October 17, 2013

Mr. Rick Jardine
On-Scene Coordinator
U.S. Environmental Protection Agency Region 4
Sam Nunn Atlanta Federal Center
61 Forsyth Street
Atlanta, Georgia 30303

Subject: **Vegetable and Soil Sampling Trip Report**
35th Avenue Removal Investigation
Birmingham, Jefferson County, Alabama
Contract No. EP-W-05-053
Technical Direction Document (TDD) No.: TNA-05-003-0148

Dear Mr. Jardine:

Oneida Total Integrated Enterprises (OTIE), Superfund Technical Assessment Response Team (START) has prepared this trip report detailing the vegetable and soil sampling activities conducted at the 35th Avenue Removal Investigation site (the site) in support of the U.S. Environmental Protection Agency (EPA). All activities and procedures described in this document were conducted in accordance with the EPA Region 4 Science and Ecosystems Support Division (SESD) *Field Branches Quality System and Technical Procedures* (FBQSTP) and the site-specific Quality Assurance Project Plan/Site Sampling Plan Revision 1 (QAPP/SSP) submitted on July 8, 2013.

START was tasked under EPA Contract Number (No.) EP-W-05-053, TDD No. TNA-05-003-0148 to conduct vegetable and soil samples located in the vicinity of the site in Birmingham, Jefferson County, Alabama (Figure 1, Appendix A). START collected vegetable and soil samples from private residential gardens where written access had been granted by the property owner. START was tasked to document on-site conditions with written logbook notes and digital photographs; submit vegetable samples collected to the Region 4 Science and Ecosystem Division (SESD) laboratory in Athens, Georgia for Target Compound List (TCL) polycyclic aromatic hydrocarbons (PAH), lead, and arsenic analysis. Co-located soil samples collected were submitted to the Test America laboratory in Savannah, Georgia for Resource

Conservation and Recovery Act (RCRA) metals analysis and submitted to the Test America laboratory in Tampa, Florida for PAH analysis.

Site Description

The site encompasses three residential neighborhoods: Fairmont, Collegeville, and Harriman Park; in Birmingham, Jefferson County Alabama (Figures 1 and 2, Appendix A). The geographic coordinates for an approximate center point of the site are 33.561625 North latitude and -86.802568 West longitude. The Fairmont neighborhood comprises the western portion of the site, Collegeville the southern portion, and Harriman Park the eastern portion.

Location Description

This investigation will focus on approximately 10 residential vegetable gardens located within the following boundaries: south of 49th Street, east of 26th Street/Highway 31, north of 27th Avenue, and west of the railroad lines (Figure 2, Appendix A).

Vegetable and Soil Sampling Activities

On July 23 and 24, 2013, START personnel collected vegetable and co-located soil samples from six private residential gardens. START had intended on sampling from 10 gardens but only six gardens had enough vegetables for analysis. The Sample Locations maps are included as Figures 3 and 4 in Appendix A. Table 1 provided in Appendix B provides a summary of the samples collected including a description of the sampling locations and the corresponding geographic coordinates. Samples were collected in accordance with the OTIE QAPP/SSP.

Logbook notes and a photographic log documenting field activities are included as Appendix C and Appendix D, respectively.

Laboratory Analytical Results

The following sections summarize the laboratory analytical results for vegetable, soil, and quality assurance samples collected during this sampling event. Laboratory analytical results are summarized in Tables 2 and 3 included in Appendix B. The final analytical report with case narrative is included as Appendix E.

Vegetable Sampling Results

A total of 20 vegetable tissue samples, including two field duplicate samples, were collected from five gardens as part of this investigation. Samples were submitted to the SESD laboratory for TCL PAH, lead, and arsenic analysis. Due to insufficient volume available for sampling, four of the sampling locations were only sampled for lead and arsenic analysis. Analytical results indicated the presence of lead and/or arsenic in four samples. Arsenic was detected in one unwashed sample (CV0827A-VGUW-CS03) at a concentration of 0.069 milligrams per kilogram (mg/kg). Lead was detected in three unwashed samples (CV0083A-VGUW-CS06, CV0256A-VGUW-CS08, CV0827A-VGUW-CS03), at concentrations ranging from 0.063 mg/kg to 0.43 mg/kg, and one washed green onion sample (CV0453A-VGW-CS15) at a concentration of 0.57 mg/kg.

Soil Sampling Results

A total of eight soil samples, including two field duplicate samples, were collected at co-located locations to the vegetables sampled and were submitted to Test America laboratories for TCL PAH, RCRA metals analysis. For evaluation purposes, analytical results were compared to the Removal Management Level (RML) for Residential Soil values. All soil samples had PAH and metals detected at some level; however, analytical results indicated the presence of lead and/or arsenic above their respective RML values in three sample locations. Arsenic was detected at concentrations above the RML of 39 mg/kg in field duplicate pairs CV0256A-VGSO-CS and CV0256A-VGSO-CSD, and CV0453A-VGSO-CS. Lead was detected at concentrations above the RML of 400 mg/kg in samples CV0453A-VGSO-CS and CV0827A-VGSO-CS.

Quality Assurance/Quality Control (QA/QC) Results

QA/QC samples submitted as part of this sampling event included four field duplicate samples (two soil and two vegetable samples). Quality assurance sample results were within acceptable limits.

Conclusion

START was tasked under EPA Contract No. EP-W-05-053, TDD No. TNA-05-003-0148 to collect vegetable and soil samples for laboratory analysis from five private residential gardens located in the vicinity of the site. Vegetable and soil samples were collected from July 23 and 24, 2013. Vegetable samples were submitted to the SESD laboratory for analysis of TCL PAH, lead, and arsenic. Co-located

soil samples were submitted to the Test America laboratory in Savannah, GA for PAH analysis and submitted to the Test America laboratory in Tampa, FL for RCRA metals analysis.

- Lead and/or arsenic were detected in four of the vegetable samples collected from four different gardens.
- PAHs were not detected in any of the vegetable samples collected.
- Lead and/or arsenic were detected above their respective RML values in the surface soils of three gardens.

If you have any questions or comments regarding this letter report or require any additional information please feel free to contact me or Russell Henderson, START Project Manager, at 678-355-5550.

Sincerely,

Ryan Stubbs
START Environmental Scientist
OTIE

Reviewed by,

Limari Krebs
Editorial Reviewer
OTIE

cc: Russell Henderson, START Project Manager
Katrina Jones, EPA Project Officer
Darryl Walker, EPA Project Officer
OTIE START File

APPENDIX A

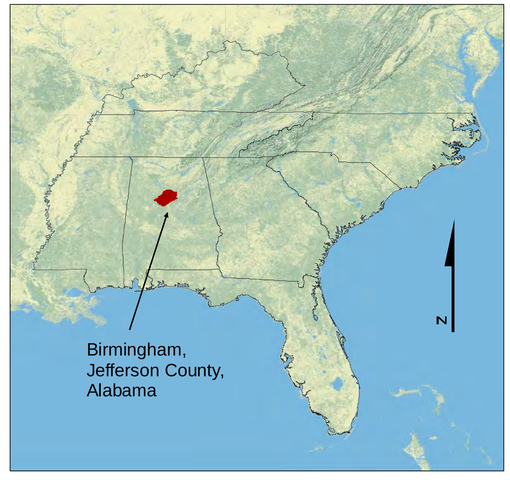
FIGURES

Legend

Study Area

Notes:
USGS Topo Quad. 1:24,000 scale of
Quad Birmingham North Date published: 1978.
Quad ID: 33086-E7

Feet
0 1,850 3,700

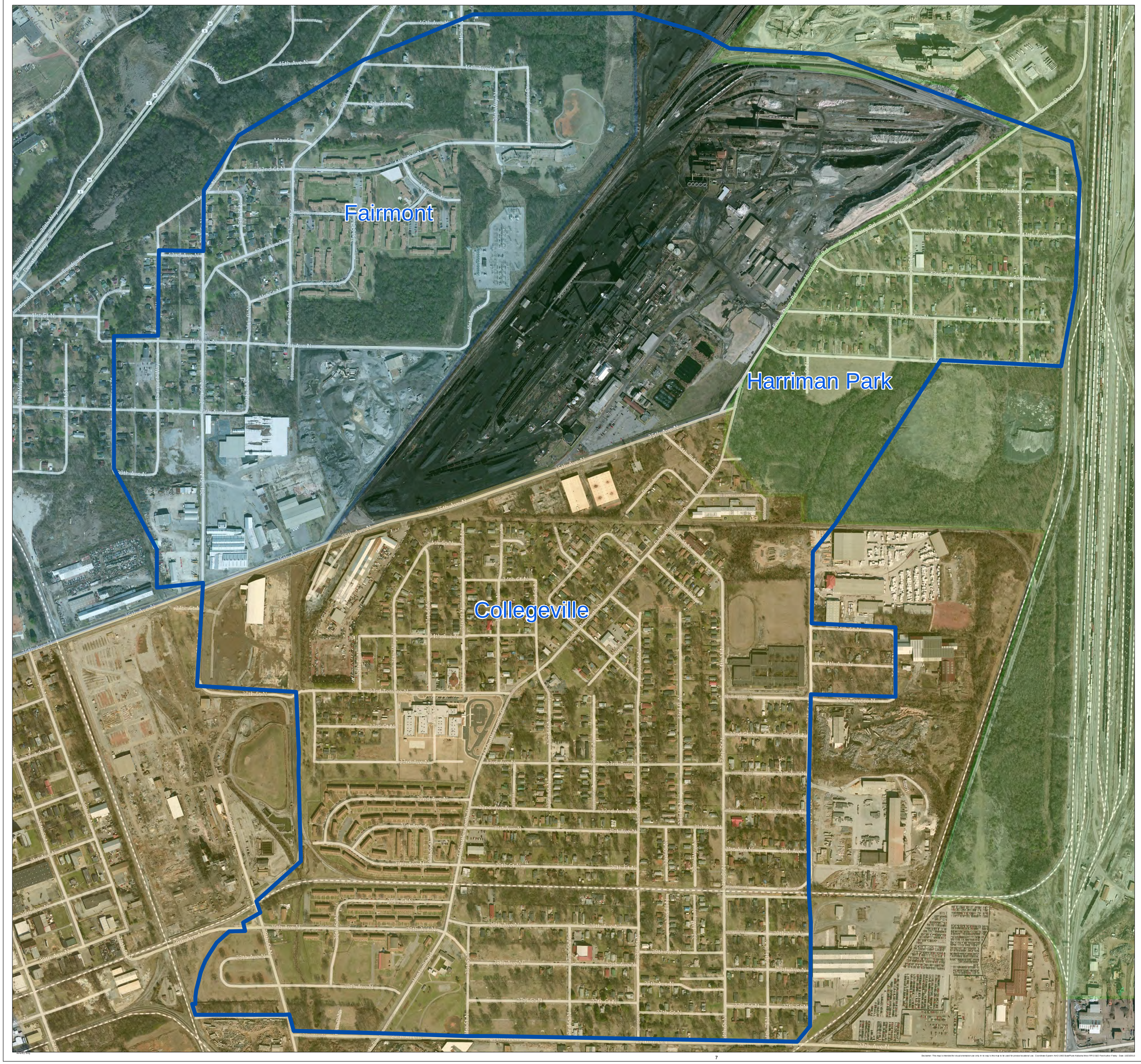


United States Environmental Protection Agency

35TH AVENUE REMOVAL
BIRMINGHAM,
JEFFERSON COUNTY,
ALABAMA
TDD No. TNA-05-003-0148

FIGURE 1
TOPOGRAPHICAL MAP

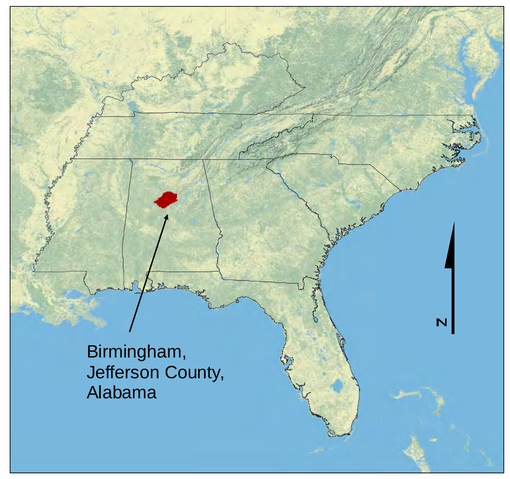
OTIE
Oneida Total Integrated Enterprises



Legend

- Study Area
- Fairmont
- Collegeville
- Harriman Park

Feet
0 750 1,500



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35TH AVENUE REMOVAL
BIRMINGHAM,
JEFFERSON COUNTY,
ALABAMA
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FIGURE 2
STUDY AREA MAP

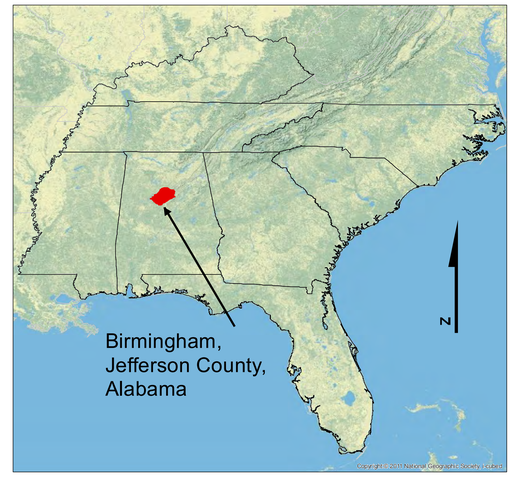
OTIE
Oneida Total Integrated Enterprises

Legend

Garden Parcel Sample

Feet

0 200 400



CV0272A-VG

CV0256A-VG

CV0453A-VG

CV0083A-VG

CV0827A-VG

35TH AVENUE REMOVAL
BIRMINGHAM
JEFFERSON COUNTY
ALABAMA
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FIGURE 3
COLLEGEVILLE GARDEN MAP

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OTIE
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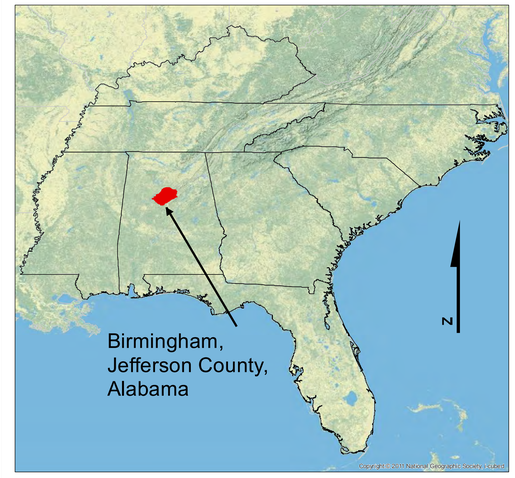
HP0306A-VG

Erwin Dairy Rd
Huntsville Rd
36th St N
45th Ave N
44th Ave N
43rd Ave N
42nd Ave N
36th Pl N
35th Pl N

Legend

Garden Parcel Sample

Feet
0 140 280



35TH AVENUE REMOVAL
BIRMINGHAM
JEFFERSON COUNTY
ALABAMA
TDD NO. TNA-05-003-0148

FIGURE 4
HARRIMAN PARK GARDEN MAP

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OTIE
Oneida Total Integrated Enterprises

APPENDIX B

TABLES

TABLE 1
35TH AVENUE REMOVAL
SUMMARY OF SAMPLES COLLECTED

Property Parcel ID	Street Number	Street Name	Sample Number	Latitude	Longitude	Matrix	Sample Date	Sample Type	Metals, Total (6010C/7471B)	PAH (8270C LL)	CLP SOM 2.1 (SVOC)	CLP ISM01.2 (Total Metals)
012200134010004000	3215	31st Pl N	CV0083A-VGSO-CS	33.55506423000	-86.80343125000	Surface Soil	7/24/2013	Field Sample	X	X		
			CV0083A-VGUW-CS06	33.55506423000	-86.80343125000	Tissue	7/24/2013	Field Sample			X	X
			CV0083A-VGUW-CS08	33.55506423000	-86.80343125000	Tissue	7/24/2013	Field Sample			X	X
			CV0083A-VGW-CS03	33.55506423000	-86.80343125000	Tissue	7/24/2013	Field Sample				X
			CV0083A-VGW-CS06	33.55506423000	-86.80343125000	Tissue	7/24/2013	Field Sample			X	X
			CV0083A-VGW-CS08	33.55506423000	-86.80343125000	Tissue	7/24/2013	Field Sample			X	X
012200134006005000	3321	32nd St N	CV0256A-VGSO-CS	33.55631729660	-86.80267874970	Surface Soil	7/23/2013	Field Sample	X	X		
			CV0256A-VGSO-CSD	33.55631729660	-86.80267874970	Surface Soil	7/23/2013	Field Duplicate	X	X		
			CV0256A-VGUW-CS08	33.55631729660	-86.80267874970	Tissue	7/23/2013	Field Sample			X	X
			CV0256A-VGUW-CS08D	33.55631729660	-86.80267874970	Tissue	7/23/2013	Field Duplicate			X	X
			CV0256A-VGUW-CS14	33.55631729660	-86.80267874970	Tissue	7/23/2013	Field Sample			X	X
			CV0256A-VGW-CS08	33.55631729660	-86.80267874970	Tissue	7/23/2013	Field Sample			X	X
			CV0256A-VGW-CS08D	33.55631729660	-86.80267874970	Tissue	7/23/2013	Field Duplicate			X	X
			CV0256A-VGW-CS14	33.55631729660	-86.80267874970	Tissue	7/23/2013	Field Sample			X	X
012200131017010000	3408	32nd St N	CV0272A-VGSO-CS	33.55862806000	-86.80355573000	Surface Soil	7/24/2013	Field Sample	X	X		
			CV0272A-VGW-CS03	33.55862806000	-86.80355573000	Tissue	7/24/2013	Field Sample			X	X
			CV0272A-VGW-CS06	33.55862806000	-86.80355573000	Tissue	7/24/2013	Field Sample			X	X
012200134005009000	3300	33rd St N	CV0453A-VGSO-CS	33.55558205360	-86.80058581330	Surface Soil	7/23/2013	Field Sample	X	X		
			CV0453A-VGW-CS15	33.55558205360	-86.80058581330	Tissue	7/23/2013	Field Sample				X
012200134016019000	3422	31st Ave N	CV0827A-VGSO-CS	33.55383588100	-86.79742952760	Surface Soil	7/23/2013	Field Sample	X	X		
			CV0827A-VGUW-CS03	33.55383588100	-86.79742952760	Tissue	7/23/2013	Field Sample			X	X
			CV0827A-VGUW-CS06	33.55383588100	-86.79742952760	Tissue	7/23/2013	Field Sample			X	X
			CV0827A-VGW-CS03	33.55383588100	-86.79742952760	Tissue	7/23/2013	Field Sample			X	X
			CV0827A-VGW-CS05	33.55383588100	-86.79742952760	Tissue	7/23/2013	Field Sample				X
			CV0827A-VGW-CS06	33.55383588100	-86.79742952760	Tissue	7/23/2013	Field Sample			X	X
			CV0827A-VGW-CS09	33.55383588100	-86.79742952760	Tissue	7/23/2013	Field Sample				X
012300073007003000	4349	F L Shuttlesworth Dr	HP0306A-VGSO-CS	33.56642957590	-86.79414553760	Surface Soil	7/23/2013	Field Sample	X	X		
			HP0306A-VGSO-CSD	33.56642957590	-86.79414553760	Surface Soil	7/23/2013	Field Duplicate	X	X		

TABLE 2
35TH AVENUE REMOVAL
SUMMARY OF VEGETABLE SAMPLE RESULTS

Sample ID	CV0083A-VGUW-CS06	CV0083A-VGUW-CS08	CV0083A-VGW-CS03	CV0083A-VGW-CS06	CV0083A-VGW-CS08	CV0256A-VGUW-CS08
Location	CV0083VG06	CV0083VG08	CV0083VG03	CV0083VG06	CV0083VG08	CV0256VG08
Sample Date	7/24/2013	7/24/2013	7/24/2013	7/24/2013	7/24/2013	7/23/2013
Tissue Type	Unwashed Tomato	Unwashed Cucumber	Washed Collared Green	Washed Tomato	Washed Cucumber	Unwashed Cucumber
Sample Type	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample
PAH (ug/kg)						
1-Methylnaphthalene	0.0068 U	0.0068 U	NA	0.0068 U	0.0068 U	0.0068 U
2-Methylnaphthalene	0.0068 U	0.0068 U	NA	0.0068 U	0.0068 U	0.0068 U
Acenaphthene	0.0068 U	0.0068 U	NA	0.0068 U	0.0068 U	0.0068 U
Acenaphthylene	0.0068 U	0.0068 U	NA	0.0068 U	0.0068 U	0.0068 U
Anthracene	0.0068 UJ	0.0068 UJ	NA	0.0068 UJ	0.0068 UJ	0.0068 UJ
Benzo(a)anthracene	0.0068 U	0.0068 U	NA	0.0068 U	0.0068 U	0.0068 U
Benzo(a)pyrene	0.0068 U	0.0068 U	NA	0.0068 U	0.0068 U	0.0068 U
Benzo(b)fluoranthene	0.0068 U	0.0068 U	NA	0.0068 U	0.0068 U	0.0068 U
Benzo(g,h,i)perylene	0.0068 U	0.0068 U	NA	0.0068 U	0.0068 U	0.0068 U
Benzo(k)fluoranthene	0.0068 U	0.0068 U	NA	0.0068 U	0.0068 U	0.0068 U
Chrysene	0.0068 U	0.0068 U	NA	0.0068 U	0.0068 U	0.0068 U
Dibenz(a,h)anthracene	0.0068 U	0.0068 U	NA	0.0068 U	0.0068 U	0.0068 U
Fluoranthene	0.0068 U	0.0068 U	NA	0.0068 U	0.0068 U	0.0068 U
Fluorene	0.0068 U	0.0068 U	NA	0.0068 U	0.0068 U	0.0068 U
Indeno (1,2,3-cd) pyrene	0.0068 U	0.0068 U	NA	0.0068 U	0.0068 U	0.0068 U
Naphthalene	0.0068 U	0.0068 U	NA	0.0068 U	0.0068 U	0.0068 U
Phenanthrene	0.0068 U	0.0068 U	NA	0.0068 U	0.0068 U	0.0068 U
Pyrene	0.0068 U	0.0068 U	NA	0.0068 U	0.0068 U	0.0068 U
Metals, Total (mg/kg)						
Arsenic	0.089 U	0.1 U	0.081 U	0.091 U	0.079 U	0.06 U
Lead	**0.43**	0.1 U	0.081 U	0.091 U	0.079 U	**0.063**

Notes:

bold - Analyte was detected
J - Value is estimated
mg/kg - Milligrams per kilogram
NA - Not analyzed
PAH - Polycyclic Aromatic Hydrocarbons
U - Analyte was not detected above the reporting limit
ug/kg - Micrograms per kilogram

TABLE 2
35TH AVENUE REMOVAL
SUMMARY OF VEGETABLE SAMPLE RESULTS

Sample ID	CV0256A-VGUW-CS08D	CV0256A-VGUW-CS14	CV0256A-VGW-CS08	CV0256A-VGW-CS08D	CV0256A-VGW-CS14	CV0272A-VGW-CS03
Location	CV0256VG08	CV0256VG14	CV0256VG08	CV0256VG08	CV0256VG14	CV0272VG03
Sample Date	7/23/2013	7/23/2013	7/23/2013	7/23/2013	7/23/2013	7/24/2013
Tissue Type	Unwashed Cucumber	Unwashed Zucchini	Washed Cucumber	Washed Cucumber	Washed Zucchini	Washed Collared Green
Sample Type	Field Duplicate	Field Sample	Field Sample	Field Duplicate	Field Sample	Field Sample
PAH (ug/kg)						
1-Methylnaphthalene	0.0068 U	0.0068 U	0.0068 U	0.0068 U	0.0068 U	0.02 U
2-Methylnaphthalene	0.0068 U	0.0068 U	0.0068 U	0.0068 U	0.0068 U	0.02 U
Acenaphthene	0.0068 U	0.0068 U	0.0068 U	0.0068 U	0.0068 U	0.02 U
Acenaphthylene	0.0068 U	0.0068 U	0.0068 U	0.0068 U	0.0068 U	0.02 U
Anthracene	0.0068 U	0.0068 U	0.0068 U	0.0068 U	0.0068 U	0.02 UJ
Benzo(a)anthracene	0.0068 U	0.0068 U	0.0068 U	0.0068 U	0.0068 U	0.02 U
Benzo(a)pyrene	0.0068 UJ	0.0068 UJ	0.0068 UJ	0.0068 UJ	0.0068 UJ	0.02 U
Benzo(b)fluoranthene	0.0068 U	0.0068 U	0.0068 U	0.0068 U	0.0068 U	0.02 U
Benzo(g,h,i)perylene	0.0068 U	0.0068 U	0.0068 U	0.0068 U	0.0068 U	0.02 U
Benzo(k)fluoranthene	0.0068 U	0.0068 U	0.0068 U	0.0068 U	0.0068 U	0.02 U
Chrysene	0.0068 U	0.0068 U	0.0068 U	0.0068 U	0.0068 U	0.02 U
Dibenz(a,h)anthracene	0.0068 U	0.0068 U	0.0068 U	0.0068 U	0.0068 U	0.02 U
Fluoranthene	0.0068 U	0.0068 U	0.0068 U	0.0068 U	0.0068 U	0.02 U
Fluorene	0.0068 U	0.0068 U	0.0068 U	0.0068 U	0.0068 U	0.02 U
Indeno (1,2,3-cd) pyrene	0.0068 U	0.0068 U	0.0068 U	0.0068 U	0.0068 U	0.02 U
Naphthalene	0.0068 U	0.0068 U	0.0068 U	0.0068 U	0.0068 U	0.02 U
Phenanthrene	0.0068 U	0.0068 U	0.0068 U	0.0068 U	0.0068 U	0.02 U
Pyrene	0.0068 U	0.0068 U	0.0068 U	0.0068 U	0.0068 U	0.02 U
Metals, Total (mg/kg)						
Arsenic	0.053 U	0.088 U	0.1 U	0.091 U	0.1 U	0.08 U
Lead	0.053 U	0.088 U	0.1 U	0.091 U	0.1 U	0.08 U

Notes:

bold - Analyte was detected
J - Value is estimated
mg/kg - Milligrams per kilogram
NA - Not analyzed
PAH - Polycyclic Aromatic Hydrocarbons
U - Analyte was not detected above the reporting limit
ug/kg - Micrograms per kilogram

TABLE 2
35TH AVENUE REMOVAL
SUMMARY OF VEGETABLE SAMPLE RESULTS

Sample ID	CV0272A-VGW-CS06	CV0453A-VGW-CS15	CV0827A-VGUW-CS03	CV0827A-VGUW-CS06	CV0827A-VGW-CS03	CV0827A-VGW-CS05
Location	CV0272VG06	CV0453VG15	CV0827VG03	CV0827VG06	CV0827VG03	CV0827VG05
Sample Date	7/24/2013	7/23/2013	7/23/2013	7/23/2013	7/23/2013	7/23/2013
Tissue Type	Washed Tomatoe	Washed Green Onion	Unwashed Collared Gree	Unwashed Tomato	Washed Collared Green	Washed Okra
Sample Type	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample
PAH (ug/kg)						
1-Methylnaphthalene	0.0068 U	NA	0.02 U	0.0068 U	0.02 U	NA
2-Methylnaphthalene	0.0068 U	NA	0.02 U	0.0068 U	0.02 U	NA
Acenaphthene	0.0068 U	NA	0.02 U	0.0068 U	0.02 U	NA
Acenaphthylene	0.0068 U	NA	0.02 U	0.0068 U	0.02 U	NA
Anthracene	0.0068 U	NA	0.02 U	0.0068 U	0.02 U	NA
Benzo(a)anthracene	0.0068 U	NA	0.02 U	0.0068 U	0.02 U	NA
Benzo(a)pyrene	0.0068 UJ	NA	0.02 UJ	0.0068 UJ	0.02 UJ	NA
Benzo(b)fluoranthene	0.0068 U	NA	0.02 U	0.0068 U	0.02 U	NA
Benzo(g,h,i)perylene	0.0068 U	NA	0.02 U	0.0068 U	0.02 U	NA
Benzo(k)fluoranthene	0.0068 U	NA	0.02 U	0.0068 U	0.02 U	NA
Chrysene	0.0068 U	NA	0.02 U	0.0068 U	0.02 U	NA
Dibenz(a,h)anthracene	0.0068 U	NA	0.02 U	0.0068 U	0.02 U	NA
Fluoranthene	0.0068 U	NA	0.02 U	0.0068 U	0.02 U	NA
Fluorene	0.0068 U	NA	0.02 U	0.0068 U	0.02 U	NA
Indeno (1,2,3-cd) pyrene	0.0068 U	NA	0.02 U	0.0068 U	0.02 U	NA
Naphthalene	0.0068 U	NA	0.02 U	0.0068 U	0.02 U	NA
Phenanthrene	0.0068 U	NA	0.02 U	0.0068 U	0.02 U	NA
Pyrene	0.0068 U	NA	0.02 U	0.0068 U	0.02 U	NA
Metals, Total (mg/kg)						
Arsenic	0.099 U	0.086 U	**0.069**	0.06 U	0.083 U	0.082 U
Lead	0.099 U	**0.57**	**0.16**	0.06 U	0.083 U	0.082 U

Notes:

bold - Analyte was detected
J - Value is estimated
mg/kg - Milligrams per kilogram
NA - Not analyzed
PAH - Polycyclic Aromatic Hydrocarbons
U - Analyte was not detected above the reporting limit
ug/kg - Micrograms per kilogram

TABLE 2
35TH AVENUE REMOVAL
SUMMARY OF VEGETABLE SAMPLE RESULTS

Sample ID	CV0827A-VGW-CS06	CV0827A-VGW-CS09
Location	CV0827VG06	CV0827VG09
Sample Date	7/23/2013	7/23/2013
Tissue Type	Washed Tomato	Washed Pepper
Sample Type	Field Sample	Field Sample
PAH (ug/kg)		
1-Methylnaphthalene	0.0068 U	NA
2-Methylnaphthalene	0.0068 U	NA
Acenaphthene	0.0068 U	NA
Acenaphthylene	0.0068 U	NA
Anthracene	0.0068 U	NA
Benzo(a)anthracene	0.0068 U	NA
Benzo(a)pyrene	0.0068 UJ	NA
Benzo(b)fluoranthene	0.0068 U	NA
Benzo(g,h,i)perylene	0.0068 U	NA
Benzo(k)fluoranthene	0.0068 U	NA
Chrysene	0.0068 U	NA
Dibenz(a,h)anthracene	0.0068 U	NA
Fluoranthene	0.0068 U	NA
Fluorene	0.0068 U	NA
Indeno (1,2,3-cd) pyrene	0.0068 U	NA
Naphthalene	0.0068 U	NA
Phenanthrene	0.0068 U	NA
Pyrene	0.0068 U	NA
Metals, Total (mg/kg)		
Arsenic	0.086 U	0.09 U
Lead	0.086 U	0.09 U

Notes:

bold - Analyte was detected
J - Value is estimated
mg/kg - Milligrams per kilogram
NA - Not analyzed
PAH - Polycyclic Aromatic Hydrocarbons
U - Analyte was not detected above the reporting limit
ug/kg - Micrograms per kilogram

TABLE 3
35TH AVENUE REMOVAL
SUMMARY OF VEGETABLE GARDEN SOIL SAMPLE RESULTS

Sample ID	RML	CV0083A-VGSO-CS	CV0256A-VGSO-CS	CV0256A-VGSO-CSD	CV0272A-VGSO-CS	CV0453A-VGSO-CS	CV0827A-VGSO-CS	HP0306A-VGSO-CS	HP0306A-VGSO-CSD
Location		CV0083A-VGSO	CV0256A-VGSO	CV0256A-VGSO	CV0272A-VGSO	CV0453A-VGSO	CV0827A-VGSO	HP0306A-VGSO	HP0306A-VGSO
Sample Date	Resident Soil	7/24/2013	7/23/2013	7/23/2013	7/24/2013	7/23/2013	7/23/2013	7/23/2013	7/23/2013
Sample Type		Field Sample	Field Sample	Field Duplicate	Field Sample	Field Sample	Field Sample	Field Sample	Field Duplicate
PAH (mg/kg)									
1-Methylnaphthalene	1600	**0.091 J**	**0.91 J**	**0.4 J**	**0.15**	**0.15**	**0.11 J**	**0.042 J**	**0.033 J**
2-Methylnaphthalene	690	**0.11 J**	**1.8 J**	**0.83 J**	**0.11**	**0.19**	**0.13 J**	**0.058**	**0.049 J**
Acenaphthene	10000	0.48 U	0.13 U	0.53 UJ	0.12 U	0.15 U	0.58 U	0.12 U	0.13 U
Acenaphthylene	NL	**0.074 J**	**0.056 J**	0.21 UJ	**0.033 J**	**0.033 J**	**0.048 J**	**0.017 J**	**0.014 J**
Anthracene	52000	**0.12**	**0.21 J**	**0.082 J**	**0.052**	**0.052**	**0.052**	**0.036 J**	**0.021 J**
Benzo[a]anthracene	15	**0.34**	**0.44 J**	**0.16 J**	**0.14**	**0.17**	**0.14**	**0.093 J**	**0.048 J**
Benzo[a]pyrene	1.5	**0.29**	**0.16 J**	**0.06 J**	**0.11**	**0.13**	**0.12**	**0.059**	**0.052**
Benzo[b]fluoranthene	15	**0.47**	**0.44 J**	**0.14 J**	**0.16**	**0.2**	**0.2**	**0.1**	**0.093**
Benzo[g,h,i]perylene	NL	**0.27**	**0.22 J**	**0.074 J**	**0.11**	**0.15**	**0.14**	**0.062**	**0.055**
Benzo[k]fluoranthene	150	**0.13**	**0.071 J**	**0.026 J**	**0.067**	**0.065**	**0.056**	**0.026**	**0.026**
Chrysene	1500	**0.34**	**1.4 J**	**0.53 J**	**0.16**	**0.25**	**0.22**	**0.13**	**0.099**
Dibenz(a,h)anthracene	1.5	**0.077 J**	**0.11 J**	**0.031 J**	**0.03**	**0.041**	**0.039 J**	**0.02 J**	**0.016 J**
Fluoranthene	6900	**0.48**	**0.52 J**	**0.22 J**	**0.22**	**0.25**	**0.24**	**0.089**	**0.071**
Fluorene	6900	**0.028 J**	**0.1 J**	**0.026 J**	**0.015 J**	**0.015 J**	0.12 U	**0.017 J**	**0.0076 J**
Indeno[1,2,3-cd]pyrene	15	**0.24**	**0.09 J**	**0.043 J**	**0.095**	**0.11**	**0.11 J**	**0.052**	**0.046**
Naphthalene	360	**0.089 J**	**1.4 J**	**0.71 J**	**0.07**	**0.17**	**0.099 J**	**0.083**	**0.074**
Phenanthrene	NL	**0.34**	**3.7 J**	**1.1 J**	**0.25**	**0.24**	**0.24**	**0.14 J**	**0.075 J**
Pyrene	5200	**0.37**	**0.63 J**	**0.27 J**	**0.17**	**0.21**	**0.2**	**0.13 J**	**0.064 J**
Metals, Total (mg/kg)									
Arsenic	39	**18 J**	**50**	**67**	**20**	**42**	**31**	**38**	**36**
Barium	46000	**210**	**190**	**220**	**180**	**510**	**630**	**190**	**180**
Cadmium	210	**2.8**	**1.1**	**1.6**	**0.4 J**	**3.5**	**2.8**	**0.38 J**	**0.64 J**
Chromium	NL	**86 J**	**24 J**	**23**	**64**	**45**	**44**	**86**	**84**
Lead	400	**160 J**	**130**	**160**	**130**	**1000**	**420**	**110**	**110**
Mercury	30	**0.37**	**0.38 J-**	**0.41**	**0.25**	**0.89**	**0.41**	**0.1**	**0.11**
Selenium	1200	**1.4 J**	2.8 U	3.1 U	3 U	3.5 U	3.1 U	2.9 U	3.1 U
Silver	1200	**0.21 J**	1.1 U	**0.13 J**	1.2 U	**1.5**	**0.28 J**	1.2 U	1.2 U

Notes:

Bold and shaded - Analyte concentration exceeds the associated Removal Management Level (RML)
bold - Analyte was detected
J - Value is estimated
J- - Value is estimated; bias low
mg/kg - Milligrams per kilogram
NA - Not analyzed
NL - Comparison value not listed
PAH - Polycyclic Aromatic Hydrocarbons
U - Analyte was not detected above the reporting limit
ug/kg - Micrograms per kilogram

APPENDIX C

LOGBOOK NOTES

LB000086

United States Environmental Protection Agency
Region 4

OTIE
Oneida Total Integrated Enterprises

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Vegetable samples + Wipe samples

35TH AVENUE REMOVAL INVESTIGATION
BIRMINGHAM, ALABAMA
JEFF CROWLEY, ON-SCENE COORDINATOR

FIELD SAMPLING LOGBOOK

Book 1 **of** 2

Inclusive Dates: 7-23-13 TO 7-25-13

List of Sampling Team in logbook:

Name	Initials	Organization/Duties
Mairmer Barrios-Cartagena	MC	OTIE, Team Leader
Jerry Bartap	JP	OTIE

~~7/22~~ 11

7/22/13

Vegetables nomenclature:

property ID ① CV???? A -VGUW- CS01 or GS01

- CV0827
- CV0083
- CV0256 no vegetables
- CV0272
- HP0306
- CV0453

Collocated soils → CV???? A-VGS0-CS~~01~~ (m) or GS~~01~~ (m)

note: soil sample will be a composite from around the roots of vegetables sampled

Vegetables numbering

① turnips greens
② mustard greens
③ collard greens
④ squash
⑤ okra
⑥ Tomatoes
⑦ cheyenne peppers
⑧ cucumbers
⑨ peppers
⑩ cabbage
⑪ broccoli
⑫ corn

ADDRESS: 3422 31ST NORTH PROPERTY ID: CV0827

DATE: 7/23/13 ARRIVAL TIME: 0925

Other pertinent information (weather conditions, etc.):

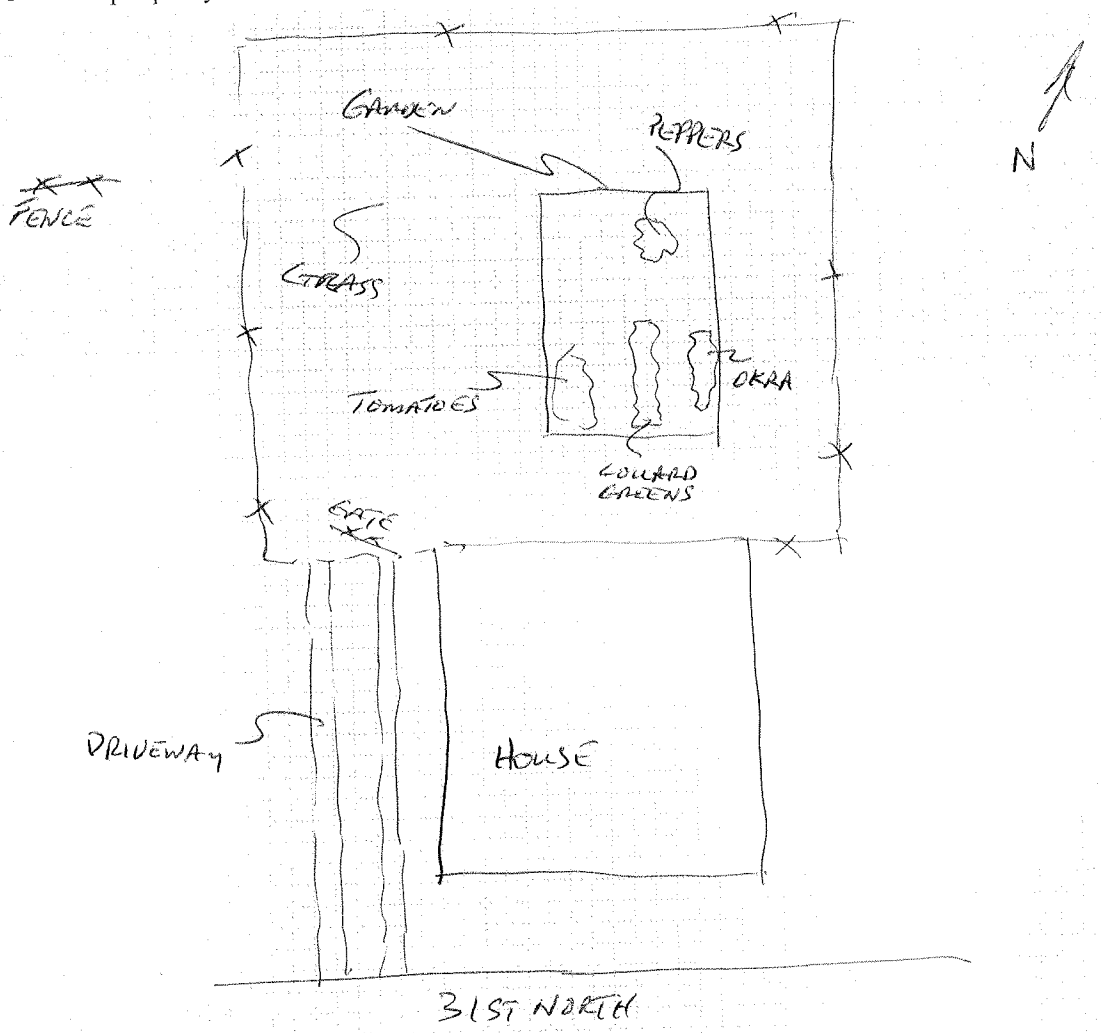
PARTLY CLOUDY, PREVIOUS COMPLETING HEAVY RAINFALL

PROPERTY COMMENTS:

FENCED PROPERTY, ONSITE TO SAMPLE GARDEN

TOMATOES, COLLARD GREENS, OKRA, PEPPERS

Grid for property sketch



STATION ID: CV0827 SAMPLE ID: CV0827A-VGSO-CS

SAMPLE COLLECTION TIME: 0945

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

COMPOSITE SOIL SAMPLE FROM TOMATOES, COLLARD GREENS, PEPPERS, OKRA

Collection: Composite or Grab MS/MSD? Y or N

Field Duplicate or Split: *Yes or No If yes, indicate* Duplicate/split sample station ID:

GPS Coordinates: Trimble [X] Instrument #: 018594 Logged? Y or N

Aliquot #1: *Latitude:* 33.55538887 N *Longitude* 86.79742953 W

Media description: TOMATOES; DK BRN SILTY CLAY W/ GRAVEL + COAL FRAGS

Aliquot #2 *Latitude:* 33.55389243 N *Longitude* 86.79731926 W

Media description: COLLARD GREENS SEE DESCRIPTION TO ALIQUOT #1

Aliquot #3: *Latitude:* 33.55389005 N *Longitude* 86.79732105 W

Media description: OKRA; SEE DESCRIPTION TO ALIQUOT #1

Aliquot #4: *Latitude:* 33.55390809 N *Longitude* 86.79730398 W

Media description: PEPPERS; SEE DESCRIPTION TO ALIQUOT #1

Aliquot #5: *Latitude:* N *Longitude* W

Media description:

STATION ID: CV0827 SAMPLE ID: CV0827A-VGUW-CS03

SAMPLE COLLECTION TIME: 0941

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

collard greens

Collection: Composite or Grab MS/MSD? Y or N

Field Duplicate or Split: ~~Yes~~ or ~~No~~ no split *If yes, indicate* Duplicate/split sample station ID: ~~CV08~~ no split

GPS Coordinates: Trimble [ ] Instrument #: Logged? Y or N

Aliquot #1: *Latitude:* N *Longitude* W

Media description: collard greens

Aliquot #2 *Latitude:* N *Longitude* W

Media description:

Aliquot #3: *Latitude:* N *Longitude* W

Media description:

Aliquot #4: *Latitude:* N *Longitude* W

Media description:

Aliquot #5: *Latitude:* N *Longitude* W

Media description:

ADDRESS: _____ PROPERTY ID: _____

DATE: _____ ARRIVAL TIME: _____

Other pertinent information (weather conditions, etc.):

_____

PROPERTY COMMENTS:

_____

_____

_____

_____

Grid for property sketch

Refer to page 6

STATION ID: CV0827 SAMPLE ID: CV0827A-VGLW-CS03

SAMPLE COLLECTION TIME: 0941

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

Collard greens

Collection: (Composite) or Grab MS/MSD? Y or (N)

Field Duplicate or Split: *Yes or* (No) *If yes, indicate* Duplicate/split sample station ID: N/A

GPS Coordinates: Trimble [X] Instrument #: D18594 Logged? (Y) or N

Aliquot #1: *Latitude:* _____ N *Longitude* _____ W

Media description: collard greens; DK BROWN SILTY CLAY, WET W/GRAVEL+COARSE FINES

Aliquot #2 *Latitude:* _____ N *Longitude* _____ W

Media description: _____

Aliquot #3: ~~*Latitude:*~~ _____ N *Longitude* _____ W

Media description: _____

Aliquot #4: *Latitude:* _____ N *Longitude* _____ W

Media description: _____

Aliquot #5: *Latitude:* _____ N *Longitude* _____ W

Media description: _____

STATION ID: CV0827 SAMPLE ID: CV0827A-VGLW-CS06

SAMPLE COLLECTION TIME: 0945

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

green tomatoes

Collection: (Composite) or Grab MS/MSD? Y or (N)

Field Duplicate or Split: *Yes or* (No) *If yes, indicate* Duplicate/split sample station ID: N/A

GPS Coordinates: Trimble [ ] Instrument #: _____ Logged? Y or N

Aliquot #1: *Latitude:* _____ N *Longitude* _____ W

Media description: tomatoes; green

Aliquot #2 *Latitude:* _____ N *Longitude* _____ W

Media description: _____

Aliquot #3: *Latitude:* _____ N *Longitude* _____ W

Media description: _____

Aliquot #4: *Latitude:* _____ N *Longitude* _____ W

Media description: _____

Aliquot #5: *Latitude:* _____ N *Longitude* _____ W

Media description: _____

ADDRESS: _____ PROPERTY ID: _____

DATE: _____ ARRIVAL TIME: _____

Other pertinent information (weather conditions, etc.):

_____

PROPERTY COMMENTS:

_____

_____

_____

_____

Grid for property sketch

Refer to page 6

STATION ID: CV0827 SAMPLE ID: CV0827A-VGW-CS06

SAMPLE COLLECTION TIME: 0945

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

green tomatoes

Collection: (Composite) or Grab MS/MSD? Y or (N)

Field Duplicate or Split: *Yes or* (No) *If yes, indicate* Duplicate/split sample station ID: N/A

GPS Coordinates: Trimble [ ] Instrument #: _____ Logged? Y or N

Aliquot #1: *Latitude:* _____ N *Longitude* _____ W

Media description: green tomatoes

Aliquot #2 *Latitude:* _____ N *Longitude* _____ W

Media description: _____

Aliquot #3: *Latitude:* _____ N *Longitude* _____ W

Media description: _____

Aliquot #4: *Latitude:* _____ N *Longitude* _____ W

Media description: _____

Aliquot #5: *Latitude:* _____ N *Longitude* _____ W

Media description: _____

STATION ID: CV0827 SAMPLE ID: CV0827A-VG

SAMPLE COLLECTION TIME: 0945

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

peppers (green and red)

Collection: (Composite) or Grab MS/MSD? Y or (N)

Field Duplicate or Split: *Yes or* (No) *If yes, indicate* Duplicate/split sample station ID: N/A

GPS Coordinates: Trimble [ ] Instrument #: _____ Logged? Y or N

Aliquot #1: *Latitude:* _____ N *Longitude* _____ W

Media description: pepper (green + red)

Aliquot #2 *Latitude:* _____ N *Longitude* _____ W

Media description: _____

Aliquot #3: *Latitude:* _____ N *Longitude* _____ W

Media description: _____

Aliquot #4: *Latitude:* _____ N *Longitude* _____ W

Media description: _____

Aliquot #5: *Latitude:* _____ N *Longitude* _____ W

Media description: _____

ADDRESS: _____ PROPERTY ID: _____

DATE: _____ ARRIVAL TIME: _____

Other pertinent information (weather conditions, etc.):

_____

PROPERTY COMMENTS:

_____

_____

_____

_____

Grid for property sketch

Refer to page 6

STATION ID: CV0827 **SAMPLE ID:** CV0827A-VGW-CS05

SAMPLE COLLECTION TIME: 0947

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

okra

Collection: Composite or Grab **MS/MSD?** Y or N

Field Duplicate or Split: *Yes or* No *If yes, indicate* **Duplicate/split sample station ID:** N/A

GPS Coordinates: Trimble [ ] Instrument #: _____ Logged? Y or N

Aliquot #1: *Latitude:* _____ N *Longitude* _____ W

Media description: okra5

Aliquot #2 *Latitude:* _____ N *Longitude* _____ W

Media description: _____

Aliquot #3: *Latitude:* _____ N *Longitude* _____ W

Media description: _____

Aliquot #4: *Latitude:* _____ N *Longitude* _____ W

Media description: _____

Aliquot #5: *Latitude:* _____ N *Longitude* _____ W

Media description: _____

STATION ID: _____ **SAMPLE ID:** _____

SAMPLE COLLECTION TIME: _____

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

Collection: Composite or Grab **MS/MSD?** Y or N

Field Duplicate or Split: *Yes or No If yes, indicate* **Duplicate/split sample station ID:** _____

GPS Coordinates: Trimble [ ] Instrument #: _____ Logged? Y or N

Aliquot #1: *Latitude:* _____ N *Longitude* _____ W

Media description: _____

Aliquot #2 *Latitude:* _____ N *Longitude* _____ W

Media description: _____

Aliquot #3: *Latitude:* _____ N *Longitude* _____ W

Media description: _____

Aliquot #4: *Latitude:* _____ N *Longitude* _____ W

Media description: _____

Aliquot #5: *Latitude:* _____ N *Longitude* _____ W

Media description: _____

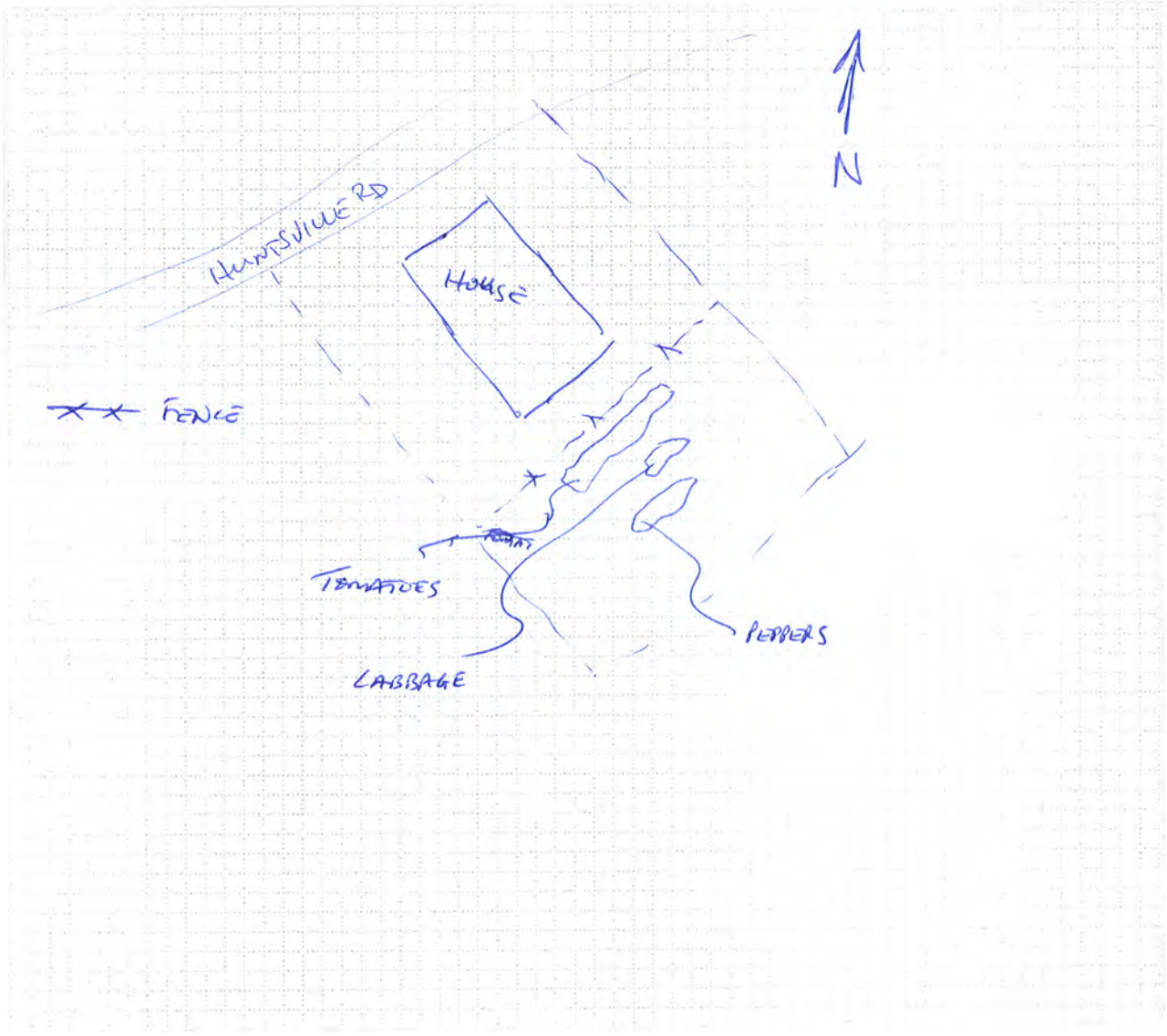
ADDRESS: 4349 FL Shuttlesworth Dr. PROPERTY ID: #P0306

DATE: 7/23/2013 ARRIVAL TIME: 1040

Other pertinent information (weather conditions, etc.):
Cloudy @ 78°F ; thunderstorms; wind W 8 mph

PROPERTY COMMENTS:
GARDEN WET FROM RAINFALL; SAMPLE CABBAGE, PEPPERS + TOMATOES

Grid for property sketch



soil

STATION ID: HP0306A ~~-VG~~ **SAMPLE ID:** HP0306A-VGS0-CS

SAMPLE COLLECTION TIME: 1055

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

Collection: (Composite) or Grab **MS/MSD?** Y or N

Field Duplicate or Split: (Yes) or No *If yes, indicate* **Duplicate/split sample station ID:** HP0306A-VGS0-CSD

GPS Coordinates: Trimble [X] Instrument #: 018594 Logged? (Y) or N

Aliquot #1: *Latitude:* 33.56642986 N *Longitude* 86.79414375 W
Media description: CABBAGE, DK BWN SILTY CLAY, WET W/GRAVEL + COAL FRAGS

Aliquot #2 *Latitude:* 33.56641866 N *Longitude* 86.79414716 W
Media description: PEPPERS; SEE DESCRIPTION FROM ALIQUOT #1

Aliquot #3: *Latitude:* 33.56644147 N *Longitude* 86.79416930 W
Media description: TOMATOES; SEE DESCRIPTION FROM ALIQUOT #1

Aliquot #4: *Latitude:* _____ N *Longitude* _____ W
Media description: _____

Aliquot #5: *Latitude:* _____ N *Longitude* _____ W
Media description: _____

STATION ID: HP0306A **SAMPLE ID:** HP0306A-VGUW-GS13

SAMPLE COLLECTION TIME: 1046

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

~~CABBAGE~~

Collection: Composite or (Grab) **MS/MSD?** Y or N

Field Duplicate or Split: (Yes) or No *If yes, indicate* **Duplicate/split sample station ID:** HP0306A-VGUW-GS13D

GPS Coordinates: Trimble [ ] Instrument #: _____ Logged? Y or N

Aliquot #1: *Latitude:* _____ N *Longitude* _____ W
Media description: ~~CABBAGE~~ (SEE GPS ABOVE)

Aliquot #2 *Latitude:* _____ N *Longitude* _____ W
Media description: _____

Aliquot #3: *Latitude:* _____ N *Longitude* _____ W
Media description: _____

Aliquot #4: *Latitude:* _____ N *Longitude* _____ W
Media description: _____

Aliquot #5: *Latitude:* _____ N *Longitude* _____ W
Media description: _____

ADDRESS: _____ PROPERTY ID: HP0306

DATE: _____ ARRIVAL TIME: _____

Other pertinent information (weather conditions, etc.):

_____

PROPERTY COMMENTS:

_____

_____

_____

_____

Grid for property sketch

Refer to page 14

STATION ID: HP0306A SAMPLE ID: HP0306A-VGW-GS13

SAMPLE COLLECTION TIME: 1046

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

CABBAGE

Collection: Composite or Grab MS/MSD? Y or N

Field Duplicate or Split: Yes or No *If yes, indicate* Duplicate/split sample station ID: HP0306A-VGW-GS13D

GPS Coordinates: Trimble [ ] Instrument #: _____ Logged? Y or N

Aliquot #1: *Latitude:* _____ N *Longitude* _____ W

Media description: _____

Aliquot #2 *Latitude:* _____ N *Longitude* _____ W

Media description: _____

Aliquot #3: *Latitude:* _____ N *Longitude* _____ W

Media description: _____

Aliquot #4: *Latitude:* _____ N *Longitude* _____ W

Media description: _____

Aliquot #5: *Latitude:* _____ N *Longitude* _____ W

Media description: _____

STATION ID: HP0306A SAMPLE ID: HP0306A-VGW-GS09

SAMPLE COLLECTION TIME: 1050

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

PEPPERS

Collection: Composite or Grab MS/MSD? Y or N

Field Duplicate or Split: Yes or No *If yes, indicate* Duplicate/split sample station ID: _____

GPS Coordinates: Trimble [ ] Instrument #: _____ Logged? Y or N

Aliquot #1: *Latitude:* _____ N *Longitude* _____ W

Media description: _____

Aliquot #2 *Latitude:* _____ N *Longitude* _____ W

Media description: _____

Aliquot #3: *Latitude:* _____ N *Longitude* _____ W

Media description: _____

Aliquot #4: *Latitude:* _____ N *Longitude* _____ W

Media description: _____

Aliquot #5: *Latitude:* _____ N *Longitude* _____ W

Media description: _____

ADDRESS: _____ PROPERTY ID: HP0306

DATE: _____ ARRIVAL TIME: _____

Other pertinent information (weather conditions, etc.):

PROPERTY COMMENTS:

Grid for property sketch

Refer to page 14

STATION ID: HP0306A - SAMPLE ID: HP0306A-VGUW-CS06

SAMPLE COLLECTION TIME: 1055

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

TOMATOES

Collection: Composite or Grab MS/MSD? Y or N

Field Duplicate or Split: Yes or No *If yes, indicate* Duplicate/split sample station ID: HP0306A-VGUW-CS06D

GPS Coordinates: Trimble [ ] Instrument #: _____ Logged? Y or N

Aliquot #1: *Latitude:* _____ N *Longitude* _____ W

Media description: _____

Aliquot #2 *Latitude:* _____ N *Longitude* _____ W

Media description: _____

Aliquot #3: *Latitude:* _____ N *Longitude* _____ W

Media description: _____

Aliquot #4: *Latitude:* _____ N *Longitude* _____ W

Media description: _____

Aliquot #5: *Latitude:* _____ N *Longitude* _____ W

Media description: _____

STATION ID: HP0306A SAMPLE ID: HP0306A-VGW-CS06

SAMPLE COLLECTION TIME: 1055

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

TOMATOES

Collection: Composite or Grab MS/MSD? Y or N

Field Duplicate or Split: Yes or No *If yes, indicate* Duplicate/split sample station ID: HP0306A-VGW-CS06D

GPS Coordinates: Trimble [ ] Instrument #: _____ Logged? Y or N

Aliquot #1: *Latitude:* _____ N *Longitude* _____ W

Media description: _____

Aliquot #2 *Latitude:* _____ N *Longitude* _____ W

Media description: _____

Aliquot #3: *Latitude:* _____ N *Longitude* _____ W

Media description: _____

Aliquot #4: *Latitude:* _____ N *Longitude* _____ W

Media description: _____

Aliquot #5: *Latitude:* _____ N *Longitude* _____ W

Media description: _____

ADDRESS: 3321 32nd St. N PROPERTY ID: CU0255

DATE: 7/23/13 ARRIVAL TIME: 1130

Other pertinent information (weather conditions, etc.):

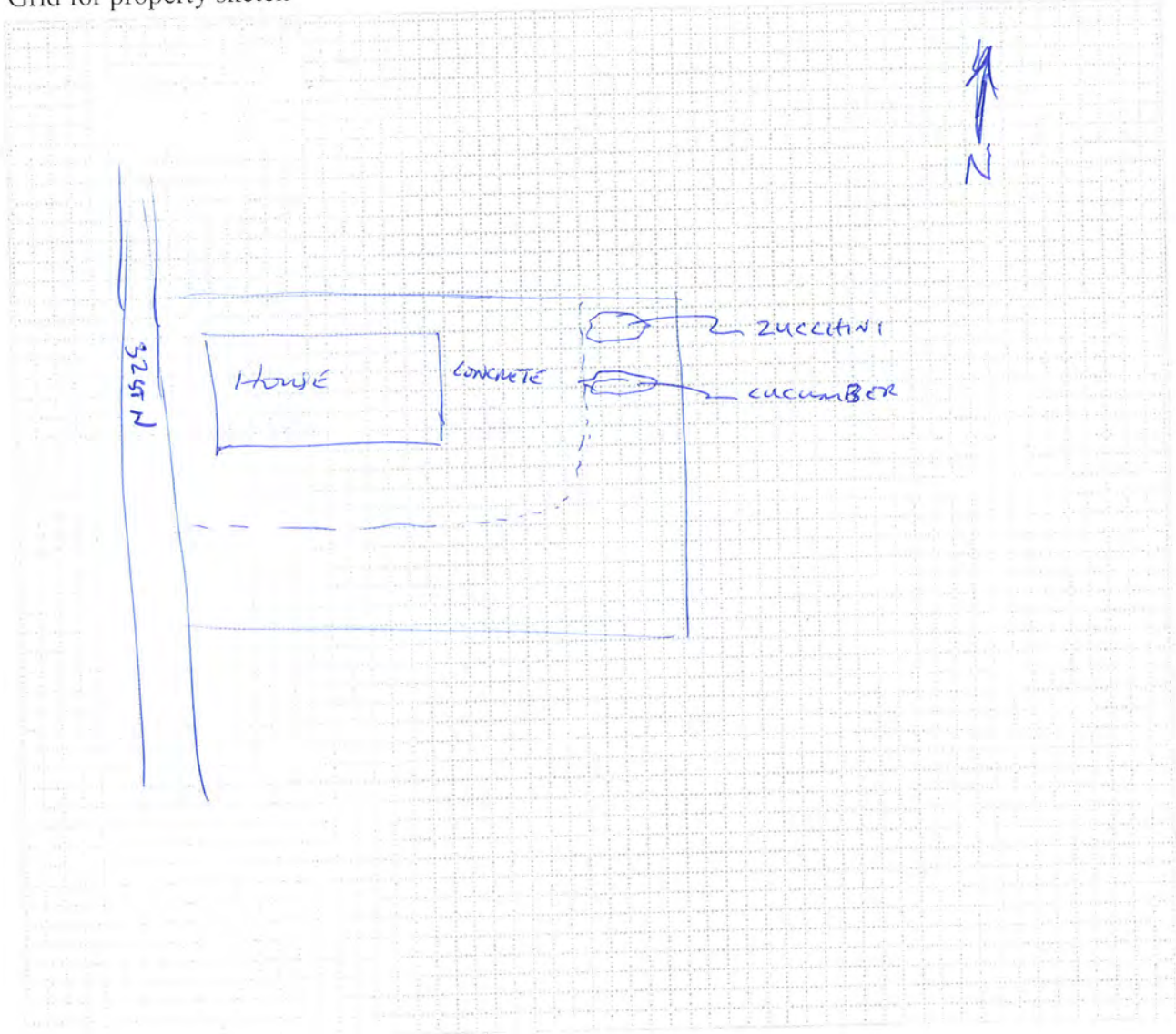
CLOUDY; HEAVY RAINFALL AT TIMES

PROPERTY COMMENTS:

ONSITE TO SAMPLE VEGETABLE GARDEN

SAMPLE ZUCCHINI + CUCUMBER

Grid for property sketch



Soil

STATION ID: CV0256A- SAMPLE ID: CV0256A-VGSO-CS

SAMPLE COLLECTION TIME: 1135

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

Collection: Composite or Grab MS/MSD? Y or N

Field Duplicate or Split: Yes or No *If yes, indicate* Duplicate/split sample station ID: CV0256A-VGSO-CSD

GPS Coordinates: Trimble [X] Instrument #: 018594 Logged? Y or N

Aliquot #1: *Latitude:* 33.55632370 N *Longitude* 86.80268497 W

Media description: ZUCCHINI; DK BWN SILTY CLAY W/GRAVEL + COAL FRAGS; WET

Aliquot #2 *Latitude:* 33.55632422 N *Longitude* 86.80233214 W

Media description: CUCUMBER; SEE DESCRIPTION FROM ALIQUOT #1

Aliquot #3: *Latitude:* N *Longitude* W

Media description:

Aliquot #4: *Latitude:* N *Longitude* W

Media description:

Aliquot #5: *Latitude:* N *Longitude* W

Media description:

STATION ID: CV0256A SAMPLE ID: CV0256A-VGUW-CS08

SAMPLE COLLECTION TIME: 1135

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

CUCUMBERS

Collection: Composite or Grab MS/MSD? Y or N

Field Duplicate or Split: Yes or No J.D. *If yes, indicate* Duplicate/split sample station ID: CV0256A-VGUW-CS08D

GPS Coordinates: Trimble [ ] Instrument #: Logged? Y or N

Aliquot #1: *Latitude:* N *Longitude* W

Media description:

Aliquot #2 *Latitude:* N *Longitude* W

Media description:

Aliquot #3: *Latitude:* N *Longitude* W

Media description:

Aliquot #4: *Latitude:* N *Longitude* W

Media description:

Aliquot #5: *Latitude:* N *Longitude* W

Media description:

ADDRESS: 3321 32ND ST. N PROPERTY ID: CV0256

DATE: 7/23/13 ARRIVAL TIME: 1128

Other pertinent information (weather conditions, etc.):
cloudy @ 81°F ; wind W 5mph

PROPERTY COMMENTS:

Grid for property sketch

SEE PG 20

STATION ID: CV0256A SAMPLE ID: CV0256A-VGW-CS08

SAMPLE COLLECTION TIME: 1135

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

CUCUMBERS

Collection: Composite or Grab MS/MSD? Y or N

Field Duplicate or Split: Yes or No *If yes, indicate* Duplicate/split sample station ID: CV0256A-VGW-CS08D

GPS Coordinates: Trimble [ ] Instrument #: _____ Logged? Y or N

Aliquot #1: *Latitude:* _____ N *Longitude* _____ W

Media description: _____

Aliquot #2 *Latitude:* _____ N *Longitude* _____ W

Media description: _____

Aliquot #3: *Latitude:* _____ N *Longitude* _____ W

Media description: _____

Aliquot #4: *Latitude:* _____ N *Longitude* _____ W

Media description: _____

Aliquot #5: *Latitude:* _____ N *Longitude* _____ W

Media description: _____

STATION ID: CV0256A SAMPLE ID: CV0256A-VGW-CS14

SAMPLE COLLECTION TIME: 1140

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

ZUCCHINI

Collection: Composite or Grab MS/MSD? Y or N

Field Duplicate or Split: Yes or No *If yes, indicate* Duplicate/split sample station ID: ~~CV0256A-VGW-CS14~~

GPS Coordinates: Trimble [ ] Instrument #: _____ Logged? Y or N

Aliquot #1: *Latitude:* _____ N *Longitude* _____ W

Media description: _____

Aliquot #2 *Latitude:* _____ N *Longitude* _____ W

Media description: _____

Aliquot #3: *Latitude:* _____ N *Longitude* _____ W

Media description: _____

Aliquot #4: *Latitude:* _____ N *Longitude* _____ W

Media description: _____

Aliquot #5: *Latitude:* _____ N *Longitude* _____ W

Media description: _____

ADDRESS: 3321 32ND ST N PROPERTY ID: CV0030

DATE: 7/23/13 ARRIVAL TIME: _____

Other pertinent information (weather conditions, etc.):

PROPERTY COMMENTS:

Grid for property sketch

SEE PG 20

STATION ID: CV0256A **SAMPLE ID:** CV0256A-VGW-CS14

SAMPLE COLLECTION TIME: 1140

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

ZUCCHINI

Collection: Composite or Grab **MS/MSD?** Y or N

Field Duplicate or Split: *Yes or No* *If yes, indicate* **Duplicate/split sample station ID:** CV0256A-VGW-CS14

GPS Coordinates: Trimble [ ] Instrument #: _____ Logged? Y or N

Aliquot #1: *Latitude:* _____ N *Longitude* _____ W

Media description: _____

Aliquot #2 *Latitude:* _____ N *Longitude* _____ W

Media description: _____

Aliquot #3: *Latitude:* _____ N *Longitude* _____ W

Media description: _____

Aliquot #4: *Latitude:* _____ N *Longitude* _____ W

Media description: _____

Aliquot #5: *Latitude:* _____ N *Longitude* _____ W

Media description: _____

STATION ID: _____ **SAMPLE ID:** _____

SAMPLE COLLECTION TIME: _____

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

_____

Collection: Composite or Grab **MS/MSD?** Y or N

Field Duplicate or Split: *Yes or No* *If yes, indicate* **Duplicate/split sample station ID:** _____

GPS Coordinates: Trimble [ ] Instrument #: _____ Logged? Y or N

Aliquot #1: *Latitude:* _____ N *Longitude* _____ W

Media description: _____

Aliquot #2 *Latitude:* _____ N *Longitude* _____ W

Media description: _____

Aliquot #3: *Latitude:* _____ N *Longitude* _____ W

Media description: _____

Aliquot #4: *Latitude:* _____ N *Longitude* _____ W

Media description: _____

Aliquot #5: *Latitude:* _____ N *Longitude* _____ W

Media description: _____

ADDRESS: 3300 33rd St. North PROPERTY ID: CU0453

DATE: 7/23/13 ARRIVAL TIME: 1300

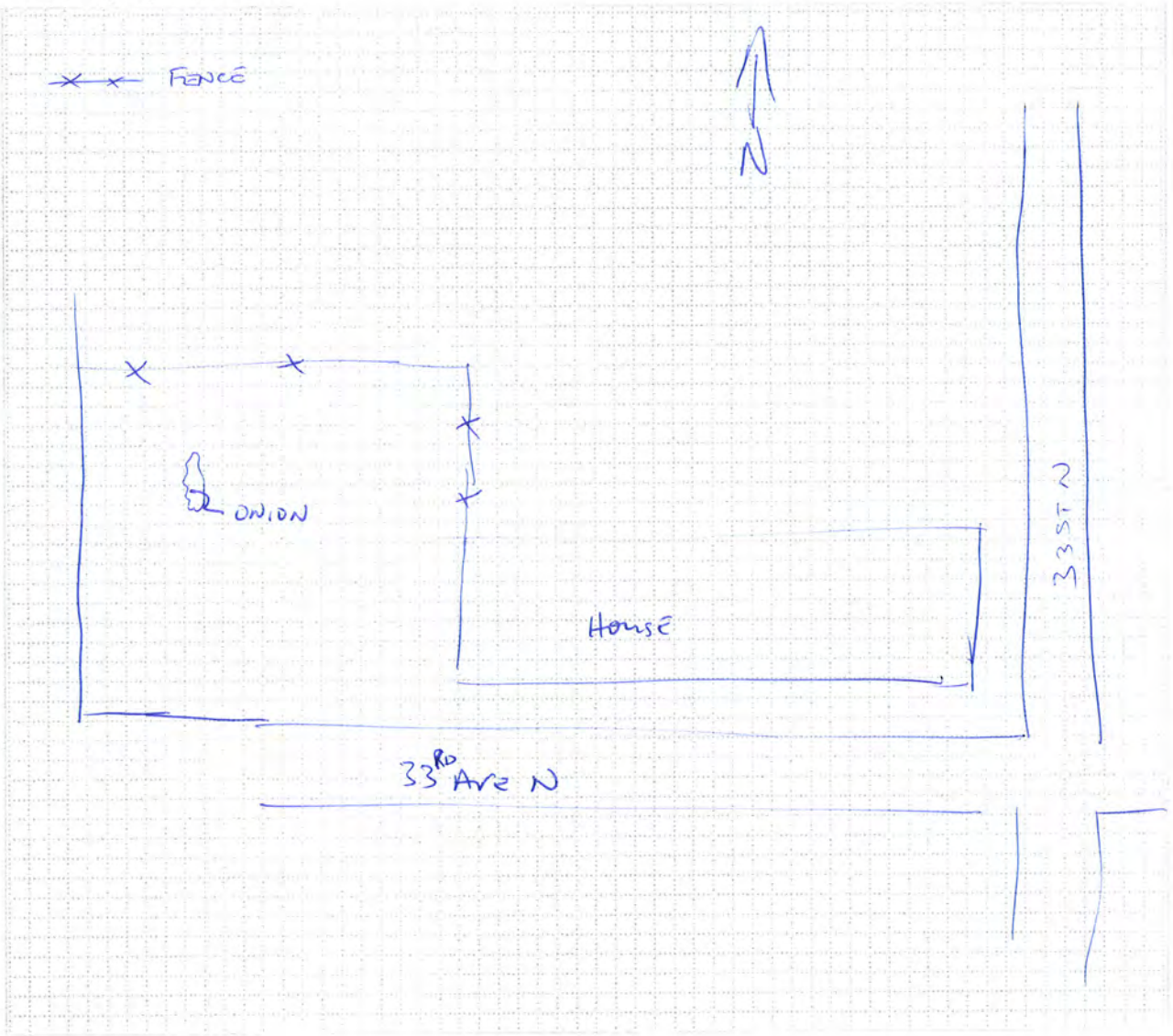
Other pertinent information (weather conditions, etc.):

DRIZZLE A TO HEAVY RAIN

PROPERTY COMMENTS:

ONSITE TO SAMPLE GARDEN; ONLY ABLE TO COLLECT ONION SAMPLE

Grid for property sketch



Soil

STATION ID: CV0453A **SAMPLE ID:** CV0453A-VGSO-CS

SAMPLE COLLECTION TIME: 1325

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

Collection: (Composite) or Grab **MS/MSD?** Y or (N)

Field Duplicate or Split: *Yes or* (No) *If yes, indicate* **Duplicate/split sample station ID:**

GPS Coordinates: Trimble [X] Instrument #: 018594 Logged? (Y) or N

Aliquot #1: *Latitude:* 33.555558289 N *Longitude* 86.800654095 W

Media description: ONIONS, DK BWN SILTY CLAY W/GRAVEL + COAL FRAGS, WET

Aliquot #2 *Latitude:* N *Longitude* W

Media description:

Aliquot #3: *Latitude:* N *Longitude* W

Media description:

Aliquot #4: *Latitude:* N *Longitude* W

Media description:

Aliquot #5: *Latitude:* N *Longitude* W

Media description:

STATION ID: CV0453A **SAMPLE ID:** CV0453A-VGW-CS15

SAMPLE COLLECTION TIME: 1330

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

ONIONS; ENOUGH SAMPLE FOR METALS ONLY

Collection: (Composite) or Grab **MS/MSD?** Y or (N)

Field Duplicate or Split: *Yes or* (No) *If yes, indicate* **Duplicate/split sample station ID:**

GPS Coordinates: Trimble [ ] Instrument #: Logged? Y or N

Aliquot #1: *Latitude:* N *Longitude* W

Media description:

Aliquot #2 *Latitude:* N *Longitude* W

Media description:

Aliquot #3: *Latitude:* N *Longitude* W

Media description:

Aliquot #4: *Latitude:* N *Longitude* W

Media description:

Aliquot #5: *Latitude:* N *Longitude* W

Media description:

ADDRESS: 3300 33RD ST. NORTH PROPERTY ID: CV0453

DATE: 7/23/13 ARRIVAL TIME: 1300

Other pertinent information (weather conditions, etc.):

PROPERTY COMMENTS:

Grid for property sketch

SEE PG 26

JP

STATION ID: CV0453A SAMPLE ID: CV0453A-VEGW-0515

SAMPLE COLLECTION TIME: 1330

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

ONIONS ; ENRICHED SAMPLE FOR METALS ONLY

Collection: (Composite) or Grab MS/MSD? Y or (N)

Field Duplicate or Split: *Yes or (No) If yes, indicate* Duplicate/split sample station ID: _____

GPS Coordinates: Trimble [ ] Instrument #: _____ Logged? Y or N

Aliquot #1: *Latitude:* _____ N *Longitude* _____ W

Media description: _____

Aliquot #2 *Latitude:* _____ N *Longitude* _____ W

Media description: _____

Aliquot #3: *Latitude:* _____ N *Longitude* _____ W

Media description: _____

Aliquot #4: *Latitude:* _____ N *Longitude* _____ W

Media description: _____

Aliquot #5: *Latitude:* _____ N *Longitude* _____ W

Media description: _____

STATION ID: _____ SAMPLE ID: _____

SAMPLE COLLECTION TIME: _____

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

_____

Collection: Composite or Grab MS/MSD? Y or N

Field Duplicate or Split: *Yes or No If yes, indicate* Duplicate/split sample station ID: _____

GPS Coordinates: Trimble [ ] Instrument #: _____ Logged? Y or N

Aliquot #1: *Latitude:* _____ N *Longitude* _____ W

Media description: _____

Aliquot #2 *Latitude:* _____ N *Longitude* _____ W

Media description: _____

Aliquot #3: *Latitude:* _____ N *Longitude* _____ W

Media description: _____

Aliquot #4: *Latitude:* _____ N *Longitude* _____ W

Media description: _____

Aliquot #5: *Latitude:* _____ N *Longitude* _____ W

Media description: _____

ADDRESS: 3215 31st Place N. PROPERTY ID: CV0083

DATE: 7/24/13 ARRIVAL TIME: 0850

Other pertinent information (weather conditions, etc.):

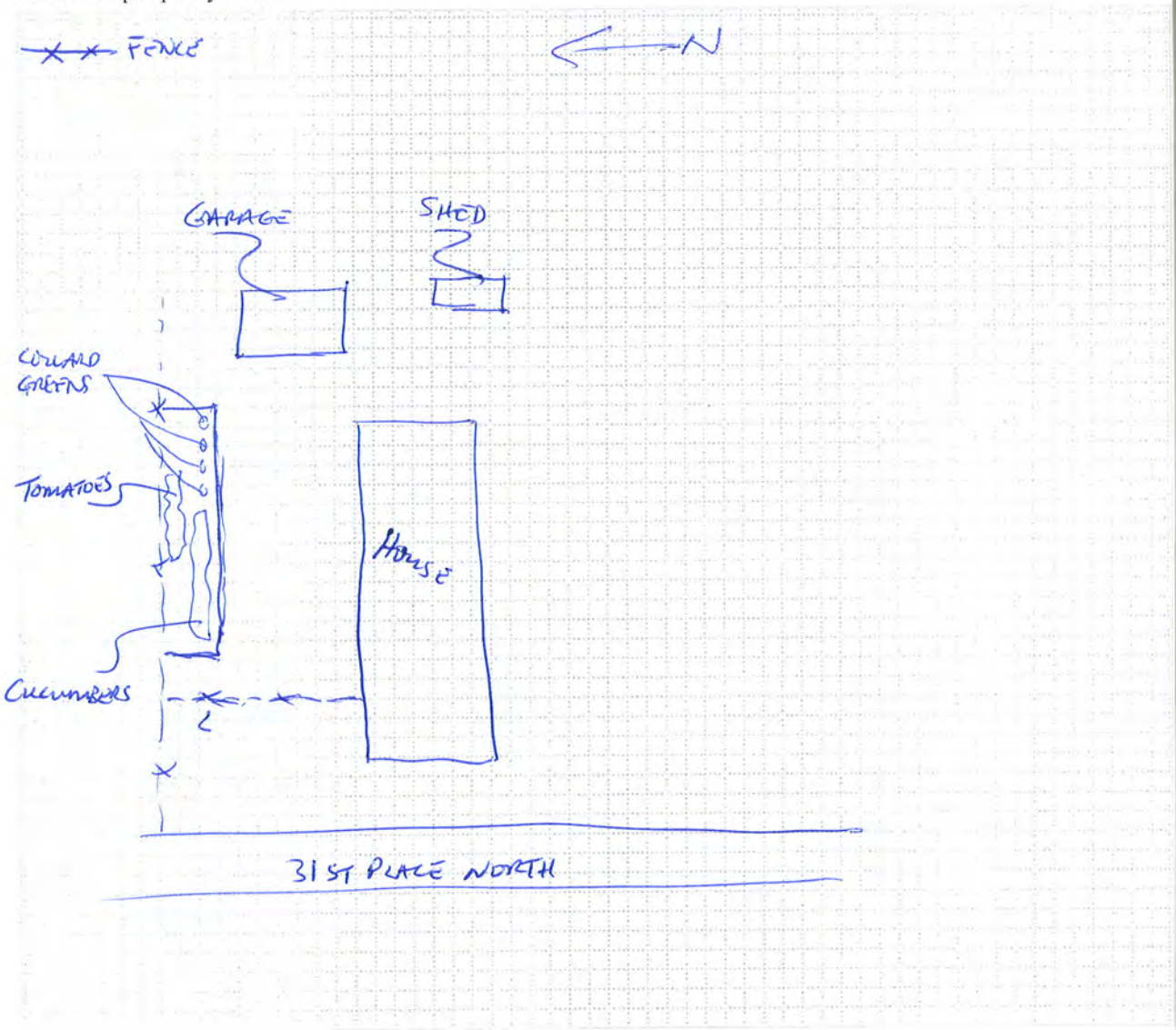
CLOUDY 74°F

PROPERTY COMMENTS:

ONSITE TO SAMPLE VEGETABLE GARDEN

SPOKE W/OWNER ALLWOOD TOMATOES, CUCUMBERS + COLLARD GREENS

Grid for property sketch



Soil

STATION ID: CV0083A SAMPLE ID: CV0083A-VEG0-CS

SAMPLE COLLECTION TIME: 0855

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

Collection: (Composite) or Grab MS/MSD? Y or (N)

Field Duplicate or Split: *Yes or* (No) *If yes, indicate* Duplicate/split sample station ID:

GPS Coordinates: Trimble [X] Instrument #: 018594 Logged? (Y) or N

Aliquot #1: *Latitude:* 33.555506531 N *Longitude* 86.803477196 W

Media description: CUCUMBERS; DK BRN SILTY SAND w/GRAVEL + COAL FRAGS; WET

Aliquot #2 *Latitude:* 33.555506423 N *Longitude* 86.803433125 W

Media description: TOMATOES; SEE DESCRIPTION FROM ALIQUOT #1

Aliquot #3: *Latitude:* 33.555506193 N *Longitude* 86.803404991 W

Media description: COLLARD GREENS; SEE DESCRIPTION FROM ALIQUOT #1

Aliquot #4: *Latitude:* N *Longitude* W

Media description:

Aliquot #5: *Latitude:* N *Longitude* W

Media description:

STATION ID: CV0083A SAMPLE ID: CV0083A-VEG-CS06

SAMPLE COLLECTION TIME: 0854

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

TOMATOES

Collection: (Composite) or Grab MS/MSD? Y or (N)

Field Duplicate or Split: *Yes or* (No) *If yes, indicate* Duplicate/split sample station ID:

GPS Coordinates: Trimble [ ] Instrument #: Logged? Y or N

Aliquot #1: *Latitude:* N *Longitude* W

Media description:

Aliquot #2 *Latitude:* N *Longitude* W

Media description:

Aliquot #3: *Latitude:* N *Longitude* W

Media description:

Aliquot #4: *Latitude:* N *Longitude* W

Media description:

Aliquot #5: *Latitude:* N *Longitude* W

Media description:

ADDRESS: 3215 31st PLACE NORTH PROPERTY ID: CV0083

DATE: 7/24/13 ARRIVAL TIME: _____

Other pertinent information (weather conditions, etc.):

PROPERTY COMMENTS:

Grid for property sketch

SEE PG 30

STATION ID: CV0083 SAMPLE ID: CV0083A-VGUW-CS06

SAMPLE COLLECTION TIME: 0854

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

TOMATOES

Collection: Composite or Grab MS/MSD? Y or N

Field Duplicate or Split: *Yes or* No *If yes, indicate* Duplicate/split sample station ID: _____

GPS Coordinates: Trimble [ ] Instrument #: _____ Logged? Y or N

Aliquot #1: *Latitude:* _____ N *Longitude* _____ W

Media description: _____

Aliquot #2 *Latitude:* _____ N *Longitude* _____ W

Media description: _____

Aliquot #3: *Latitude:* _____ N *Longitude* _____ W

Media description: _____

Aliquot #4: *Latitude:* _____ N *Longitude* _____ W

Media description: _____

Aliquot #5: *Latitude:* _____ N *Longitude* _____ W

Media description: _____

STATION ID: CV0083A SAMPLE ID: CV0083A-VGUW-CS08

SAMPLE COLLECTION TIME: 0901

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

CUCUMBERS

Collection: Composite or Grab MS/MSD? Y or N

Field Duplicate or Split: *Yes or* No *If yes, indicate* Duplicate/split sample station ID: _____

GPS Coordinates: Trimble [ ] Instrument #: _____ Logged? Y or N

Aliquot #1: *Latitude:* _____ N *Longitude* _____ W

Media description: _____

Aliquot #2 *Latitude:* _____ N *Longitude* _____ W

Media description: _____

Aliquot #3: *Latitude:* _____ N *Longitude* _____ W

Media description: _____

Aliquot #4: *Latitude:* _____ N *Longitude* _____ W

Media description: _____

Aliquot #5: *Latitude:* _____ N *Longitude* _____ W

Media description: _____

ADDRESS: 3215 31ST PLACE NORTH PROPERTY ID: CV0083

DATE: 7/24/13 ARRIVAL TIME: _____

Other pertinent information (weather conditions, etc.):

PROPERTY COMMENTS:

Grid for property sketch

SEE PG 30

STATION ID: CV0083A SAMPLE ID: CV0083A-VGW-CS08

SAMPLE COLLECTION TIME: 0901

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

CUCUMBERS

Collection: Composite or Grab MS/MSD? Y or N

Field Duplicate or Split: *Yes or No If yes, indicate* Duplicate/split sample station ID: _____

GPS Coordinates: Trimble [ ] Instrument #: _____ Logged? Y or N

Aliquot #1: *Latitude:* _____ N *Longitude* _____ W

Media description: _____

Aliquot #2 *Latitude:* _____ N *Longitude* _____ W

Media description: _____

Aliquot #3: *Latitude:* _____ N *Longitude* _____ W

Media description: _____

Aliquot #4: *Latitude:* _____ N *Longitude* _____ W

Media description: _____

Aliquot #5: *Latitude:* _____ N *Longitude* _____ W

Media description: _____

STATION ID: CV0083A SAMPLE ID: CV0083A-VGW-CS03

SAMPLE COLLECTION TIME: 0906

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

COLLARD GREENS

Collection: Composite or Grab MS/MSD? Y or N

Field Duplicate or Split: *Yes or No If yes, indicate* Duplicate/split sample station ID: _____

GPS Coordinates: Trimble [ ] Instrument #: _____ Logged? Y or N

Aliquot #1: *Latitude:* _____ N *Longitude* _____ W

Media description: _____

Aliquot #2 *Latitude:* _____ N *Longitude* _____ W

Media description: _____

Aliquot #3: *Latitude:* _____ N *Longitude* _____ W

Media description: _____

Aliquot #4: *Latitude:* _____ N *Longitude* _____ W

Media description: _____

Aliquot #5: *Latitude:* _____ N *Longitude* _____ W

Media description: _____

ADDRESS: 3408 32ND ST NORTH PROPERTY ID: CV0272

DATE: 7/24/13 ARRIVAL TIME: 0925

Other pertinent information (weather conditions, etc.):

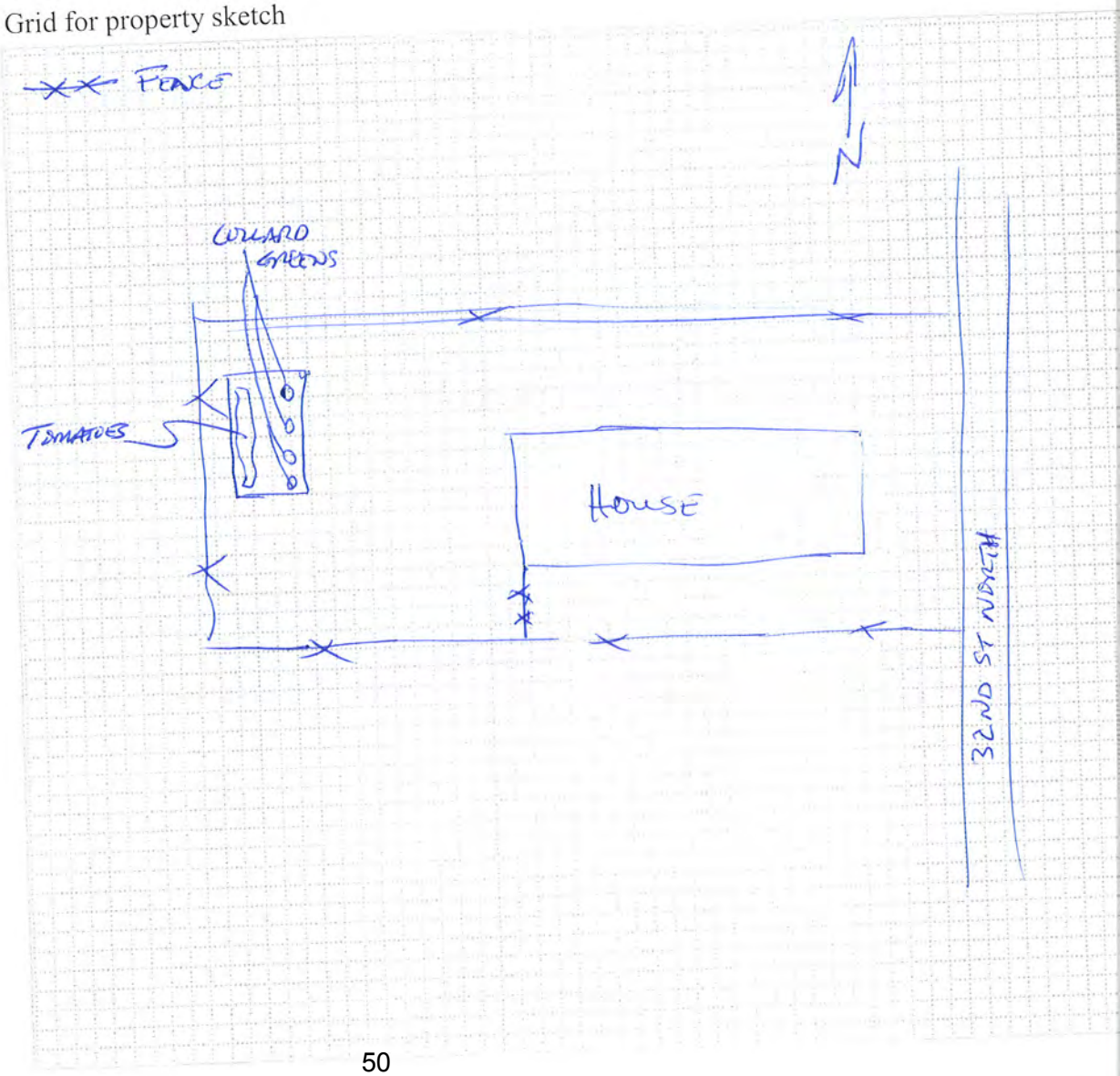
CLOUDY 74°F

PROPERTY COMMENTS:

ONSITE TO SAMPLE VEGETABLE GARDEN

OWNER AGREED TO TOMATOES AND COLLARD GREEN; NO OTHER VEGETABLES

Grid for property sketch



STATION ID: CV0272A SAMPLE ID: CV0272A-VGSO-CS

SAMPLE COLLECTION TIME: 0940

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

TOMATOES + COLLARD GREENS ; ABUNDANCE OF COAL IN GARDEN

Collection: Composite or Grab MS/MSD? Y or N

Field Duplicate or Split: *Yes or No If yes, indicate* Duplicate/split sample station ID: _____

GPS Coordinates: Trimble [X] Instrument #: 018594 Logged? Y or N

Aliquot #1: *Latitude:* 33.55861815 N *Longitude* 86.80352117 W

Media description: COLLARD GREENS; DK BROWN SILTY SAND W/ GRAVEL + COAL FRAGS

Aliquot #2 *Latitude:* 33.55862806 N *Longitude* 86.80355573 W

Media description: TOMATOES ; SEE DESCRIPTION FROM ALIQUOT #1

Aliquot #3: *Latitude:* _____ N *Longitude* _____ W

Media description: _____

Aliquot #4: *Latitude:* _____ N *Longitude* _____ W

Media description: _____

Aliquot #5: *Latitude:* _____ N *Longitude* _____ W

Media description: _____

STATION ID: CV0272A SAMPLE ID: CV0272A-VEW-CSO6

SAMPLE COLLECTION TIME: 0930

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

TOMATOES

Collection: Composite or Grab MS/MSD? Y or N

Field Duplicate or Split: *Yes or No If yes, indicate* Duplicate/split sample station ID: _____

GPS Coordinates: Trimble [ ] Instrument #: _____ Logged? Y or N

Aliquot #1: *Latitude:* _____ N *Longitude* _____ W

Media description: _____

Aliquot #2 *Latitude:* _____ N *Longitude* _____ W

Media description: _____

Aliquot #3: *Latitude:* _____ N *Longitude* _____ W

Media description: _____

Aliquot #4: *Latitude:* _____ N *Longitude* _____ W

Media description: _____

Aliquot #5: *Latitude:* _____ N *Longitude* _____ W

Media description: _____

ADDRESS: 3408 32ND ST. NORTH PROPERTY ID: CV0272

DATE: 7/24/13 ARRIVAL TIME: _____

Other pertinent information (weather conditions, etc.):

PROPERTY COMMENTS:

Grid for property sketch

SEE PG 36

STATION ID: CV0272A **SAMPLE ID:** CV0272A-VGW-CS03

SAMPLE COLLECTION TIME: 0939

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):
CARLAND GREENS

Collection: (Composite) or Grab **MS/MSD?** Y or (N)

Field Duplicate or Split: *Yes or* (*No*) *If yes, indicate* **Duplicate/split sample station ID:** _____

GPS Coordinates: Trimble [ ] Instrument #: _____ Logged? Y or N

Aliquot #1: *Latitude:* _____ N *Longitude* _____ W
Media description: _____

Aliquot #2 *Latitude:* _____ N *Longitude* _____ W
Media description: _____

Aliquot #3: *Latitude:* _____ N *Longitude* _____ W
Media description: _____

Aliquot #4: *Latitude:* _____ N *Longitude* _____ W
Media description: _____

Aliquot #5: *Latitude:* _____ N *Longitude* _____ W
Media description: _____

STATION ID: _____ **SAMPLE ID:** _____

SAMPLE COLLECTION TIME: _____

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

Collection: Composite or Grab **MS/MSD?** Y or N

Field Duplicate or Split: *Yes or No If yes, indicate* **Duplicate/split sample station ID:** _____

GPS Coordinates: Trimble [ ] Instrument #: _____ Logged? Y or N

Aliquot #1: *Latitude:* _____ N *Longitude* _____ W
Media description: _____

Aliquot #2 *Latitude:* _____ N *Longitude* _____ W
Media description: _____

Aliquot #3: *Latitude:* _____ N *Longitude* _____ W
Media description: _____

Aliquot #4: *Latitude:* _____ N *Longitude* _____ W
Media description: _____

Aliquot #5: *Latitude:* _____ N *Longitude* _____ W
Media description: _____

note: End of vegetable sampling

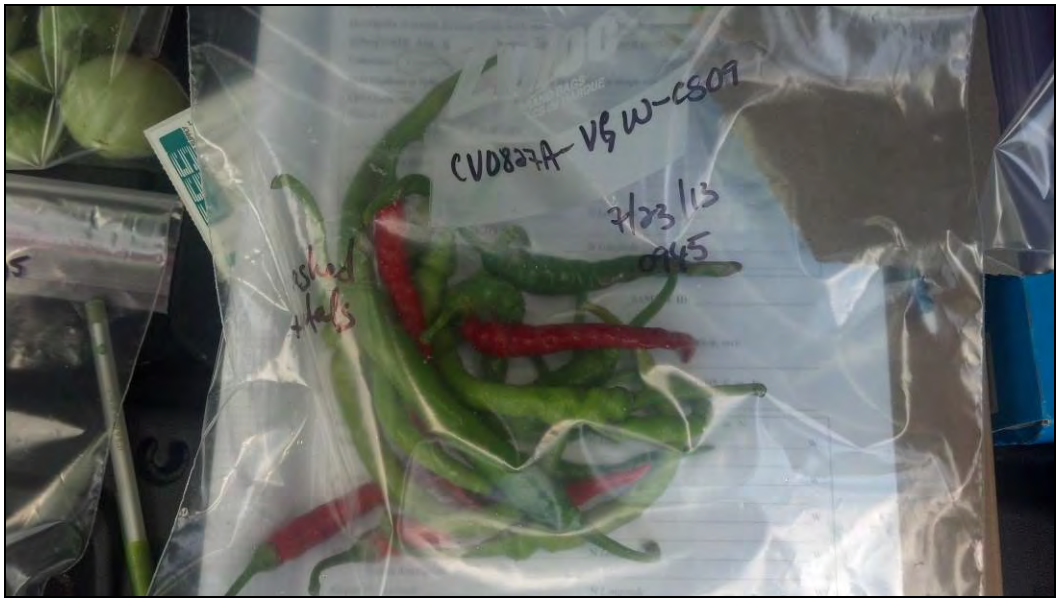
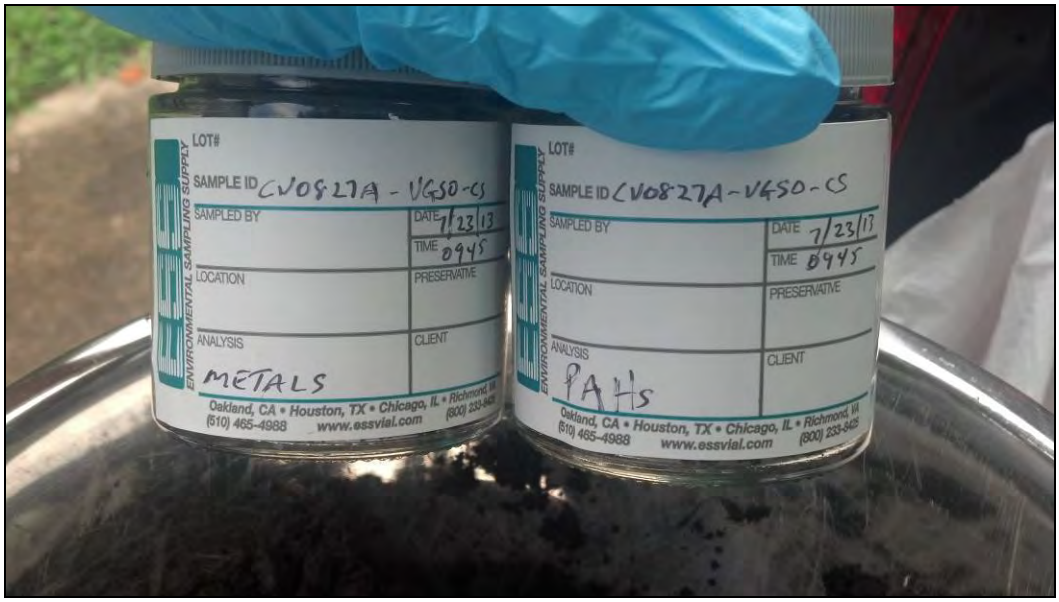
APPENDIX D

PHOTOGRAPHIC LOG

Site: 35th Avenue Removal **Contract:** EP-W-05-053 **TDD:** TNA-05-003-0148 **OSC:** Jeffery Crowley **Property ID:** CV0827 **Date:** July 23, 2013 **Time:** 0934 **Photographer:** Nairimer Berrios Cartagena **Official Photograph No. : 1** View of the garden located on the property.	
Site: 35th Avenue Removal **Contract:** EP-W-05-053 **TDD:** TNA-05-003-0148 **OSC:** Jeffery Crowley **Property ID:** CV0827 **Date:** July 23, 2013 **Time:** 0935 **Photographer:** Nairimer Berrios Cartagena **Official Photograph No. : 2** View of collard greens in the garden.	

Site: 35th Avenue Removal **Contract:** EP-W-05-053 **TDD:** TNA-05-003-0148 **OSC:** Jeffery Crowley **Property ID:** CV0827 **Date:** July 23, 2013 **Time:** 0936 **Photographer:** Nairimer Berrios Cartagena **Official Photograph No. : 3** View of a tomato plant in the garden.	
Site: 35th Avenue Removal **Contract:** EP-W-05-053 **TDD:** TNA-05-003-0148 **OSC:** Jeffery Crowley **Property ID:** CV0827 **Date:** July 23, 2013 **Time:** 0941 **Photographer:** Nairimer Berrios Cartagena **Official Photograph No. : 4** View of collard green Sample CV0827A-VGUW-CS03.	

Site: 35th Avenue Removal **Contract:** EP-W-05-053 **TDD:** TNA-05-003-0148 **OSC:** Jeffery Crowley **Property ID:** CV0827 **Date:** July 23, 2013 **Time:** 0957 **Photographer:** Nairimer Berrios Cartagena **Official Photograph No. : 5** View of tomato Sample CV0827A-VGUW-CS06.	
Site: 35th Avenue Removal **Contract:** EP-W-05-053 **TDD:** TNA-05-003-0148 **OSC:** Jeffery Crowley **Property ID:** CV0827 **Date:** July 23, 2013 **Time:** 0957 **Photographer:** Nairimer Berrios Cartagena **Official Photograph No. : 6** View of okra Sample CV0827A-VGUW-CS05.	

Site: 35th Avenue Removal **Contract:** EP-W-05-053 **TDD:** TNA-05-003-0148 **OSC:** Jeffery Crowley **Property ID:** CV0827 **Date:** July 23, 2013 **Time:** 1000 **Photographer:** Nairimer Berrios Cartagena **Official Photograph No. : 7** View of pepper Sample CV0827A-VGW-CS09.	
Site: 35th Avenue Removal **Contract:** EP-W-05-053 **TDD:** TNA-05-003-0148 **OSC:** Jeffery Crowley **Property ID:** CV0827 **Date:** July 23, 2013 **Time:** 1003 **Photographer:** Nairimer Berrios Cartagena **Official Photograph No. : 8** View of associated soil Sample CV0827A-VGSO-CS.	

Site: 35th Avenue Removal **Contract:** EP-W-05-053 **TDD:** TNA-05-003-0148 **OSC:** Jeffery Crowley **Property ID:** HP0306 **Date:** July 23, 2013 **Time:** 1049 **Photographer:** Nairimer Berrios Cartagena **Official Photograph No. : 9** View of the garden on the property.	
Site: 35th Avenue Removal **Contract:** EP-W-05-053 **TDD:** TNA-05-003-0148 **OSC:** Jeffery Crowley **Property ID:** HP0306 **Date:** July 23, 2013 **Time:** 1049 **Photographer:** Nairimer Berrios Cartagena **Official Photograph No. : 10** View of a cabbage plant in the garden.	

Site: 35th Avenue Removal **Contract:** EP-W-05-053 **TDD:** TNA-05-003-0148 **OSC:** Jeffery Crowley **Property ID:** HP0306 **Date:** July 23, 2013 **Time:** 1049 **Photographer:** Nairimer Berrios Cartagena **Official Photograph No. : 11** View of a pepper plant in the garden.	
Site: 35th Avenue Removal **Contract:** EP-W-05-053 **TDD:** TNA-05-003-0148 **OSC:** Jeffery Crowley **Property ID:** HP0306 **Date:** July 23, 2013 **Time:** 1050 **Photographer:** Nairimer Berrios Cartagena **Official Photograph No. : 12** View of a tomato plant in the garden.	

Site: 35th Avenue Removal **Contract:** EP-W-05-053 **TDD:** TNA-05-003-0148 **OSC:** Jeffery Crowley **Property ID:** HP0306 **Date:** July 23, 2013 **Time:** 1050 **Photographer:** Nairimer Berrios Cartagena **Official Photograph No. : 13** View of pepper Sample HP0306A-VGW-CS09.	
Site: 35th Avenue Removal **Contract:** EP-W-05-053 **TDD:** TNA-05-003-0148 **OSC:** Jeffery Crowley **Property ID:** HP0306 **Date:** July 23, 2013 **Time:** 1055 **Photographer:** Nairimer Berrios Cartagena **Official Photograph No. : 14** View of tomato Sample HP0306A-VGUW-CS06.	

Site: 35th Avenue Removal **Contract:** EP-W-05-053 **TDD:** TNA-05-003-0148 **OSC:** Jeffery Crowley **Property ID:** HP0306 **Date:** July 23, 2013 **Time:** 1050 **Photographer:** Nairimer Berrios Cartagena **Official Photograph No. : 15** View of associated soil Sample HP0306A-VGSO-CS.	
Site: 35th Avenue Removal **Contract:** EP-W-05-053 **TDD:** TNA-05-003-0148 **OSC:** Jeffery Crowley **Property ID:** HP0306 **Date:** July 23, 2013 **Time:** 1055 **Photographer:** Nairimer Berrios Cartagena **Official Photograph No. : 16** View of associated duplicate soil Sample HP0306A-VGSO-CSD.	

Site: 35th Avenue Removal **Contract:** EP-W-05-053 **TDD:** TNA-05-003-0148 **OSC:** Jeffery Crowley **Property ID:** CV0256 **Date:** July 23, 2013 **Time:** 1145 **Photographer:** Nairimer Berrios Cartagena **Official Photograph No. : 17** View of the garden on the property.	
Site: 35th Avenue Removal **Contract:** EP-W-05-053 **TDD:** TNA-05-003-0148 **OSC:** Jeffery Crowley **Property ID:** CV0256 **Date:** July 23, 2013 **Time:** 1146 **Photographer:** Nairimer Berrios Cartagena **Official Photograph No. : 18** View of a zucchini plant in the garden.	

Site: 35th Avenue Removal
Contract: EP-W-05-053
TDD: TNA-05-003-0148
OSC: Jeffery Crowley

Property ID: CV0256
Date: July 23, 2013
Time: 1135
Photographer: Nairimer Berrios Cartagena

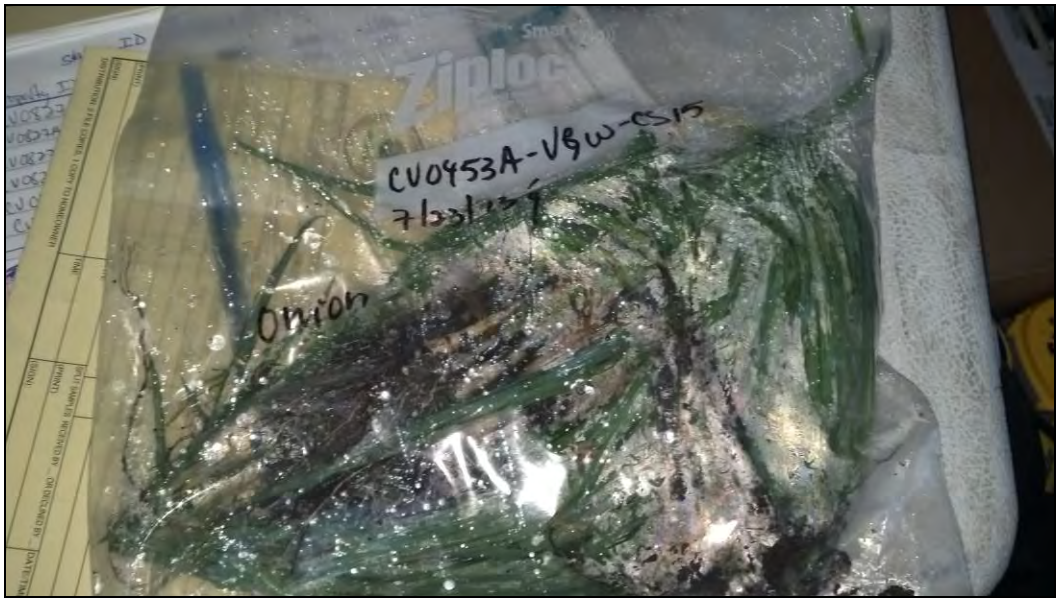
Official Photograph No. : 19
View of cucumber Sample CV0256A-VGW-CS08.

Site: 35th Avenue Removal
Contract: EP-W-05-053
TDD: TNA-05-003-0148
OSC: Jeffery Crowley

Property ID: CV0256
Date: July 23, 2013
Time: 1147
Photographer: Nairimer Berrios Cartagena

Official Photograph No. : 20
View of associated soil Sample CV0256A-VGSO-CS.

Site: 35th Avenue Removal **Contract:** EP-W-05-053 **TDD:** TNA-05-003-0148 **OSC:** Jeffery Crowley **Property ID:** CV0453 **Date:** July 23, 2013 **Time:** 1327 **Photographer:** Nairimer Berrios Cartagena **Official Photograph No. : 19** View of the garden on the property.	
Site: 35th Avenue Removal **Contract:** EP-W-05-053 **TDD:** TNA-05-003-0148 **OSC:** Jeffery Crowley **Property ID:** CV0453 **Date:** July 23, 2013 **Time:** 1327 **Photographer:** Nairimer Berrios Cartagena **Official Photograph No. : 20** View of onion plant in the garden.	

Site: 35th Avenue Removal **Contract:** EP-W-05-053 **TDD:** TNA-05-003-0148 **OSC:** Jeffery Crowley **Property ID:** CV0453 **Date:** July 23, 2013 **Time:** 1330 **Photographer:** Nairimer Berrios Cartagena **Official Photograph No. : 21** View of onion Sample CV0453A-VGW-CS15.	
Site: 35th Avenue Removal **Contract:** EP-W-05-053 **TDD:** TNA-05-003-0148 **OSC:** Jeffery Crowley **Property ID:** CV0453 **Date:** July 23, 2013 **Time:** 1325 **Photographer:** Nairimer Berrios Cartagena **Official Photograph No. : 22** View of associated soil Sample CV0453A-VGSO-CS.	

Site: 35th Avenue Removal **Contract:** EP-W-05-053 **TDD:** TNA-05-003-0148 **OSC:** Jeffery Crowley **Property ID:** CV0083 **Date:** July 24, 2013 **Time:** 0854 **Photographer:** Nairimer Berrios Cartagena **Official Photograph No. : 23** View of the garden on the property.	
Site: 35th Avenue Removal **Contract:** EP-W-05-053 **TDD:** TNA-05-003-0148 **OSC:** Jeffery Crowley **Property ID:** CV0083 **Date:** July 24, 2013 **Time:** 0919 **Photographer:** Nairimer Berrios Cartagena **Official Photograph No. : 24** View of cucumber Sample CV0083A-VGW-CS08.	

Site: 35th Avenue Removal **Contract:** EP-W-05-053 **TDD:** TNA-05-003-0148 **OSC:** Jeffery Crowley **Property ID:** CV0083 **Date:** July 24, 2013 **Time:** 0919 **Photographer:** Nairimer Berrios Cartagena **Official Photograph No. : 25** View of tomato Sample CV0083A-VGW-CS06.	
Site: 35th Avenue Removal **Contract:** EP-W-05-053 **TDD:** TNA-05-003-0148 **OSC:** Jeffery Crowley **Property ID:** CV0083 **Date:** July 24, 2013 **Time:** 0919 **Photographer:** Nairimer Berrios Cartagena **Official Photograph No. : 26** View of collard green Sample CV0083A-VGW-CS03.	

Site: 35th Avenue Removal **Contract:** EP-W-05-053 **TDD:** TNA-05-003-0148 **OSC:** Jeffery Crowley **Property ID:** CV0272 **Date:** July 24, 2013 **Time:** 0927 **Photographer:** Nairimer Berrios Cartagena **Official Photograph No. : 27** View of the garden on the property.	
Site: 35th Avenue Removal **Contract:** EP-W-05-053 **TDD:** TNA-05-003-0148 **OSC:** Jeffery Crowley **Property ID:** CV0272 **Date:** July 24, 2013 **Time:** 0949 **Photographer:** Nairimer Berrios Cartagena **Official Photograph No. : 28** View of tomato Sample CV0272A-VGW-CS06.	

Site: 35th Avenue Removal
Contract: EP-W-05-053
TDD: TNA-05-003-0148
OSC: Jeffery Crowley

Property ID: CV0272
Date: July 24, 2013
Time: 0950
Photographer: Nairimer Berrios Cartagena

Official Photograph No. : 29
View of collard green Sample CV0272A-VGW-CS03.

Site: 35th Avenue Removal
Contract: EP-W-05-053
TDD: TNA-05-003-0148
OSC: Jeffery Crowley

Property ID: CV0272
Date: July 24, 2013
Time: 0947
Photographer: Nairimer Berrios Cartagena

Official Photograph No. : 30
View of associated soil Sample CV0272A-VGSO-CS.

APPENDIX E

ANALYTICAL LABORATORY REPORTS

Data Validation Checklist
Semivolatile Organic Analyses

Project:	35TH Avenue Superfund Site	Project No:	2005148-1356
Laboratory:	TestAmerica – Tampa, FL	Job ID.:	680-92626-1
Method:	SW-846 8270C Low-Level (PAH)	Associated Samples:	Refer to Attachment A (Sample Summary)
Matrix:	Soil	Samples Collected:	07/23/13 – 7/24/13
Reviewer:	Renea Anglin	Date:	08/12/2013
Concurrence:	Limari Krebs	Date:	

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
1. Were sample storage and preservation requirements met? If temperature >6°C, then J/UJ-flag results.	x			Samples received at 5.8 °C.	
2. Were all COC records signed and integrity seals intact, indicating that COC was maintained for all samples?	x				
3. Were there any problems noted in laboratory data package concerning condition of samples upon receipt?		x			
4. Do any soil samples contain more than 50% water? If yes, then results are to be reported on a wet-weight basis.		x			
5. Were holding times met (≤7 and 14 days from collection to extraction for aqueous and solid samples, respectively; ≤40 days from extraction to analysis)? If not, then J/UJ-flag sample results. If grossly (2x) exceeded, then flag J/R.	x			Samples extracted on 7/26/13 and analyzed 7/29/13.	
6. Were results for all project-specified target analytes reported?	x				
7. Were project-specified Reporting Limits achieved for undiluted sample analyses?	x				
8. Were samples with analyte concentrations exceeding the calibration range of the instrument re-analyzed at a higher dilution? If not, then J-flag sample result.			x		
9. Was a method blank extracted with each batch (i.e., one per 20 samples, per batch, per matrix and per level)?	x				
10. Were target analytes detected in the method blank?		x		No target analytes were detected in MB660-139814/1-A.	
11. Were target analytes detected in equipment/rinsate blanks?			x		
12. Are equipment/rinsate blanks associated with every sample? If			x	A rinsate blank was not collected for the week of 7/24/13.	

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
no, note in DV report.					
13. Were analytes detected in samples below the blank contamination action level? If yes, U-flag positive sample results <5x associated blank concentration (10x for common blank contaminants – phthalates)			x		
14. Is a field duplicate associated with this Job?	x			CV0256A-VGSO-CS, CV0256A-VGSO-CSD HP0306A-VGSP-CS, HP0306A-VGSP-CSD	
15. Was precision deemed acceptable as defined by the project plans? Analytes with RPD outside acceptable limits will be flagged as J or UJ.		x		Sample CV0256A-VGSO-CS had a duplicate collected (CV0256A-VGSO-CSD). All of the analytes were outside RPD limits of ≤50% except Acenatphthene which was not detected in either sample. Acepaphthylene was detected in sampleCV0256A-VGSO-CS and was not detected in sample CV0256A-VGSO-CSD. Anthracene had a difference of 87.7%RPD, Benzo(a)anthracne had 93.3%RPD, Benzo(a) pyrene had 90.9%RPD, Benzo(b)flouranthene had 103%RPD, Benzo(ghi)perylene had 99.3%RPD, Benzo(k)flouranthene had 92.8%RPD, Chrysene had 90.2%RPD, Dibenzo(ah) anthracene had 112%RPD, Fluoranthene had 81.1%RPD, and fluorene had 117%RPD, Indeno(1,2,3-cd)pyrene had 70.7%RPD, 1-methylnaphthlene had 77.9%RPD, 2-methylnaphthlene had 73.8%RPD, Naphthalene had 65.4%RPD, Phenanathrene had 108%RPD and Pyrene had 80.0%RPD. Sample HP0306A-VGSP-CS had the following analytes with RPD values >50%: Anthracene had 52.6%RPD, Benzo(a)anthracne had 63.8%RPD, Fluorene had 76.4%RPD, Phenanthrene had 60.5%RPD and Pyrene had 68.0%RPD.	J, UJ
16. Were DFTPP ion abundance criteria (i.e., Table 3 of SW-846 8270C) met? If no, professional judgment may be applied to determine to what extent the data may be utilized.	x				
17. Were samples analyzed within 12 hours of the DFTPP tune? If no, professional judgment may be applied to determine to what extent the data may be utilized.	x			3 DFTPP were analyzed with the SDG on BSMA5973. One on 7/7/13 with the ICAL, one on 7/29/13 with most of the samples and one on 7/30/13 with sample #2.	

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
18. Were initial and continuing calibration standards analyzed at the proper frequency for each instrument? • Ensure that a minimum of five standards are used for the initial calibration. If no, use professional judgment to determine the effect on the data and note in the reviewer narrative. • An initial calibration is to be associated with each sample analysis. • A continuing calibration standard is to be analyzed for every 12 hours of sample analysis per instrument.	x			• ICAL on 7/7/13, instrument BSMA5973 • ICV on 7/7/13 @16:01 • CCV on 07/29/13 @11:57 • CCV on 7/30/13 @15:24	
19. Were calibration results within laboratory/project specifications? • ICAL (Criteria: ≤15 mean %RSD with no individual CCC %RSD ≤30 (≤50% for poor performers), OR r≥0.995, OR r^2≥0.99, and RRF ≥0.050 (≥0.010 for poor performers)): o If %RSD>15 (>50% for poor performers), or r <0.995, or r^2 <0.995, then J-flag positive results and UJ-flag non-detects o If mean RRF <0.050 (<0.010 for poor performers), then J-flag positive results and R-flag non-detects	x			Benzo(a)pyrene calculation verified for 7/7/13 calibration on BSMA5973.	
• ICV and CCV (Criteria: ≤20%D (≤50% for poor performers) and RF ≥0.050 (≥0.010 for poor performers)): o If %D>20 (>50% for poor performers), then J-flag positive results and UJ-flag non-detects o If RF <0.050 (<0.010 for poor performers), then UJ-flag non-detected semivolatile target compounds	x				
20. Was a LCS prepared for each batch and matrix?	x				
21. Were LCS recoveries within lab control limits? If no, J-flag positive results when %R >Upper Control Limit (UCL) and J/R-flag results when %R <Lower Control Limit (LCL).	x				
22. Were LCS/LCSD RPD within lab specifications? If no, J-flag positive results and UJ-flag non-detects			x	LCS Only	
23. Was a MS/MSD pair extracted at the proper frequency (one per 20 samples per batch)?	x				
24. Is the MS/MSD parent sample a project-specific sample?	x			• Batch 139910: CV0256A-VGSO-CS	

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
25. Were MS/MSD recoveries within laboratory/project specifications? Only QC results for project samples are evaluated. • If the native sample concentration > 4x spiking level, then an evaluation of interference is not possible. • If either MS or MSD recovery meets control limits, qualification of data is not warranted. • MS and MSD %R<10: J and R Flag positive and ND results, respectively • MS and MSD %R >10 and <LCL: J-Flag positive and UJ-flag non-detect results • MS and MSD R% >UCL (or 140): J-Flag positive results		x		Phenanthrene was >4x the spiking level. The following analytes were biased low in both the MS and MSD- Benzo(a) pyrene at 13%R and 46%R, 2-Methylnaphthalene at -45%R and 19%R, Naphthalene at -15%R and 24%R, and Pyrene at 2%R and 28%R. Therefore, Benzo(a) pyrene, 2-Methylnaphthalene, Naphthalene and Pyrene were flagged as J in sample CV0256A-VGSO-CS.	J
26. Were laboratory criteria met for precision during the MS/MSD analysis? Only QC results for project samples are evaluated. • If the native sample concentration > 4x spiking level, then an evaluation of interference is not possible. • If %RPD > UCL, J-flag positive result and UJ-flag non-detect result		x		The following RPD limits were outside QC limits: Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, and Fluoranthene.	J
27. Were surrogate recoveries within lab/project specifications? • If %R for 1 Acid or BN surrogates <10, then J-flag positive and R-flag non-detect associated sample results • If 2 or more Acid or BN %R >UCL, then J-flag positive results • If 2 or more Acid or BN %R ≥10%, but <LCL, then J-flag positive results and UJ-flag non-detect results • If 2 or more Acid or BN , with 1 %R >UCL and 1 %R ≥10%, but <LCL, then J-flag positive results and UJ-flag non-detect results		x		Sample CV0256A-VGSO-CSD had a surrogate recovery biased low at 23%R. Sample CV0256A-VGSO-CSD required a 4x dilution due to matrix and significant matrix interference is still present.	J, UJ

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
28. Were internal standard (IS) results within lab/project specifications? • If IS area counts are less than 50% of the midpoint calibration standard, then J-flag positive and UJ-flag non-detect associated sample results • If IS area counts are greater than 100% of the midpoint calibration standard, then J-flag positive results • If extremely low area counts are reported or performance exhibits a major abrupt drop-off, then a severe loss of sensitivity is indicated, J-flag positive and R-flag non-detect results • If retention time of sample's internal standard is not within 30 seconds of the associated calibration standard, R-flag associated data. • The chromatographic profile for that sample must be examined to determine if any false positives or negatives exists. For shifts of large magnitude, the reviewer may consider partial or total rejection of the data for that sample fraction. Positive results need not be qualified as R, if mass spectral criteria are met.	x				
29. Were lab comments included in report?				Refer to Attachment B (Case Narrative)	
Comments: The data review process was modeled after the USEPA Contract Laboratory Program (CLP) National Functional Guidelines (NFG) for Organic Methods Data Review (EPA, October 1999) and USEPA CLP NFG for Low Concentration Organic Methods Data Review (EPA, June 2001). Sample results have been qualified based on the results of the data review process (Attachment C). Criteria for acceptability of data were based upon available site information, analytical method requirements, guidance documents, and professional judgment.					

DV Flag Definitions:

J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
R The sample results are unusable. The analyte may or may not be present in the sample.
U The analyte was analyzed for, but was not detected above the associated level; blank contamination may exist.
UJ The analyte was not detected above the limit, and the limit is approximate and may be inaccurate or imprecise.

ATTACHMENT A

SAMPLE SUMMARY

ATTACHMENT B

CASE NARRATIVE

CASE NARRATIVE
Client: Oneida Total Integrated Enterprises LLC
Project: 35th Avenue Superfund Site
Report Number: 680-92626-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 07/25/2013; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 5.8 C.

SEMIVOLATILE ORGANIC COMPOUNDS BY GCMS - LOW LEVEL

Samples CV0256A-VGSO-CS (680-92626-1), CV0256A-VGSO-CSD (680-92626-2), HP0306A-VGSO-CS (680-92626-3), HP0306A-VGSO-CSD (680-92626-4), CV0827A-VGSO-CS (680-92626-5), CV0453A-VGSO-CS (680-92626-6), CV0272A-VGSO-CS (680-92626-7) and CV0083A-VGSO-CS (680-92626-8) were analyzed for Semivolatile Organic Compounds by GCMS - Low Level in accordance with EPA SW-846 Method 8270C.

Method(s) 8270C LL: The following samples were diluted due to the color of the extracts: CV0083A-VGSO-CS (680-92626-8), CV0827A-VGSO-CS (680-92626-5). Elevated reporting limits (RL) are provided. Batch: 139909.

Method(s) 8270C LL: The matrix spike / matrix spike duplicate (MS/MSD) percent recoveries and %RPD for batch 139909 were outside control limits. The recoveries were biased low. This is attributed to matrix interferences. The data has been qualified and reported.

Method(s) 8270C LL: The following sample was diluted due to the nature of the sample matrix: CV0256A-VGSO-CSD (680-92626-2). Elevated reporting limits (RLs) are provided. Batch: 139910.

Method(s) 8270C LL: Surrogate recovery for the following sample was outside control limits: CV0256A-VGSO-CSD (680-92626-2). The recovery was biased low. Evidence of matrix interference is present; therefore, re-extraction and re-analysis were not performed.

Samples CV0256A-VGSO-CSD (680-92626-2)[4X], CV0827A-VGSO-CS (680-92626-5)[4X] and CV0083A-VGSO-CS (680-92626-8)[4X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

PERCENT SOLIDS/MOISTURE

Samples CV0256A-VGSO-CS (680-92626-1), CV0256A-VGSO-CSD (680-92626-2), HP0306A-VGSO-CS (680-92626-3), HP0306A-VGSO-CSD (680-92626-4), CV0827A-VGSO-CS (680-92626-5), CV0453A-VGSO-CS (680-92626-6), CV0272A-VGSO-CS (680-92626-7) and CV0083A-VGSO-CS (680-92626-8) were analyzed for Percent Solids/Moisture in accordance with TestAmerica SOP.

8-13-13

ATTACHMENT C

QUALIFIED SAMPLE RESULTS

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-92626-1

SDG No.: 680-92626-01

Client Sample ID: CV0256A-VGSO-CS | Lab Sample ID: 680-92626-1

Matrix: Solid | Lab File ID: 1AG29007.D

Analysis Method: 8270C LL | Date Collected: 07/23/2013 11:35

Extract. Method: 3546 | Date Extracted: 07/26/2013 14:59

Sample wt/vol: 15.02(g) | Date Analyzed: 07/29/2013 13:33

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 24.5 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 139909 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	130	U	130	26
208-96-8	Acenaphthylene	56		53	6.6
120-12-7	Anthracene	210		11	5.6
56-55-3	Benzo[a]anthracene	440		11	5.2
50-32-8	Benzo[a]pyrene	160		14	6.9
205-99-2	Benzo[b]fluoranthene	440		16	8.1
191-24-2	Benzo[g,h,i]perylene	220		26	5.8
207-08-9	Benzo[k]fluoranthene	71		11	4.8
218-01-9	Chrysene	1400		12	6.0
53-70-3	Dibenz(a,h)anthracene	110		26	5.4
206-44-0	Fluoranthene	520		26	5.3
86-73-7	Fluorene	100		26	5.4
193-39-5	Indeno[1,2,3-cd]pyrene	90		26	9.4
90-12-0	1-Methylnaphthalene	910		53	5.8
91-57-6	2-Methylnaphthalene	1800		53	9.4
91-20-3	Naphthalene	1400		53	5.8
85-01-8	Phenanthrene	3700		11	5.2
129-00-0	Pyrene	630		26	4.9

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	61		30-130

8-13-13

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-92626-1

SDG No.: 680-92626-01

Client Sample ID: CV0256A-VGSO-CSD | Lab Sample ID: 680-92626-2

Matrix: Solid | Lab File ID: 1AG30034.D

Analysis Method: 8270C LL | Date Collected: 07/23/2013 11:35

Extract. Method: 3546 | Date Extracted: 07/26/2013 14:59

Sample wt/vol: 15.05(g) | Date Analyzed: 07/30/2013 22:41

Con. Extract Vol.: 1(mL) | Dilution Factor: 4

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 24.3 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 139910 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	530	U J	530	110
208-96-8	Acenaphthylene	210	U J	210	26
120-12-7	Anthracene	82	J	44	22
56-55-3	Benzo[a]anthracene	160	J	42	21
50-32-8	Benzo[a]pyrene	60	J	55	27
205-99-2	Benzo[b]fluoranthene	140	J	64	32
191-24-2	Benzo[g,h,i]perylene	74	J	110	23
207-08-9	Benzo[k]fluoranthene	26	J	42	19
218-01-9	Chrysene	530	J	47	24
53-70-3	Dibenz(a,h)anthracene	31	J	110	22
206-44-0	Fluoranthene	220	J	110	21
86-73-7	Fluorene	26	J	110	22
193-39-5	Indeno[1,2,3-cd]pyrene	43	J	110	37
90-12-0	1-Methylnaphthalene	400	J	210	23
91-57-6	2-Methylnaphthalene	830	J	210	37
91-20-3	Naphthalene	710	J	210	23
85-01-8	Phenanthrene	1100	J	42	21
129-00-0	Pyrene	270	J	110	19

EE BH

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	23	X	30-130

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-92626-1

SDG No.: 680-92626-01

Client Sample ID: HP0306A-VGSO-CS | Lab Sample ID: 680-92626-3

Matrix: Solid | Lab File ID: 1AG29011.D

Analysis Method: 8270C LL | Date Collected: 07/23/2013 10:55

Extract. Method: 3546 | Date Extracted: 07/26/2013 14:59

Sample wt/vol: 15.09(g) | Date Analyzed: 07/29/2013 15:16

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 19.6 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 139909 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	120	U	120	25
208-96-8	Acenaphthylene	17	J	49	6.2
120-12-7	Anthracene	36	J	10	5.2
56-55-3	Benzo[a]anthracene	93	J	9.9	4.8
50-32-8	Benzo[a]pyrene	59		13	6.4
205-99-2	Benzo[b]fluoranthene	100		15	7.5
191-24-2	Benzo[g,h,i]perylene	62		25	5.4
207-08-9	Benzo[k]fluoranthene	26		9.9	4.5
218-01-9	Chrysene	130		11	5.6
53-70-3	Dibenz(a,h)anthracene	20	J	25	5.1
206-44-0	Fluoranthene	89		25	4.9
86-73-7	Fluorene	17	J	25	5.1
193-39-5	Indeno[1,2,3-cd]pyrene	52		25	8.8
90-12-0	1-Methylnaphthalene	42	J	49	5.4
91-57-6	2-Methylnaphthalene	58		49	8.8
91-20-3	Naphthalene	83		49	5.4
85-01-8	Phenanthrene	140	J	9.9	4.8
129-00-0	Pyrene	130	J	25	4.6

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	60		30-130

8-13-13

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-92626-1

SDG No.: 680-92626-01

Client Sample ID: HP0306A-VGSO-CSD | Lab Sample ID: 680-92626-4

Matrix: Solid | Lab File ID: 1AG29012.D

Analysis Method: 8270C LL | Date Collected: 07/23/2013 10:55

Extract. Method: 3546 | Date Extracted: 07/26/2013 14:59

Sample wt/vol: 14.96(g) | Date Analyzed: 07/29/2013 15:31

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 21.6 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 139909 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	130	U	130	26
208-96-8	Acenaphthylene	14	J	51	6.4
120-12-7	Anthracene	21	J	11	5.4
56-55-3	Benzo[a]anthracene	48	J	10	5.0
50-32-8	Benzo[a]pyrene	52		13	6.6
205-99-2	Benzo[b]fluoranthene	93		16	7.8
191-24-2	Benzo[g,h,i]perylene	55		26	5.6
207-08-9	Benzo[k]fluoranthene	26		10	4.6
218-01-9	Chrysene	99		12	5.8
53-70-3	Dibenz(a,h)anthracene	16	J	26	5.2
206-44-0	Fluoranthene	71		26	5.1
86-73-7	Fluorene	7.6	J	26	5.2
193-39-5	Indeno[1,2,3-cd]pyrene	46		26	9.1
90-12-0	1-Methylnaphthalene	33	J	51	5.6
91-57-6	2-Methylnaphthalene	49	J	51	9.1
91-20-3	Naphthalene	74		51	5.6
85-01-8	Phenanthrene	75	J	10	5.0
129-00-0	Pyrene	64	J	26	4.7

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	66		30-130

8-13-13

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-92626-1

SDG No.: 680-92626-01

Client Sample ID: CV0827A-VGSO-CS | Lab Sample ID: 680-92626-5

Matrix: Solid | Lab File ID: 1AG29013.D

Analysis Method: 8270C LL | Date Collected: 07/23/2013 09:45

Extract. Method: 3546 | Date Extracted: 07/26/2013 14:59

Sample wt/vol: 15.03(g) | Date Analyzed: 07/29/2013 15:46

Con. Extract Vol.: 1(mL) | Dilution Factor: 4

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 30.9 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 139909 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	580	U	580	120
208-96-8	Acenaphthylene	48	J	230	29
120-12-7	Anthracene	52		49	24
56-55-3	Benzo[a]anthracene	140		46	23
50-32-8	Benzo[a]pyrene	120		60	30
205-99-2	Benzo[b]fluoranthene	200		71	35
191-24-2	Benzo[g,h,i]perylene	140		120	25
207-08-9	Benzo[k]fluoranthene	56		46	21
218-01-9	Chrysene	220		52	26
53-70-3	Dibenz(a,h)anthracene	39	J	120	24
206-44-0	Fluoranthene	240		120	23
86-73-7	Fluorene	120	U	120	24
193-39-5	Indeno[1,2,3-cd]pyrene	110	J	120	41
90-12-0	1-Methylnaphthalene	110	J	230	25
91-57-6	2-Methylnaphthalene	130	J	230	41
91-20-3	Naphthalene	99	J	230	25
85-01-8	Phenanthrene	240		46	23
129-00-0	Pyrene	200		120	21

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	50		30-130

8-13-13

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-92626-1

SDG No.: 680-92626-01

Client Sample ID: CV0453A-VGSO-CS | Lab Sample ID: 680-92626-6

Matrix: Solid | Lab File ID: 1AG29014.D

Analysis Method: 8270C LL | Date Collected: 07/23/2013 13:25

Extract. Method: 3546 | Date Extracted: 07/26/2013 14:59

Sample wt/vol: 14.99(g) | Date Analyzed: 07/29/2013 16:02

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 34.7 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 139909 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	150	U	150	31
208-96-8	Acenaphthylene	33	J	61	7.7
120-12-7	Anthracene	52		13	6.4
56-55-3	Benzo[a]anthracene	170		12	6.0
50-32-8	Benzo[a]pyrene	130		16	8.0
205-99-2	Benzo[b]fluoranthene	200		19	9.4
191-24-2	Benzo[g,h,i]perylene	150		31	6.7
207-08-9	Benzo[k]fluoranthene	65		12	5.5
218-01-9	Chrysene	250		14	6.9
53-70-3	Dibenz(a,h)anthracene	41		31	6.3
206-44-0	Fluoranthene	250		31	6.1
86-73-7	Fluorene	15	J	31	6.3
193-39-5	Indeno[1,2,3-cd]pyrene	110		31	11
90-12-0	1-Methylnaphthalene	150		61	6.7
91-57-6	2-Methylnaphthalene	190		61	11
91-20-3	Naphthalene	170		61	6.7
85-01-8	Phenanthrene	240		12	6.0
129-00-0	Pyrene	210		31	5.7

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	59		30-130

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-92626-1

SDG No.: 680-92626-01

Client Sample ID: CV0272A-VGSO-CS | Lab Sample ID: 680-92626-7

Matrix: Solid | Lab File ID: 1AG29015.D

Analysis Method: 8270C LL | Date Collected: 07/24/2013 09:40

Extract. Method: 3546 | Date Extracted: 07/26/2013 14:59

Sample wt/vol: 15.15(g) | Date Analyzed: 07/29/2013 16:17

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 18.1 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 139909 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	120	U	120	24
208-96-8	Acenaphthylene	33	J	48	6.0
120-12-7	Anthracene	52		10	5.1
56-55-3	Benzo[a]anthracene	140		9.7	4.7
50-32-8	Benzo[a]pyrene	110		13	6.3
205-99-2	Benzo[b]fluoranthene	160		15	7.4
191-24-2	Benzo[g,h,i]perylene	110		24	5.3
207-08-9	Benzo[k]fluoranthene	67		9.7	4.4
218-01-9	Chrysene	160		11	5.4
53-70-3	Dibenz(a,h)anthracene	30		24	5.0
206-44-0	Fluoranthene	220		24	4.8
86-73-7	Fluorene	15	J	24	5.0
193-39-5	Indeno[1,2,3-cd]pyrene	95		24	8.6
90-12-0	1-Methylnaphthalene	150		48	5.3
91-57-6	2-Methylnaphthalene	110		48	8.6
91-20-3	Naphthalene	70		48	5.3
85-01-8	Phenanthrene	250		9.7	4.7
129-00-0	Pyrene	170		24	4.5

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	58		30-130

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-92626-1

SDG No.: 680-92626-01

Client Sample ID: CV0083A-VGSO-CS | Lab Sample ID: 680-92626-8

Matrix: Solid | Lab File ID: 1AG29016.D

Analysis Method: 8270C LL | Date Collected: 07/24/2013 08:55

Extract. Method: 3546 | Date Extracted: 07/26/2013 14:59

Sample wt/vol: 15.05(g) | Date Analyzed: 07/29/2013 16:32

Con. Extract Vol.: 1(mL) | Dilution Factor: 4

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 17.0 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 139909 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	480	U	480	96
208-96-8	Acenaphthylene	74	J	190	24
120-12-7	Anthracene	120		40	20
56-55-3	Benzo[a]anthracene	340		38	19
50-32-8	Benzo[a]pyrene	290		50	25
205-99-2	Benzo[b]fluoranthene	470		59	29
191-24-2	Benzo[g,h,i]perylene	270		96	21
207-08-9	Benzo[k]fluoranthene	130		38	17
218-01-9	Chrysene	340		43	22
53-70-3	Dibenz(a,h)anthracene	77	J	96	20
206-44-0	Fluoranthene	480		96	19
86-73-7	Fluorene	28	J	96	20
193-39-5	Indeno[1,2,3-cd]pyrene	240		96	34
90-12-0	1-Methylnaphthalene	91	J	190	21
91-57-6	2-Methylnaphthalene	110	J	190	34
91-20-3	Naphthalene	89	J	190	21
85-01-8	Phenanthrene	340		38	19
129-00-0	Pyrene	370		96	18

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	51		30-130

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-92626-1

SDG No.: 680-92626-01

Client Sample ID: | Lab Sample ID: MB 660-139814/1-A

Matrix: Solid | Lab File ID: 1AG29005.D

Analysis Method: 8270C LL | Date Collected:

Extract. Method: 3546 | Date Extracted: 07/26/2013 14:59

Sample wt/vol: 15.08(g) | Date Analyzed: 07/29/2013 13:03

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 139909 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	99	U	99	20
208-96-8	Acenaphthylene	40	U	40	5.0
120-12-7	Anthracene	8.4	U	8.4	4.2
56-55-3	Benzo[a]anthracene	8.0	U	8.0	3.9
50-32-8	Benzo[a]pyrene	10	U	10	5.2
205-99-2	Benzo[b]fluoranthene	12	U	12	6.1
191-24-2	Benzo[g,h,i]perylene	20	U	20	4.4
207-08-9	Benzo[k]fluoranthene	8.0	U	8.0	3.6
218-01-9	Chrysene	9.0	U	9.0	4.5
53-70-3	Dibenz(a,h)anthracene	20	U	20	4.1
206-44-0	Fluoranthene	20	U	20	4.0
86-73-7	Fluorene	20	U	20	4.1
193-39-5	Indeno[1,2,3-cd]pyrene	20	U	20	7.1
90-12-0	1-Methylnaphthalene	40	U	40	4.4
91-57-6	2-Methylnaphthalene	40	U	40	7.1
91-20-3	Naphthalene	40	U	40	4.4
85-01-8	Phenanthrene	8.0	U	8.0	3.9
129-00-0	Pyrene	20	U	20	3.7

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	70		30-130

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 680-92626-1

SDG Number: 680-92626-01

Job Description: 35th Avenue Superfund Site

For:
Oneida Total Integrated Enterprises LLC
1220 Kennestone Circle
Suite 106
Marietta, GA 30060

Attention: Ms. Limari F Krebs

Approved for release.
Lisa M Harvey
Project Manager II
8/6/2013 3:28 PM

Lisa M Harvey, Project Manager II
5102 LaRoche Avenue, Savannah, GA, 31404
(912)354-7858 e.3221
lisa.harvey@testamericainc.com
08/06/2013

The test results in this report meet NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted. Results pertain only to samples listed in this report. This report may not be reproduced, except in full, without the written approval of the laboratory. Questions should be directed to the person who signed this report.

Savannah Certifications and ID #s: A2LA: 0399.01; AL: 41450; ARDEQ: 88-0692; ARDOH; AZ: AZ0741; CA: 03217CA; CO; CT: PH0161; DE; FL: E87052; GA: 803; Guam; HI; IL: 200022; IN: C-GA-02; IA: 353; KS: E-10322; KY EPPC: 90084; KY UST; LA DEQ: 30690; LA DHH: LA080008; ME: 2008022; MD: 250; MA: M-GA006; MI: 9925; MS; NFESC: 249; NV: GA00006; NJ: GA769; NM; NY: 10842; NC DWQ: 269; NC DHHS: 13701; PA: 68-00474; PR: GA00006; RI: LAO00244; SC: 98001001; TN: TN0296; TX: T104704185; USEPA: GA00006; VT: VT-87052; VA: 00302; WA; WV DEP: 094; WV DHHR: 9950 C; WI DNR: 999819810; WY/EPAR8: 8TMS-Q

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CASE NARRATIVE
Client: Oneida Total Integrated Enterprises LLC
Project: 35th Avenue Superfund Site
Report Number: 680-92626-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 07/25/2013; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 5.8 C.

SEMIVOLATILE ORGANIC COMPOUNDS BY GCMS - LOW LEVEL

Samples CV0256A-VGSO-CS (680-92626-1), CV0256A-VGSO-CSD (680-92626-2), HP0306A-VGSO-CS (680-92626-3), HP0306A-VGSO-CSD (680-92626-4), CV0827A-VGSO-CS (680-92626-5), CV0453A-VGSO-CS (680-92626-6), CV0272A-VGSO-CS (680-92626-7) and CV0083A-VGSO-CS (680-92626-8) were analyzed for Semivolatile Organic Compounds by GCMS - Low Level in accordance with EPA SW-846 Method 8270C.

Method(s) 8270C LL: The following samples were diluted due to the color of the extracts: CV0083A-VGSO-CS (680-92626-8), CV0827A-VGSO-CS (680-92626-5). Elevated reporting limits (RL) are provided. Batch: 139909.

Method(s) 8270C LL: The matrix spike / matrix spike duplicate (MS/MSD) percent recoveries and %RPD for batch 139909 were outside control limits. The recoveries were biased low. This is attributed to matrix interferences. The data has been qualified and reported.

Method(s) 8270C LL: The following sample was diluted due to the nature of the sample matrix: CV0256A-VGSO-CSD (680-92626-2). Elevated reporting limits (RLs) are provided. Batch: 139910.

Method(s) 8270C LL: Surrogate recovery for the following sample was outside control limits: CV0256A-VGSO-CSD (680-92626-2). The recovery was biased low. Evidence of matrix interference is present; therefore, re-extraction and re-analysis were not performed.

Samples CV0256A-VGSO-CSD (680-92626-2)[4X], CV0827A-VGSO-CS (680-92626-5)[4X] and CV0083A-VGSO-CS (680-92626-8)[4X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

PERCENT SOLIDS/MOISTURE

Samples CV0256A-VGSO-CS (680-92626-1), CV0256A-VGSO-CSD (680-92626-2), HP0306A-VGSO-CS (680-92626-3), HP0306A-VGSO-CSD (680-92626-4), CV0827A-VGSO-CS (680-92626-5), CV0453A-VGSO-CS (680-92626-6), CV0272A-VGSO-CS (680-92626-7) and CV0083A-VGSO-CS (680-92626-8) were analyzed for Percent Solids/Moisture in accordance with TestAmerica SOP.

SAMPLE SUMMARY

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-92626-1
Sdg Number: 680-92626-01

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
680-92626-1	CV0256A-VGSO-CS	Solid	07/23/2013 1135	07/25/2013 0855
680-92626-1MS	CV0256A-VGSO-CS	Solid	07/23/2013 1135	07/25/2013 0855
680-92626-1MSD	CV0256A-VGSO-CS	Solid	07/23/2013 1135	07/25/2013 0855
680-92626-2	CV0256A-VGSO-CSD	Solid	07/23/2013 1135	07/25/2013 0855
680-92626-3	HP0306A-VGSO-CS	Solid	07/23/2013 1055	07/25/2013 0855
680-92626-4	HP0306A-VGSO-CSD	Solid	07/23/2013 1055	07/25/2013 0855
680-92626-5	CV0827A-VGSO-CS	Solid	07/23/2013 0945	07/25/2013 0855
680-92626-6	CV0453A-VGSO-CS	Solid	07/23/2013 1325	07/25/2013 0855
680-92626-7	CV0272A-VGSO-CS	Solid	07/24/2013 0940	07/25/2013 0855
680-92626-8	CV0083A-VGSO-CS	Solid	07/24/2013 0855	07/25/2013 0855

METHOD SUMMARY

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-92626-1
Sdg Number: 680-92626-01

Description	Lab Location	Method	Preparation Method
Matrix: Solid			
Semivolatile Organic Compounds by GCMS - Low Levels	TAL TAM	SW846 8270C LL	
Microwave Extraction	TAL TAM		SW846 3546
Percent Moisture	TAL TAM	EPA Moisture	

Lab References:

TAL TAM = TestAmerica Tampa

Method References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-92626-1
Sdg Number: 680-92626-01

Method	Analyst	Analyst ID
SW846 8270C LL	Cantin, Stephen C	SCC
EPA Moisture	Galio, Andrew	AJG

DATA REPORTING QUALIFIERS

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-92626-1
Sdg Number: 680-92626-01

Lab Section	Qualifier	Description
GC/MS Semi VOA		
	U	Indicates the analyte was analyzed for but not detected.
	F	MS or MSD exceeds the control limits
	4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
	E	Result exceeded calibration range.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
	F	RPD of the MS and MSD exceeds the control limits
	X	Surrogate is outside control limits

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-92626-1
Sdg Number: 680-92626-01

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS Semi VOA					
Prep Batch: 660-139814					
LCS 660-139814/2-A	Lab Control Sample	T	Solid	3546	
MB 660-139814/1-A	Method Blank	T	Solid	3546	
680-92626-1	CV0256A-VGSO-CS	T	Solid	3546	
680-92626-1MS	Matrix Spike	T	Solid	3546	
680-92626-1MSD	Matrix Spike Duplicate	T	Solid	3546	
680-92626-2	CV0256A-VGSO-CSD	T	Solid	3546	
680-92626-3	HP0306A-VGSO-CS	T	Solid	3546	
680-92626-4	HP0306A-VGSO-CSD	T	Solid	3546	
680-92626-5	CV0827A-VGSO-CS	T	Solid	3546	
680-92626-6	CV0453A-VGSO-CS	T	Solid	3546	
680-92626-7	CV0272A-VGSO-CS	T	Solid	3546	
680-92626-8	CV0083A-VGSO-CS	T	Solid	3546	
Analysis Batch:660-139909					
LCS 660-139814/2-A	Lab Control Sample	T	Solid	8270C LL	660-139814
MB 660-139814/1-A	Method Blank	T	Solid	8270C LL	660-139814
680-92626-1	CV0256A-VGSO-CS	T	Solid	8270C LL	660-139814
680-92626-1MS	Matrix Spike	T	Solid	8270C LL	660-139814
680-92626-1MSD	Matrix Spike Duplicate	T	Solid	8270C LL	660-139814
680-92626-3	HP0306A-VGSO-CS	T	Solid	8270C LL	660-139814
680-92626-4	HP0306A-VGSO-CSD	T	Solid	8270C LL	660-139814
680-92626-5	CV0827A-VGSO-CS	T	Solid	8270C LL	660-139814
680-92626-6	CV0453A-VGSO-CS	T	Solid	8270C LL	660-139814
680-92626-7	CV0272A-VGSO-CS	T	Solid	8270C LL	660-139814
680-92626-8	CV0083A-VGSO-CS	T	Solid	8270C LL	660-139814
Analysis Batch:660-139910					
680-92626-2	CV0256A-VGSO-CSD	T	Solid	8270C LL	660-139814

Report Basis
T = Total

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-92626-1
Sdg Number: 680-92626-01

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:660-139851					
LCS 660-139851/1	Lab Control Sample	T	Solid	Moisture	
LCSD 660-139851/17	Lab Control Sample Duplicate	T	Solid	Moisture	
680-92626-1	CV0256A-VGSO-CS	T	Solid	Moisture	
680-92626-1MS	Matrix Spike	T	Solid	Moisture	
680-92626-1MSD	Matrix Spike Duplicate	T	Solid	Moisture	
Analysis Batch:660-139871					
680-92626-2	CV0256A-VGSO-CSD	T	Solid	Moisture	
680-92626-3	HP0306A-VGSO-CS	T	Solid	Moisture	
680-92626-4	HP0306A-VGSO-CSD	T	Solid	Moisture	
680-92626-5	CV0827A-VGSO-CS	T	Solid	Moisture	
680-92626-6	CV0453A-VGSO-CS	T	Solid	Moisture	
680-92626-7	CV0272A-VGSO-CS	T	Solid	Moisture	
680-92626-8	CV0083A-VGSO-CS	T	Solid	Moisture	

Report Basis
T = Total

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-92626-1

SDG No.: 680-92626-01

Instrument ID: BSMA5973 Analysis Batch Number: 139145

Lab Sample ID: IC 660-139145/9 Client Sample ID:

Date Analyzed: 07/07/13 14:46 Lab File ID: 1AG07008.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	8.67	Split Peak	cantins	07/08/13 11:40

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-92626-1

SDG No.: 680-92626-01

Instrument ID: BSMA5973 Analysis Batch Number: 139909

Lab Sample ID: 680-92626-1 Client Sample ID: CV0256A-VGSO-CS

Date Analyzed: 07/29/13 13:33 Lab File ID: 1AG29007.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.53	Split Peak	cantins	07/30/13 12:27
Benzo[k]fluoranthene	7.54	Baseline Event	cantins	07/30/13 12:30
Indeno[1,2,3-cd]pyrene	8.65	Split Peak	cantins	07/30/13 12:30

Lab Sample ID: 680-92626-1 MS Client Sample ID: CV0256A-VGSO-CS MS

Date Analyzed: 07/29/13 13:48 Lab File ID: 1AG29008.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	8.67	Split Peak	cantins	07/30/13 12:32

Lab Sample ID: 680-92626-1 MSD Client Sample ID: CV0256A-VGSO-CS MSD

Date Analyzed: 07/29/13 14:03 Lab File ID: 1AG29009.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.55	Split Peak	cantins	07/30/13 12:34
Benzo[k]fluoranthene	7.56	Baseline Event	cantins	07/30/13 12:35
Indeno[1,2,3-cd]pyrene	8.69	Split Peak	cantins	07/30/13 12:35

Lab Sample ID: 680-92626-3 Client Sample ID: HP0306A-VGSO-CS

Date Analyzed: 07/29/13 15:16 Lab File ID: 1AG29011.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.54	Split Peak	cantins	07/30/13 12:38
Benzo[k]fluoranthene	7.56	Baseline Event	cantins	07/30/13 12:38
Indeno[1,2,3-cd]pyrene	8.68	Split Peak	cantins	07/30/13 12:37

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-92626-1

SDG No.: 680-92626-01

Instrument ID: BSMA5973 Analysis Batch Number: 139909

Lab Sample ID: 680-92626-4 Client Sample ID: HP0306A-VGSO-CSD

Date Analyzed: 07/29/13 15:31 Lab File ID: 1AG29012.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.52	Split Peak	cantins	07/30/13 12:46
Benzo[k]fluoranthene	7.54	Baseline Event	cantins	07/30/13 12:46
Indeno[1,2,3-cd]pyrene	8.63	Split Peak	cantins	07/30/13 12:46

Lab Sample ID: 680-92626-5 Client Sample ID: CV0827A-VGSO-CS

Date Analyzed: 07/29/13 15:46 Lab File ID: 1AG29013.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.51	Split Peak	cantins	07/30/13 12:47
Benzo[k]fluoranthene	7.52	Baseline Event	cantins	07/30/13 12:47
Indeno[1,2,3-cd]pyrene	8.61	Split Peak	cantins	07/30/13 12:48

Lab Sample ID: 680-92626-6 Client Sample ID: CV0453A-VGSO-CS

Date Analyzed: 07/29/13 16:02 Lab File ID: 1AG29014.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.52	Split Peak	cantins	07/30/13 12:48
Benzo[k]fluoranthene	7.53	Baseline Event	cantins	07/30/13 12:48
Indeno[1,2,3-cd]pyrene	8.64	Split Peak	cantins	07/30/13 12:49

Lab Sample ID: 680-92626-7 Client Sample ID: CV0272A-VGSO-CS

Date Analyzed: 07/29/13 16:17 Lab File ID: 1AG29015.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.52	Split Peak	cantins	07/30/13 12:49
Benzo[k]fluoranthene	7.53	Baseline Event	cantins	07/30/13 12:49
Indeno[1,2,3-cd]pyrene	8.63	Split Peak	cantins	07/30/13 12:50

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-92626-1

SDG No.: 680-92626-01

Instrument ID: BSMA5973 Analysis Batch Number: 139909

Lab Sample ID: 680-92626-8 Client Sample ID: CV0083A-VGSO-CS

Date Analyzed: 07/29/13 16:32 Lab File ID: 1AG29016.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.51	Split Peak	cantins	07/30/13 12:50
Benzo[k]fluoranthene	7.53	Baseline Event	cantins	07/30/13 12:50
Indeno[1,2,3-cd]pyrene	8.61	Split Peak	cantins	07/30/13 12:51

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-92626-1

SDG No.: 680-92626-01

Instrument ID: BSMA5973 Analysis Batch Number: 139910

Lab Sample ID: 680-92626-2 Client Sample ID: CV0256A-VGSO-CSD

Date Analyzed: 07/30/13 22:41 Lab File ID: 1AG30034.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.51	Split Peak	cantins	07/31/13 10:40
Benzo[k]fluoranthene	7.52	Baseline Event	cantins	07/31/13 10:40
Indeno[1,2,3-cd]pyrene	8.61	Split Peak	cantins	07/31/13 10:41

Method 8270C Low Level

Semivolatile Organic Compounds (GC/MS) Low Level by Method 8270C

FORM II
GC/MS SEMI VOA SURROGATE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-92626-1

SDG No.: 680-92626-01

Matrix: Solid Level: Low

GC Column (1): DB-5MS ID: 250 (um)

Client Sample ID	Lab Sample ID	OTPH	#
CV0256A-VGSO-CS	680-92626-1	61	
CV0256A-VGSO-CSD	680-92626-2	23	X
HP0306A-VGSO-CS	680-92626-3	60	
HP0306A-VGSO-CSD	680-92626-4	66	
CV0827A-VGSO-CS	680-92626-5	50	
CV0453A-VGSO-CS	680-92626-6	59	
CV0272A-VGSO-CS	680-92626-7	58	
CV0083A-VGSO-CS	680-92626-8	51	
	MB 660-139814/1-A	70	
	LCS 660-139814/2-A	58	
CV0256A-VGSO-CS MS	680-92626-1 MS	46	
CV0256A-VGSO-CS MSD	680-92626-1 MSD	58	

	QC LIMITS
OTPH = o-Terphenyl	30-130

Column to be used to flag recovery values

FORM II 8270C LL

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-92626-1

SDG No.: 680-92626-01

Matrix: Solid Level: Low Lab File ID: 1AG29006.D

Lab ID: LCS 660-139814/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Acenaphthene	669	386	58	39-130	
Acenaphthylene	669	383	57	38-130	
Anthracene	669	379	57	37-130	
Benzo[a]anthracene	669	364	54	40-130	
Benzo[a]pyrene	669	377	56	49-130	
Benzo[b]fluoranthene	669	381	57	37-130	
Benzo[g,h,i]perylene	669	355	53	32-130	
Benzo[k]fluoranthene	669	377	56	32-130	
Chrysene	669	359	54	41-130	
Dibenz(a,h)anthracene	669	344	51	27-130	
Fluoranthene	669	382	57	40-130	
Fluorene	669	393	59	40-130	
Indeno[1,2,3-cd]pyrene	669	352	53	30-130	
1-Methylnaphthalene	669	385	58	31-130	
2-Methylnaphthalene	669	402	60	33-130	
Naphthalene	669	379	57	36-130	
Phenanthrene	669	380	57	42-130	
Pyrene	669	359	54	44-130	

Column to be used to flag recovery and RPD values

FORM III 8270C LL

FORM III
GC/MS SEMI VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-92626-1

SDG No.: 680-92626-01

Matrix: Solid Level: Low Lab File ID: 1AG29008.D

Lab ID: 680-92626-1 MS Client ID: CV0256A-VGSO-CS MS

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
Acenaphthene	883	130 U	381	43	39-130	
Acenaphthylene	883	56	328	31	38-130	F
Anthracene	883	210	491	32	37-130	F
Benzo[a]anthracene	883	440	561	13	40-130	F
Benzo[a]pyrene	883	160	356	23	49-130	F
Benzo[b]fluoranthene	883	440	525	10	37-130	F
Benzo[g,h,i]perylene	883	220	448	25	32-130	F
Benzo[k]fluoranthene	883	71	335	30	32-130	F
Chrysene	883	1400	1130	-34	41-130	F
Dibenz(a,h)anthracene	883	110	417	35	27-130	
Fluoranthene	883	520	650	14	40-130	F
Fluorene	883	100	401	34	40-130	F
Indeno[1,2,3-cd]pyrene	883	90	403	35	30-130	
1-Methylnaphthalene	883	910	832	-9	31-130	F
2-Methylnaphthalene	883	1800	1390	-45	33-130	F
Naphthalene	883	1400	1260	-15	36-130	F
Phenanthrene	883	3700	3130	-68	42-130	4
Pyrene	883	630	654	2	44-130	F

Column to be used to flag recovery and RPD values

FORM III 8270C LL

FORM III
GC/MS SEMI VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-92626-1

SDG No.: 680-92626-01

Matrix: Solid Level: Low Lab File ID: 1AG29009.D

Lab ID: 680-92626-1 MSD Client ID: CV0256A-VGSO-CS MSD

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Acenaphthene	885	492	56	25	40	39-130	
Acenaphthylene	885	403	39	20	40	38-130	
Anthracene	885	660	51	29	40	37-130	
Benzo[a]anthracene	885	849	46	41	40	40-130	F
Benzo[a]pyrene	885	560	46	44	40	49-130	F
Benzo[b]fluoranthene	885	898	52	52	40	37-130	F
Benzo[g,h,i]perylene	885	524	34	16	40	32-130	
Benzo[k]fluoranthene	885	489	47	37	40	32-130	
Chrysene	885	1800	42	46	40	41-130	F
Dibenz(a,h)anthracene	885	563	52	30	40	27-130	
Fluoranthene	885	1010	55	43	40	40-130	F
Fluorene	885	517	47	25	40	40-130	
Indeno[1,2,3-cd]pyrene	885	512	48	24	40	30-130	
1-Methylnaphthalene	885	1190	31	36	40	31-130	
2-Methylnaphthalene	885	1950	19	34	40	33-130	F
Naphthalene	885	1600	24	24	40	36-130	F
Phenanthrene	885	4760	116	41	40	42-130	E 4 F
Pyrene	885	881	28	29	40	44-130	F

Column to be used to flag recovery and RPD values

FORM III 8270C LL

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-92626-1

SDG No.: 680-92626-01

Lab File ID: 1AG29005.D Lab Sample ID: MB 660-139814/1-A

Matrix: Solid Date Extracted: 07/26/2013 14:59

Instrument ID: BSMA5973 Date Analyzed: 07/29/2013 13:03

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 660-139814/2-A	1AG29006.D	07/29/2013 13:18
CV0256A-VGSO-CS	680-92626-1	1AG29007.D	07/29/2013 13:33
CV0256A-VGSO-CS MS	680-92626-1 MS	1AG29008.D	07/29/2013 13:48
CV0256A-VGSO-CS MSD	680-92626-1 MSD	1AG29009.D	07/29/2013 14:03
HP0306A-VGSO-CS	680-92626-3	1AG29011.D	07/29/2013 15:16
HP0306A-VGSO-CSD	680-92626-4	1AG29012.D	07/29/2013 15:31
CV0827A-VGSO-CS	680-92626-5	1AG29013.D	07/29/2013 15:46
CV0453A-VGSO-CS	680-92626-6	1AG29014.D	07/29/2013 16:02
CV0272A-VGSO-CS	680-92626-7	1AG29015.D	07/29/2013 16:17
CV0083A-VGSO-CS	680-92626-8	1AG29016.D	07/29/2013 16:32
CV0256A-VGSO-CSD	680-92626-2	1AG30034.D	07/30/2013 22:41

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica Tampa Job No.: 680-92626-1

SDG No.: 680-92626-01

Lab File ID: 1AG07005.D DFTPP Injection Date: 07/07/2013

Instrument ID: BSMA5973 DFTPP Injection Time: 13:53

Analysis Batch No.: 139145

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10.0 - 80.0 % of mass 198	41.7	
68	Less than 2.0 % of mass 69	0.0	(0.0)1
69	Mass 69 relative abundance	36.9	
70	Less than 2.0 % of mass 69	0.3	(0.8)1
127	10.0 - 80.0 % of mass 198	46.8	
197	Less than 2.0 % of mass 198	0.0	
198	Base Peak, 100% relative abundance	100.0	
199	5.0 - 9.0 % of mass 198	6.6	
275	10.0 - 60.0 % of mass 198	24.6	
365	Greater than 1.0 % of mass 198	2.8	
441	Present but less than mass 443	10.5	
442	Greater than 50.0 % of mass 198	69.6	
443	15.0 - 24.0 % of mass 442	13.8	(19.8)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	ICIS 660-139145/7	1AG07006.D	07/07/2013	14:06
	IC 660-139145/8	1AG07007.D	07/07/2013	14:31
	IC 660-139145/9	1AG07008.D	07/07/2013	14:46
	IC 660-139145/10	1AG07009.D	07/07/2013	15:01
	IC 660-139145/11	1AG07010.D	07/07/2013	15:16
	IC 660-139145/12	1AG07011.D	07/07/2013	15:31
	IC 660-139145/13	1AG07012.D	07/07/2013	15:46
	ICV 660-139145/14	1AG07013.D	07/07/2013	16:01

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica Tampa Job No.: 680-92626-1

SDG No.: 680-92626-01

Lab File ID: 1AG29002.D DFTPP Injection Date: 07/29/2013

Instrument ID: BSMA5973 DFTPP Injection Time: 11:43

Analysis Batch No.: 139909

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10.0 - 80.0 % of mass 198	42.7	
68	Less than 2.0 % of mass 69	0.0	(0.0)1
69	Mass 69 relative abundance	39.2	
70	Less than 2.0 % of mass 69	0.2	(0.5)1
127	10.0 - 80.0 % of mass 198	45.9	
197	Less than 2.0 % of mass 198	0.0	
198	Base Peak, 100% relative abundance	100.0	
199	5.0 - 9.0 % of mass 198	7.5	
275	10.0 - 60.0 % of mass 198	23.9	
365	Greater than 1.0 % of mass 198	3.3	
441	Present but less than mass 443	9.9	
442	Greater than 50.0 % of mass 198	68.3	
443	15.0 - 24.0 % of mass 442	12.4	(18.1)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 660-139909/3	1AG29003.D	07/29/2013	11:57
	MB 660-139814/1-A	1AG29005.D	07/29/2013	13:03
	LCS 660-139814/2-A	1AG29006.D	07/29/2013	13:18
CV0256A-VGSO-CS	680-92626-1	1AG29007.D	07/29/2013	13:33
CV0256A-VGSO-CS MS	680-92626-1 MS	1AG29008.D	07/29/2013	13:48
CV0256A-VGSO-CS MSD	680-92626-1 MSD	1AG29009.D	07/29/2013	14:03
HP0306A-VGSO-CS	680-92626-3	1AG29011.D	07/29/2013	15:16
HP0306A-VGSO-CSD	680-92626-4	1AG29012.D	07/29/2013	15:31
CV0827A-VGSO-CS	680-92626-5	1AG29013.D	07/29/2013	15:46
CV0453A-VGSO-CS	680-92626-6	1AG29014.D	07/29/2013	16:02
CV0272A-VGSO-CS	680-92626-7	1AG29015.D	07/29/2013	16:17
CV0083A-VGSO-CS	680-92626-8	1AG29016.D	07/29/2013	16:32

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica Tampa Job No.: 680-92626-1

SDG No.: 680-92626-01

Lab File ID: 1AG30005.D DFTPP Injection Date: 07/30/2013

Instrument ID: BSMA5973 DFTPP Injection Time: 15:10

Analysis Batch No.: 139910

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10.0 - 80.0 % of mass 198	47.7	
68	Less than 2.0 % of mass 69	0.0	(0.0)1
69	Mass 69 relative abundance	42.1	
70	Less than 2.0 % of mass 69	0.0	(0.0)1
127	10.0 - 80.0 % of mass 198	45.0	
197	Less than 2.0 % of mass 198	0.0	
198	Base Peak, 100% relative abundance	100.0	
199	5.0 - 9.0 % of mass 198	6.9	
275	10.0 - 60.0 % of mass 198	23.3	
365	Greater than 1.0 % of mass 198	2.6	
441	Present but less than mass 443	7.1	
442	Greater than 50.0 % of mass 198	54.4	
443	15.0 - 24.0 % of mass 442	11.0	(20.2)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 660-139910/7	1AG30006.D	07/30/2013	15:24
CV0256A-VGSO-CSD	680-92626-2	1AG30034.D	07/30/2013	22:41

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-92626-1

SDG No.: 680-92626-01

Sample No.: ICIS 660-139145/7 Date Analyzed: 07/07/2013 14:06

Instrument ID: BSMA5973 GC Column: DB-5MS ID: 250(um)

Lab File ID (Standard): 1AG07006.D Heated Purge: (Y/N) N

Calibration ID: 3117

		NPT		ANT		PHN	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		3059306	2.68	1632402	3.71	2627201	4.69
UPPER LIMIT		6118612	3.18	3264804	4.21	5254402	5.19
LOWER LIMIT		1529653	2.18	816201	3.21	1313601	4.19
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 660-139145/14		2624272	2.68	1393027	3.71	2208439	4.69

NPT = Naphthalene-d8
ANT = Acenaphthene-d10
PHN = Phenanthrene-d10

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8270C LL

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-92626-1

SDG No.: 680-92626-01

Sample No.: ICIS 660-139145/7 Date Analyzed: 07/07/2013 14:06

Instrument ID: BSMA5973 GC Column: DB-5MS ID: 250(um)

Lab File ID (Standard): 1AG07006.D Heated Purge: (Y/N) N

Calibration ID: 3117

		CRY		PRY			
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		2407613	6.75	2496028	7.85		
UPPER LIMIT		4815226	7.25	4992056	8.35		
LOWER LIMIT		1203807	6.25	1248014	7.35		
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 660-139145/14		2029780	6.75	2228189	7.84		

CRY = Chrysene-d12
PRY = Perylene-d12

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8270C LL

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-92626-1

SDG No.: 680-92626-01

Sample No.: CCVIS 660-139909/3 Date Analyzed: 07/29/2013 11:57

Instrument ID: BSMA5973 GC Column: DB-5MS ID: 250(um)

Lab File ID (Standard): 1AG29003.D Heated Purge: (Y/N) N

Calibration ID: 3117

		NPT		ANT		PHN	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		3499862	2.64	1841023	3.67	3031211	4.64
UPPER LIMIT		6999724	3.14	3682046	4.17	6062422	5.14
LOWER LIMIT		1749931	2.14	920512	3.17	1515606	4.14
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 660-139814/2-A		3971237	2.64	2205743	3.67	3565564	4.64
680-92626-1	CV0256A-VGSO-CS	2836349	2.64	1625715	3.68	2536971	4.65
680-92626-1 MS	CV0256A-VGSO-CS MS	3046605	2.64	1854045	3.68	2701224	4.65
680-92626-1 MSD	CV0256A-VGSO-CS MSD	3093930	2.64	1864643	3.68	2855769	4.66
680-92626-3	HP0306A-VGSO-CS	2534312	2.64	1594765	3.68	2282055	4.65
680-92626-4	HP0306A-VGSO-CSD	2621389	2.64	1571289	3.68	2297634	4.65
680-92626-5	CV0827A-VGSO-CS	2637871	2.65	1639002	3.68	2366727	4.65
680-92626-6	CV0453A-VGSO-CS	2578716	2.64	1598631	3.68	2289742	4.65
680-92626-7	CV0272A-VGSO-CS	2441232	2.64	1558098	3.68	2110166	4.65
680-92626-8	CV0083A-VGSO-CS	2615341	2.65	1712580	3.68	2294964	4.65

NPT = Naphthalene-d8
ANT = Acenaphthene-d10
PHN = Phenanthrene-d10

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8270C LL

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-92626-1

SDG No.: 680-92626-01

Sample No.: CCVIS 660-139909/3 Date Analyzed: 07/29/2013 11:57

Instrument ID: BSMA5973 GC Column: DB-5MS ID: 250(um)

Lab File ID (Standard): 1AG29003.D Heated Purge: (Y/N) N

Calibration ID: 3117

		CRY		PRY			
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		2751042	6.69	2861223	7.80		
UPPER LIMIT		5502084	7.19	5722446	8.30		
LOWER LIMIT		1375521	6.19	1430612	7.30		
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 660-139814/2-A		3505504	6.69	3476096	7.79		
680-92626-1	CV0256A-VGSO-CS	2698415	6.71	3444813	7.82		
680-92626-1 MS	CV0256A-VGSO-CS MS	2923636	6.71	3799790	7.84		
680-92626-1 MSD	CV0256A-VGSO-CS MSD	3608397	6.73	4764488	7.84		
680-92626-3	HP0306A-VGSO-CS	2029448	6.71	2728593	7.85		
680-92626-4	HP0306A-VGSO-CSD	2038954	6.69	2565918	7.82		
680-92626-5	CV0827A-VGSO-CS	2159343	6.70	2673554	7.80		
680-92626-6	CV0453A-VGSO-CS	2239657	6.70	2880720	7.82		
680-92626-7	CV0272A-VGSO-CS	2208648	6.70	2684131	7.81		
680-92626-8	CV0083A-VGSO-CS	2425457	6.70	2938342	7.81		

CRY = Chrysene-d12
PRY = Perylene-d12

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8270C LL

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-92626-1

SDG No.: 680-92626-01

Sample No.: CCVIS 660-139910/7 Date Analyzed: 07/30/2013 15:24

Instrument ID: BSMA5973 GC Column: DB-5MS ID: 250(um)

Lab File ID (Standard): 1AG30006.D Heated Purge: (Y/N) N

Calibration ID: 3117

		NPT		ANT		PHN	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		3504960	2.63	1873377	3.67	3063042	4.64
UPPER LIMIT		7009920	3.13	3746754	4.17	6126084	5.14
LOWER LIMIT		1752480	2.13	936689	3.17	1531521	4.14
LAB SAMPLE ID	CLIENT SAMPLE ID						
680-92626-2	CV0256A-VGSO-CSD	2218230	2.64	1311282	3.67	1929898	4.64

NPT = Naphthalene-d8
ANT = Acenaphthene-d10
PHN = Phenanthrene-d10

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8270C LL

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-92626-1

SDG No.: 680-92626-01

Sample No.: CCVIS 660-139910/7 Date Analyzed: 07/30/2013 15:24

Instrument ID: BSMA5973 GC Column: DB-5MS ID: 250(um)

Lab File ID (Standard): 1AG30006.D Heated Purge: (Y/N) N

Calibration ID: 3117

		CRY		PRY			
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		2750938	6.69	2810397	7.78		
UPPER LIMIT		5501876	7.19	5620794	8.28		
LOWER LIMIT		1375469	6.19	1405199	7.28		
LAB SAMPLE ID	CLIENT SAMPLE ID						
680-92626-2	CV0256A-VGSO-CSD	1737721	6.69	1958198	7.79		

CRY = Chrysene-d12
PRY = Perylene-d12

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8270C LL

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-92626-1

SDG No.: 680-92626-01

Client Sample ID: CV0256A-VGSO-CS | Lab Sample ID: 680-92626-1

Matrix: Solid | Lab File ID: 1AG29007.D

Analysis Method: 8270C LL | Date Collected: 07/23/2013 11:35

Extract. Method: 3546 | Date Extracted: 07/26/2013 14:59

Sample wt/vol: 15.02(g) | Date Analyzed: 07/29/2013 13:33

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 24.5 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 139909 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	130	U	130	26
208-96-8	Acenaphthylene	56		53	6.6
120-12-7	Anthracene	210		11	5.6
56-55-3	Benzo[a]anthracene	440		11	5.2
50-32-8	Benzo[a]pyrene	160		14	6.9
205-99-2	Benzo[b]fluoranthene	440		16	8.1
191-24-2	Benzo[g,h,i]perylene	220		26	5.8
207-08-9	Benzo[k]fluoranthene	71		11	4.8
218-01-9	Chrysene	1400		12	6.0
53-70-3	Dibenz(a,h)anthracene	110		26	5.4
206-44-0	Fluoranthene	520		26	5.3
86-73-7	Fluorene	100		26	5.4
193-39-5	Indeno[1,2,3-cd]pyrene	90		26	9.4
90-12-0	1-Methylnaphthalene	910		53	5.8
91-57-6	2-Methylnaphthalene	1800		53	9.4
91-20-3	Naphthalene	1400		53	5.8
85-01-8	Phenanthrene	3700		11	5.2
129-00-0	Pyrene	630		26	4.9

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	61		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A072913.b\1AG29007.D
Lab Smp Id: 680-92626-a-1-a
Inj Date : 29-JUL-2013 13:33
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-92626-a-1-a
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A072913.b\a-bFASTPAHi-m.m
Meth Date : 29-Jul-2013 12:10 cantins Quant Type: ISTD
Cal Date : 07-JUL-2013 15:46 Cal File: 1AG07012.D
Als bottle: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14

Concentration Formula:
Amt * DF * 1/Vi * Vt/Ws * 100/(100 - M) * A * B * C * D * GPC * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.020	Weight Extracted
M	24.000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	2.640	2.640	(1.000)	2836349	40.0000	
* 7 Acenaphthene-d10	164	3.676	3.671	(1.000)	1625715	40.0000	
* 11 Phenanthrene-d10	188	4.648	4.643	(1.000)	2536971	40.0000	
$ 15 o-Terphenyl	230	4.942	4.937	(1.063)	236927	6.14579	538.3868
* 19 Chrysene-d12	240	6.705	6.689	(1.000)	2698415	40.0000	
* 24 Perylene-d12	264	7.821	7.795	(1.000)	3444813	40.0000	
2 Naphthalene	128	2.650	2.650	(1.004)	1008202	15.7325	1378.2096
3 2-Methylnaphthalene	141	3.056	3.056	(1.158)	737776	20.1790	1767.7289
4 1-Methylnaphthalene	142	3.115	3.110	(1.180)	442961	10.3757	908.9357
6 Acenaphthylene	152	3.585	3.585	(0.975)	45941	0.63349	55.4955
8 Acenaphthene	154	3.708	3.692	(1.009)	7113	0.18717	16.3965(Q)
10 Fluorene	166	4.007	4.013	(1.090)	58722	1.15487	101.1698(Q)
12 Phenanthrene	178	4.664	4.659	(1.003)	2731183	42.2994	3705.5302
13 Anthracene	178	4.696	4.691	(1.010)	159893	2.37477	208.0354
16 Fluoranthene	202	5.546	5.535	(1.193)	460422	5.92598	519.1303

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
17 Pyrene	202	5.717	5.701	(0.853)	644932	7.17927	628.9223
18 Benzo(a)anthracene	228	6.700	6.673	(0.999)	440800	5.04232	441.7201
20 Chrysene	228	6.721	6.705	(1.002)	1182952	16.1828	1417.6567
21 Benzo(b)fluoranthene	252	7.533	7.506	(0.963)	490902	5.00604	438.5414(M)
22 Benzo(k)fluoranthene	252	7.544	7.533	(0.964)	81117	0.80114	70.1822(QMH)
23 Benzo(a)pyrene	252	7.763	7.741	(0.992)	159838	1.76253	154.4023(H)
25 Indeno(1,2,3-cd)pyrene	276	8.649	8.617	(1.106)	80531	1.01843	89.2172(M)
26 Dibenzo(a,h)anthracene	278	8.666	8.644	(1.108)	90227	1.20683	105.7213
27 Benzo(g,h,i)perylene	276	8.906	8.858	(1.139)	191200	2.55034	223.4162

QC Flag Legend

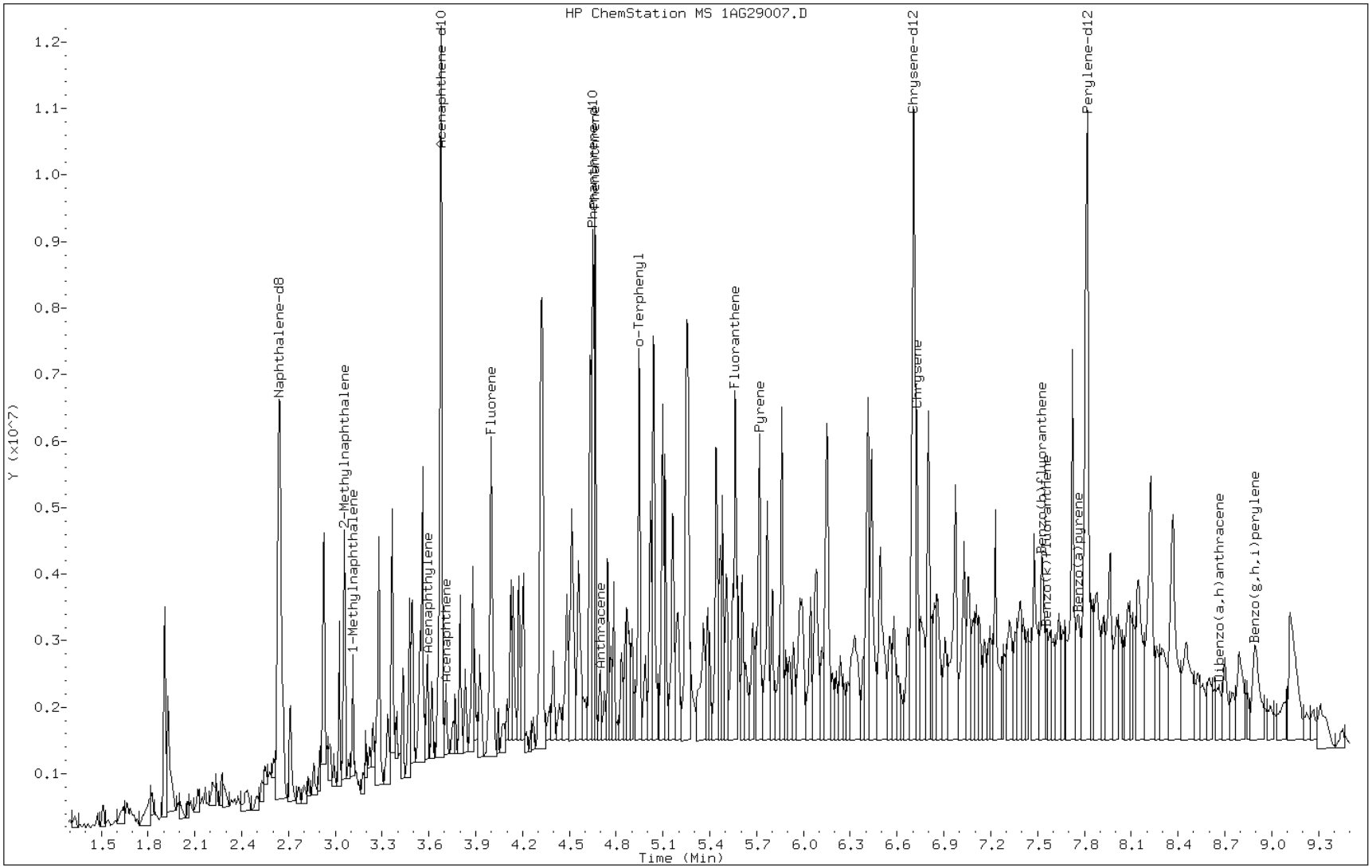
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1AG29007.D

Date: 29-JUL-2013 13:33

Client ID: Instrument: BSMA5973.i

Sample Info: 680-92626-a-1-a Operator: SCC



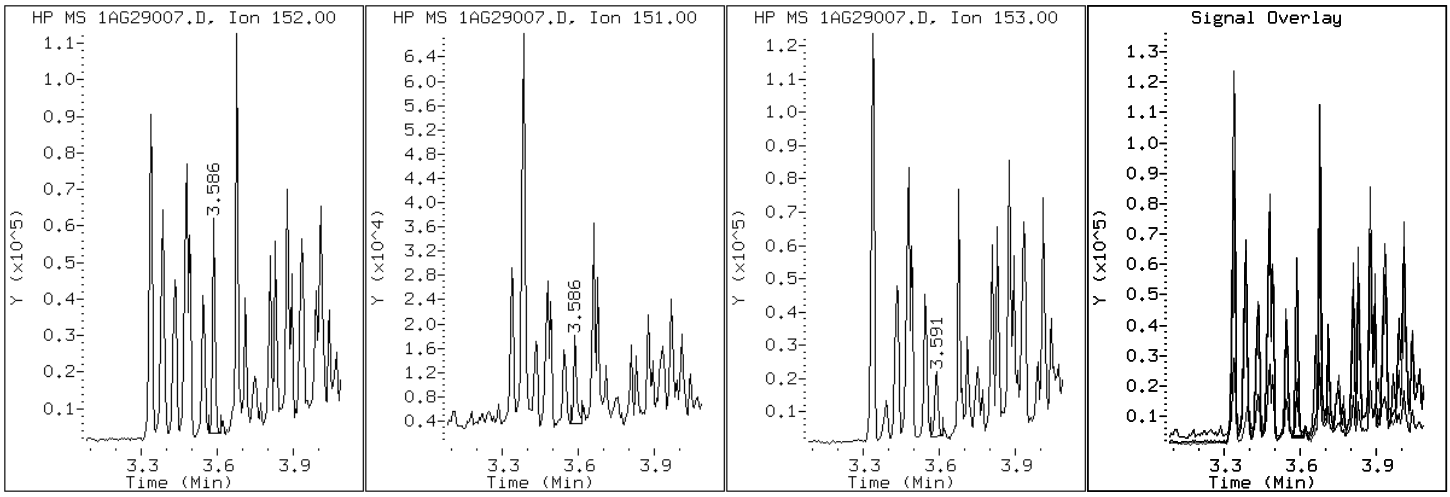
Data File: 1AG29007.D

Date: 29-JUL-2013 13:33

Client ID: Instrument: BSMA5973.i

Sample Info: 680-92626-a-1-a Operator: SCC

6 Acenaphthylene



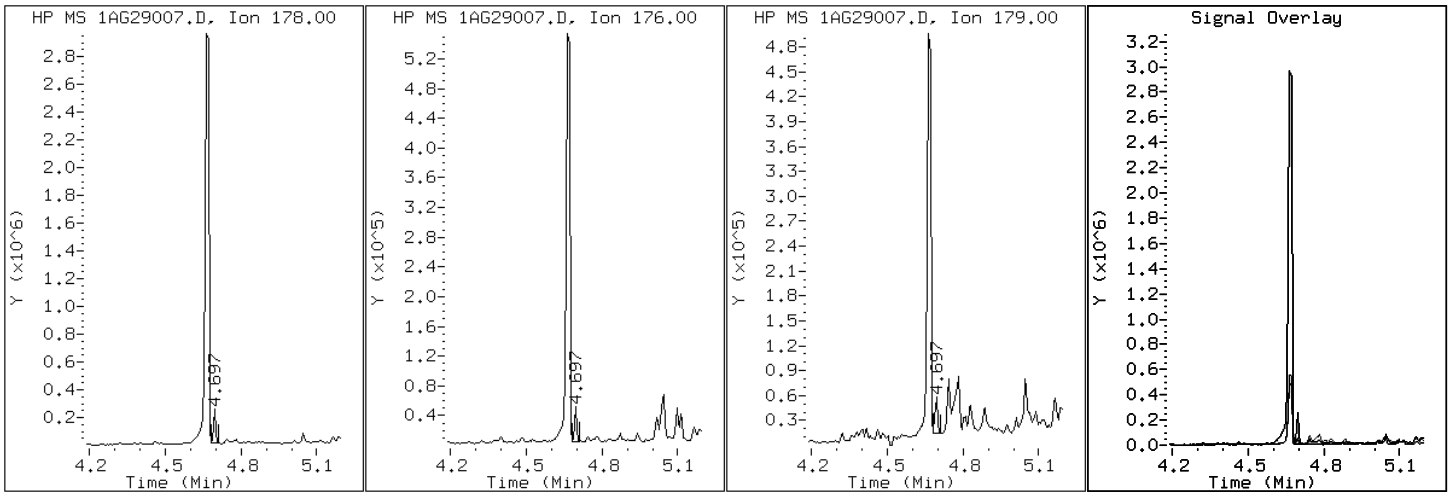
Data File: 1AG29007.D

Date: 29-JUL-2013 13:33

Client ID: Instrument: BSMA5973.i

Sample Info: 680-92626-a-1-a Operator: SCC

13 Anthracene



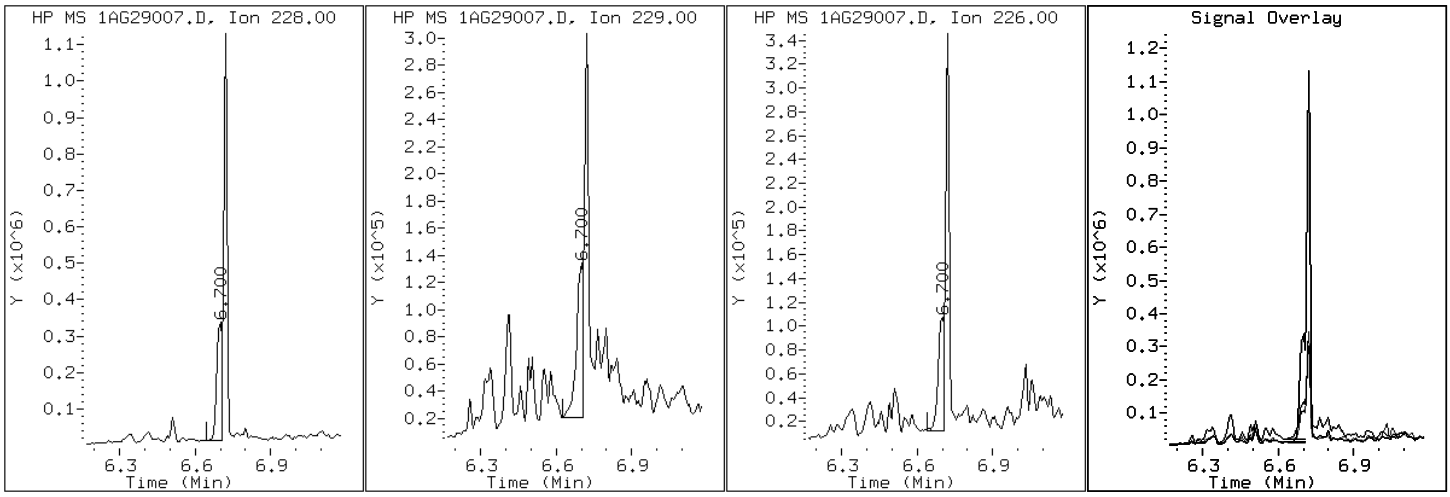
Data File: 1AG29007.D

Date: 29-JUL-2013 13:33

Client ID: Instrument: BSMA5973.i

Sample Info: 680-92626-a-1-a Operator: SCC

18 Benzo(a)anthracene



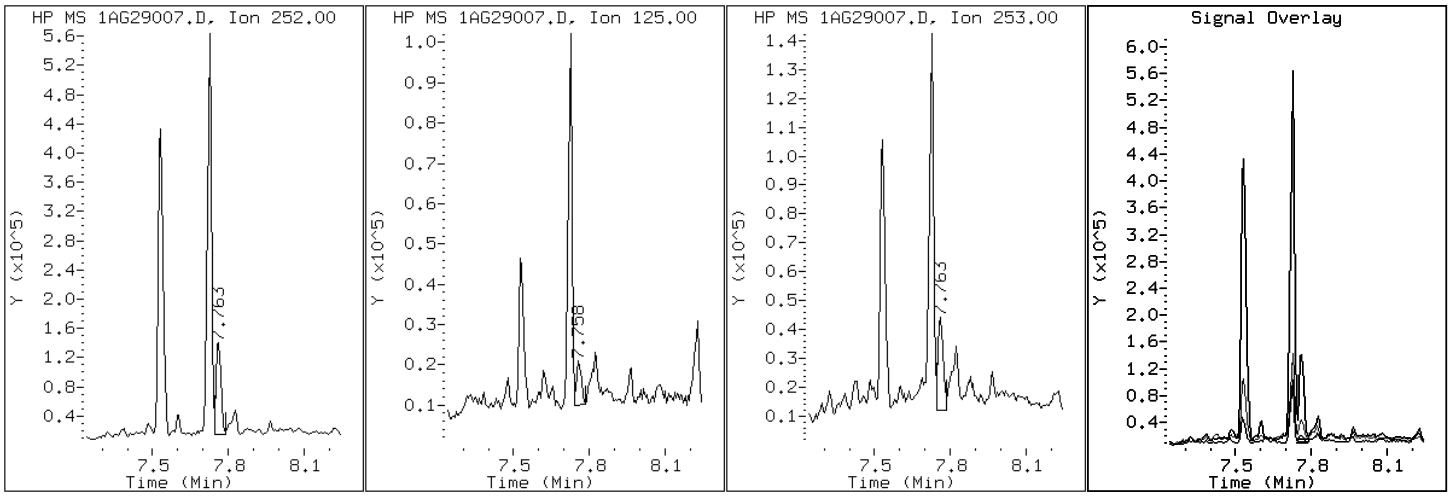
Data File: 1AG29007.D

Date: 29-JUL-2013 13:33

Client ID: Instrument: BSMA5973.i

Sample Info: 680-92626-a-1-a Operator: SCC

23 Benzo(a)pyrene



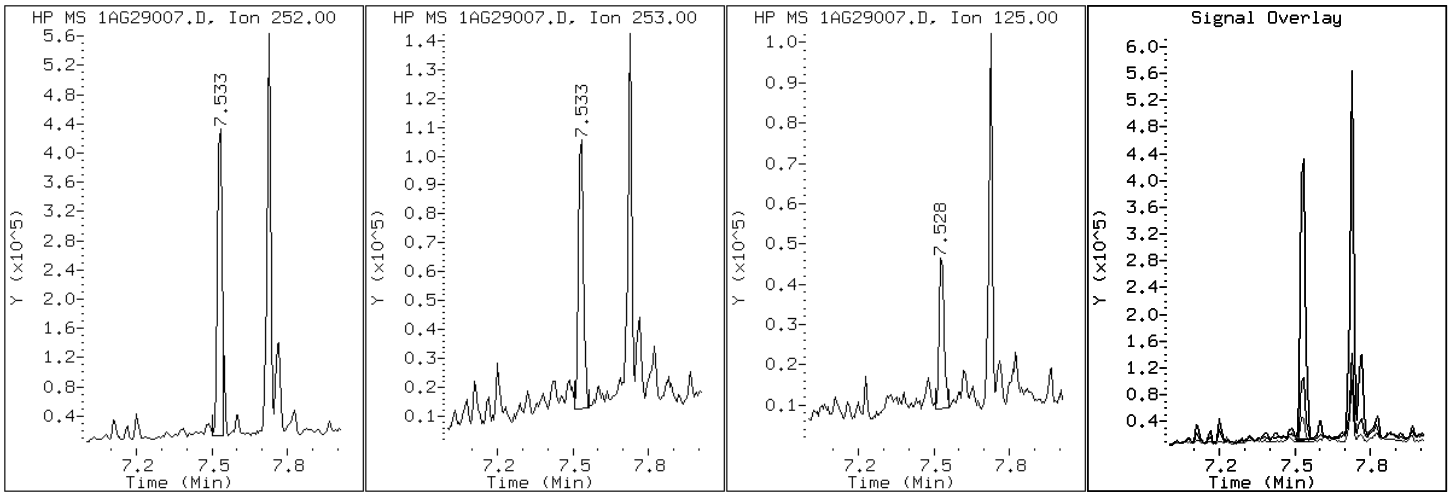
Data File: 1AG29007.D

Date: 29-JUL-2013 13:33

Client ID: Instrument: BSMA5973.i

Sample Info: 680-92626-a-1-a Operator: SCC

21 Benzo(b)fluoranthene



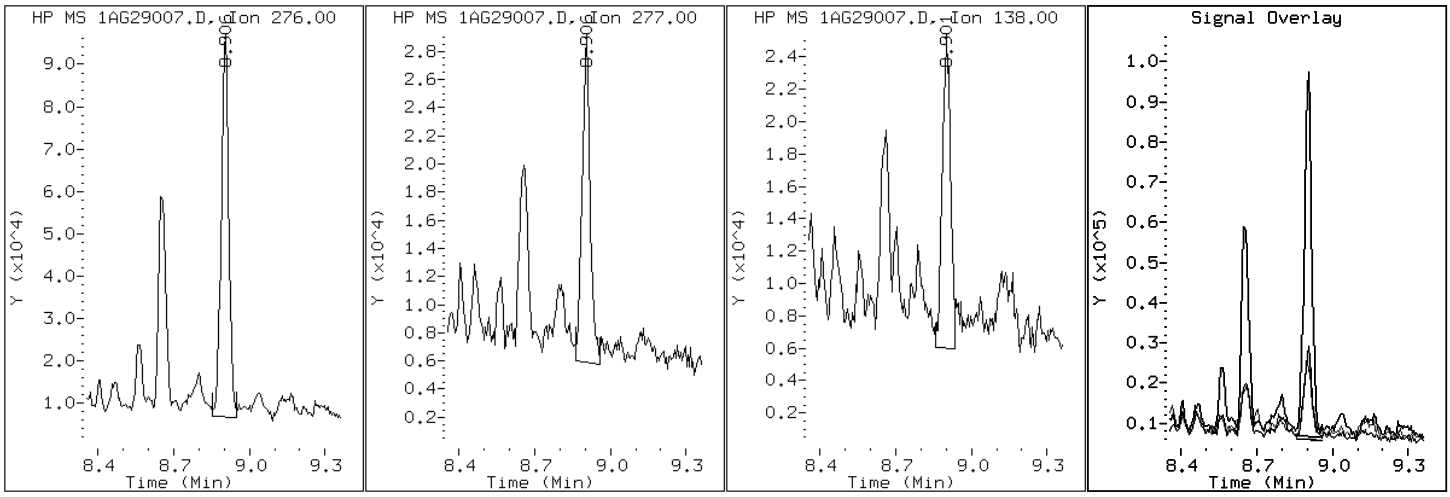
Data File: 1AG29007.D

Date: 29-JUL-2013 13:33

Client ID: Instrument: BSMA5973.i

Sample Info: 680-92626-a-1-a Operator: SCC

27 Benzo(g,h,i)perylene



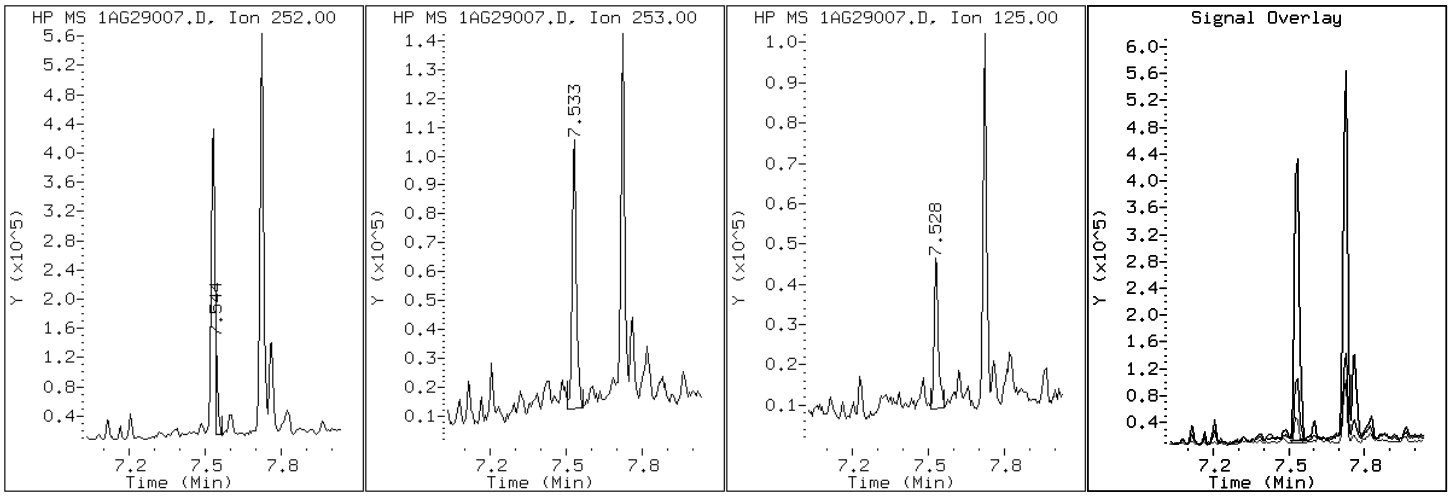
Data File: 1AG29007.D

Date: 29-JUL-2013 13:33

Client ID: Instrument: BSMA5973.i

Sample Info: 680-92626-a-1-a Operator: SCC

22 Benzo(k)fluoranthene



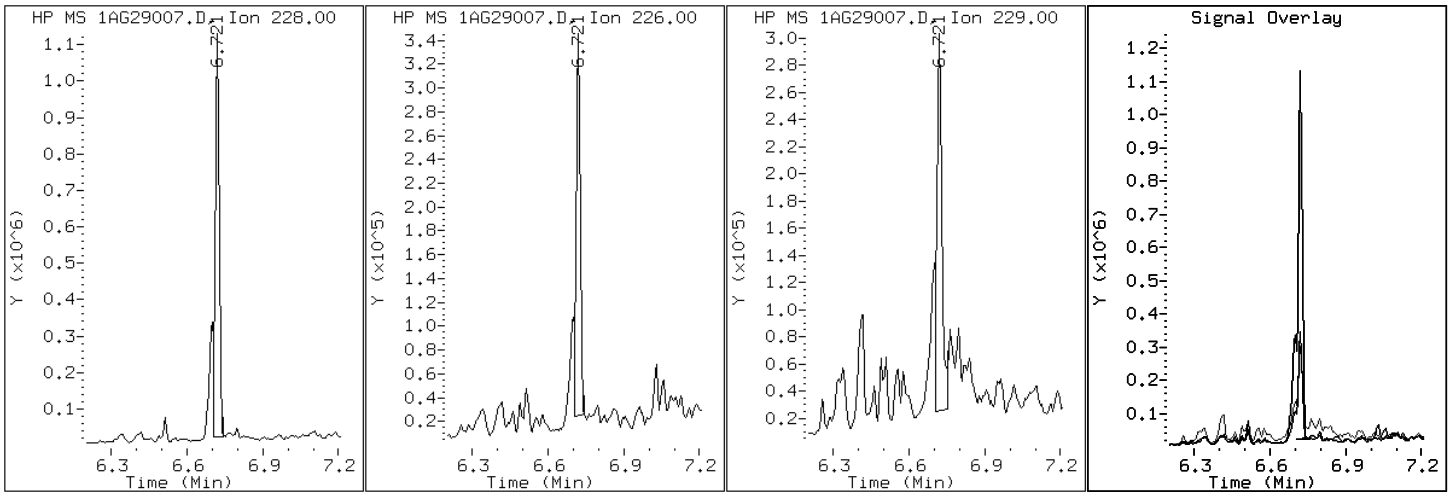
Data File: 1AG29007.D

Date: 29-JUL-2013 13:33

Client ID: Instrument: BSMA5973.i

Sample Info: 680-92626-a-1-a Operator: SCC

20 Chrysene



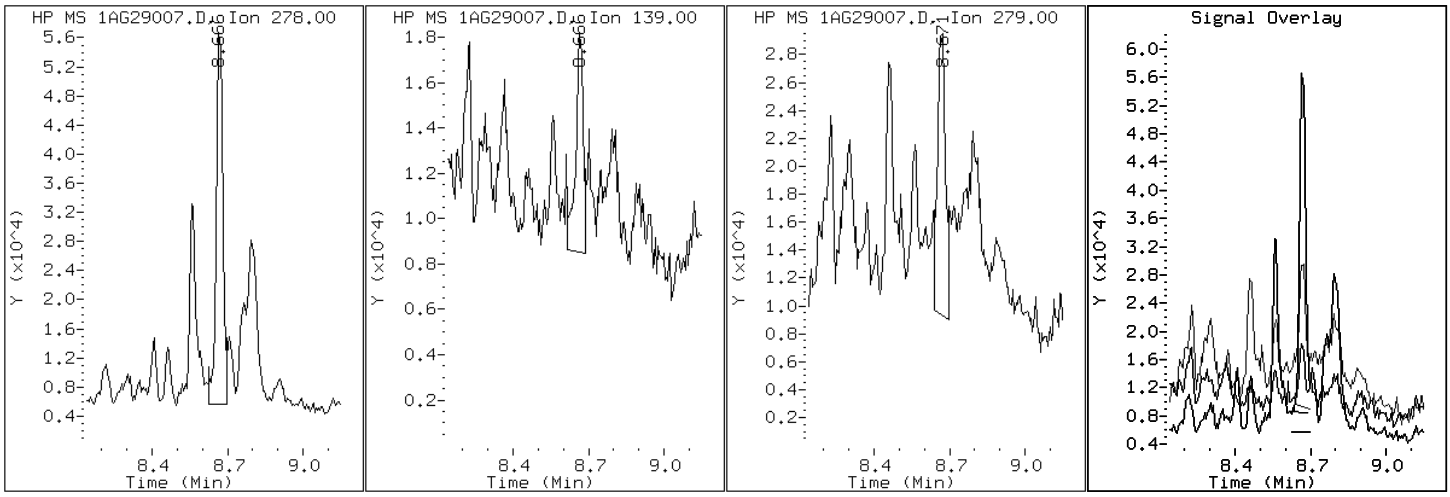
Data File: 1AG29007.D

Date: 29-JUL-2013 13:33

Client ID: Instrument: BSMA5973.i

Sample Info: 680-92626-a-1-a Operator: SCC

26 Dibenzo(a,h)anthracene



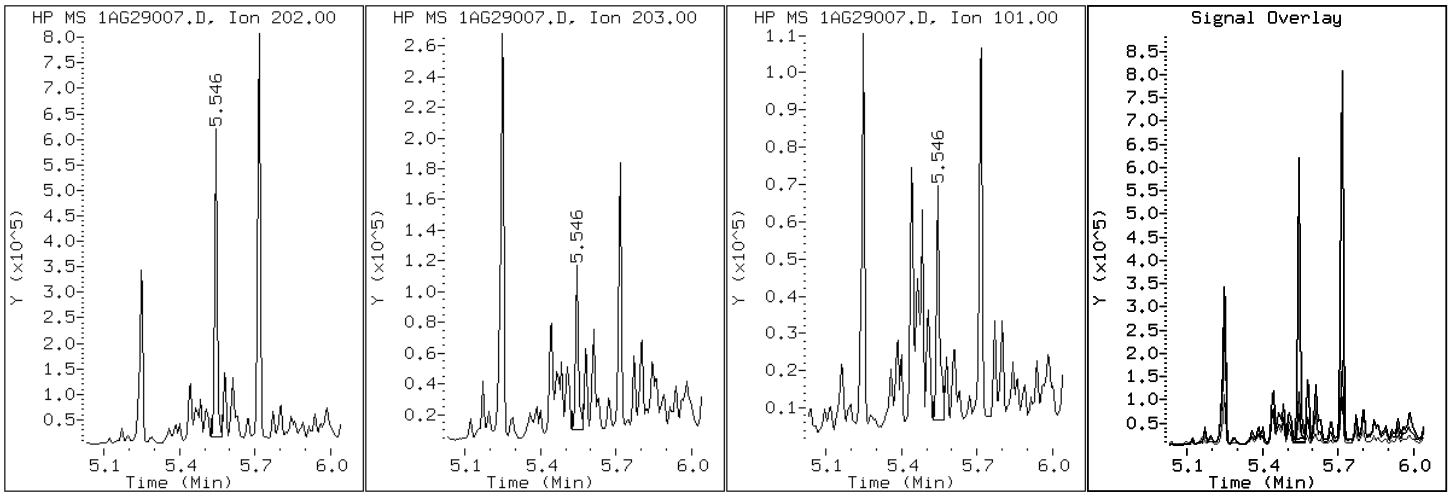
Data File: 1AG29007.D

Date: 29-JUL-2013 13:33

Client ID: Instrument: BSMA5973.i

Sample Info: 680-92626-a-1-a Operator: SCC

16 Fluoranthene



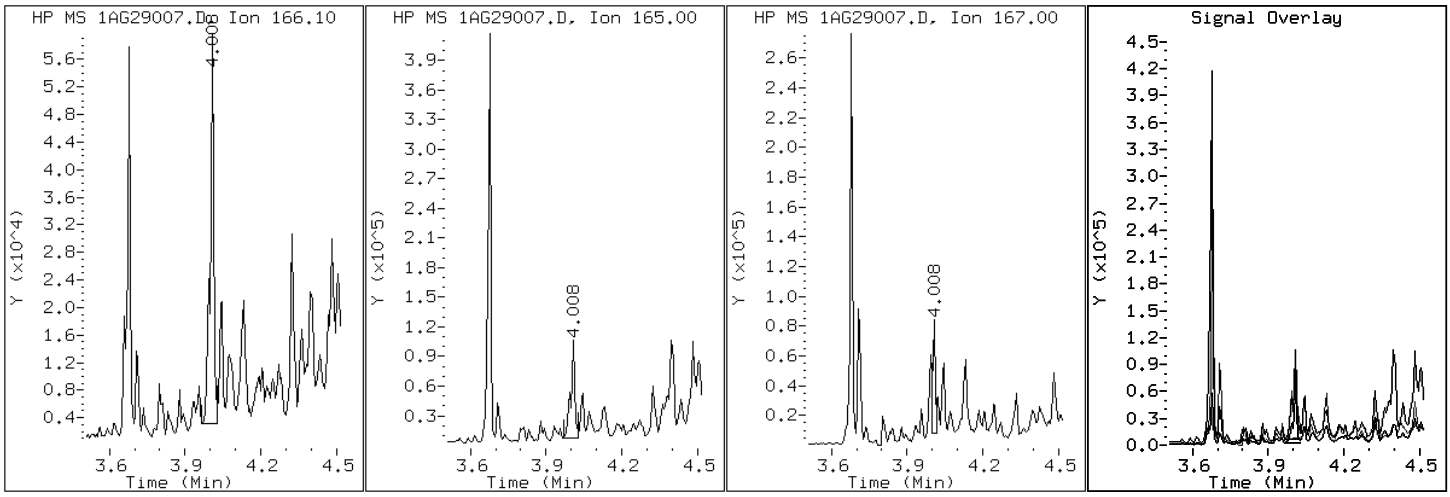
Data File: 1AG29007.D

Date: 29-JUL-2013 13:33

Client ID: Instrument: BSMA5973.i

Sample Info: 680-92626-a-1-a Operator: SCC

10 Fluorene



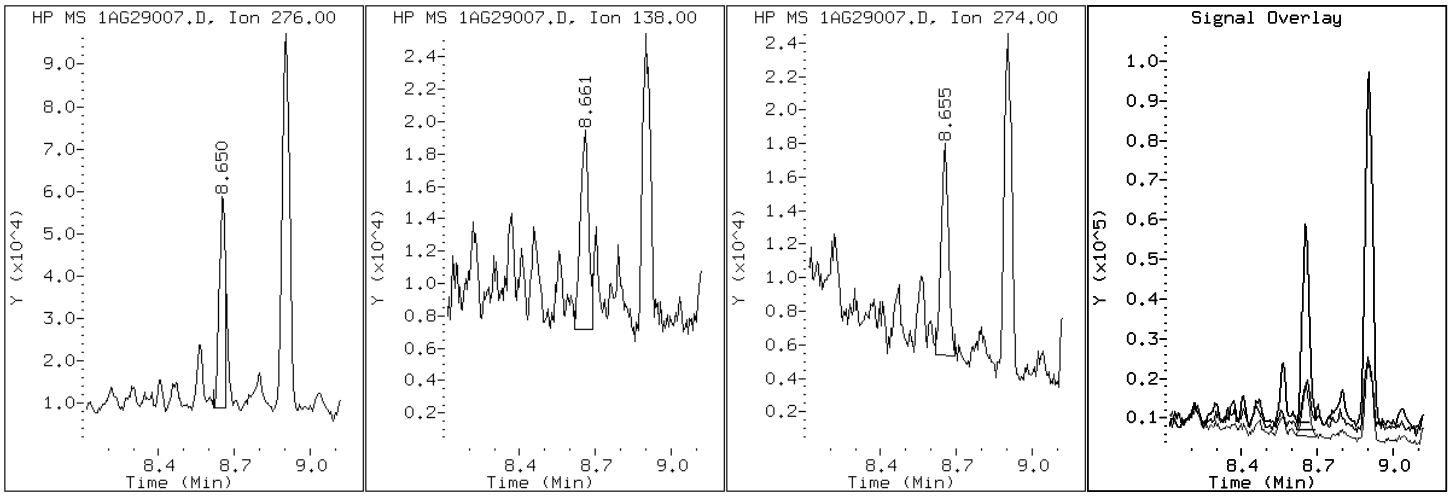
Data File: 1AG29007.D

Date: 29-JUL-2013 13:33

Client ID: Instrument: BSMA5973.i

Sample Info: 680-92626-a-1-a Operator: SCC

25 Indeno(1,2,3-cd)pyrene



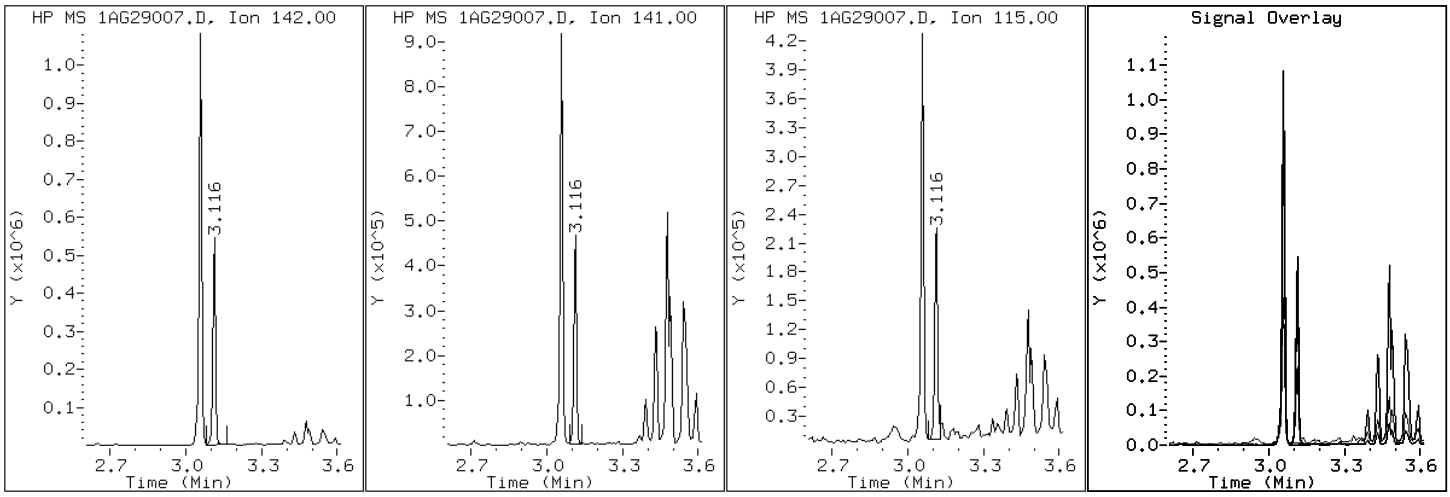
Data File: 1AG29007.D

Date: 29-JUL-2013 13:33

Client ID: Instrument: BSMA5973.i

Sample Info: 680-92626-a-1-a Operator: SCC

4 1-Methylnaphthalene



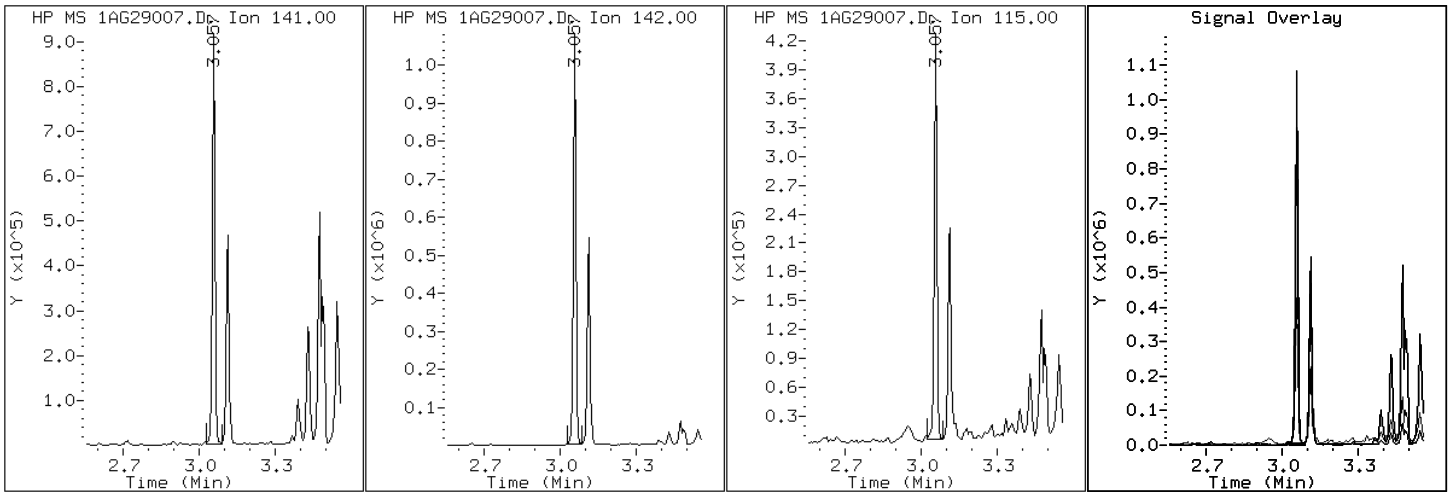
Data File: 1AG29007.D

Date: 29-JUL-2013 13:33

Client ID: Instrument: BSMA5973.i

Sample Info: 680-92626-a-1-a Operator: SCC

3 2-Methylnaphthalene



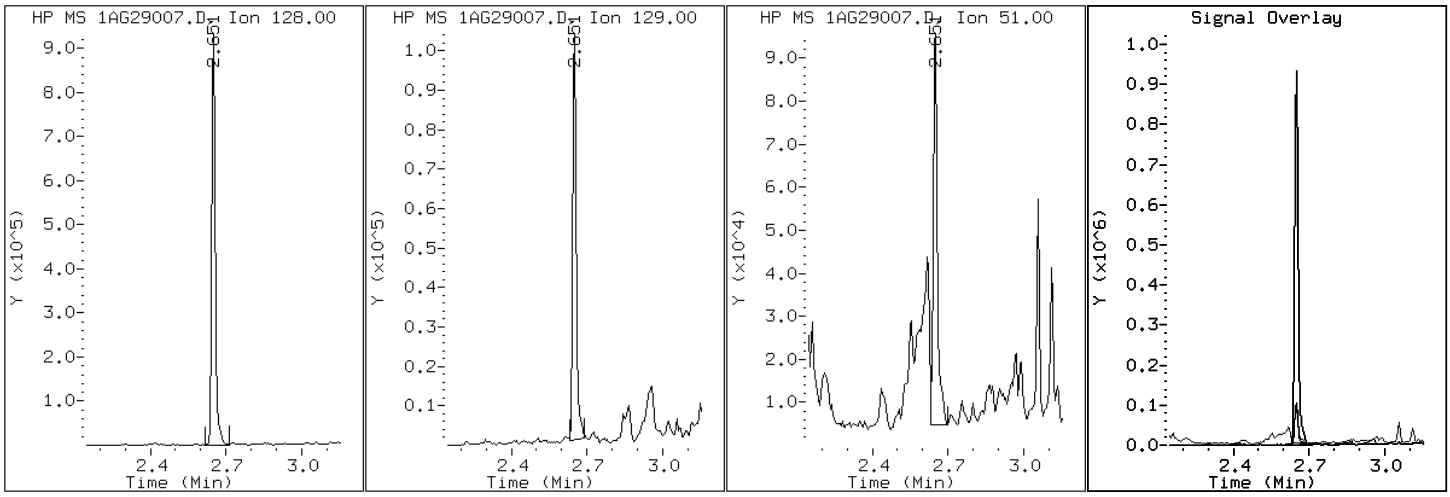
Data File: 1AG29007.D

Date: 29-JUL-2013 13:33

Client ID: Instrument: BSMA5973.i

Sample Info: 680-92626-a-1-a Operator: SCC

2 Naphthalene



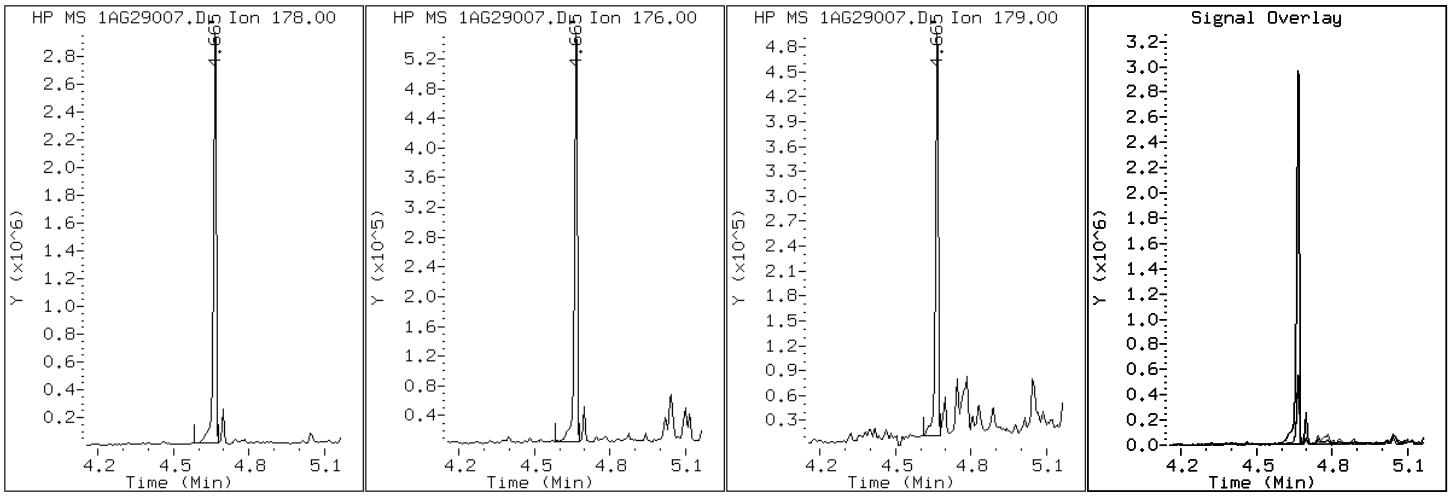
Data File: 1AG29007.D

Date: 29-JUL-2013 13:33

Client ID: Instrument: BSMA5973.i

Sample Info: 680-92626-a-1-a Operator: SCC

12 Phenanthrene



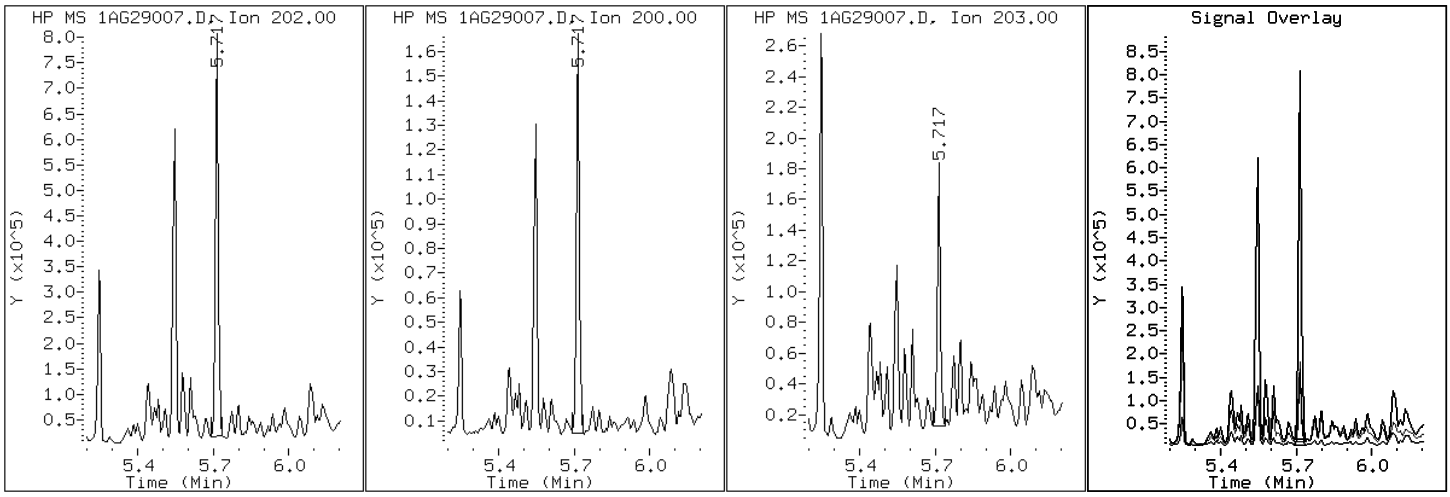
Data File: 1AG29007.D

Date: 29-JUL-2013 13:33

Client ID: Instrument: BSMA5973.i

Sample Info: 680-92626-a-1-a Operator: SCC

17 Pyrene



Manual Integration Report

Data File: 1AG29007.D
Inj. Date and Time: 29-JUL-2013 13:33
Instrument ID: BSMA5973.i
Client ID:
Compound: 21 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 07/30/2013

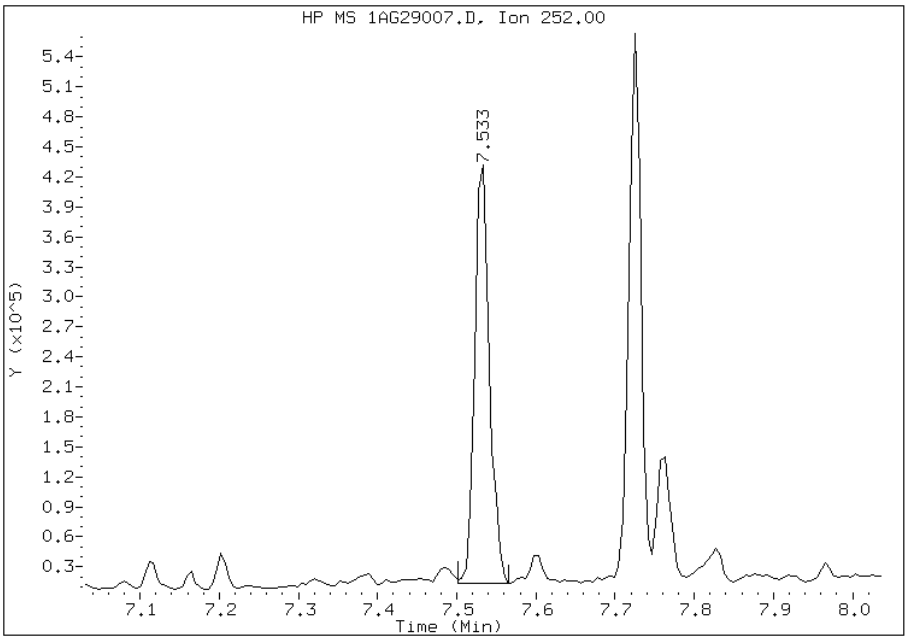
Processing Integration Results

RT: 7.53

Response: 530946

Amount: 5

Conc: 474



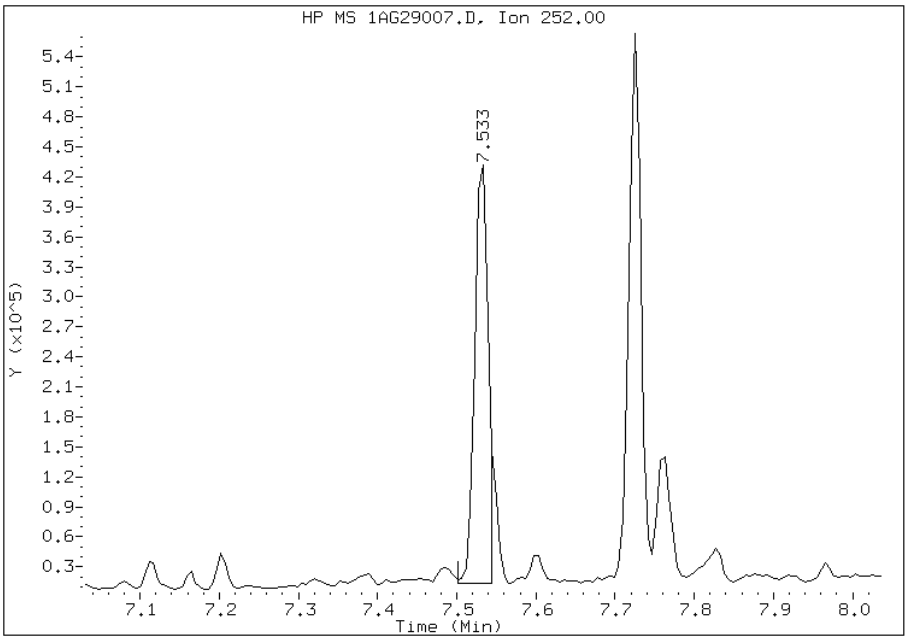
Manual Integration Results

RT: 7.53

Response: 490902

Amount: 5

Conc: 439



Manually Integrated By: cantins
Modification Date: 30-Jul-2013 12:27
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AG29007.D
Inj. Date and Time: 29-JUL-2013 13:33
Instrument ID: BSMA5973.i
Client ID:
Compound: 22 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 07/30/2013

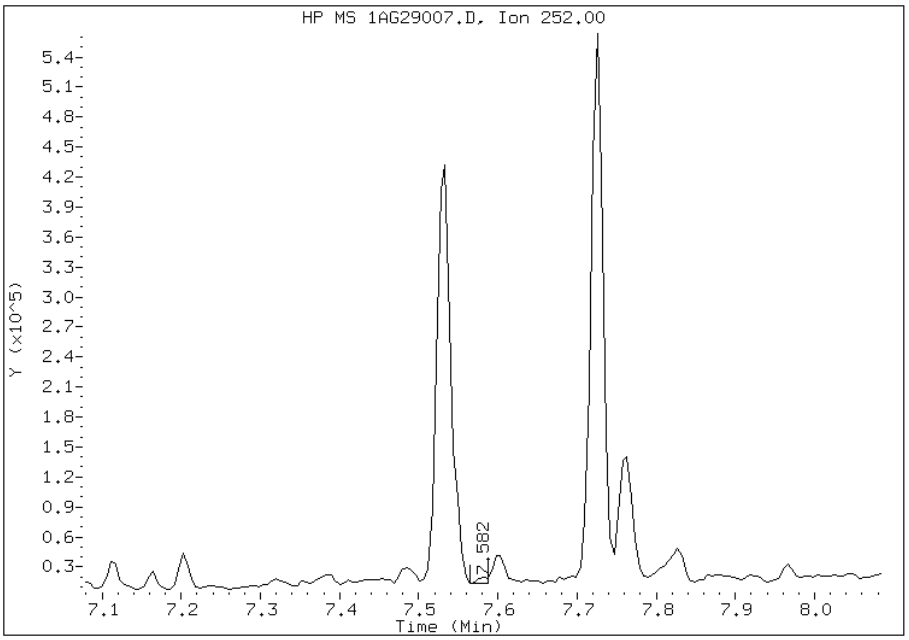
Processing Integration Results

RT: 7.58

Response: 5260

Amount: 0

Conc: 5



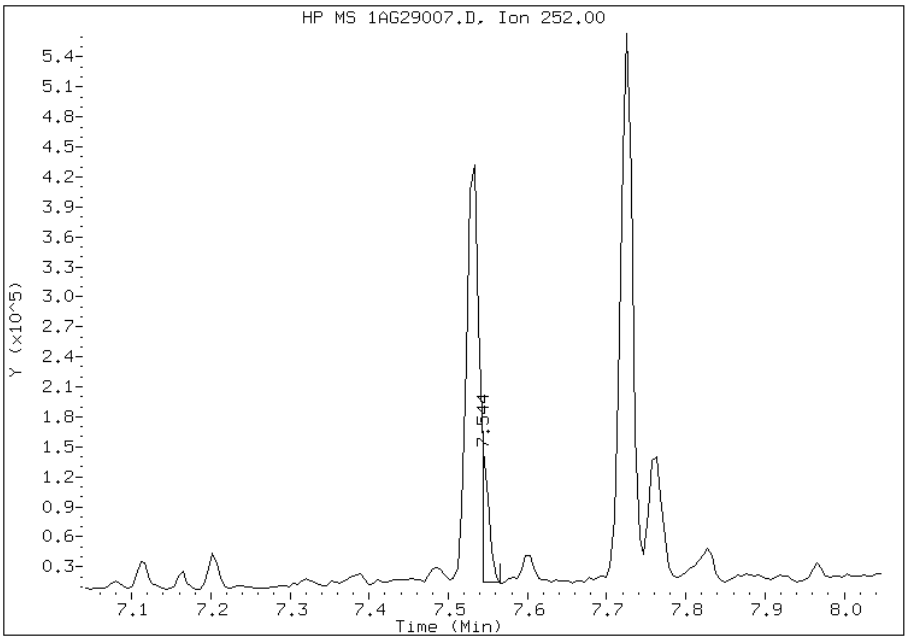
Manual Integration Results

RT: 7.54

Response: 81117

Amount: 1

Conc: 70



Manually Integrated By: cantins
Modification Date: 30-Jul-2013 12:30
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AG29007.D
Inj. Date and Time: 29-JUL-2013 13:33
Instrument ID: BSMA5973.i
Client ID:
Compound: 25 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 07/30/2013

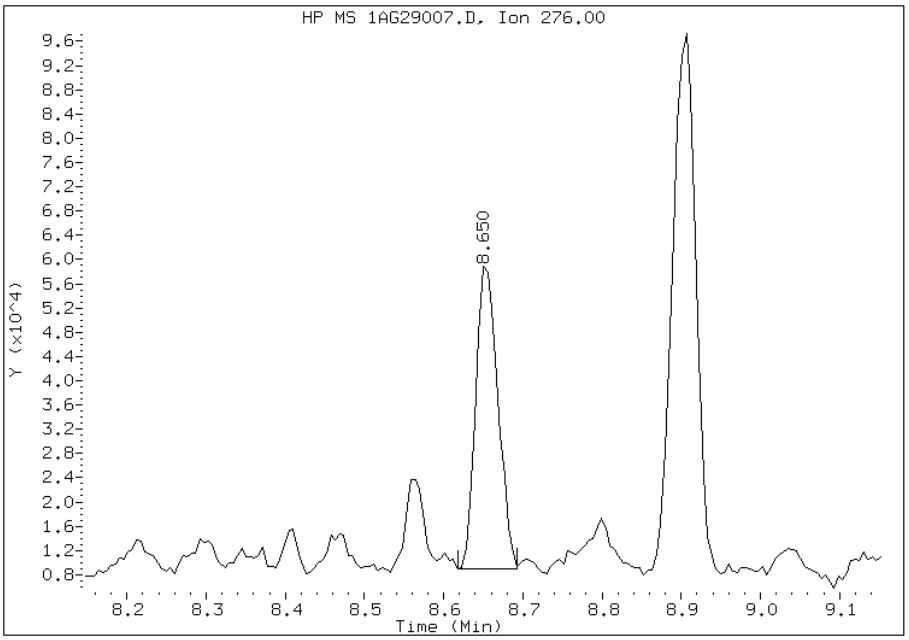
Processing Integration Results

RT: 8.65

Response: 95646

Amount: 1

Conc: 106



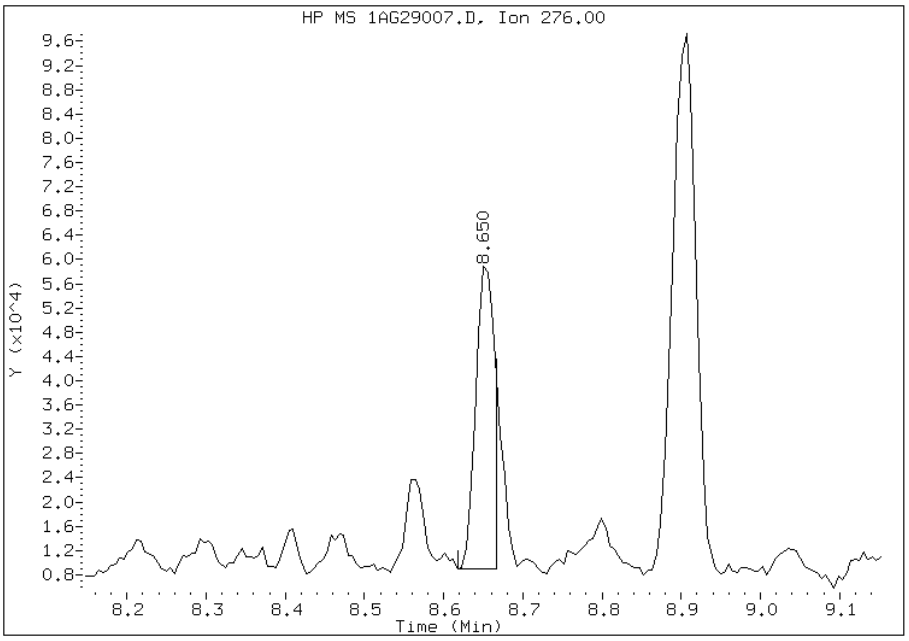
Manual Integration Results

RT: 8.65

Response: 80531

Amount: 1

Conc: 89



Manually Integrated By: cantins
Modification Date: 30-Jul-2013 12:30
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-92626-1

SDG No.: 680-92626-01

Client Sample ID: CV0256A-VGSO-CSD | Lab Sample ID: 680-92626-2

Matrix: Solid | Lab File ID: 1AG30034.D

Analysis Method: 8270C LL | Date Collected: 07/23/2013 11:35

Extract. Method: 3546 | Date Extracted: 07/26/2013 14:59

Sample wt/vol: 15.05(g) | Date Analyzed: 07/30/2013 22:41

Con. Extract Vol.: 1(mL) | Dilution Factor: 4

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 24.3 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 139910 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	530	U	530	110
208-96-8	Acenaphthylene	210	U	210	26
120-12-7	Anthracene	82		44	22
56-55-3	Benzo[a]anthracene	160		42	21
50-32-8	Benzo[a]pyrene	60		55	27
205-99-2	Benzo[b]fluoranthene	140		64	32
191-24-2	Benzo[g,h,i]perylene	74	J	110	23
207-08-9	Benzo[k]fluoranthene	26	J	42	19
218-01-9	Chrysene	530		47	24
53-70-3	Dibenz(a,h)anthracene	31	J	110	22
206-44-0	Fluoranthene	220		110	21
86-73-7	Fluorene	26	J	110	22
193-39-5	Indeno[1,2,3-cd]pyrene	43	J	110	37
90-12-0	1-Methylnaphthalene	400		210	23
91-57-6	2-Methylnaphthalene	830		210	37
91-20-3	Naphthalene	710		210	23
85-01-8	Phenanthrene	1100		42	21
129-00-0	Pyrene	270		110	19

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	23	X	30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A073013.b\1AG30034.D
Lab Smp Id: 680-92626-A-2-A Client Smp ID: CV0256A-VGSO-CSD
Inj Date : 30-JUL-2013 22:41
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-92626-a-2-a
Misc Info : 680-92626-A-2-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A073013.b\a-bFASTPAHi-m.m
Meth Date : 31-Jul-2013 10:07 cantins Quant Type: ISTD
Cal Date : 07-JUL-2013 15:46 Cal File: 1AG07012.D
Als bottle: 31
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:
Amt * DF * 1/Vi * Vt/Ws * 100/(100 - M) * A * B * C * D * GPC * CpndVariable

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.050	Weight Extracted
M	24.296	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	2.639	2.634	(1.000)	2218230	40.0000	
* 7 Acenaphthene-d10	164	3.670	3.670	(1.000)	1311282	40.0000	
* 11 Phenanthrene-d10	188	4.643	4.643	(1.000)	1929898	40.0000	
$ 15 o-Terphenyl	230	4.936	4.937	(1.063)	16621	0.56676	198.9786(R)
* 19 Chrysene-d12	240	6.694	6.689	(1.000)	1737721	40.0000	
* 24 Perylene-d12	264	7.794	7.784	(1.000)	1958198	40.0000	
2 Naphthalene	128	2.650	2.650	(1.004)	100643	2.00811	705.0057
3 2-Methylnaphthalene	141	3.051	3.056	(1.156)	67270	2.35261	825.9502
4 1-Methylnaphthalene	142	3.109	3.109	(1.178)	38423	1.15079	404.0176
6 Acenaphthylene	152	3.580	3.580	(0.975)	3382	0.05782	20.2986(Q)
10 Fluorene	166	4.007	4.007	(1.092)	3089	0.07532	26.4426(Q)
12 Phenanthrene	178	4.653	4.659	(1.002)	158421	3.22535	1132.3526
13 Anthracene	178	4.685	4.691	(1.009)	11992	0.23413	82.1994
16 Fluoranthene	202	5.529	5.535	(1.191)	36740	0.62162	218.2372

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
17 Pyrene	202	5.700	5.700	(0.852)	44554	0.77016	270.3875
18 Benzo(a)anthracene	228	6.683	6.673	(0.998)	31515	0.46758	164.1575(Q)
20 Chrysene	228	6.705	6.705	(1.002)	71084	1.51004	530.1426
21 Benzo(b)fluoranthene	252	7.506	7.501	(0.963)	21563	0.38683	135.8070(M)
22 Benzo(k)fluoranthene	252	7.522	7.527	(0.965)	4309	0.07487	26.2838(QMH)
23 Benzo(a)pyrene	252	7.736	7.736	(0.992)	8809	0.17088	59.9926
25 Indeno(1,2,3-cd)pyrene	276	8.606	8.607	(1.104)	5549	0.12345	43.3408(M)
26 Dibenzo(a,h)anthracene	278	8.633	8.633	(1.108)	3728	0.08772	30.7963
27 Benzo(g,h,i)perylene	276	8.847	8.847	(1.135)	8975	0.21060	73.9364

QC Flag Legend

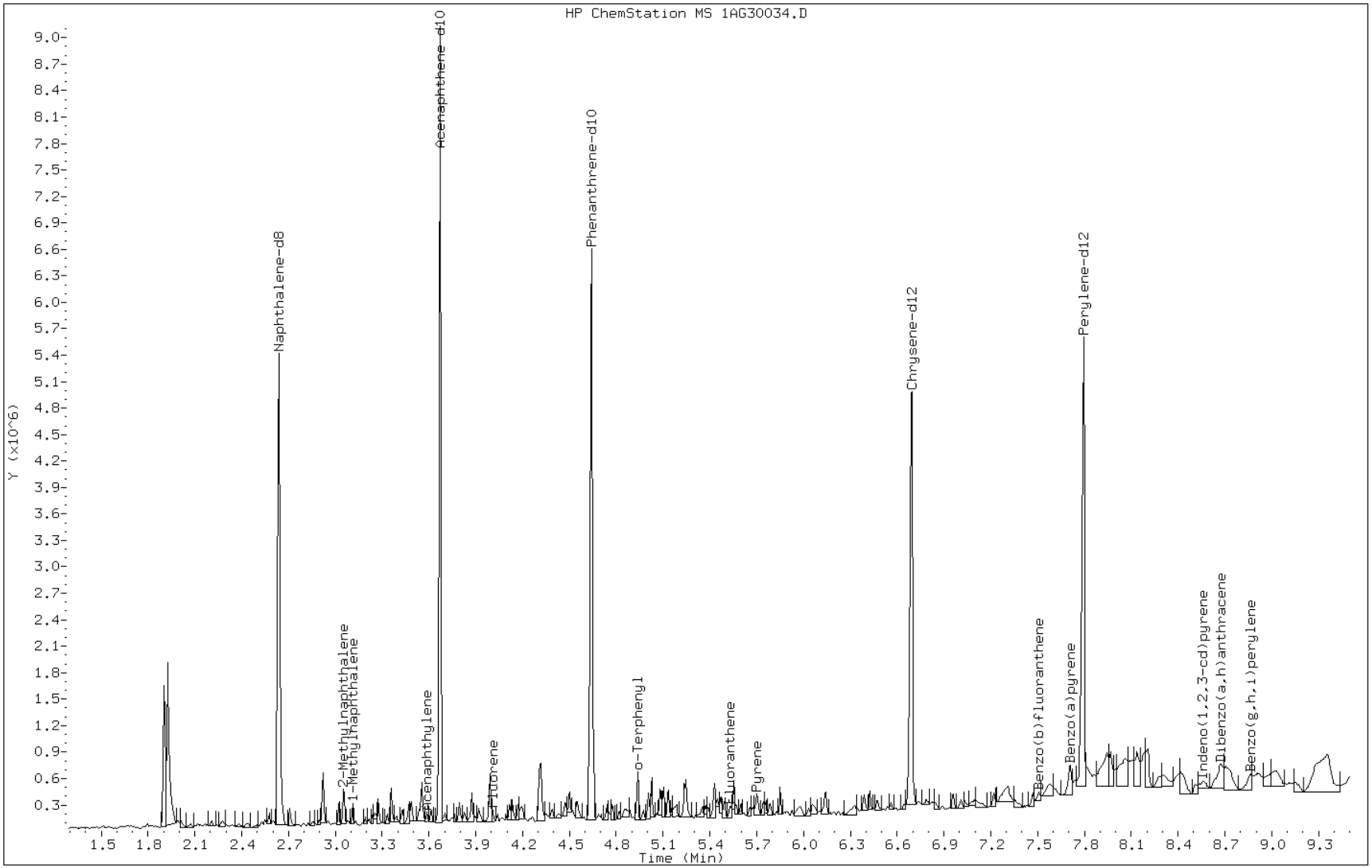
Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1AG30034.D

Date: 30-JUL-2013 22:41

Client ID: CV0256A-VGSO-CSD Instrument: BSMA5973.i

Sample Info: 680-92626-a-2-a Operator: SCC



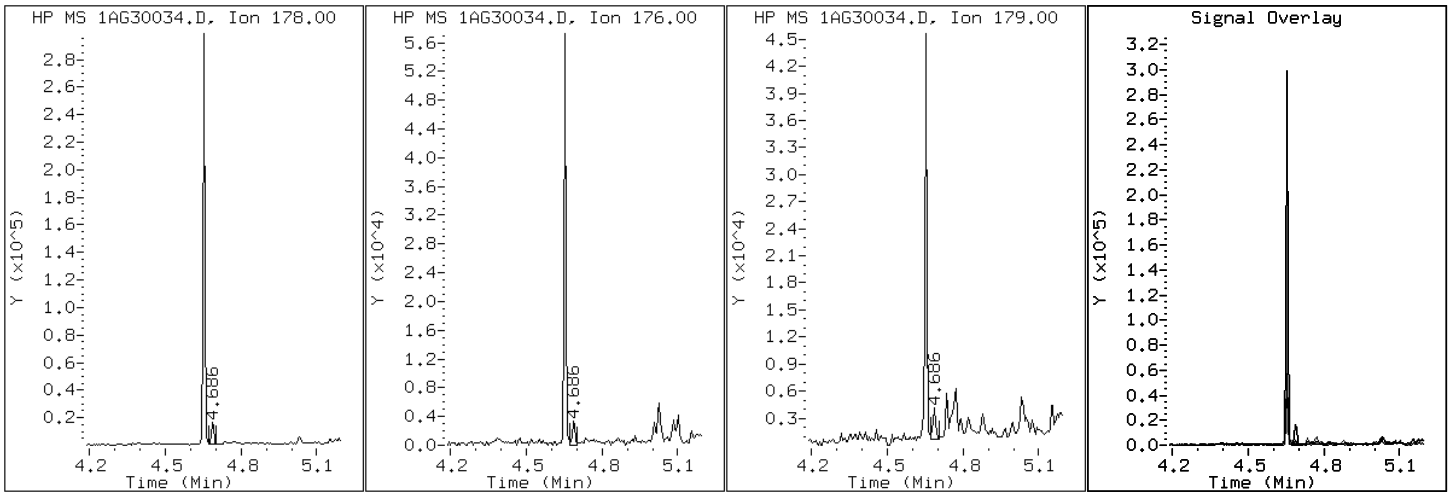
Data File: 1AG30034.D

Date: 30-JUL-2013 22:41

Client ID: CV0256A-VGSO-CSD Instrument: BSMA5973.i

Sample Info: 680-92626-a-2-a Operator: SCC

13 Anthracene



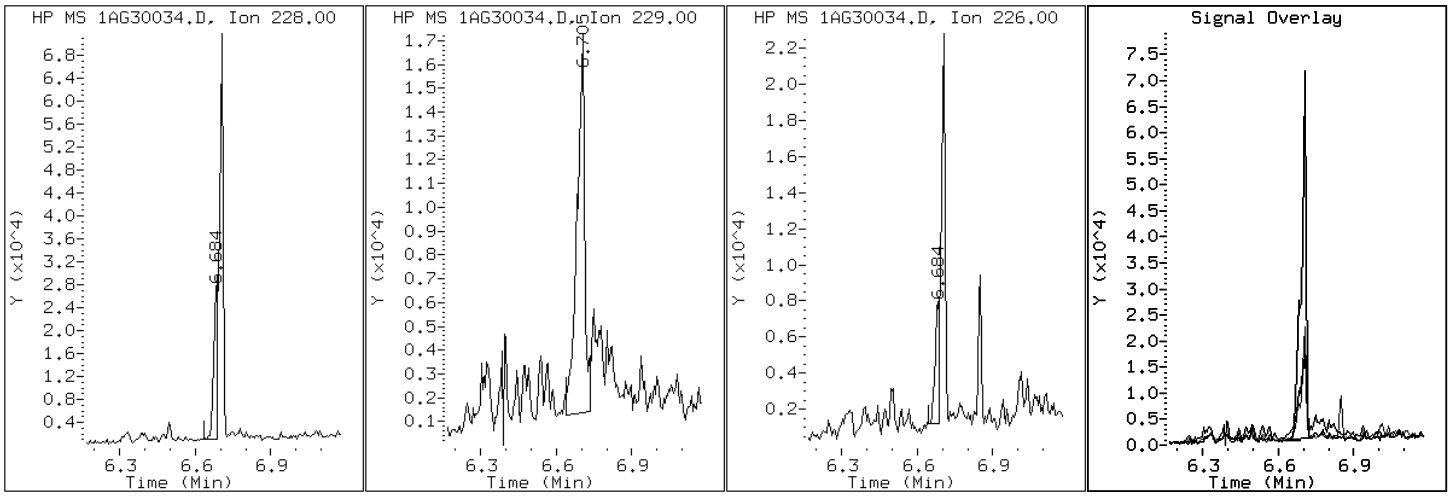
Data File: 1AG30034.D

Date: 30-JUL-2013 22:41

Client ID: CV0256A-VGSO-CSD Instrument: BSMA5973.i

Sample Info: 680-92626-a-2-a Operator: SCC

18 Benzo(a)anthracene



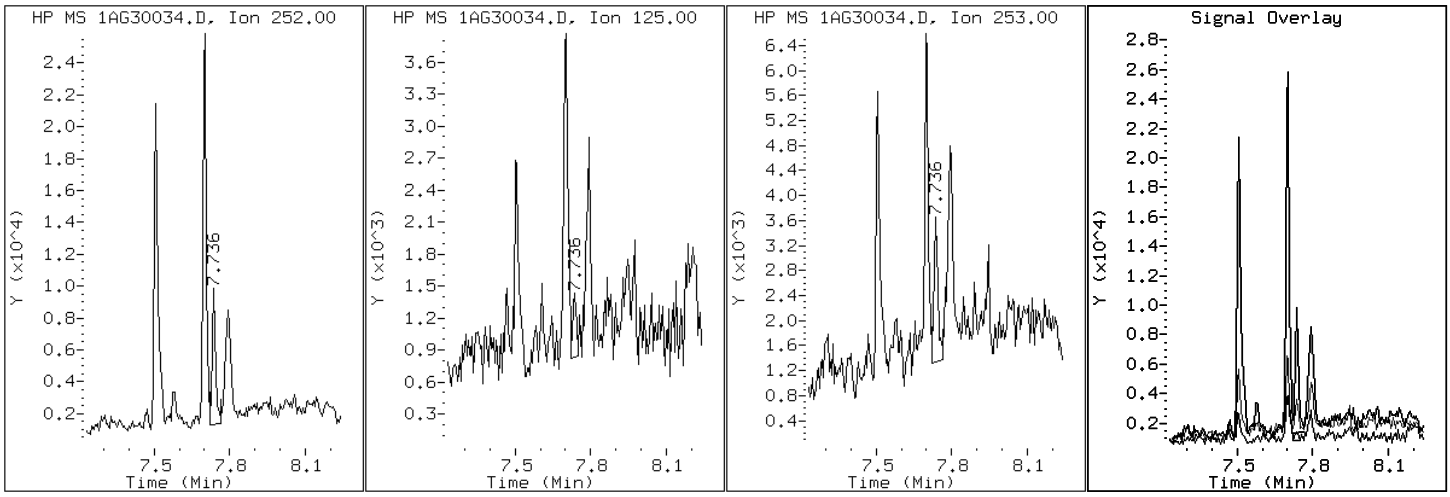
Data File: 1AG30034.D

Date: 30-JUL-2013 22:41

Client ID: CV0256A-VGSO-CSD Instrument: BSMA5973.i

Sample Info: 680-92626-a-2-a Operator: SCC

23 Benzo(a)pyrene



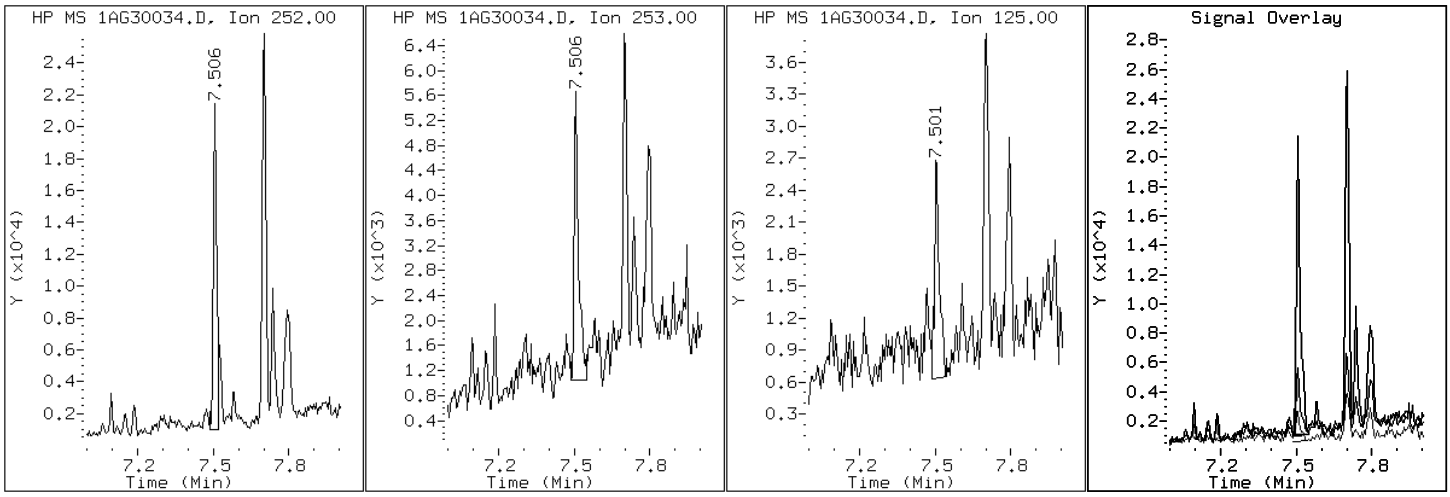
Data File: 1AG30034.D

Date: 30-JUL-2013 22:41

Client ID: CV0256A-VGSO-CSD Instrument: BSMA5973.i

Sample Info: 680-92626-a-2-a Operator: SCC

21 Benzo(b)fluoranthene



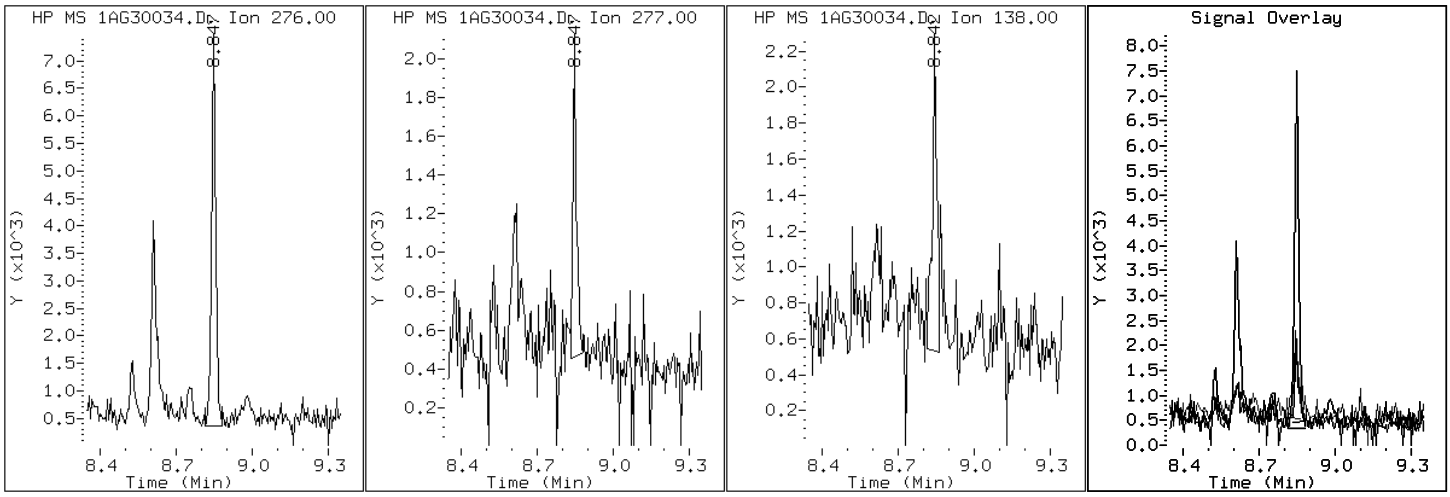
Data File: 1AG30034.D

Date: 30-JUL-2013 22:41

Client ID: CV0256A-VGSO-CSD Instrument: BSMA5973.i

Sample Info: 680-92626-a-2-a Operator: SCC

27 Benzo(g,h,i)perylene



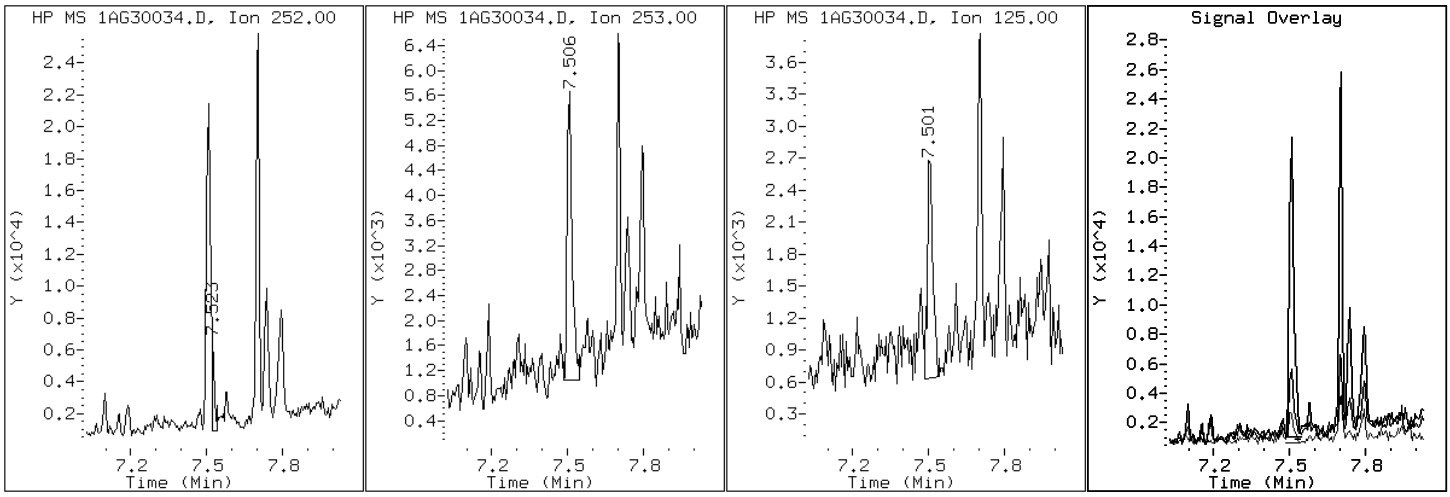
Data File: 1AG30034.D

Date: 30-JUL-2013 22:41

Client ID: CV0256A-VGSO-CSD Instrument: BSMA5973.i

Sample Info: 680-92626-a-2-a Operator: SCC

22 Benzo(k)fluoranthene



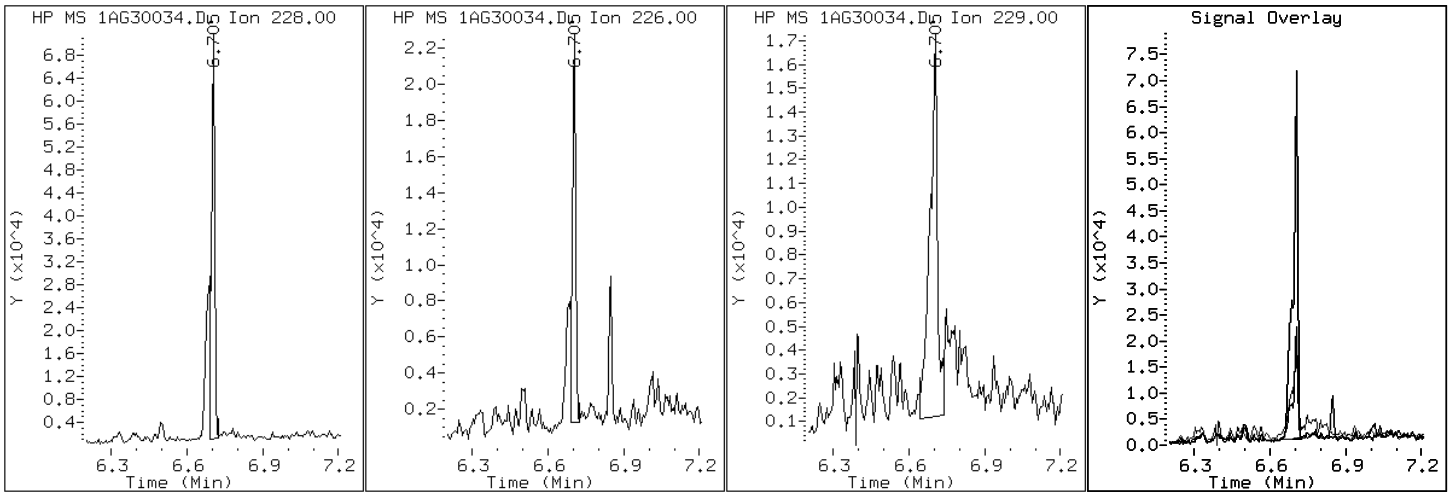
Data File: 1AG30034.D

Date: 30-JUL-2013 22:41

Client ID: CV0256A-VGSO-CSD Instrument: BSMA5973.i

Sample Info: 680-92626-a-2-a Operator: SCC

20 Chrysene



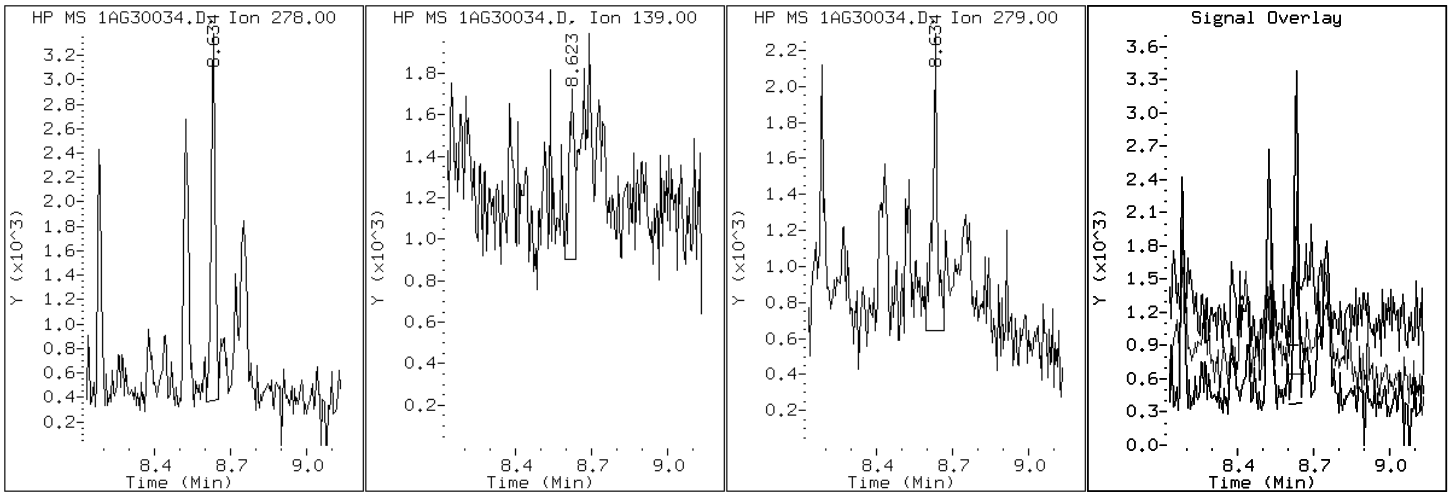
Data File: 1AG30034.D

Date: 30-JUL-2013 22:41

Client ID: CV0256A-VGSO-CSD Instrument: BSMA5973.i

Sample Info: 680-92626-a-2-a Operator: SCC

26 Dibenzo(a,h)anthracene



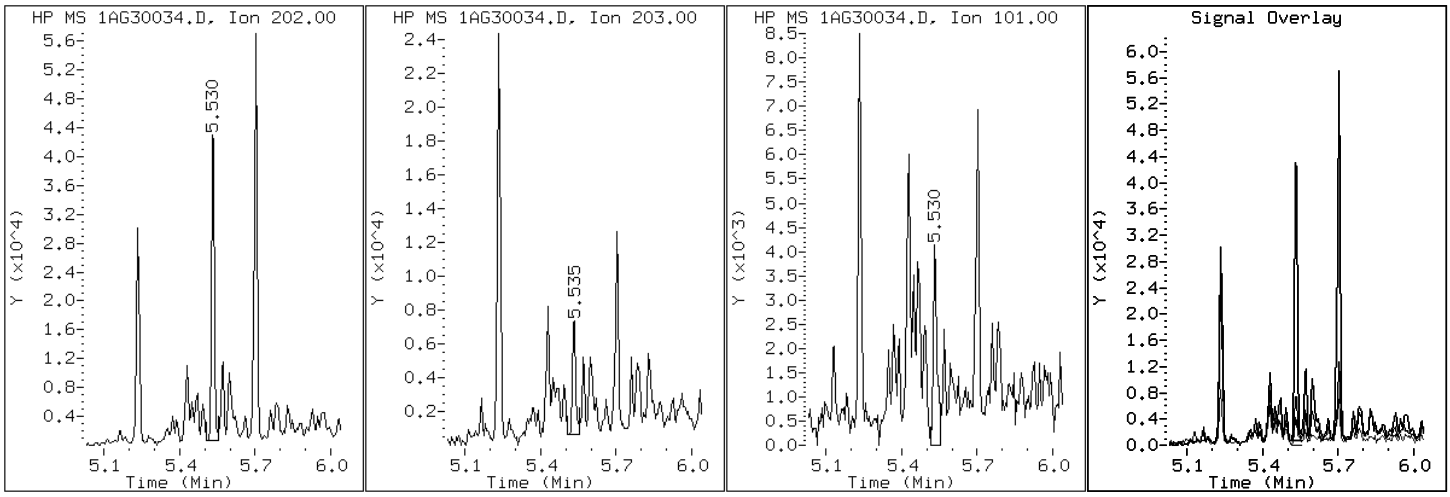
Data File: 1AG30034.D

Date: 30-JUL-2013 22:41

Client ID: CV0256A-VGSO-CSD Instrument: BSMA5973.i

Sample Info: 680-92626-a-2-a Operator: SCC

16 Fluoranthene



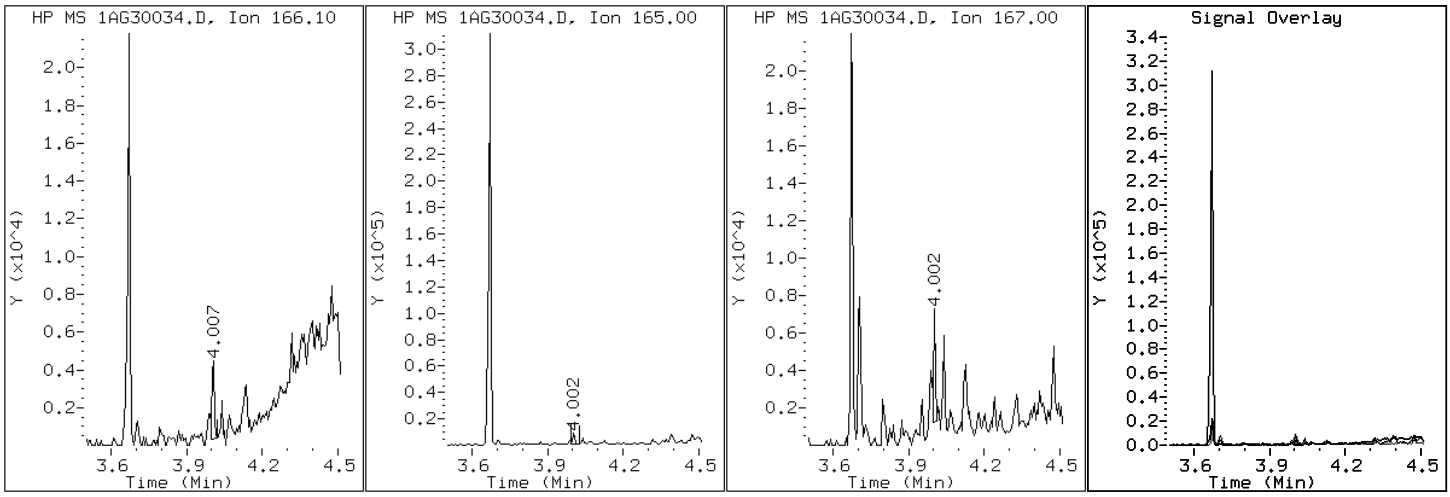
Data File: 1AG30034.D

Date: 30-JUL-2013 22:41

Client ID: CV0256A-VGSO-CSD Instrument: BSMA5973.i

Sample Info: 680-92626-a-2-a Operator: SCC

10 Fluorene



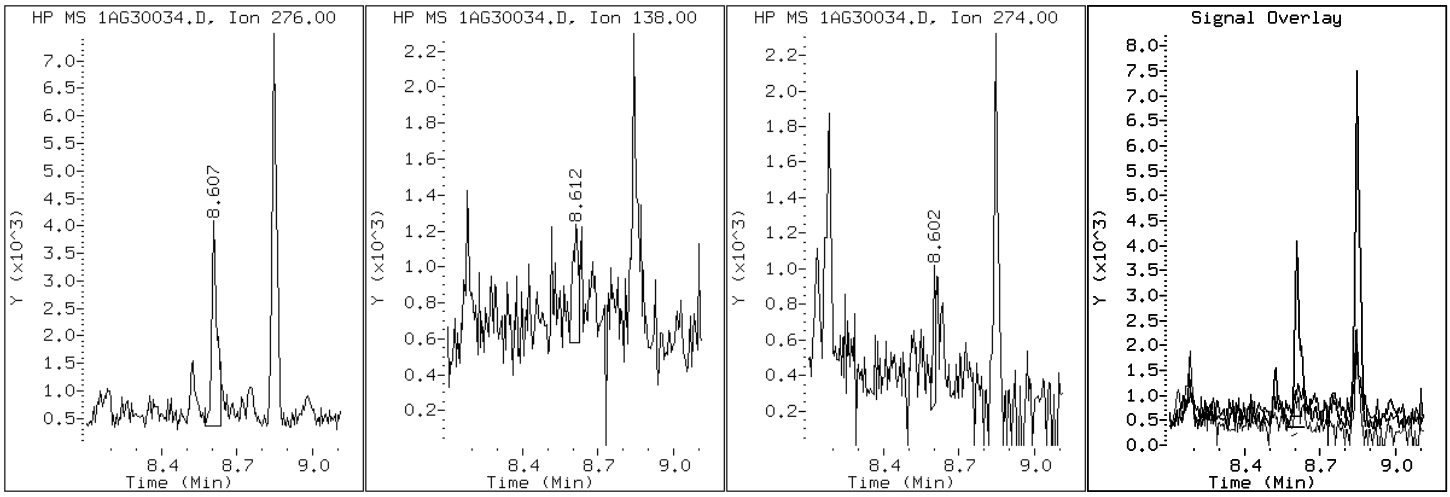
Data File: 1AG30034.D

Date: 30-JUL-2013 22:41

Client ID: CV0256A-VGSO-CSD Instrument: BSMA5973.i

Sample Info: 680-92626-a-2-a Operator: SCC

25 Indeno(1,2,3-cd)pyrene



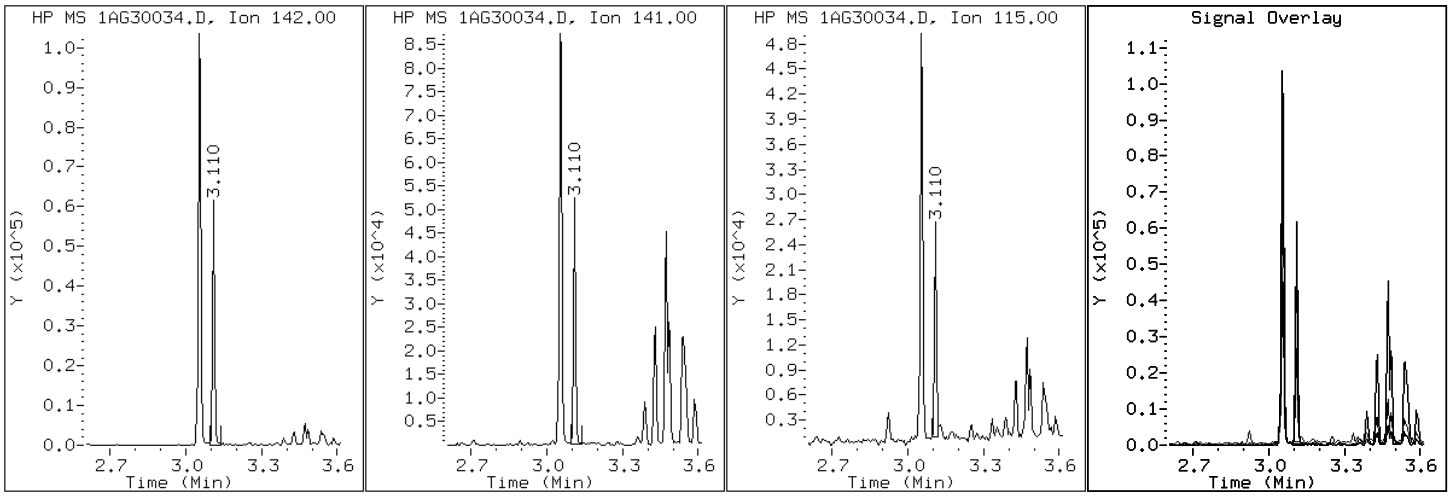
Data File: 1AG30034.D

Date: 30-JUL-2013 22:41

Client ID: CV0256A-VGSO-CSD Instrument: BSMA5973.i

Sample Info: 680-92626-a-2-a Operator: SCC

4 1-Methylnaphthalene



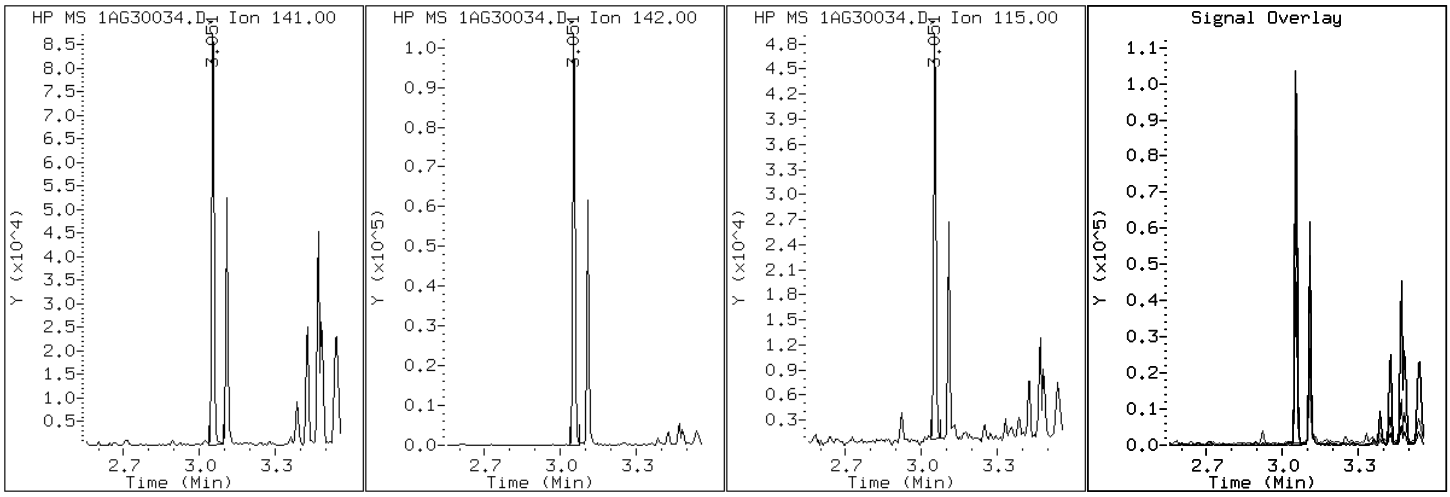
Data File: 1AG30034.D

Date: 30-JUL-2013 22:41

Client ID: CV0256A-VGSO-CSD Instrument: BSMA5973.i

Sample Info: 680-92626-a-2-a Operator: SCC

3 2-Methylnaphthalene



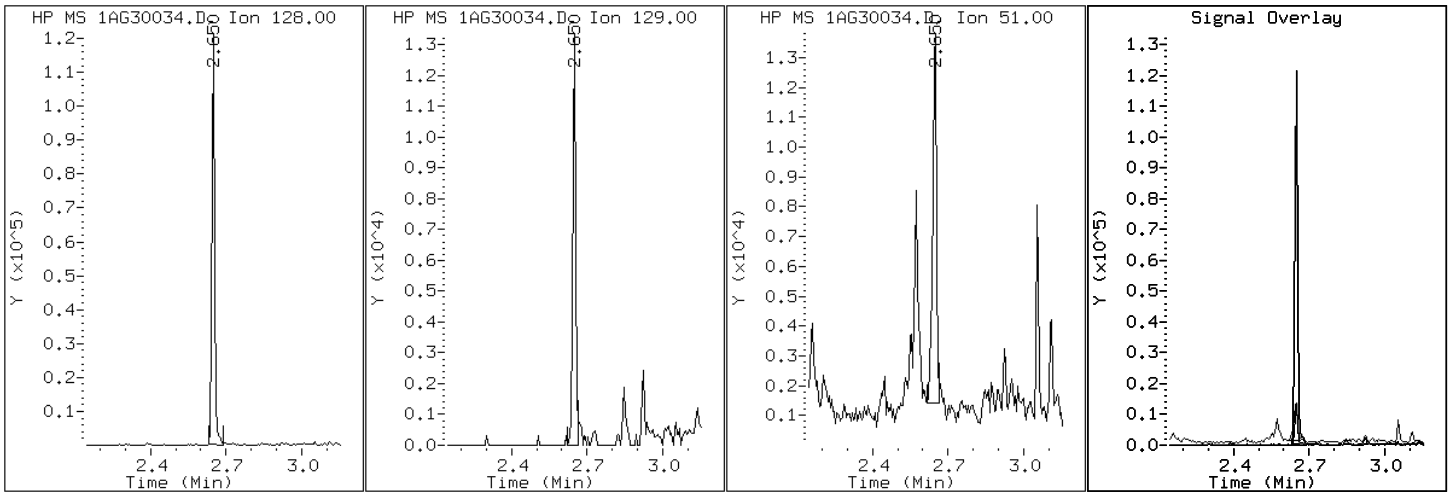
Data File: 1AG30034.D

Date: 30-JUL-2013 22:41

Client ID: CV0256A-VGSO-CSD Instrument: BSMA5973.i

Sample Info: 680-92626-a-2-a Operator: SCC

2 Naphthalene



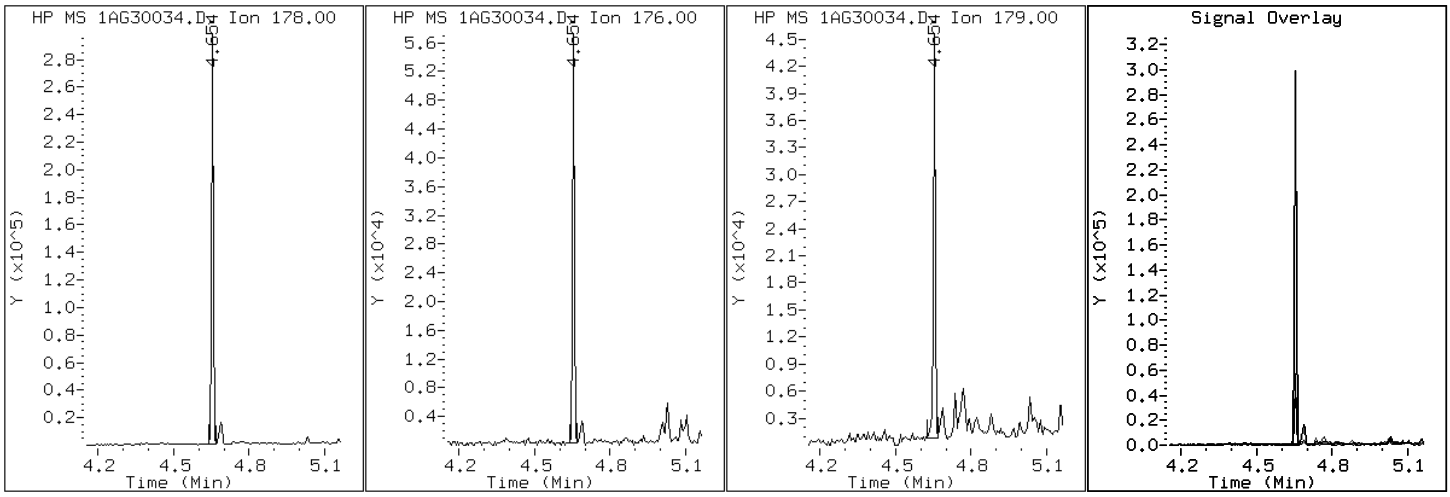
Data File: 1AG30034.D

Date: 30-JUL-2013 22:41

Client ID: CV0256A-VGSO-CSD Instrument: BSMA5973.i

Sample Info: 680-92626-a-2-a Operator: SCC

12 Phenanthrene



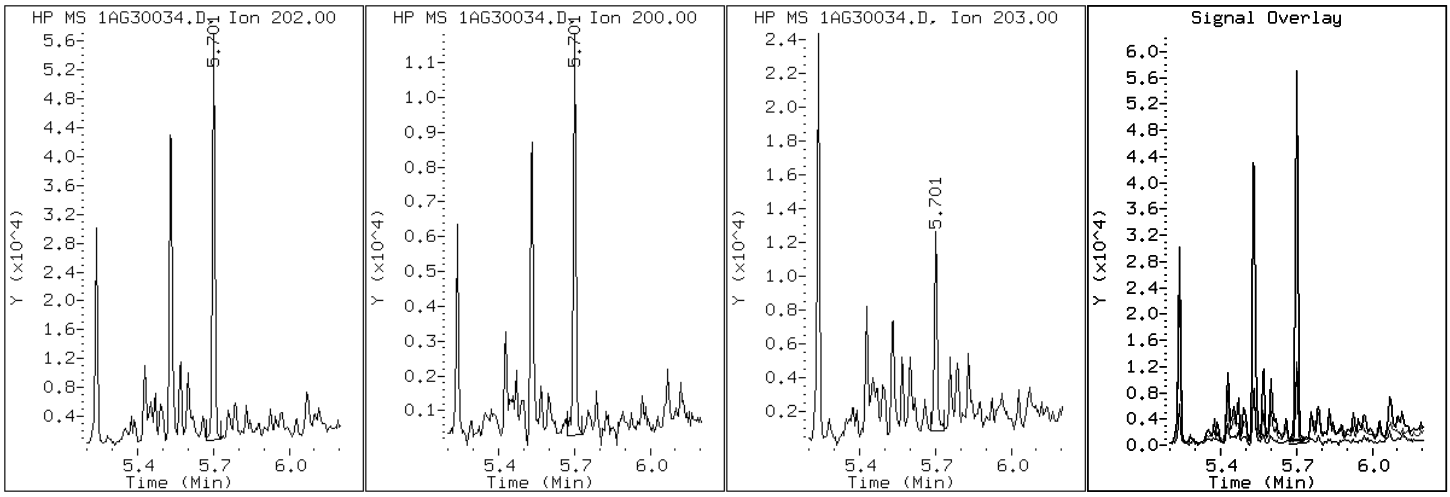
Data File: 1AG30034.D

Date: 30-JUL-2013 22:41

Client ID: CV0256A-VGSO-CSD Instrument: BSMA5973.i

Sample Info: 680-92626-a-2-a Operator: SCC

17 Pyrene



Manual Integration Report

Data File: 1AG30034.D
Inj. Date and Time: 30-JUL-2013 22:41
Instrument ID: BSMA5973.i
Client ID: CV0256A-VGSO-CSD
Compound: 21 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 07/31/2013

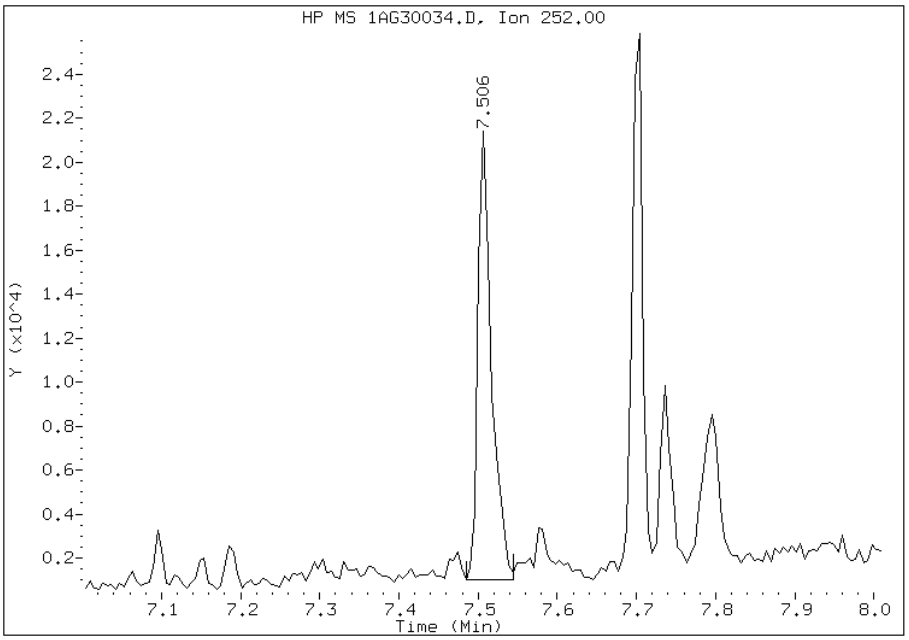
Processing Integration Results

RT: 7.51

Response: 23831

Amount: 0

Conc: 150



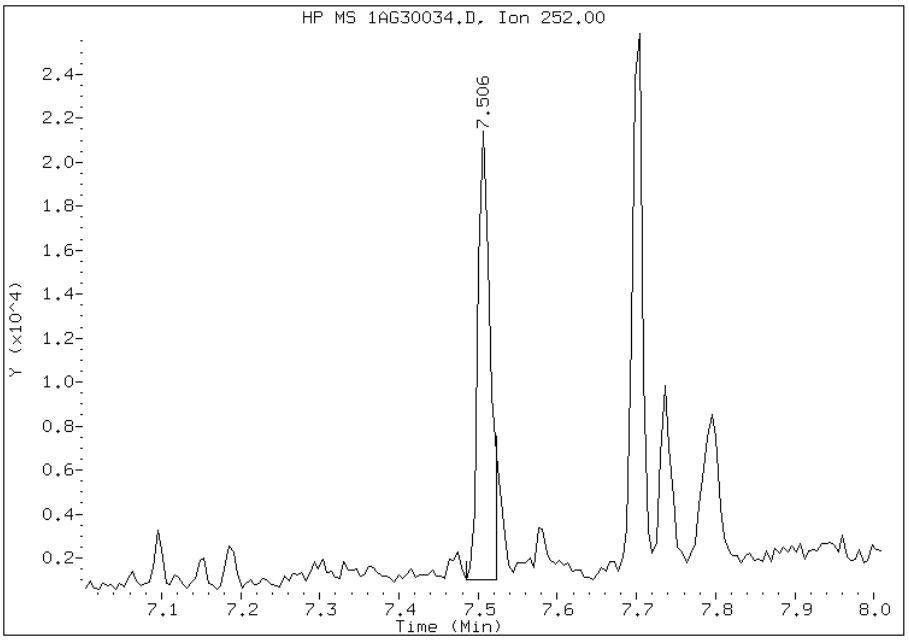
Manual Integration Results

RT: 7.51

Response: 21563

Amount: 0

Conc: 136



Manually Integrated By: cantins
Modification Date: 31-Jul-2013 10:40
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AG30034.D
Inj. Date and Time: 30-JUL-2013 22:41
Instrument ID: BSMA5973.i
Client ID: CV0256A-VGSO-CSD
Compound: 22 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 07/31/2013

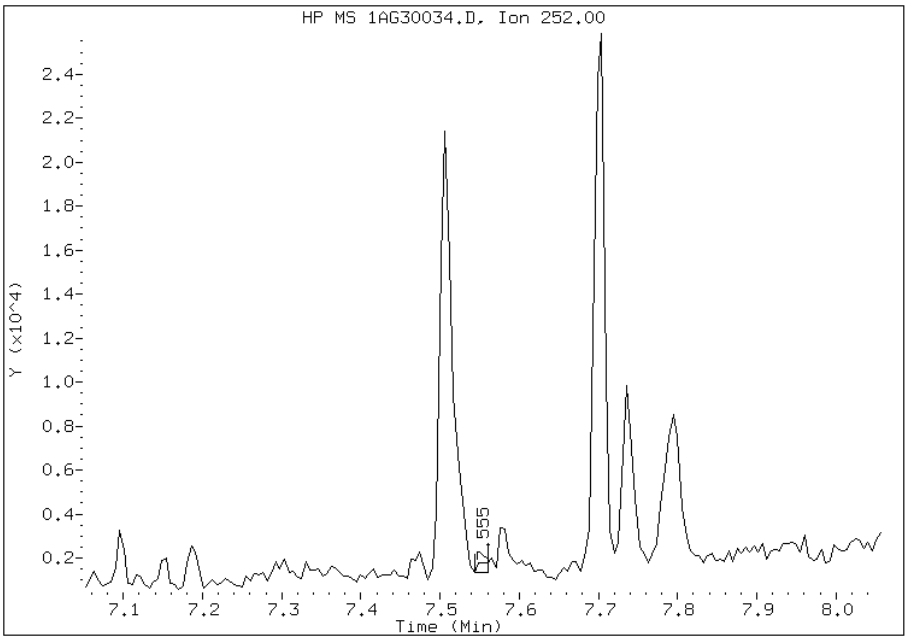
Processing Integration Results

RT: 7.55

Response: 407

Amount: 0

Conc: 2



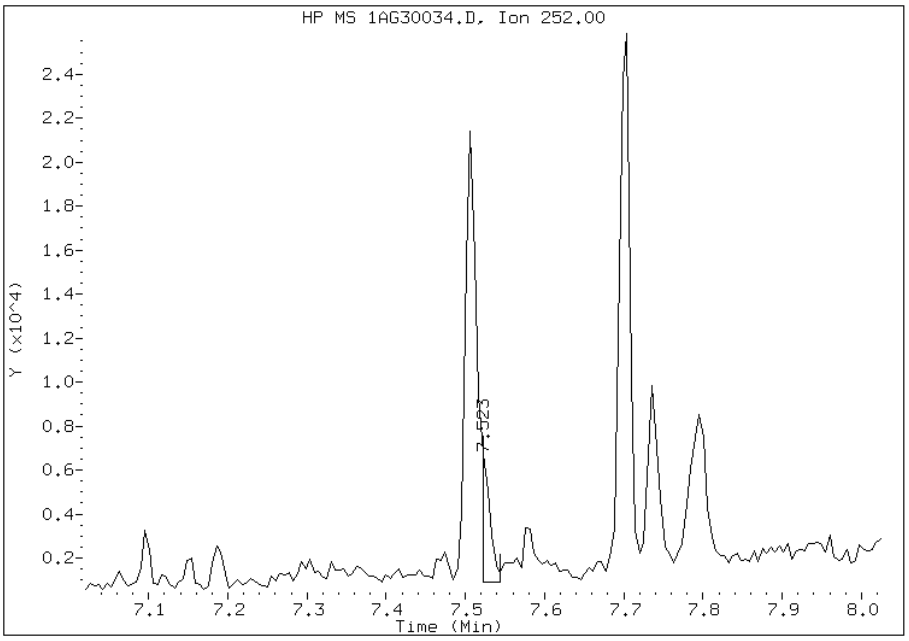
Manual Integration Results

RT: 7.52

Response: 4309

Amount: 0

Conc: 26



Manually Integrated By: cantins
Modification Date: 31-Jul-2013 10:40
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AG30034.D
Inj. Date and Time: 30-JUL-2013 22:41
Instrument ID: BSMA5973.i
Client ID: CV0256A-VGSO-CSD
Compound: 25 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 07/31/2013

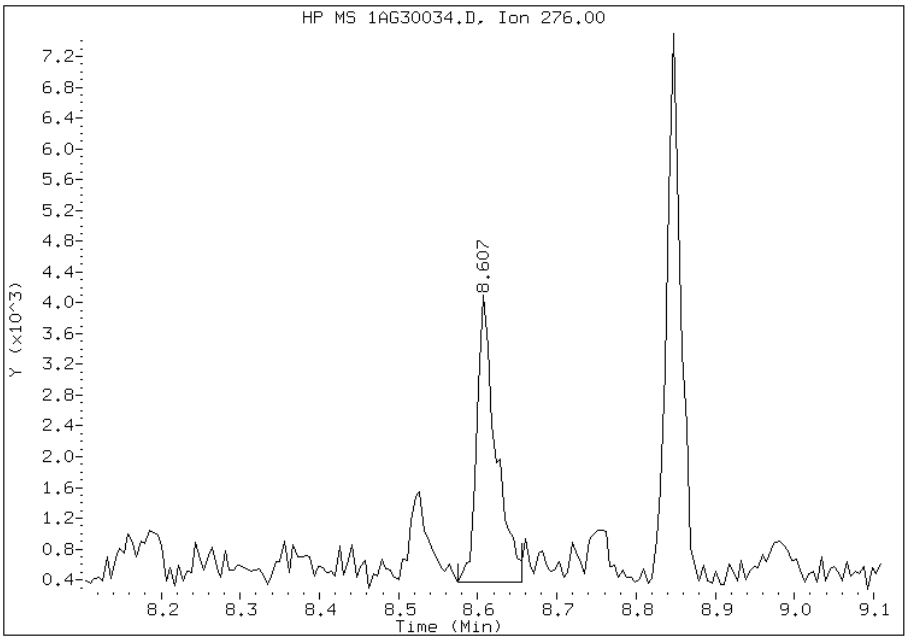
Processing Integration Results

RT: 8.61

Response: 6140

Amount: 0

Conc: 48



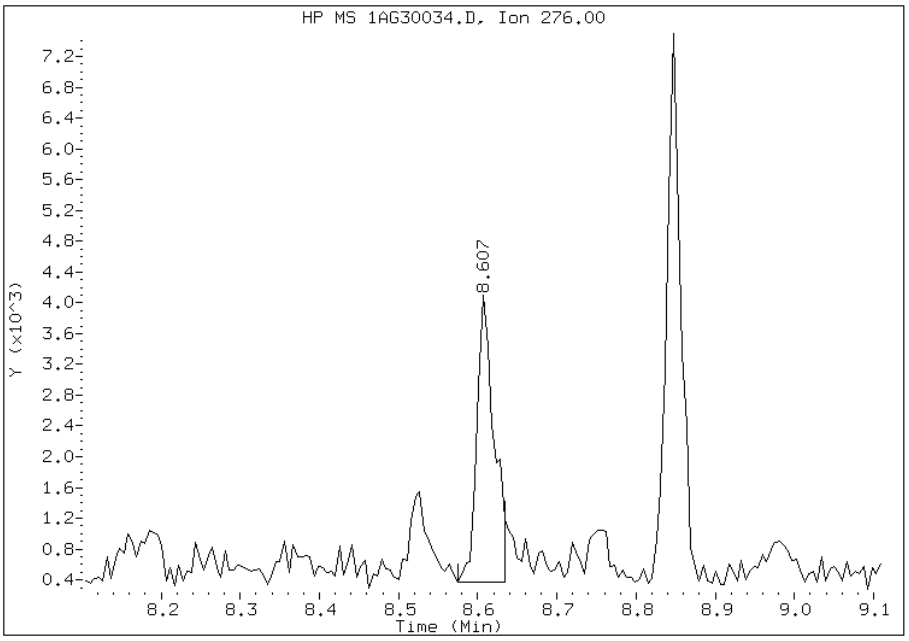
Manual Integration Results

RT: 8.61

Response: 5549

Amount: 0

Conc: 43



Manually Integrated By: cantins
Modification Date: 31-Jul-2013 10:41
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-92626-1

SDG No.: 680-92626-01

Client Sample ID: HP0306A-VGSO-CS | Lab Sample ID: 680-92626-3

Matrix: Solid | Lab File ID: 1AG29011.D

Analysis Method: 8270C LL | Date Collected: 07/23/2013 10:55

Extract. Method: 3546 | Date Extracted: 07/26/2013 14:59

Sample wt/vol: 15.09(g) | Date Analyzed: 07/29/2013 15:16

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 19.6 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 139909 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	120	U	120	25
208-96-8	Acenaphthylene	17	J	49	6.2
120-12-7	Anthracene	36		10	5.2
56-55-3	Benzo[a]anthracene	93		9.9	4.8
50-32-8	Benzo[a]pyrene	59		13	6.4
205-99-2	Benzo[b]fluoranthene	100		15	7.5
191-24-2	Benzo[g,h,i]perylene	62		25	5.4
207-08-9	Benzo[k]fluoranthene	26		9.9	4.5
218-01-9	Chrysene	130		11	5.6
53-70-3	Dibenz(a,h)anthracene	20	J	25	5.1
206-44-0	Fluoranthene	89		25	4.9
86-73-7	Fluorene	17	J	25	5.1
193-39-5	Indeno[1,2,3-cd]pyrene	52		25	8.8
90-12-0	1-Methylnaphthalene	42	J	49	5.4
91-57-6	2-Methylnaphthalene	58		49	8.8
91-20-3	Naphthalene	83		49	5.4
85-01-8	Phenanthrene	140		9.9	4.8
129-00-0	Pyrene	130		25	4.6

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	60		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A072913.b\1AG29011.D
Lab Smp Id: 680-92626-a-3-a
Inj Date : 29-JUL-2013 15:16
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-92626-a-3-a
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A072913.b\a-bFASTPAHi-m.m
Meth Date : 29-Jul-2013 12:10 cantins Quant Type: ISTD
Cal Date : 07-JUL-2013 15:46 Cal File: 1AG07012.D
Als bottle: 11
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14

Concentration Formula:
Amt * DF * 1/Vi * Vt/Ws * 100/(100 - M) * A * B * C * D * GPC * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.090	Weight Extracted
M	20.000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	2.640	2.640	(1.000)	2534312	40.0000	
* 7 Acenaphthene-d10	164	3.676	3.671	(1.000)	1594765	40.0000	
* 11 Phenanthrene-d10	188	4.648	4.643	(1.000)	2282055	40.0000	
$ 15 o-Terphenyl	230	4.942	4.937	(1.063)	207999	5.99811	496.8609
* 19 Chrysene-d12	240	6.705	6.689	(1.000)	2029448	40.0000	
* 24 Perylene-d12	264	7.853	7.795	(1.000)	2728593	40.0000	(H)
2 Naphthalene	128	2.656	2.650	(1.006)	57624	1.00636	83.3633
3 2-Methylnaphthalene	141	3.062	3.056	(1.160)	22820	0.69854	57.8642
4 1-Methylnaphthalene	142	3.115	3.110	(1.180)	19396	0.50847	42.1195
6 Acenaphthylene	152	3.590	3.585	(0.977)	14310	0.20115	16.6628
8 Acenaphthene	154	3.692	3.692	(1.004)	8983	0.24096	19.9606
10 Fluorene	166	4.012	4.013	(1.092)	9987	0.20022	16.5858
12 Phenanthrene	178	4.664	4.659	(1.003)	101055	1.73992	144.1288
13 Anthracene	178	4.696	4.691	(1.010)	26787	0.44229	36.6374
16 Fluoranthene	202	5.540	5.535	(1.192)	75304	1.07749	89.2549

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
17 Pyrene	202	5.711	5.701	(0.852)	107647	1.59331	131.9836
18 Benzo(a)anthracene	228	6.694	6.673	(0.998)	79572	1.13142	93.7230
20 Chrysene	228	6.716	6.705	(1.002)	89251	1.62342	134.4782
21 Benzo(b)fluoranthene	252	7.544	7.506	(0.961)	93993	1.21010	100.2403(MH)
22 Benzo(k)fluoranthene	252	7.560	7.533	(0.963)	25277	0.31517	26.1079(QM)
23 Benzo(a)pyrene	252	7.789	7.741	(0.992)	51823	0.72145	59.7623(H)
25 Indeno(1,2,3-cd)pyrene	276	8.676	8.617	(1.105)	39455	0.62994	52.1817(MH)
26 Dibenzo(a,h)anthracene	278	8.703	8.644	(1.108)	14726	0.24867	20.5988(H)
27 Benzo(g,h,i)perylene	276	8.922	8.858	(1.136)	44633	0.75161	62.2607(H)

QC Flag Legend

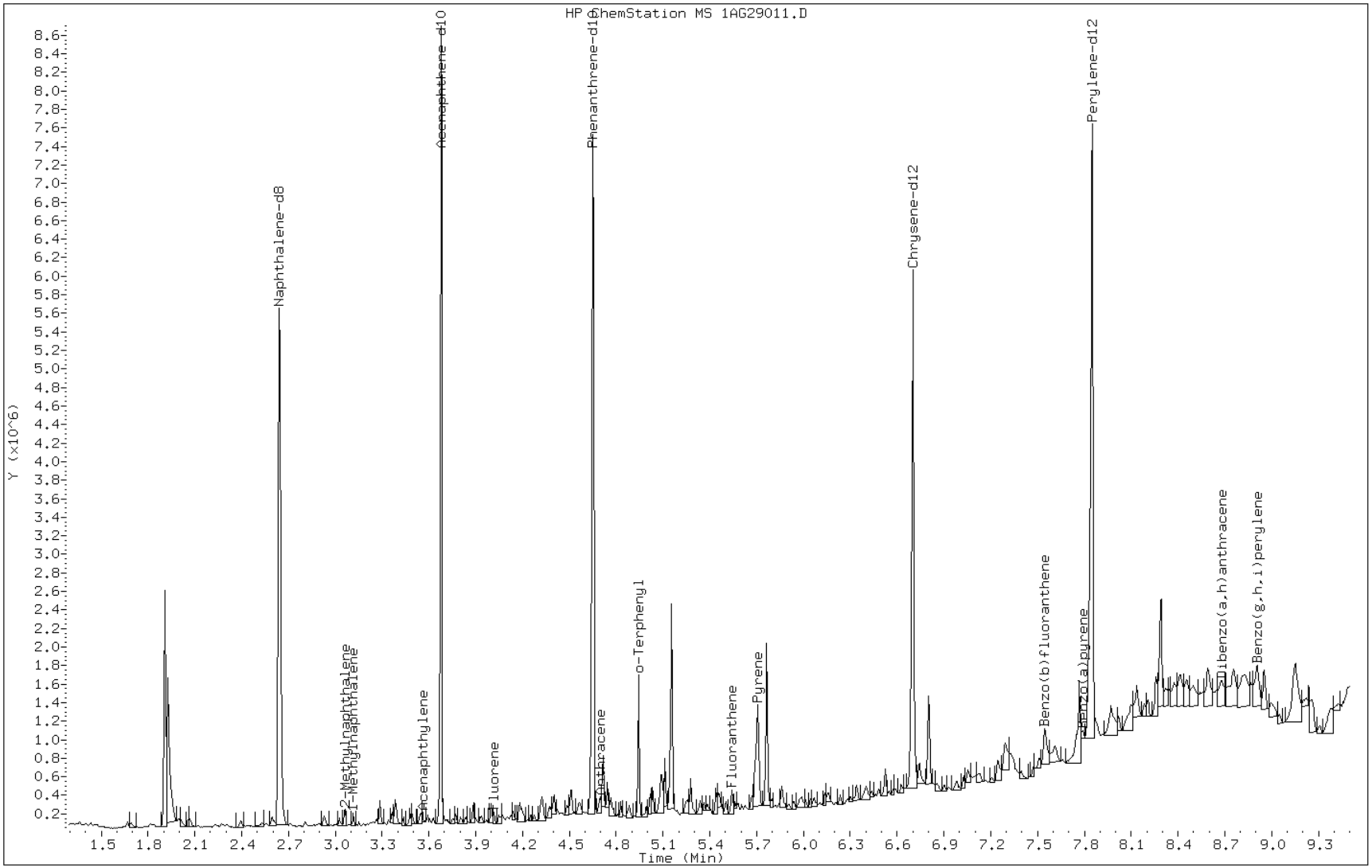
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1AG29011.D

Date: 29-JUL-2013 15:16

Client ID: Instrument: BSMA5973.i

Sample Info: 680-92626-a-3-a Operator: SCC



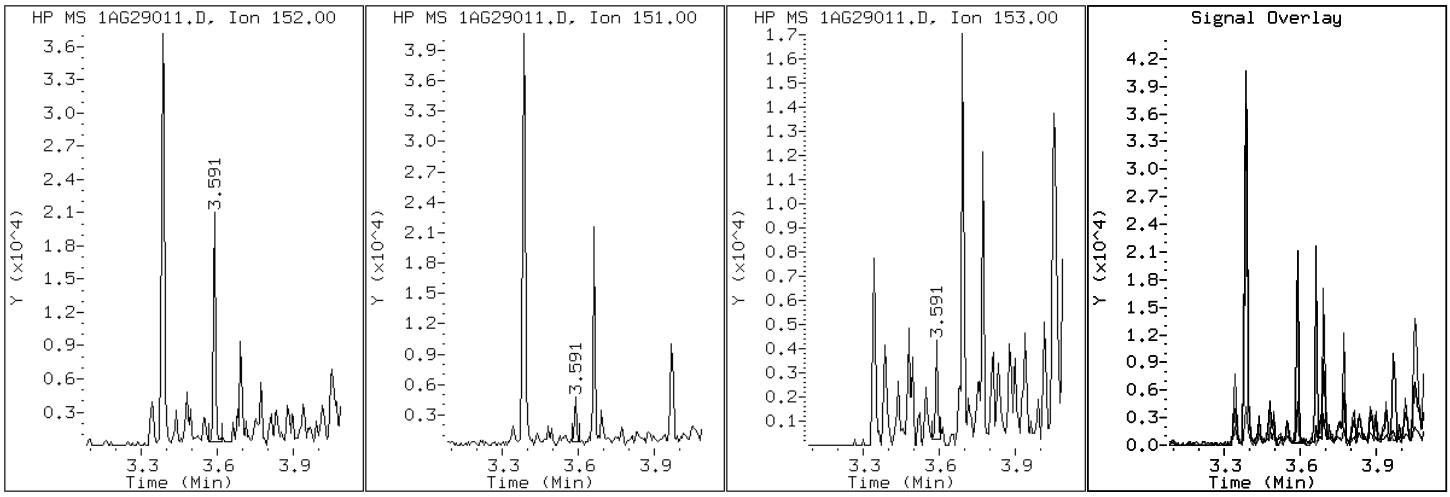
Data File: 1AG29011.D

Date: 29-JUL-2013 15:16

Client ID: Instrument: BSMA5973.i

Sample Info: 680-92626-a-3-a Operator: SCC

6 Acenaphthylene



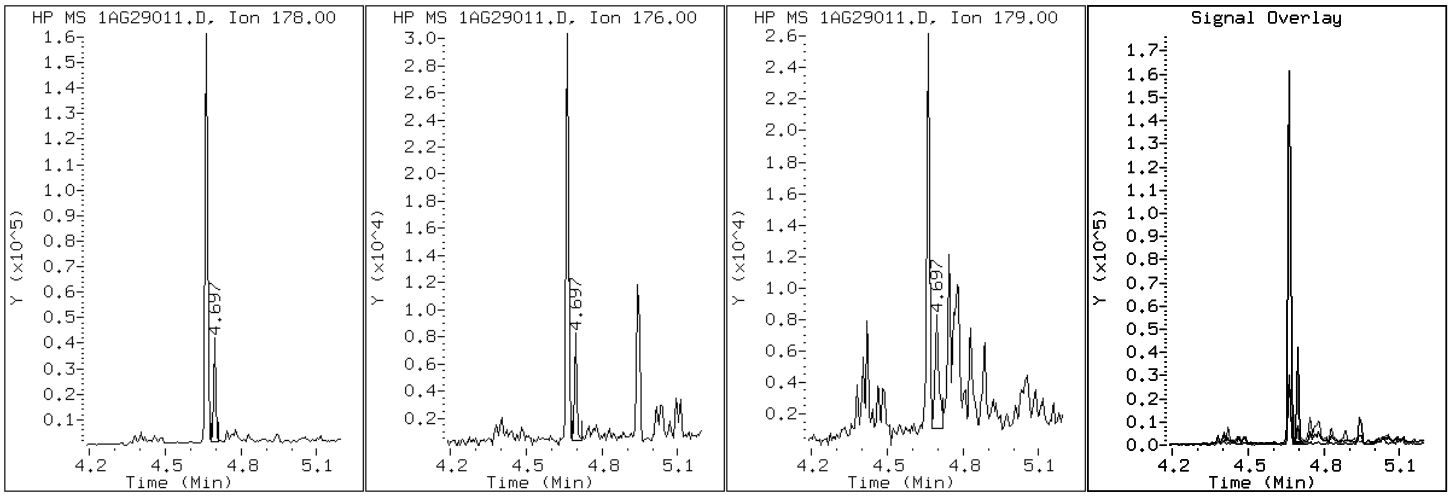
Data File: 1AG29011.D

Date: 29-JUL-2013 15:16

Client ID: Instrument: BSMA5973.i

Sample Info: 680-92626-a-3-a Operator: SCC

13 Anthracene



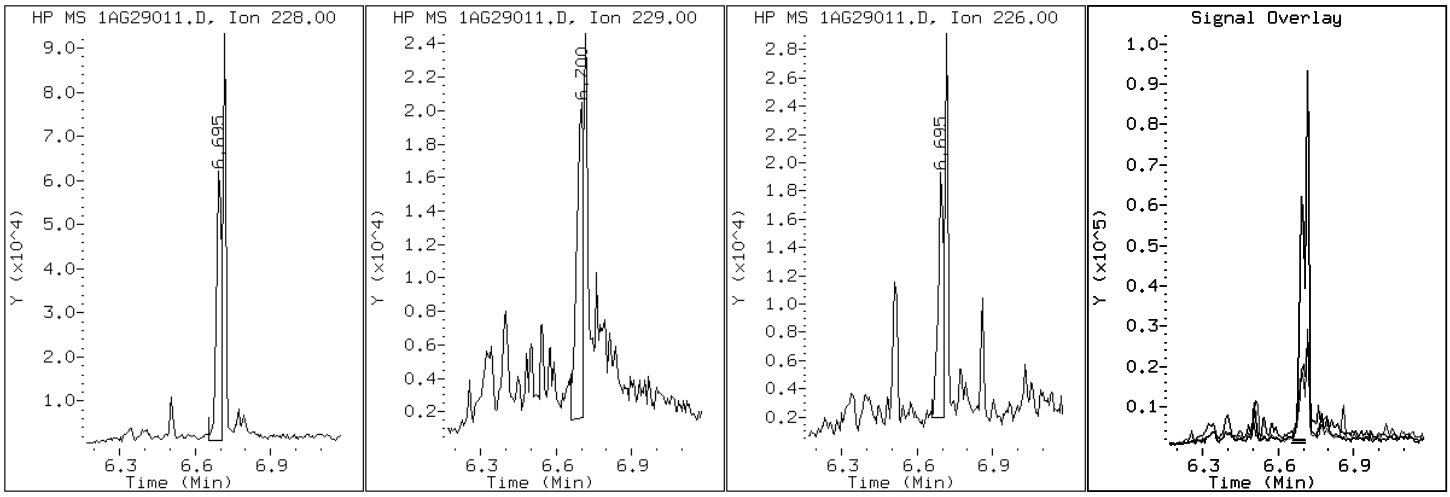
Data File: 1AG29011.D

Date: 29-JUL-2013 15:16

Client ID: Instrument: BSMA5973.i

Sample Info: 680-92626-a-3-a Operator: SCC

18 Benzo(a)anthracene



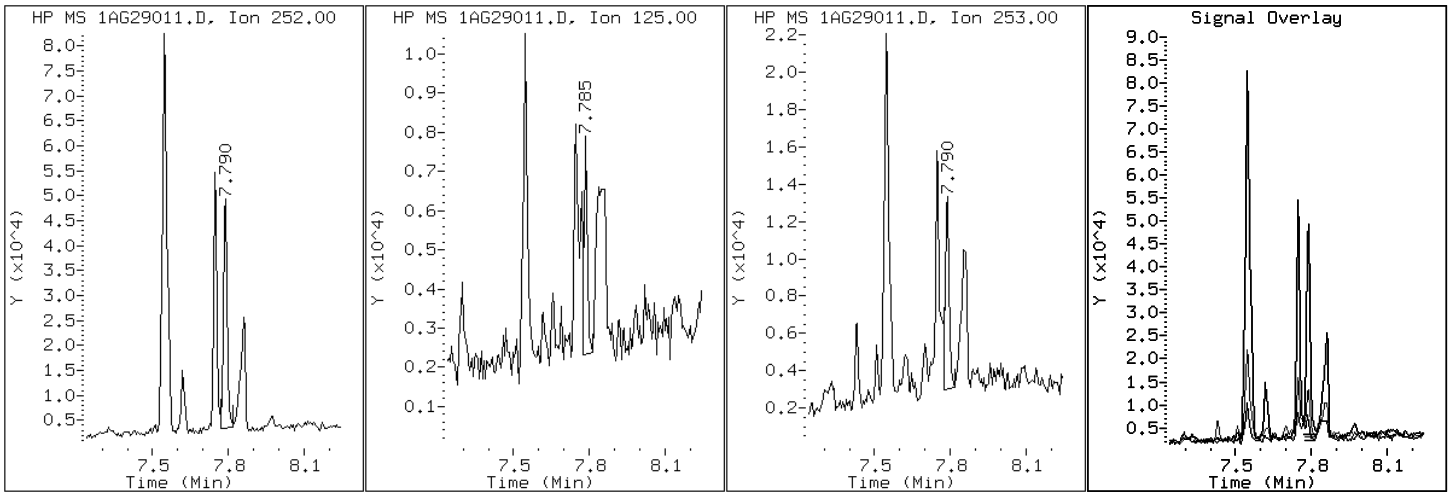
Data File: 1AG29011.D

Date: 29-JUL-2013 15:16

Client ID: Instrument: BSMA5973.i

Sample Info: 680-92626-a-3-a Operator: SCC

23 Benzo(a)pyrene



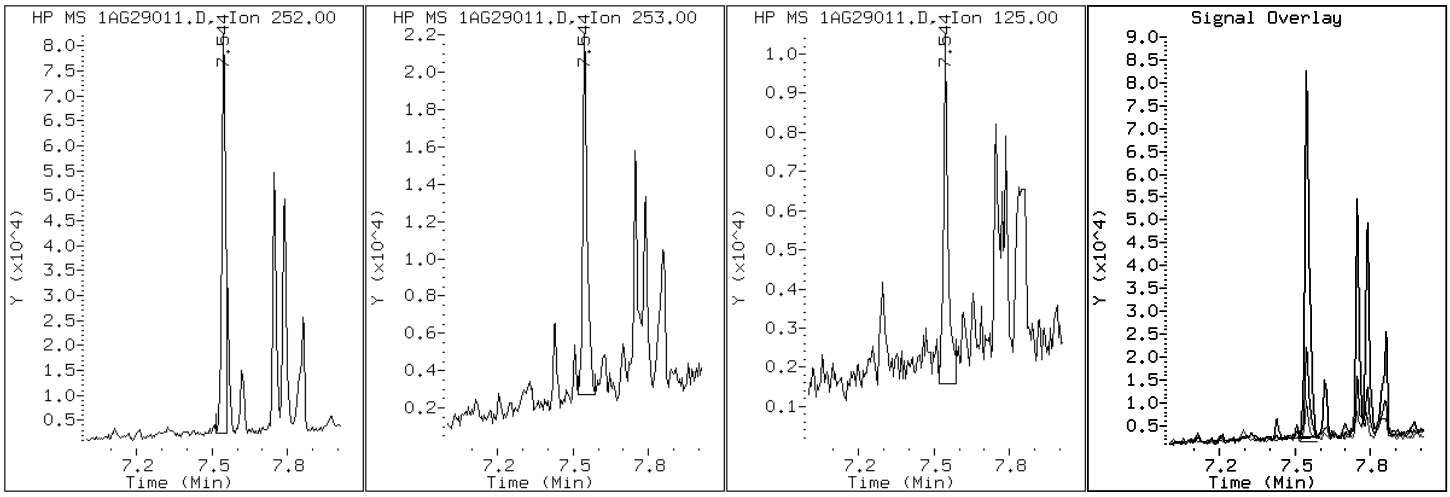
Data File: 1AG29011.D

Date: 29-JUL-2013 15:16

Client ID: Instrument: BSMA5973.i

Sample Info: 680-92626-a-3-a Operator: SCC

21 Benzo(b)fluoranthene



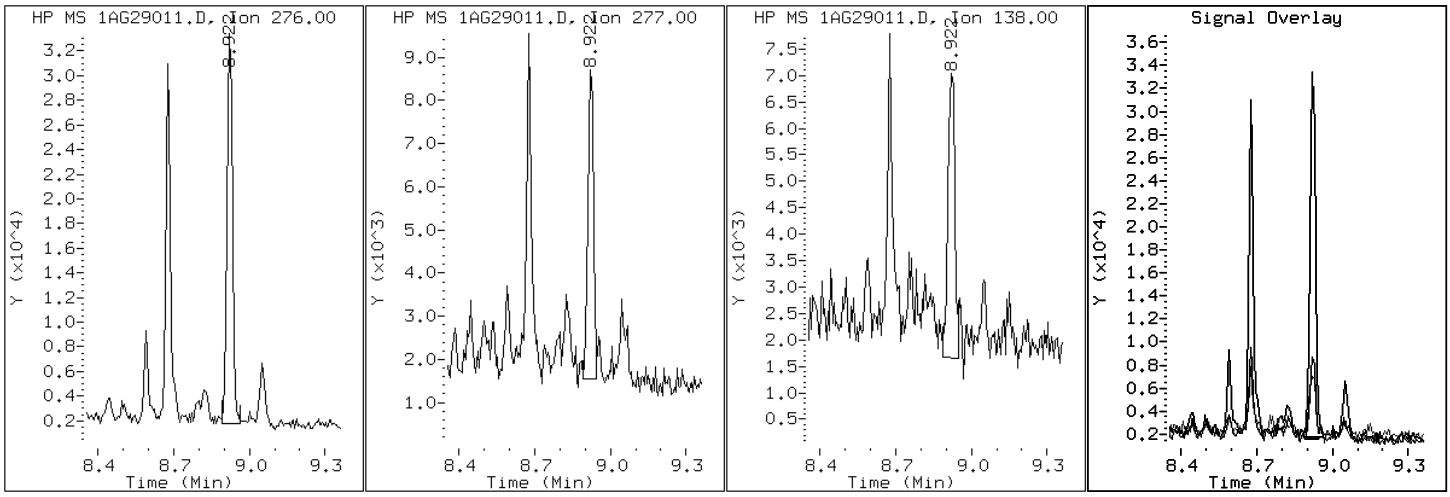
Data File: 1AG29011.D

Date: 29-JUL-2013 15:16

Client ID: Instrument: BSMA5973.i

Sample Info: 680-92626-a-3-a Operator: SCC

27 Benzo(g,h,i)perylene



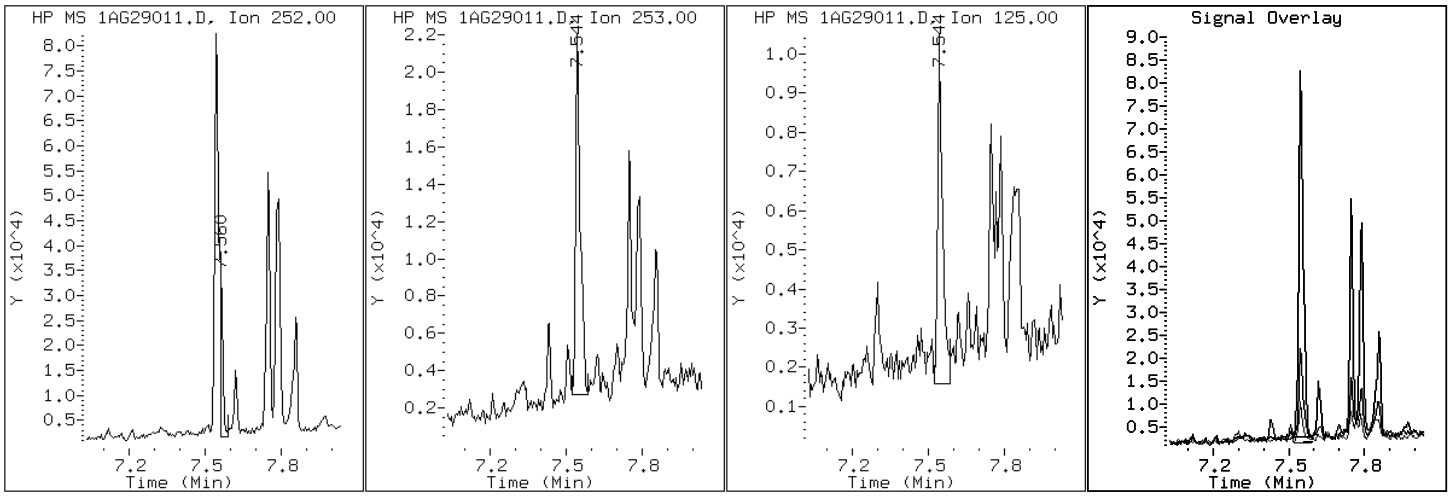
Data File: 1AG29011.D

Date: 29-JUL-2013 15:16

Client ID: Instrument: BSMA5973.i

Sample Info: 680-92626-a-3-a Operator: SCC

22 Benzo(k)fluoranthene



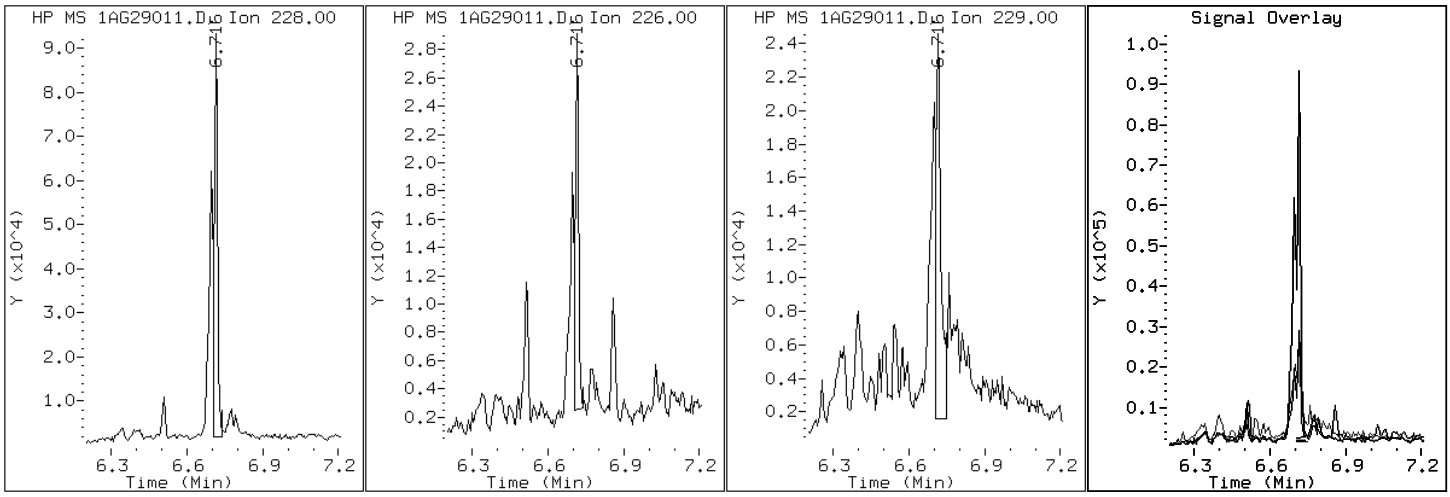
Data File: 1AG29011.D

Date: 29-JUL-2013 15:16

Client ID: Instrument: BSMA5973.i

Sample Info: 680-92626-a-3-a Operator: SCC

20 Chrysene



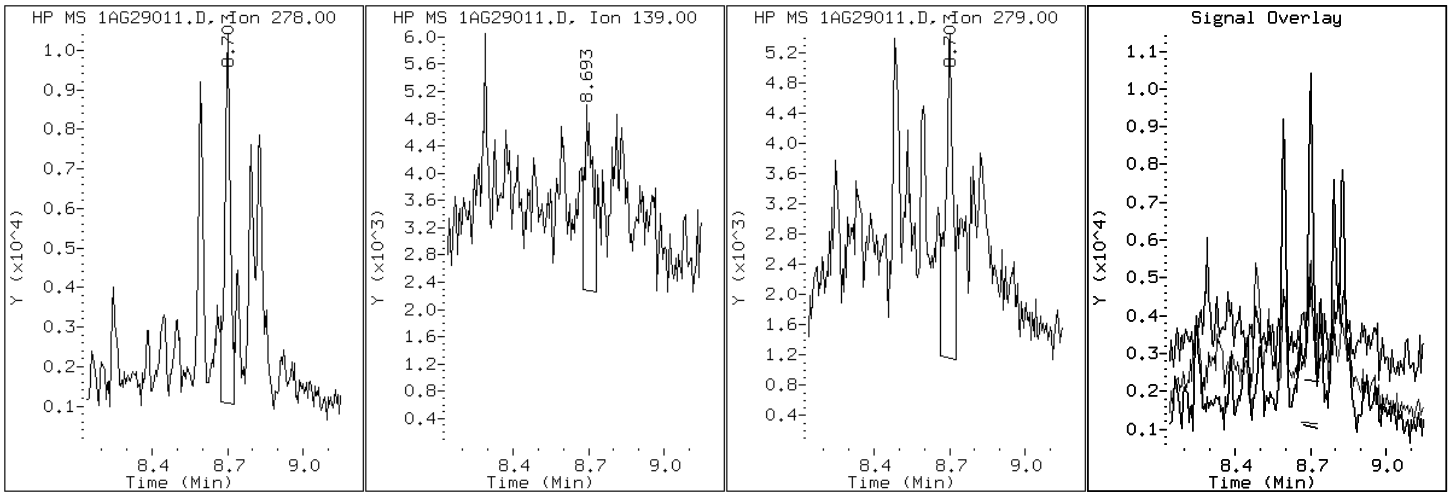
Data File: 1AG29011.D

Date: 29-JUL-2013 15:16

Client ID: Instrument: BSMA5973.i

Sample Info: 680-92626-a-3-a Operator: SCC

26 Dibenzo(a,h)anthracene



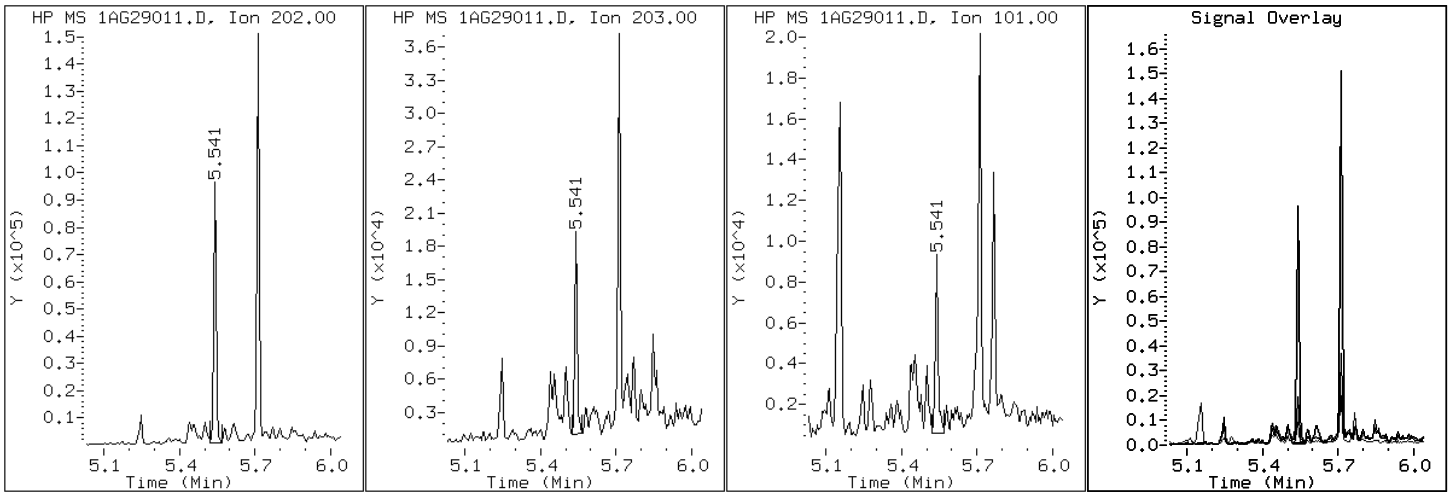
Data File: 1AG29011.D

Date: 29-JUL-2013 15:16

Client ID: Instrument: BSMA5973.i

Sample Info: 680-92626-a-3-a Operator: SCC

16 Fluoranthene



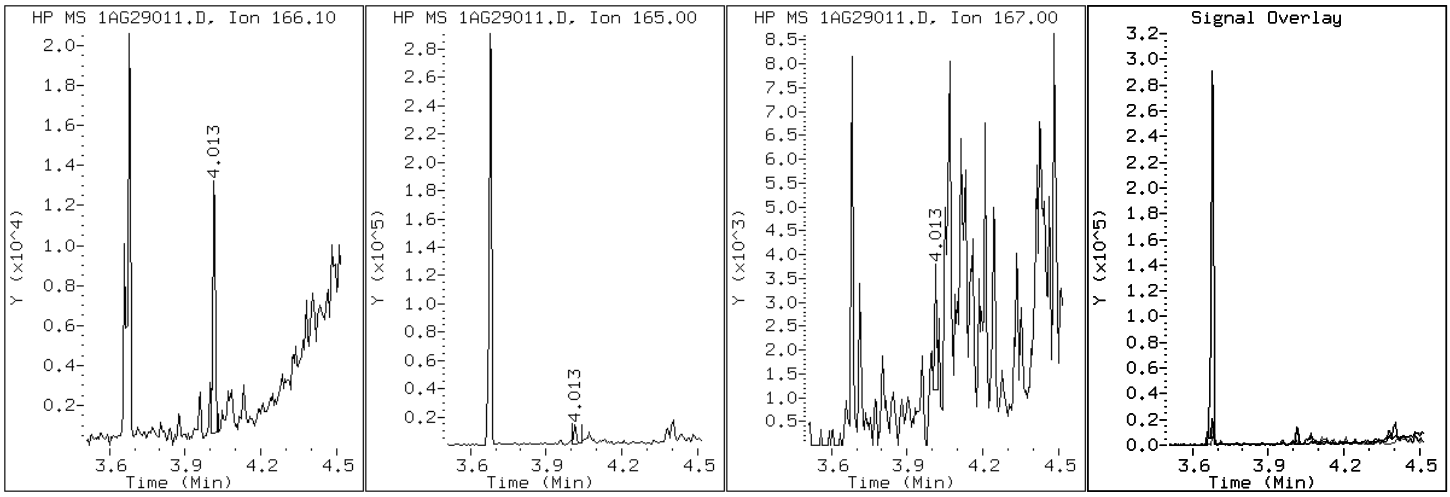
Data File: 1AG29011.D

Date: 29-JUL-2013 15:16

Client ID: Instrument: BSMA5973.i

Sample Info: 680-92626-a-3-a Operator: SCC

10 Fluorene



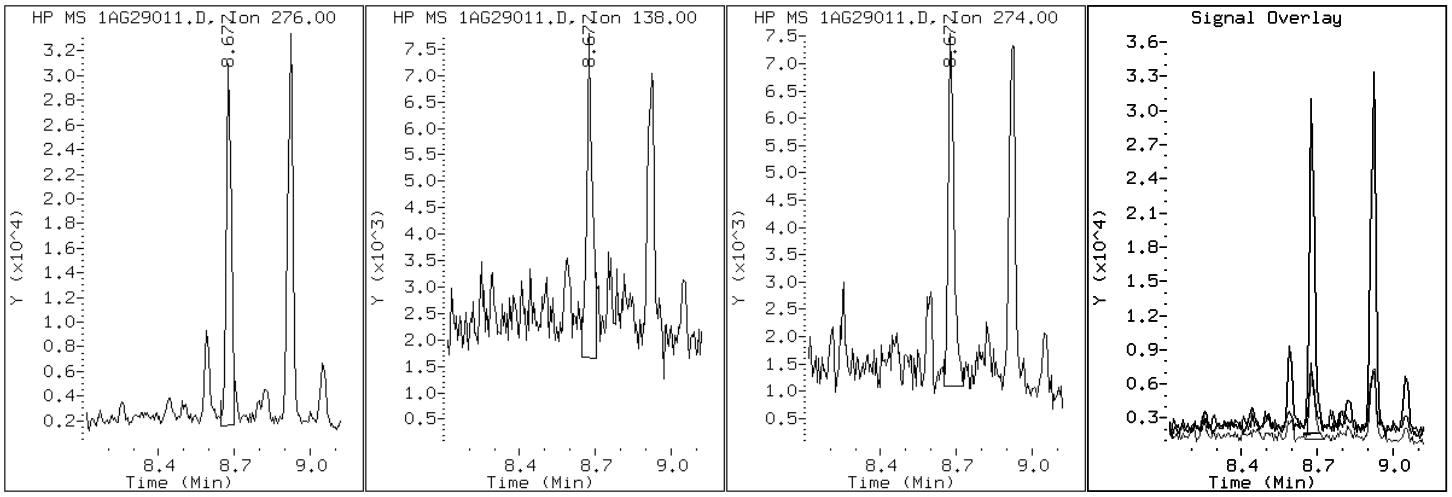
Data File: 1AG29011.D

Date: 29-JUL-2013 15:16

Client ID: Instrument: BSMA5973.i

Sample Info: 680-92626-a-3-a Operator: SCC

25 Indeno(1,2,3-cd)pyrene



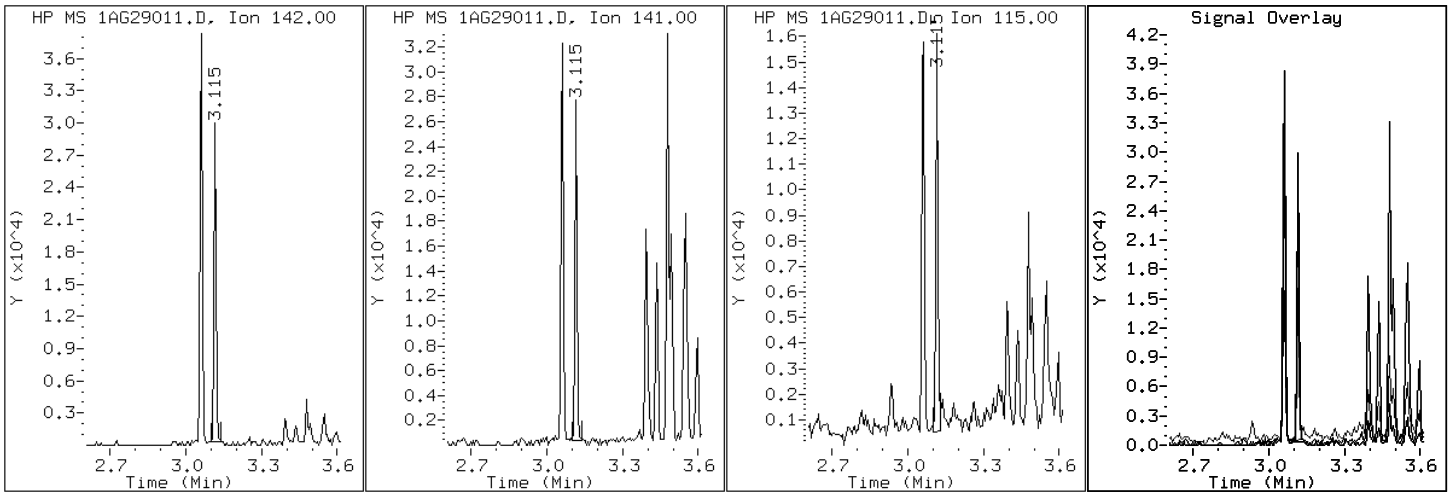
Data File: 1AG29011.D

Date: 29-JUL-2013 15:16

Client ID: Instrument: BSMA5973.i

Sample Info: 680-92626-a-3-a Operator: SCC

4 1-Methylnaphthalene



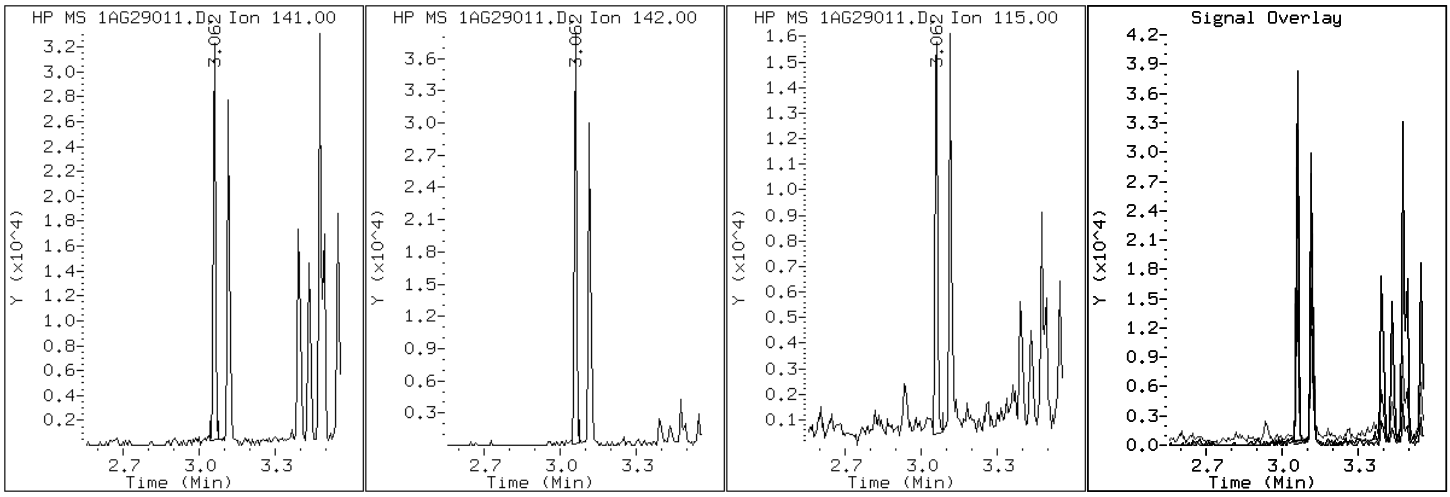
Data File: 1AG29011.D

Date: 29-JUL-2013 15:16

Client ID: Instrument: BSMA5973.i

Sample Info: 680-92626-a-3-a Operator: SCC

3 2-Methylnaphthalene



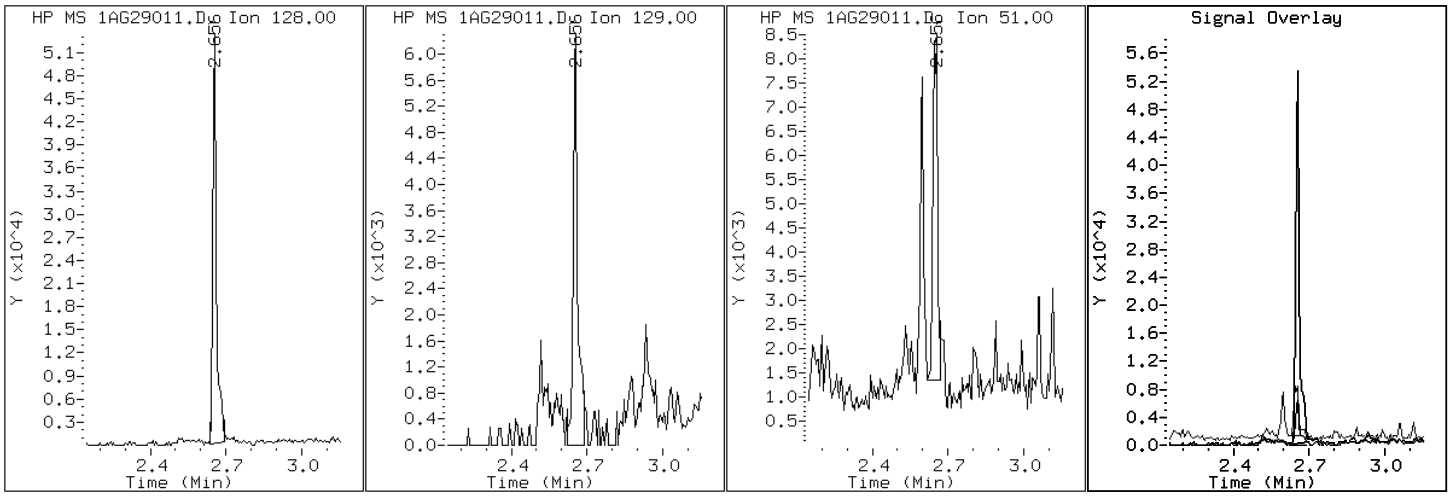
Data File: 1AG29011.D

Date: 29-JUL-2013 15:16

Client ID: Instrument: BSMA5973.i

Sample Info: 680-92626-a-3-a Operator: SCC

2 Naphthalene



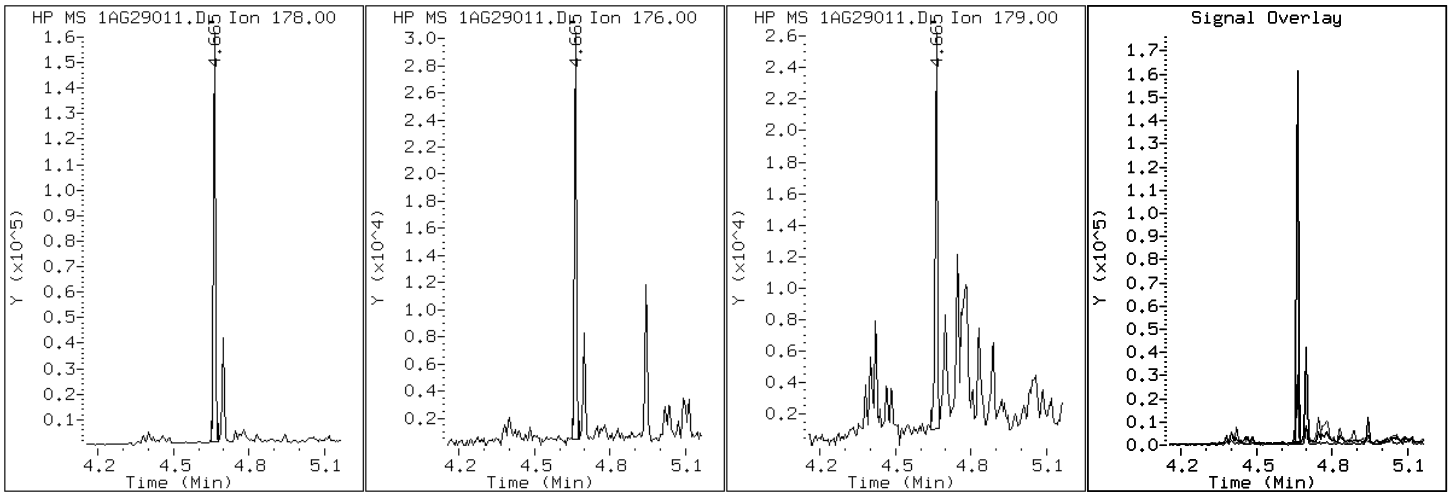
Data File: 1AG29011.D

Date: 29-JUL-2013 15:16

Client ID: Instrument: BSMA5973.i

Sample Info: 680-92626-a-3-a Operator: SCC

12 Phenanthrene



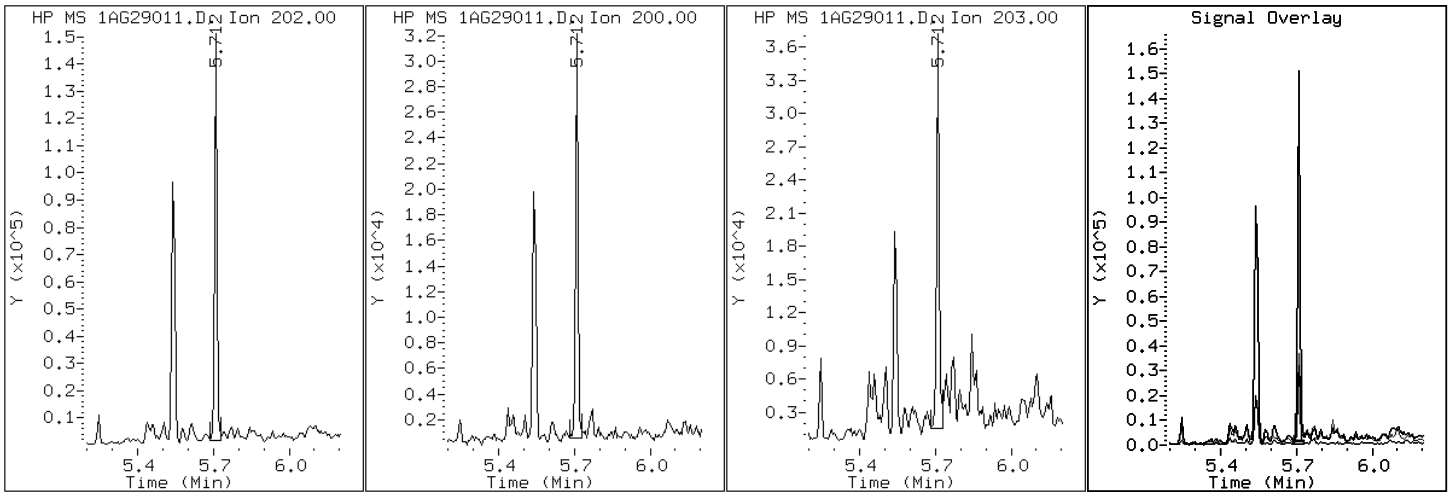
Data File: 1AG29011.D

Date: 29-JUL-2013 15:16

Client ID: Instrument: BSMA5973.i

Sample Info: 680-92626-a-3-a Operator: SCC

17 Pyrene



Manual Integration Report

Data File: 1AG29011.D
Inj. Date and Time: 29-JUL-2013 15:16
Instrument ID: BSMA5973.i
Client ID:
Compound: 21 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 07/30/2013

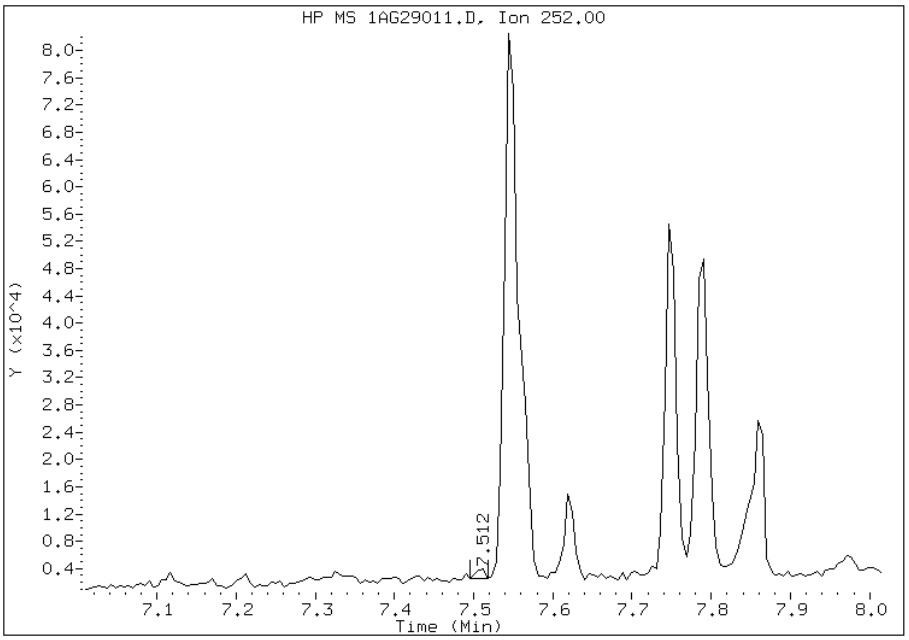
Processing Integration Results

RT: 7.51

Response: 1179

Amount: 0

Conc: 1



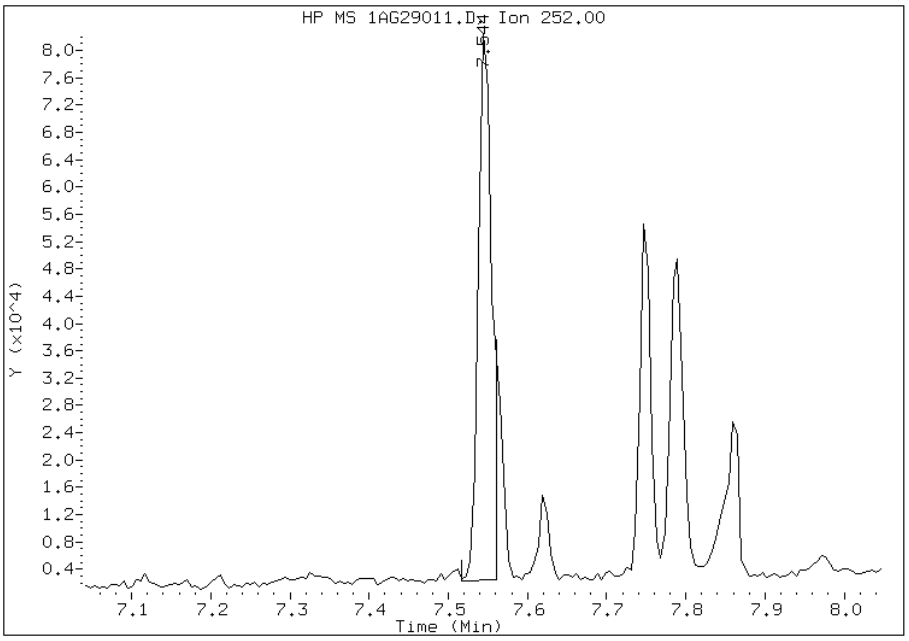
Manual Integration Results

RT: 7.54

Response: 93993

Amount: 1

Conc: 100



Manually Integrated By: cantins
Modification Date: 30-Jul-2013 12:38
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AG29011.D
Inj. Date and Time: 29-JUL-2013 15:16
Instrument ID: BSMA5973.i
Client ID:
Compound: 22 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 07/30/2013

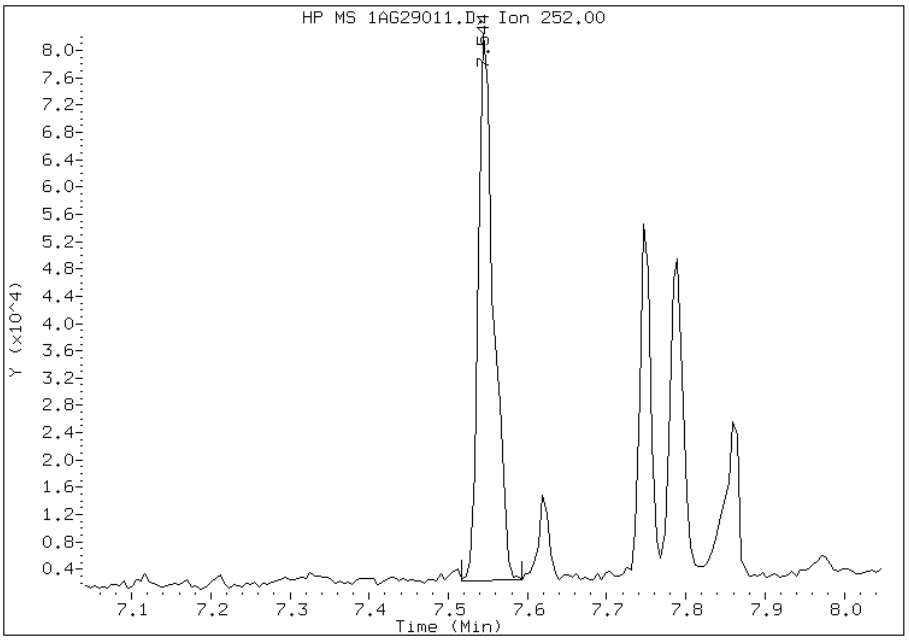
Processing Integration Results

RT: 7.54

Response: 107187

Amount: 1

Conc: 111



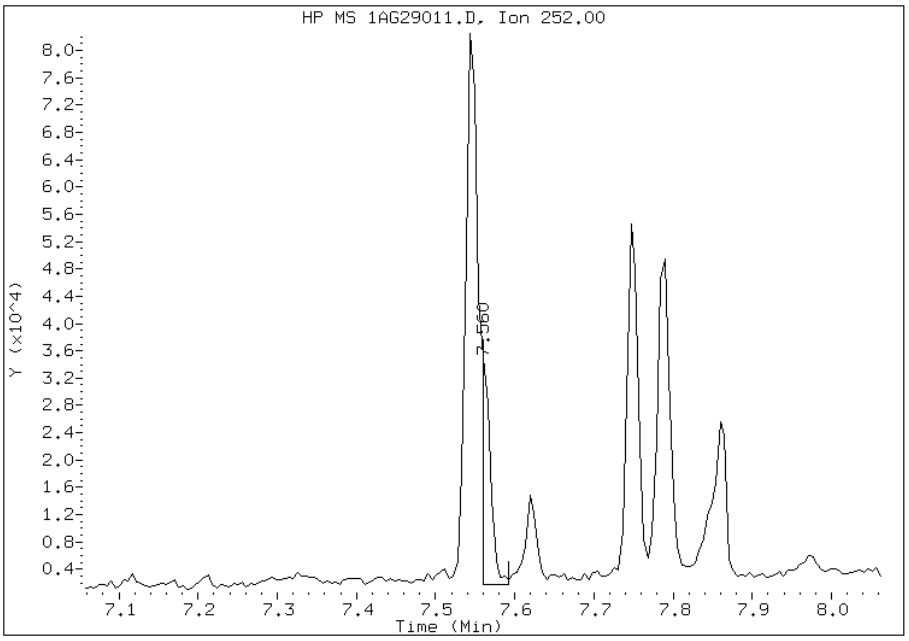
Manual Integration Results

RT: 7.56

Response: 25277

Amount: 0

Conc: 26



Manually Integrated By: cantins
Modification Date: 30-Jul-2013 12:38
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AG29011.D
Inj. Date and Time: 29-JUL-2013 15:16
Instrument ID: BSMA5973.i
Client ID:
Compound: 25 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 07/30/2013

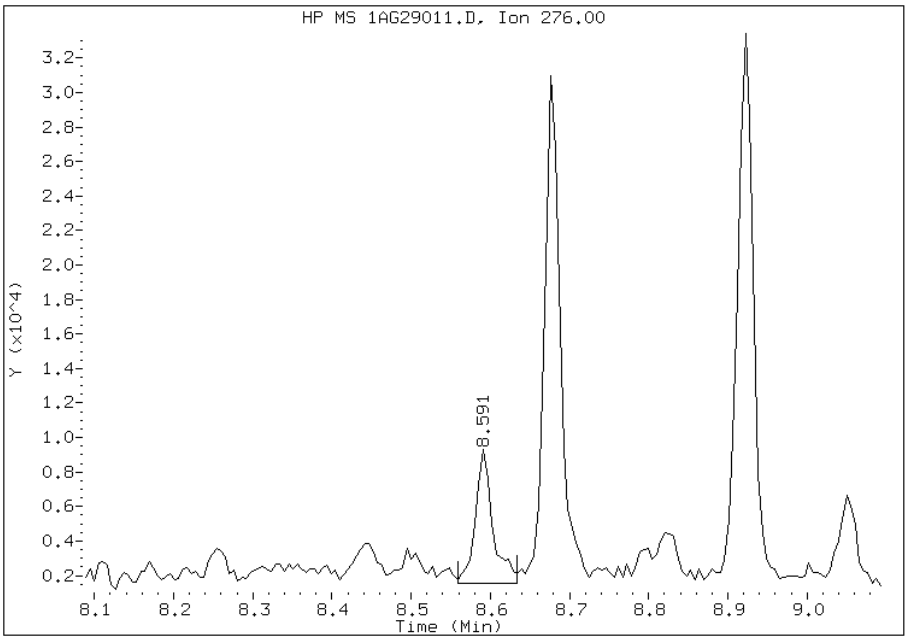
Processing Integration Results

RT: 8.59

Response: 11700

Amount: 0

Conc: 15



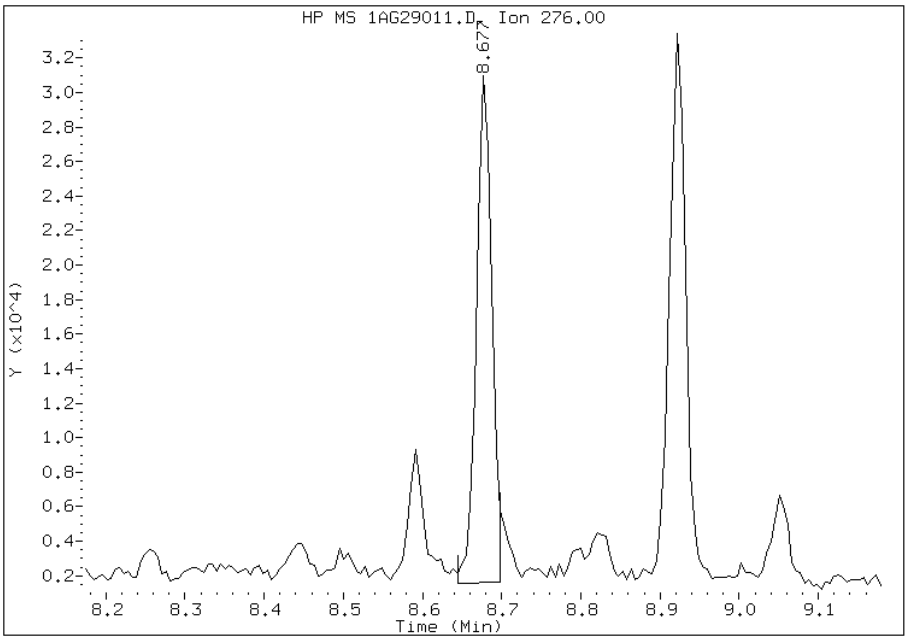
Manual Integration Results

RT: 8.68

Response: 39455

Amount: 1

Conc: 52



Manually Integrated By: cantins
Modification Date: 30-Jul-2013 12:37
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-92626-1

SDG No.: 680-92626-01

Client Sample ID: HP0306A-VGSO-CSD | Lab Sample ID: 680-92626-4

Matrix: Solid | Lab File ID: 1AG29012.D

Analysis Method: 8270C LL | Date Collected: 07/23/2013 10:55

Extract. Method: 3546 | Date Extracted: 07/26/2013 14:59

Sample wt/vol: 14.96(g) | Date Analyzed: 07/29/2013 15:31

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 21.6 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 139909 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	130	U	130	26
208-96-8	Acenaphthylene	14	J	51	6.4
120-12-7	Anthracene	21		11	5.4
56-55-3	Benzo[a]anthracene	48		10	5.0
50-32-8	Benzo[a]pyrene	52		13	6.6
205-99-2	Benzo[b]fluoranthene	93		16	7.8
191-24-2	Benzo[g,h,i]perylene	55		26	5.6
207-08-9	Benzo[k]fluoranthene	26		10	4.6
218-01-9	Chrysene	99		12	5.8
53-70-3	Dibenz(a,h)anthracene	16	J	26	5.2
206-44-0	Fluoranthene	71		26	5.1
86-73-7	Fluorene	7.6	J	26	5.2
193-39-5	Indeno[1,2,3-cd]pyrene	46		26	9.1
90-12-0	1-Methylnaphthalene	33	J	51	5.6
91-57-6	2-Methylnaphthalene	49	J	51	9.1
91-20-3	Naphthalene	74		51	5.6
85-01-8	Phenanthrene	75		10	5.0
129-00-0	Pyrene	64		26	4.7

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	66		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A072913.b\1AG29012.D
Lab Smp Id: 680-92626-a-4-a
Inj Date : 29-JUL-2013 15:31
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-92626-a-4-a
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A072913.b\a-bFASTPAHi-m.m
Meth Date : 29-Jul-2013 12:10 cantins Quant Type: ISTD
Cal Date : 07-JUL-2013 15:46 Cal File: 1AG07012.D
Als bottle: 12
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14

Concentration Formula:
Amt * DF * 1/Vi * Vt/Ws * 100/(100 - M) * A * B * C * D * GPC * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.960	Weight Extracted
M	22.000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	2.640	2.640	(1.000)	2621389	40.0000	
* 7 Acenaphthene-d10	164	3.676	3.671	(1.000)	1571289	40.0000	
* 11 Phenanthrene-d10	188	4.648	4.643	(1.000)	2297634	40.0000	
$ 15 o-Terphenyl	230	4.942	4.937	(1.063)	230659	6.60646	566.1640
* 19 Chrysene-d12	240	6.694	6.689	(1.000)	2038954	40.0000	
* 24 Perylene-d12	264	7.816	7.795	(1.000)	2565918	40.0000	
2 Naphthalene	128	2.650	2.650	(1.004)	51654	0.87213	74.7407
3 2-Methylnaphthalene	141	3.057	3.056	(1.158)	19331	0.57208	49.0265
4 1-Methylnaphthalene	142	3.115	3.110	(1.180)	15486	0.39248	33.6350
6 Acenaphthylene	152	3.585	3.585	(0.975)	11182	0.15953	13.6717
10 Fluorene	166	4.013	4.013	(1.092)	4369	0.08890	7.6186
12 Phenanthrene	178	4.659	4.659	(1.002)	51565	0.88181	75.5695
13 Anthracene	178	4.691	4.691	(1.009)	15143	0.24833	21.2819
16 Fluoranthene	202	5.535	5.535	(1.191)	58866	0.83657	71.6930
17 Pyrene	202	5.706	5.701	(0.852)	50610	0.74560	63.8966

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
18 Benzo(a)anthracene	228	6.689	6.673	(0.999)	43334	0.56578	48.4865
20 Chrysene	228	6.705	6.705	(1.002)	64164	1.16166	99.5529
21 Benzo(b)fluoranthene	252	7.517	7.506	(0.962)	79788	1.09234	93.6124(M)
22 Benzo(k)fluoranthene	252	7.539	7.533	(0.964)	22997	0.30493	26.1316(QM)
23 Benzo(a)pyrene	252	7.758	7.741	(0.992)	41348	0.61212	52.4576
25 Indeno(1,2,3-cd)pyrene	276	8.634	8.617	(1.105)	31638	0.53716	46.0335(M)
26 Dibenzo(a,h)anthracene	278	8.660	8.644	(1.108)	10272	0.18445	15.8074
27 Benzo(g,h,i)perylene	276	8.879	8.858	(1.136)	35816	0.64137	54.9647

QC Flag Legend

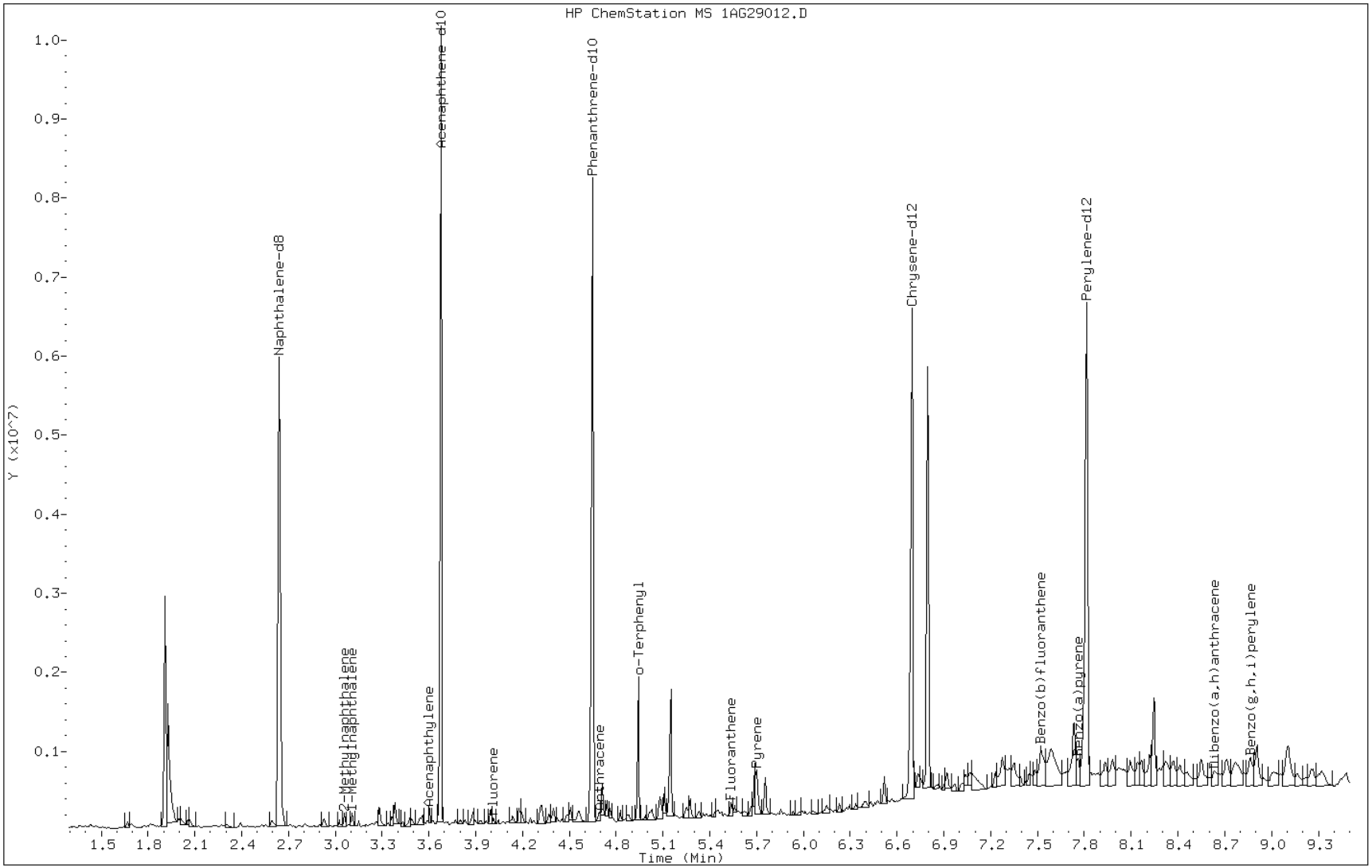
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1AG29012.D

Date: 29-JUL-2013 15:31

Client ID: Instrument: BSMA5973.i

Sample Info: 680-92626-a-4-a Operator: SCC



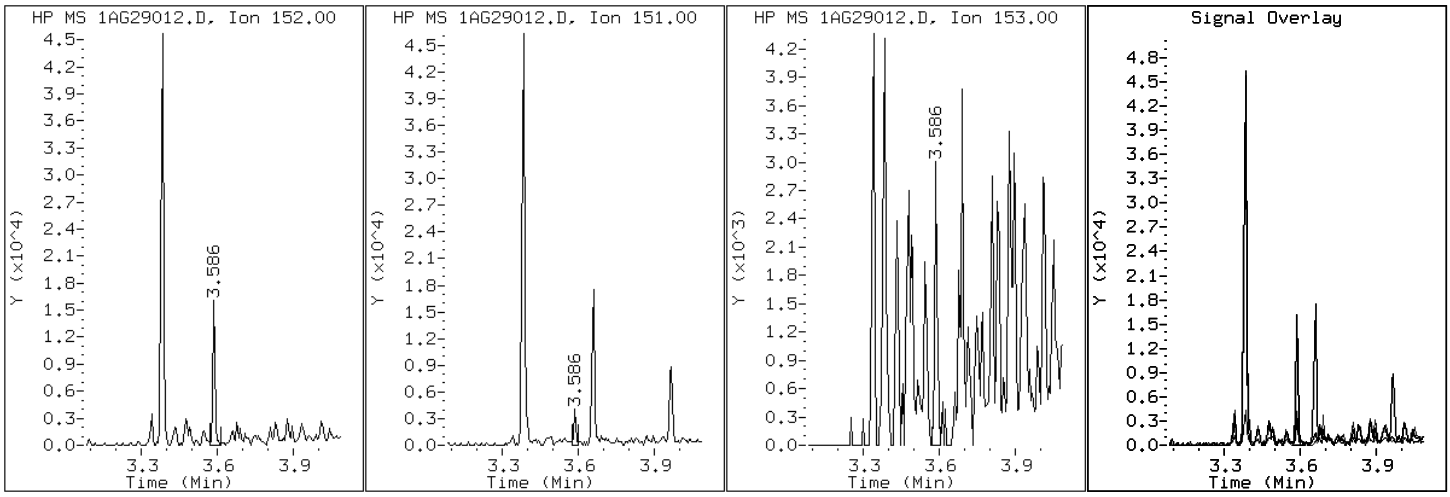
Data File: 1AG29012.D

Date: 29-JUL-2013 15:31

Client ID: Instrument: BSMA5973.i

Sample Info: 680-92626-a-4-a Operator: SCC

6 Acenaphthylene



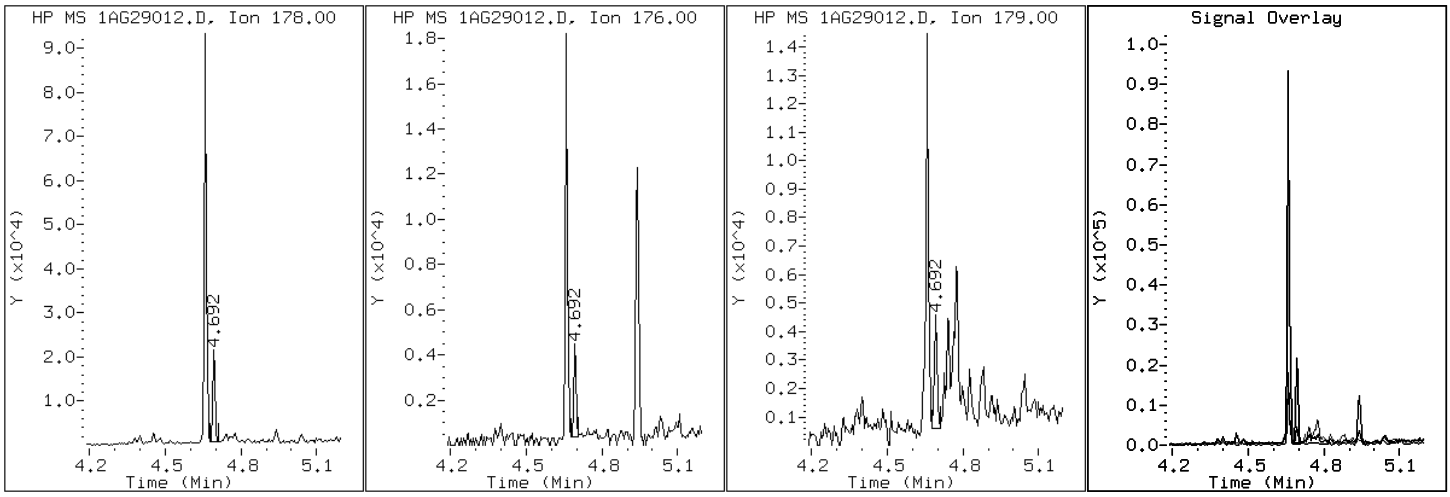
Data File: 1AG29012.D

Date: 29-JUL-2013 15:31

Client ID: Instrument: BSMA5973.i

Sample Info: 680-92626-a-4-a Operator: SCC

13 Anthracene



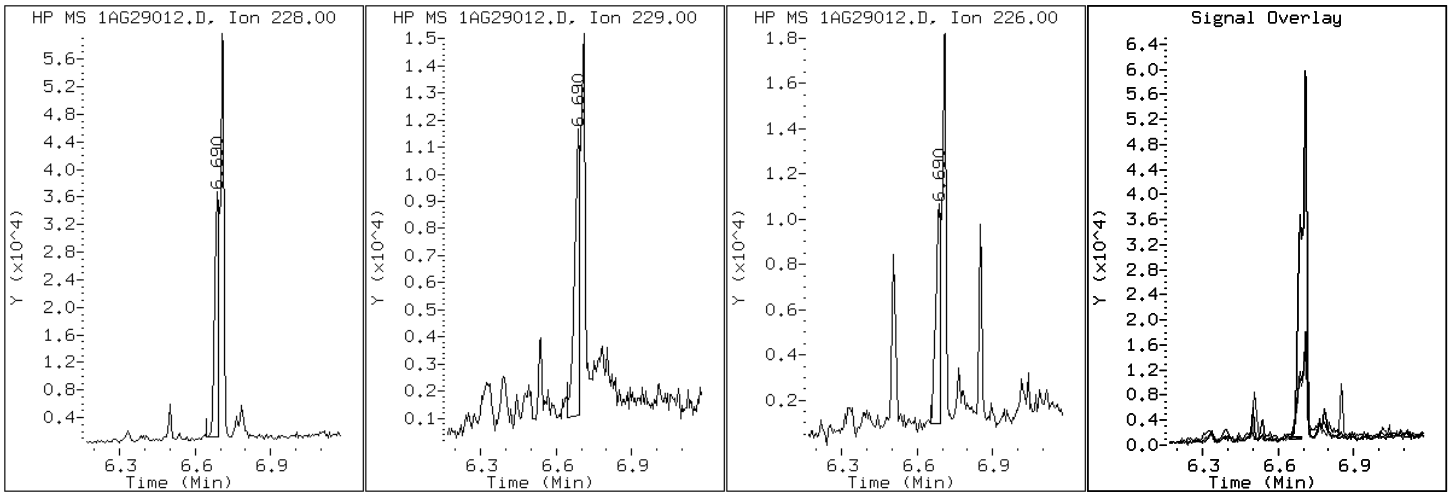
Data File: 1AG29012.D

Date: 29-JUL-2013 15:31

Client ID: Instrument: BSMA5973.i

Sample Info: 680-92626-a-4-a Operator: SCC

18 Benzo(a)anthracene



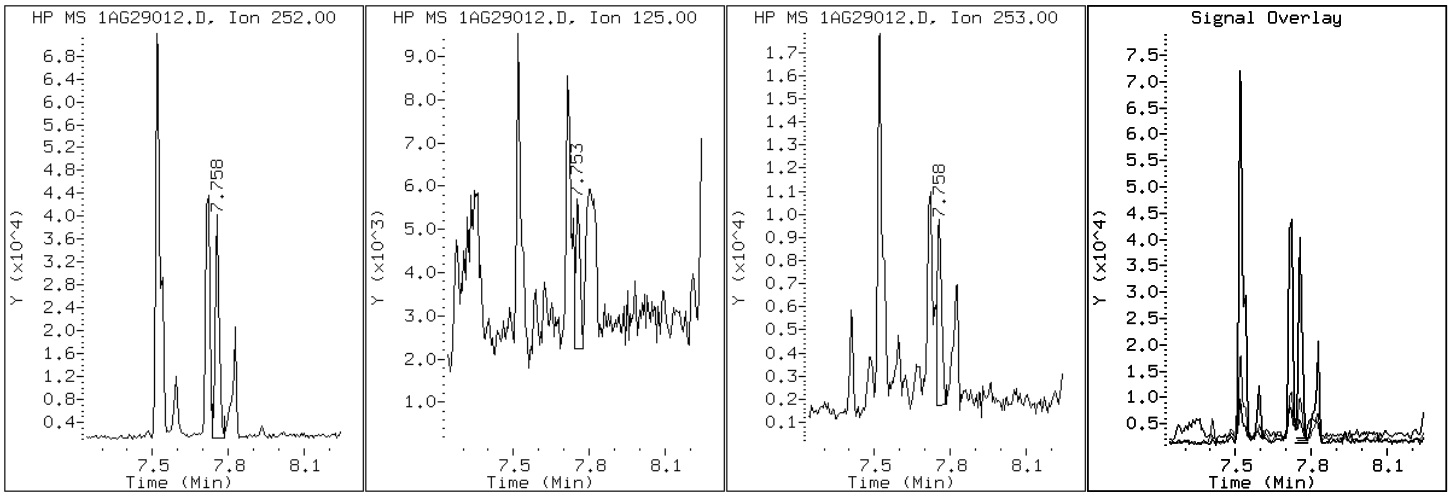
Data File: 1AG29012.D

Date: 29-JUL-2013 15:31

Client ID: Instrument: BSMA5973.i

Sample Info: 680-92626-a-4-a Operator: SCC

23 Benzo(a)pyrene



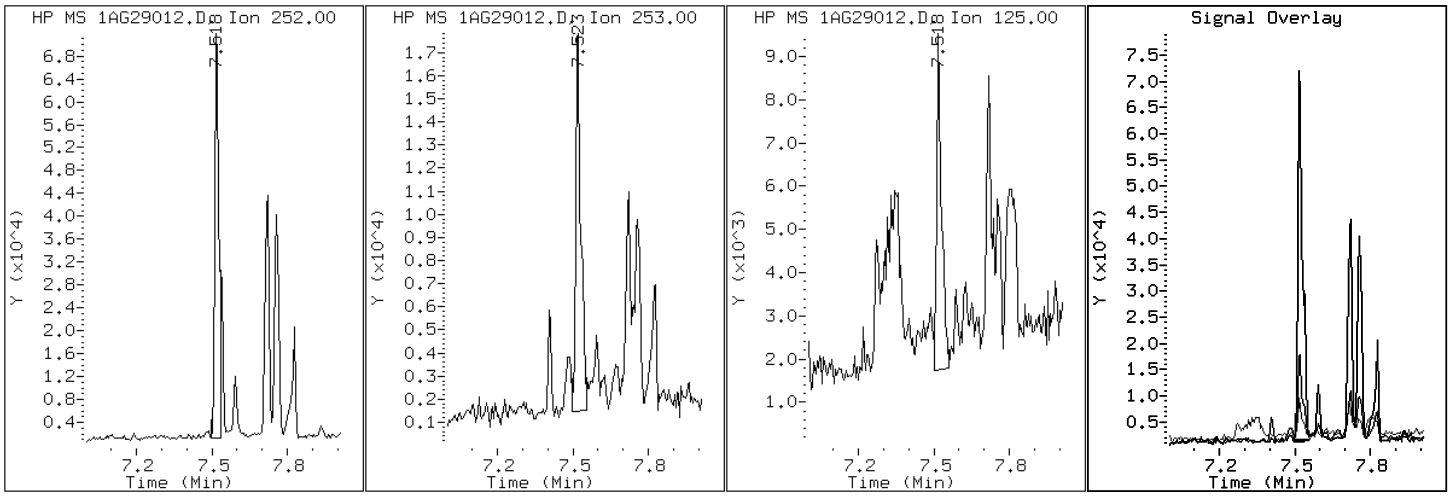
Data File: 1AG29012.D

Date: 29-JUL-2013 15:31

Client ID: Instrument: BSMA5973.i

Sample Info: 680-92626-a-4-a Operator: SCC

21 Benzo(b)fluoranthene



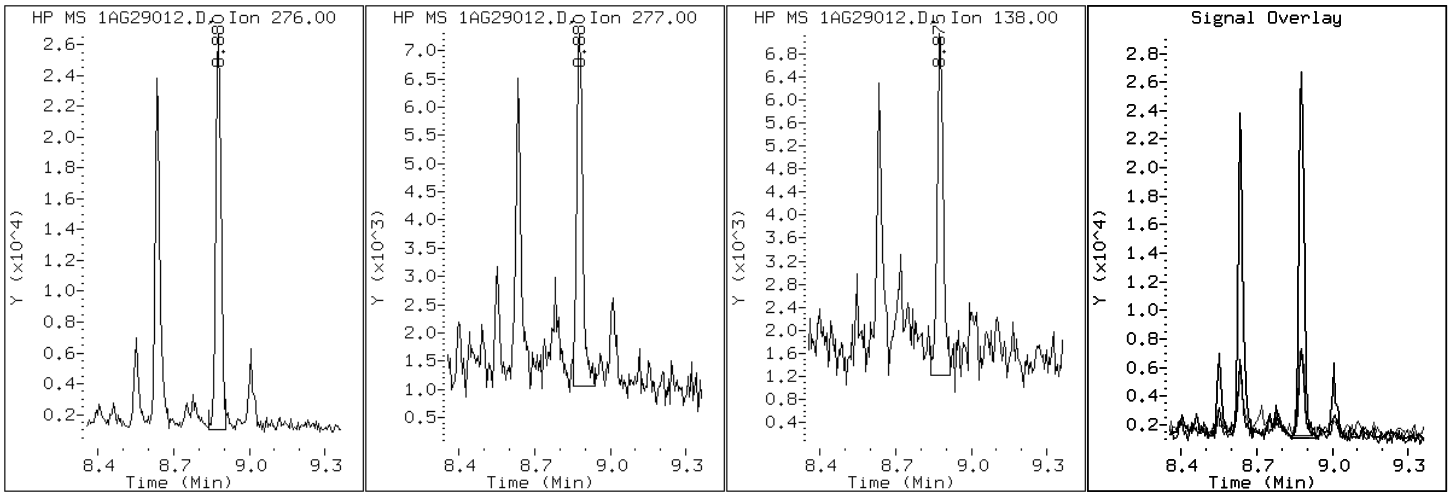
Data File: 1AG29012.D

Date: 29-JUL-2013 15:31

Client ID: Instrument: BSMA5973.i

Sample Info: 680-92626-a-4-a Operator: SCC

27 Benzo(g,h,i)perylene



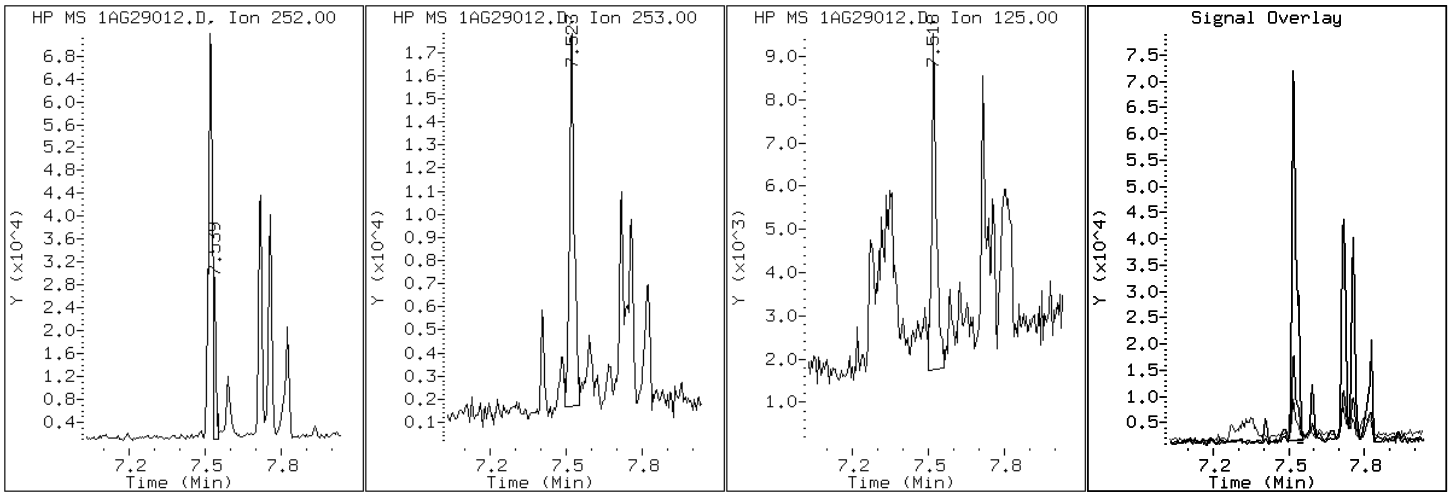
Data File: 1AG29012.D

Date: 29-JUL-2013 15:31

Client ID: Instrument: BSMA5973.i

Sample Info: 680-92626-a-4-a Operator: SCC

22 Benzo(k)fluoranthene



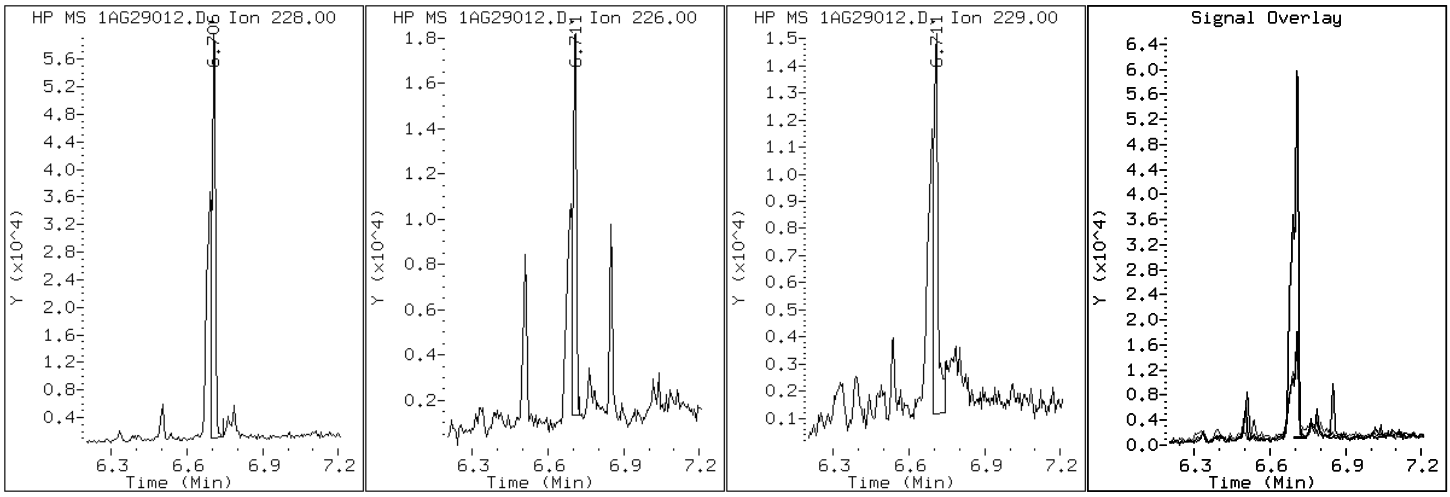
Data File: 1AG29012.D

Date: 29-JUL-2013 15:31

Client ID: Instrument: BSMA5973.i

Sample Info: 680-92626-a-4-a Operator: SCC

20 Chrysene



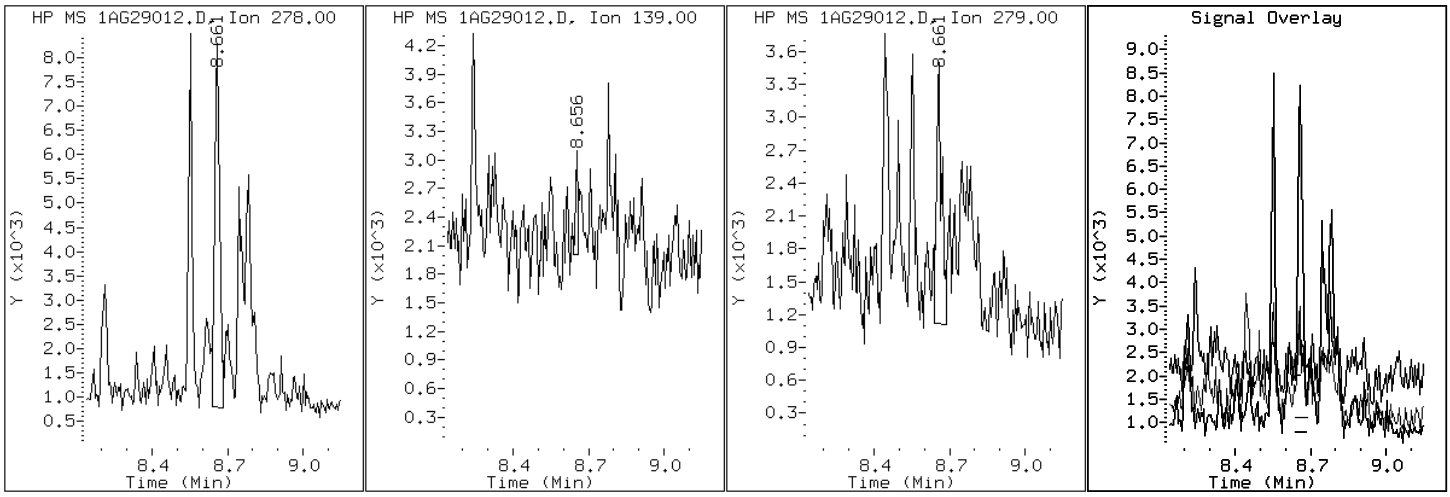
Data File: 1AG29012.D

Date: 29-JUL-2013 15:31

Client ID: Instrument: BSMA5973.i

Sample Info: 680-92626-a-4-a Operator: SCC

26 Dibenzo(a,h)anthracene



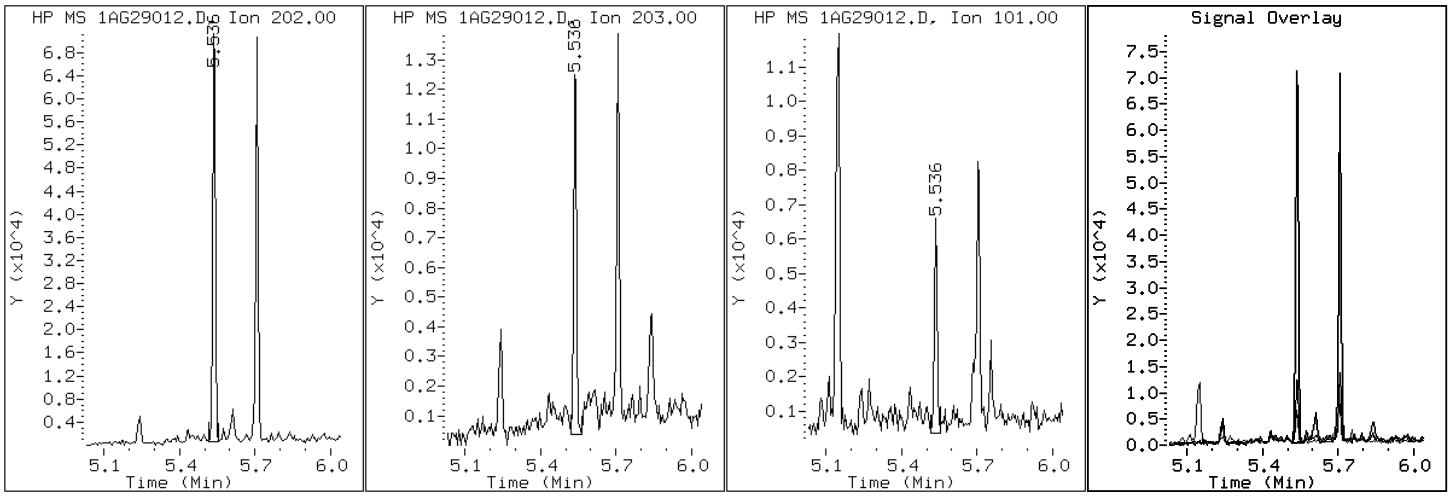
Data File: 1AG29012.D

Date: 29-JUL-2013 15:31

Client ID: Instrument: BSMA5973.i

Sample Info: 680-92626-a-4-a Operator: SCC

16 Fluoranthene



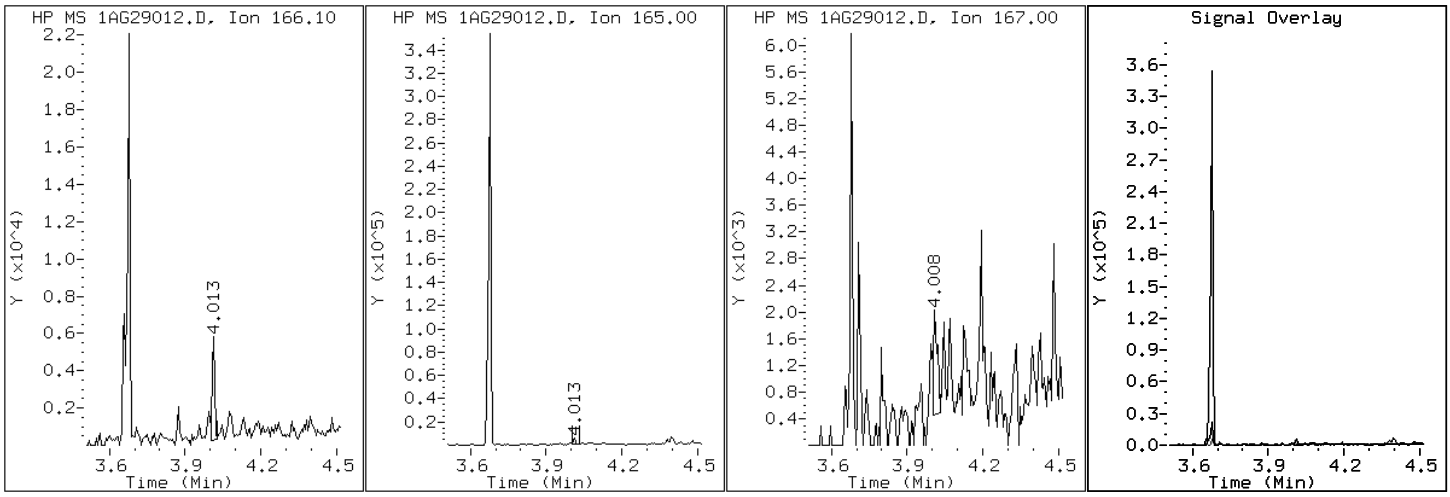
Data File: 1AG29012.D

Date: 29-JUL-2013 15:31

Client ID: Instrument: BSMA5973.i

Sample Info: 680-92626-a-4-a Operator: SCC

10 Fluorene



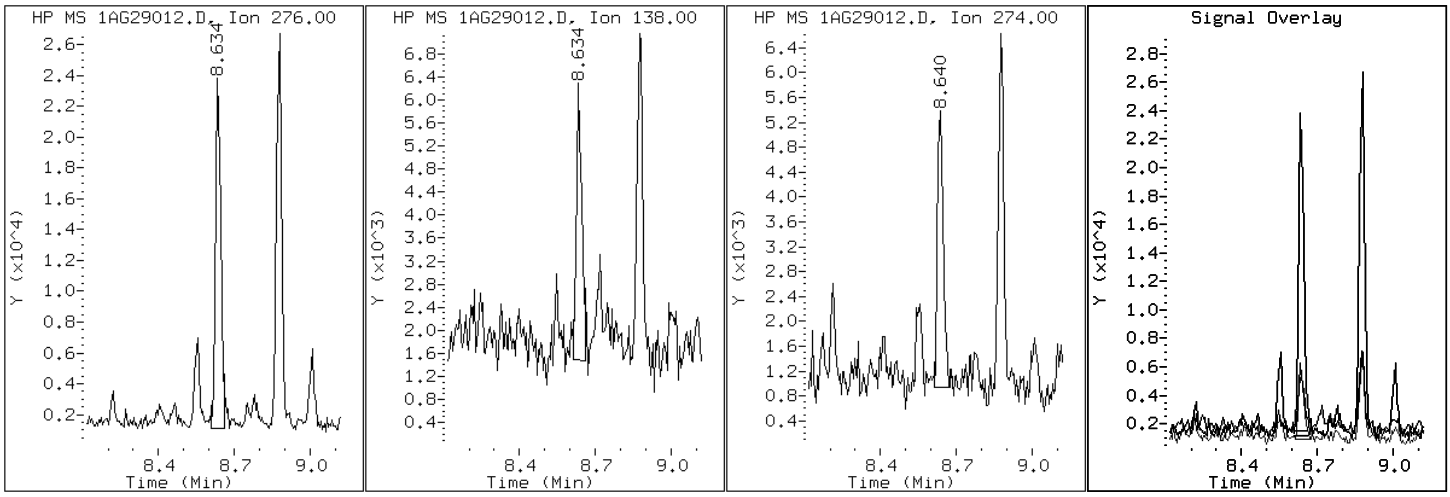
Data File: 1AG29012.D

Date: 29-JUL-2013 15:31

Client ID: Instrument: BSMA5973.i

Sample Info: 680-92626-a-4-a Operator: SCC

25 Indeno(1,2,3-cd)pyrene



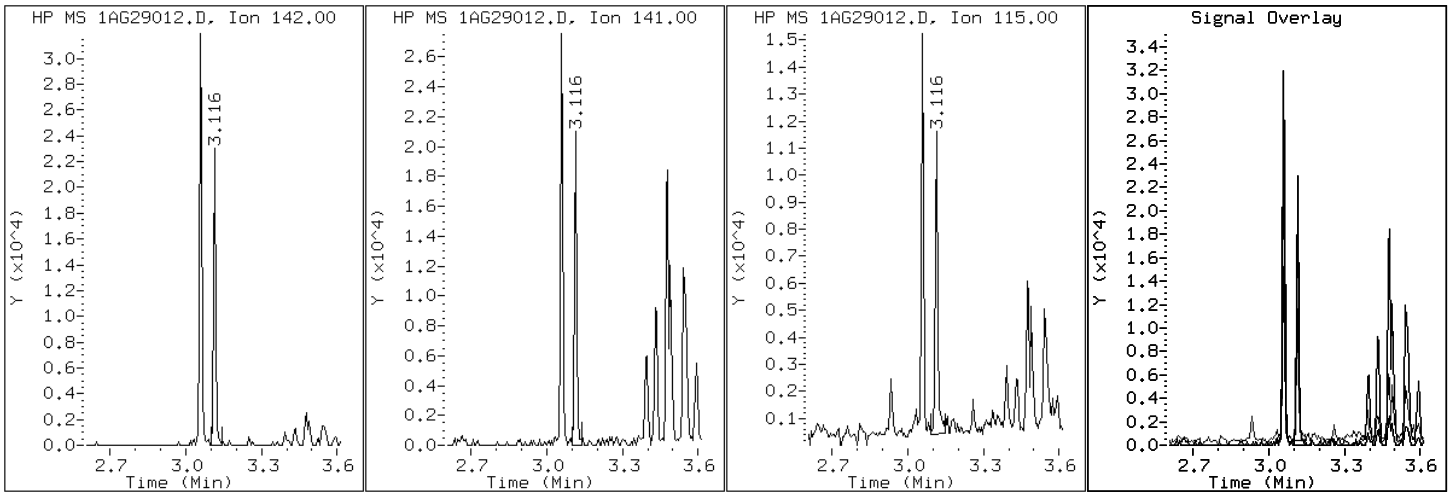
Data File: 1AG29012.D

Date: 29-JUL-2013 15:31

Client ID: Instrument: BSMA5973.i

Sample Info: 680-92626-a-4-a Operator: SCC

4 1-Methylnaphthalene



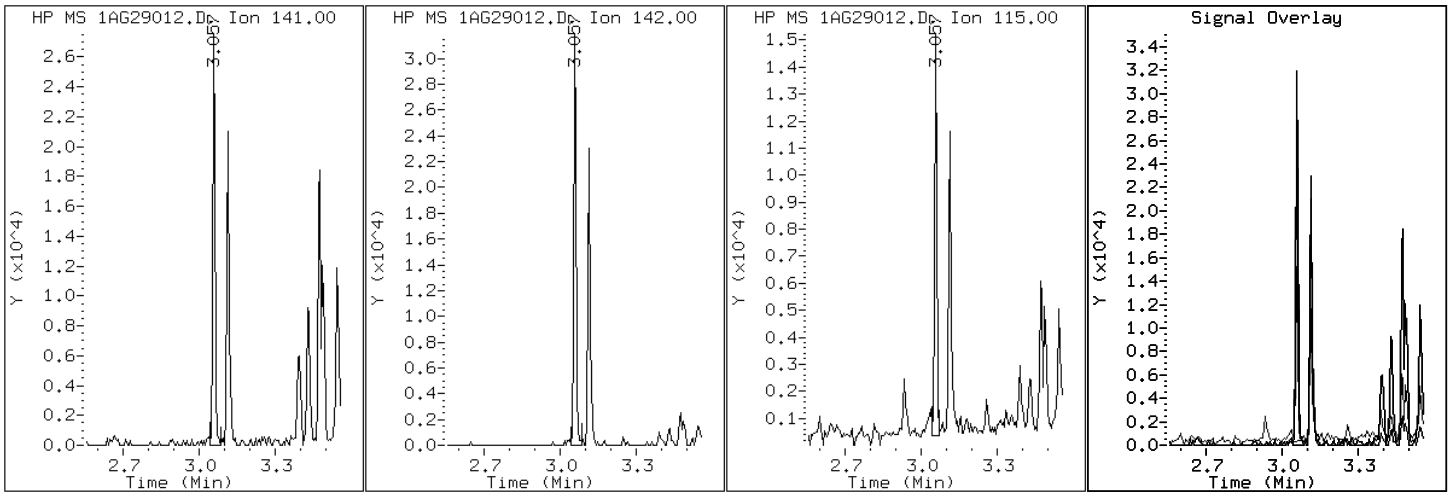
Data File: 1AG29012.D

Date: 29-JUL-2013 15:31

Client ID: Instrument: BSMA5973.i

Sample Info: 680-92626-a-4-a Operator: SCC

3 2-Methylnaphthalene



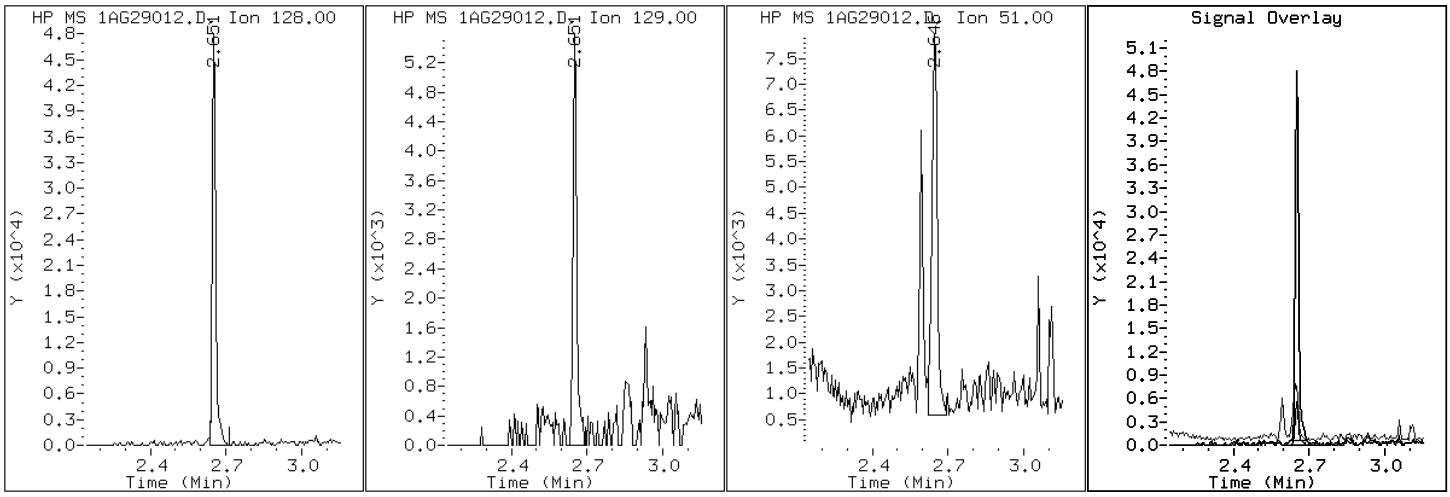
Data File: 1AG29012.D

Date: 29-JUL-2013 15:31

Client ID: Instrument: BSMA5973.i

Sample Info: 680-92626-a-4-a Operator: SCC

2 Naphthalene



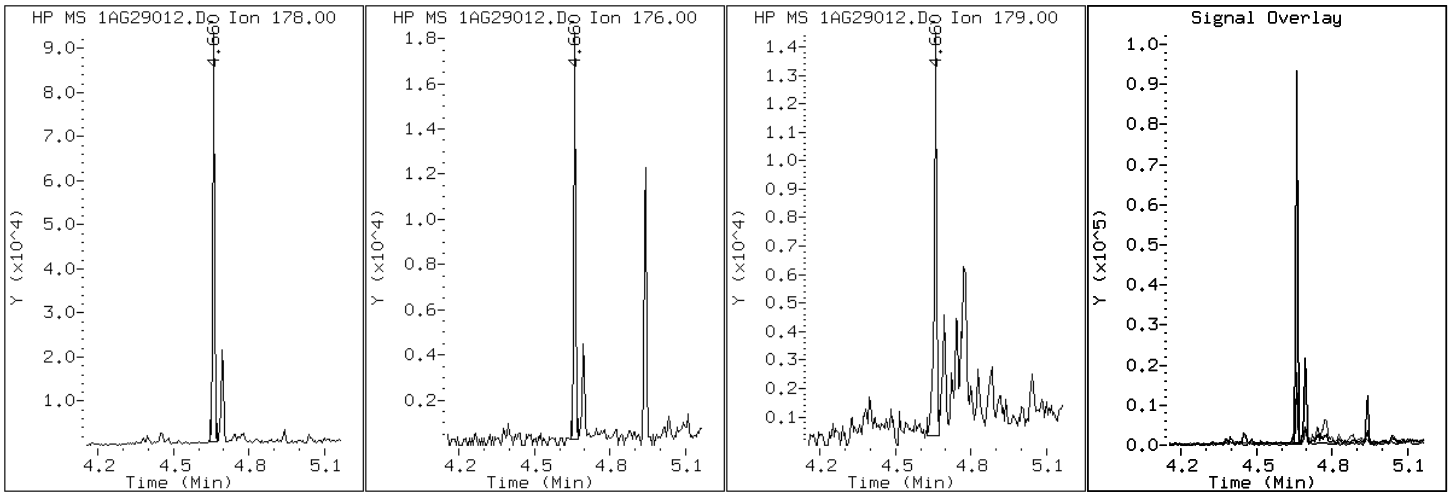
Data File: 1AG29012.D

Date: 29-JUL-2013 15:31

Client ID: Instrument: BSMA5973.i

Sample Info: 680-92626-a-4-a Operator: SCC

12 Phenanthrene



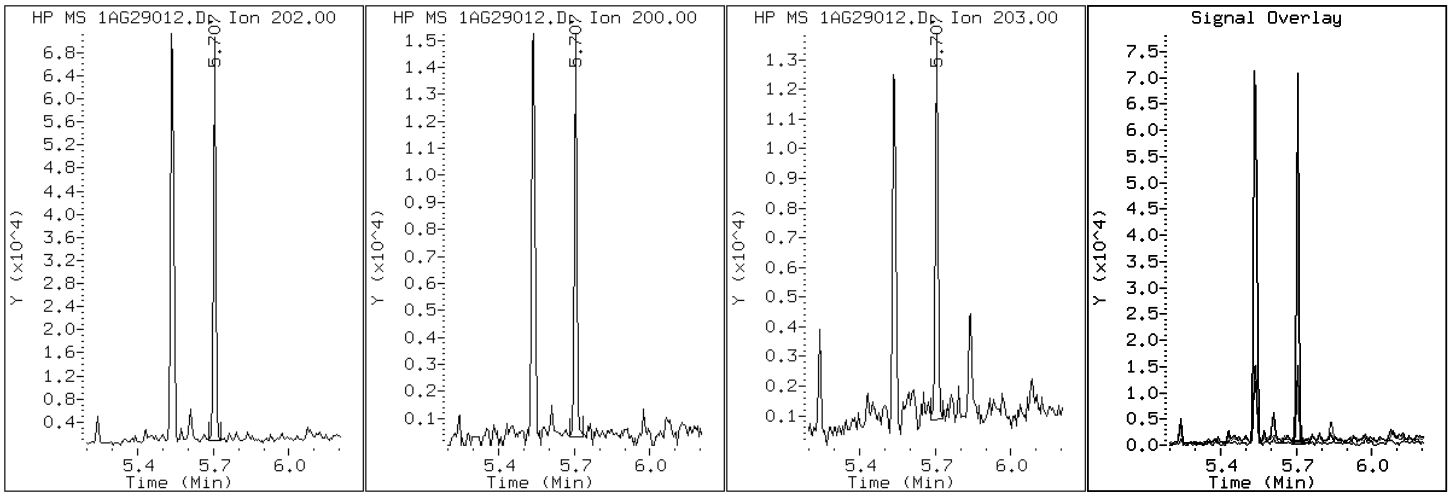
Data File: 1AG29012.D

Date: 29-JUL-2013 15:31

Client ID: Instrument: BSMA5973.i

Sample Info: 680-92626-a-4-a Operator: SCC

17 Pyrene



Manual Integration Report

Data File: 1AG29012.D
Inj. Date and Time: 29-JUL-2013 15:31
Instrument ID: BSMA5973.i
Client ID:
Compound: 21 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 07/30/2013

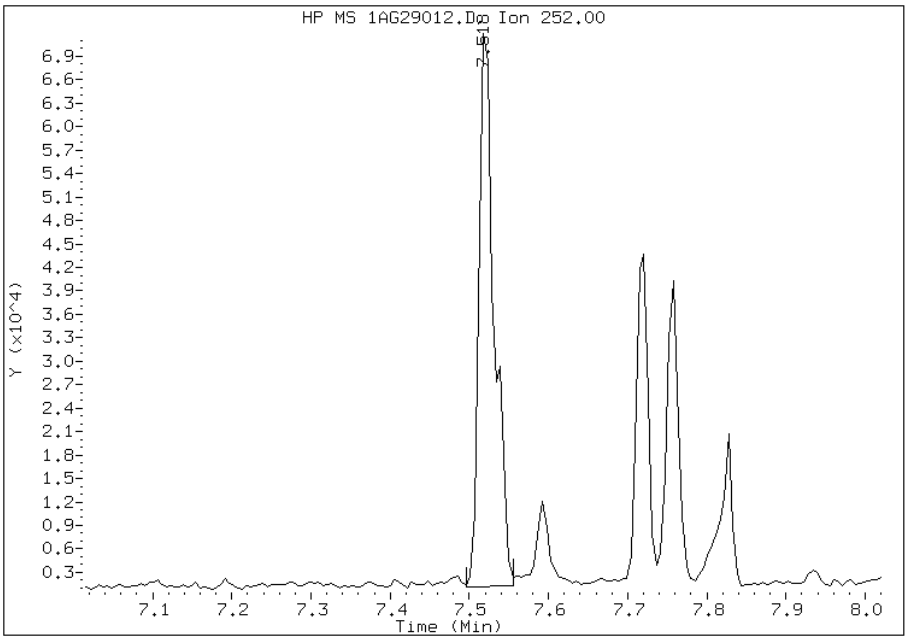
Processing Integration Results

RT: 7.52

Response: 94329

Amount: 1

Conc: 111



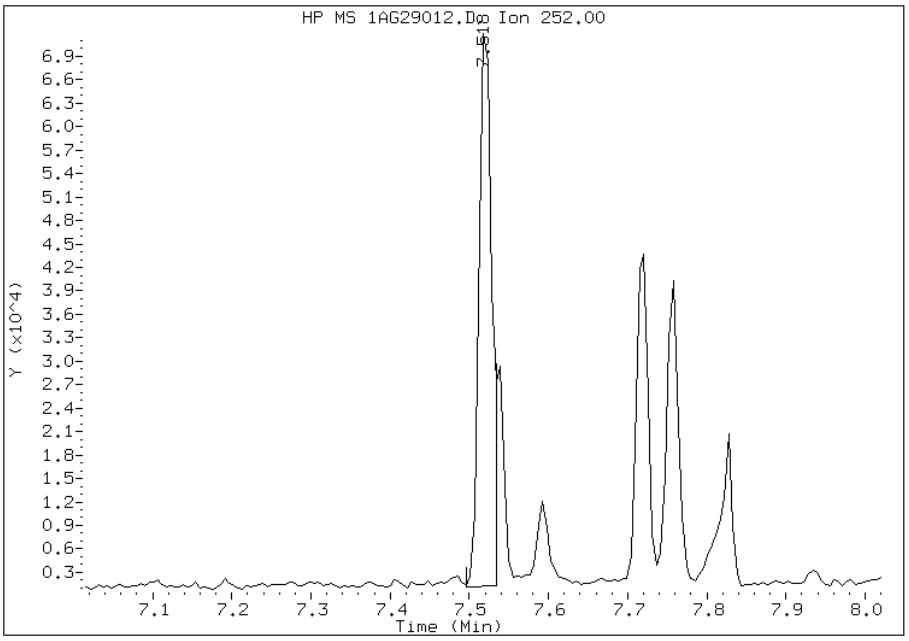
Manual Integration Results

RT: 7.52

Response: 79788

Amount: 1

Conc: 94



Manually Integrated By: cantins
Modification Date: 30-Jul-2013 12:46
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AG29012.D
Inj. Date and Time: 29-JUL-2013 15:31
Instrument ID: BSMA5973.i
Client ID:
Compound: 22 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 07/30/2013

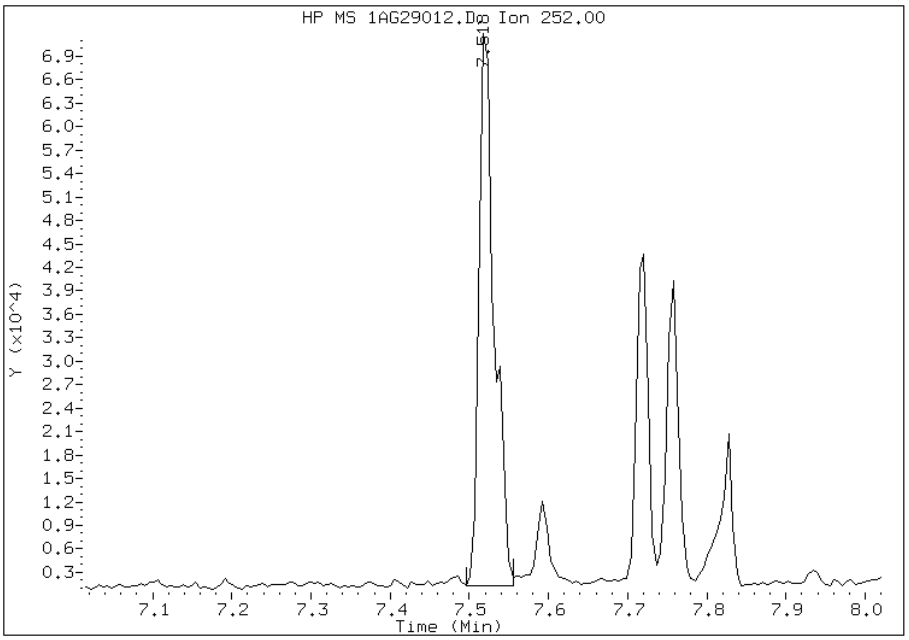
Processing Integration Results

RT: 7.52

Response: 94185

Amount: 1

Conc: 107



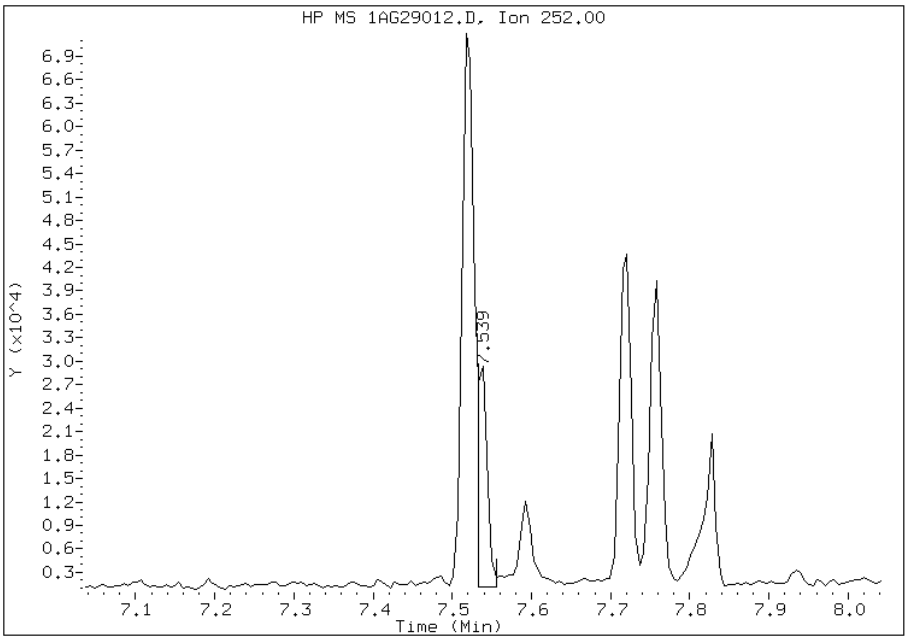
Manual Integration Results

RT: 7.54

Response: 22997

Amount: 0

Conc: 26



Manually Integrated By: cantins
Modification Date: 30-Jul-2013 12:46
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AG29012.D
Inj. Date and Time: 29-JUL-2013 15:31
Instrument ID: BSMA5973.i
Client ID:
Compound: 25 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 07/30/2013

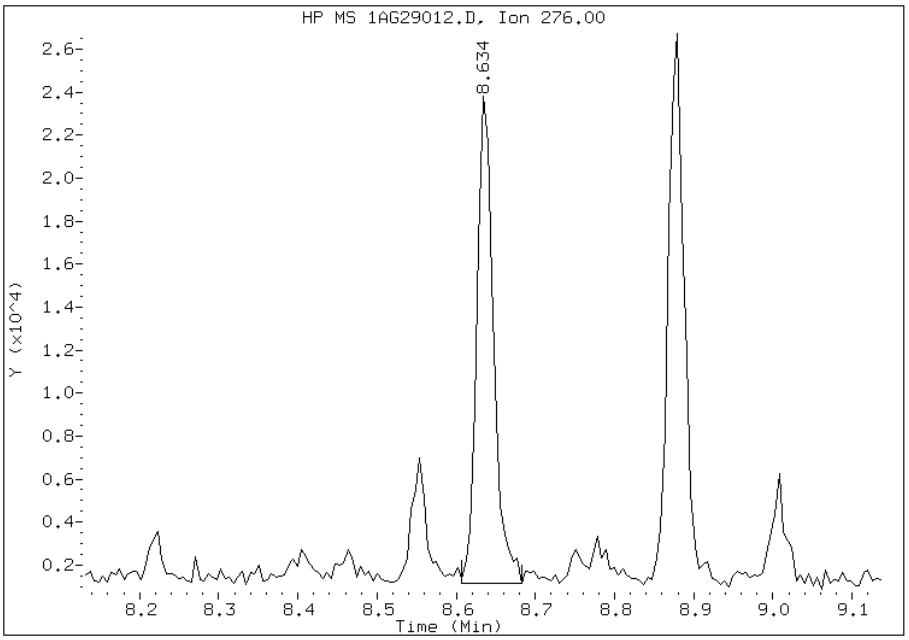
Processing Integration Results

RT: 8.63

Response: 32873

Amount: 1

Conc: 48



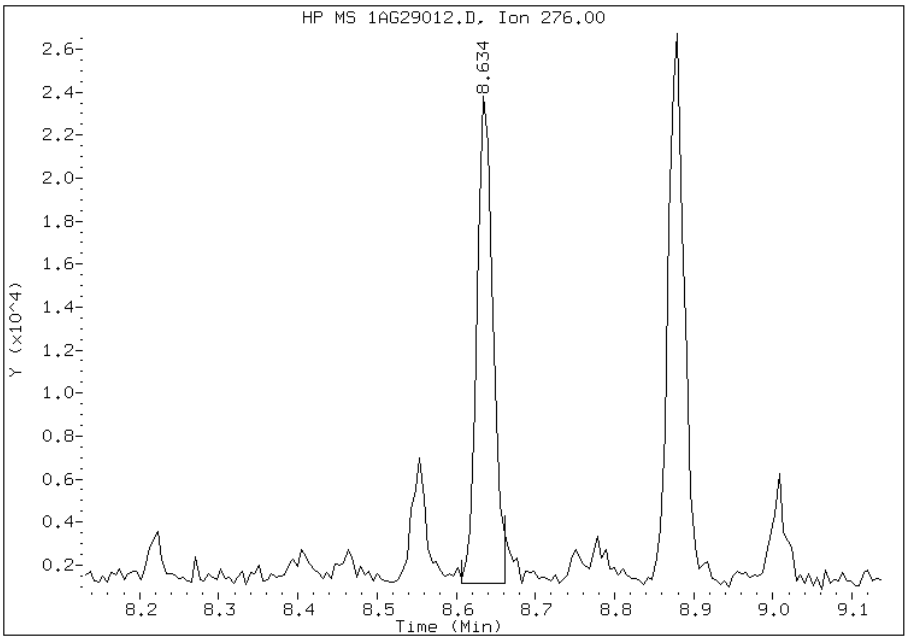
Manual Integration Results

RT: 8.63

Response: 31638

Amount: 1

Conc: 46



Manually Integrated By: cantins
Modification Date: 30-Jul-2013 12:46
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-92626-1

SDG No.: 680-92626-01

Client Sample ID: CV0827A-VGSO-CS | Lab Sample ID: 680-92626-5

Matrix: Solid | Lab File ID: 1AG29013.D

Analysis Method: 8270C LL | Date Collected: 07/23/2013 09:45

Extract. Method: 3546 | Date Extracted: 07/26/2013 14:59

Sample wt/vol: 15.03(g) | Date Analyzed: 07/29/2013 15:46

Con. Extract Vol.: 1(mL) | Dilution Factor: 4

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 30.9 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 139909 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	580	U	580	120
208-96-8	Acenaphthylene	48	J	230	29
120-12-7	Anthracene	52		49	24
56-55-3	Benzo[a]anthracene	140		46	23
50-32-8	Benzo[a]pyrene	120		60	30
205-99-2	Benzo[b]fluoranthene	200		71	35
191-24-2	Benzo[g,h,i]perylene	140		120	25
207-08-9	Benzo[k]fluoranthene	56		46	21
218-01-9	Chrysene	220		52	26
53-70-3	Dibenz(a,h)anthracene	39	J	120	24
206-44-0	Fluoranthene	240		120	23
86-73-7	Fluorene	120	U	120	24
193-39-5	Indeno[1,2,3-cd]pyrene	110	J	120	41
90-12-0	1-Methylnaphthalene	110	J	230	25
91-57-6	2-Methylnaphthalene	130	J	230	41
91-20-3	Naphthalene	99	J	230	25
85-01-8	Phenanthrene	240		46	23
129-00-0	Pyrene	200		120	21

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	50		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A072913.b\1AG29013.D
Lab Smp Id: 680-92626-a-5-a
Inj Date : 29-JUL-2013 15:46
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-92626-a-5-a
Misc Info : 4.0
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A072913.b\a-bFASTPAHi-m.m
Meth Date : 29-Jul-2013 12:10 cantins Quant Type: ISTD
Cal Date : 07-JUL-2013 15:46 Cal File: 1AG07012.D
Als bottle: 13
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14

Concentration Formula:
Amt * DF * 1/Vi * Vt/Ws * 100/(100 - M) * A * B * C * D * GPC * CpndVariable

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.030	Weight Extracted
M	31.000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
*	1 Naphthalene-d8	136	2.646	2.640	(1.000)	2637871	40.0000	
*	7 Acenaphthene-d10	164	3.677	3.671	(1.000)	1639002	40.0000	
*	11 Phenanthrene-d10	188	4.649	4.643	(1.000)	2366727	40.0000	
$	15 o-Terphenyl	230	4.937	4.937	(1.062)	45193	1.25661	484.6786
*	19 Chrysene-d12	240	6.695	6.689	(1.000)	2159343	40.0000	
*	24 Perylene-d12	264	7.801	7.795	(1.000)	2673554	40.0000	
	2 Naphthalene	128	2.656	2.650	(1.004)	15291	0.25656	98.9566
	3 2-Methylnaphthalene	141	3.057	3.056	(1.155)	11229	0.33023	127.3719
	4 1-Methylnaphthalene	142	3.116	3.110	(1.178)	11371	0.28639	110.4607
	6 Acenaphthylene	152	3.586	3.585	(0.975)	9201	0.12585	48.5392
	10 Fluorene	166	4.013	4.013	(1.092)	2533	0.04941	19.0583(Q)
	12 Phenanthrene	178	4.660	4.659	(1.002)	37093	0.61580	237.5167
	13 Anthracene	178	4.692	4.691	(1.009)	8511	0.13550	52.2626
	16 Fluoranthene	202	5.541	5.535	(1.192)	45045	0.62147	239.7009
	17 Pyrene	202	5.707	5.701	(0.852)	36701	0.51054	196.9171

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
18 Benzo(a)anthracene	228	6.690	6.673	(0.999)	31425	0.35471	136.8139
20 Chrysene	228	6.706	6.705	(1.002)	33445	0.57175	220.5249
21 Benzo(b)fluoranthene	252	7.507	7.506	(0.962)	39550	0.51966	200.4354(M)
22 Benzo(k)fluoranthene	252	7.523	7.533	(0.964)	11491	0.14623	56.4008(QM)
23 Benzo(a)pyrene	252	7.742	7.741	(0.992)	21032	0.29882	115.2568
25 Indeno(1,2,3-cd)pyrene	276	8.607	8.617	(1.103)	17427	0.28397	109.5267(M)
26 Dibenzo(a,h)anthracene	278	8.634	8.644	(1.107)	5847	0.10077	38.8661(H)
27 Benzo(g,h,i)perylene	276	8.853	8.858	(1.135)	20580	0.35370	136.4219

QC Flag Legend

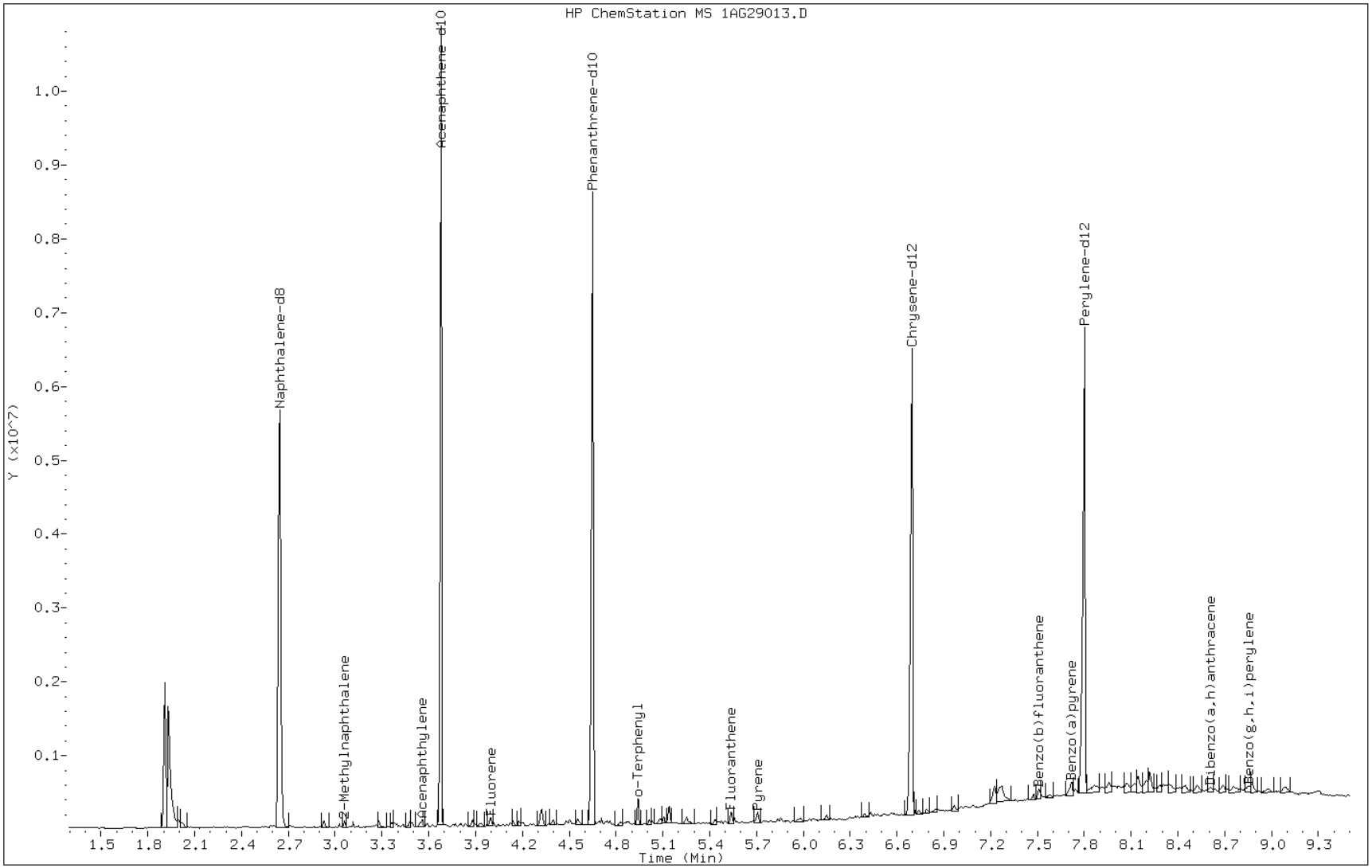
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1AG29013.D

Date: 29-JUL-2013 15:46

Client ID: Instrument: BSMA5973.i

Sample Info: 680-92626-a-5-a Operator: SCC



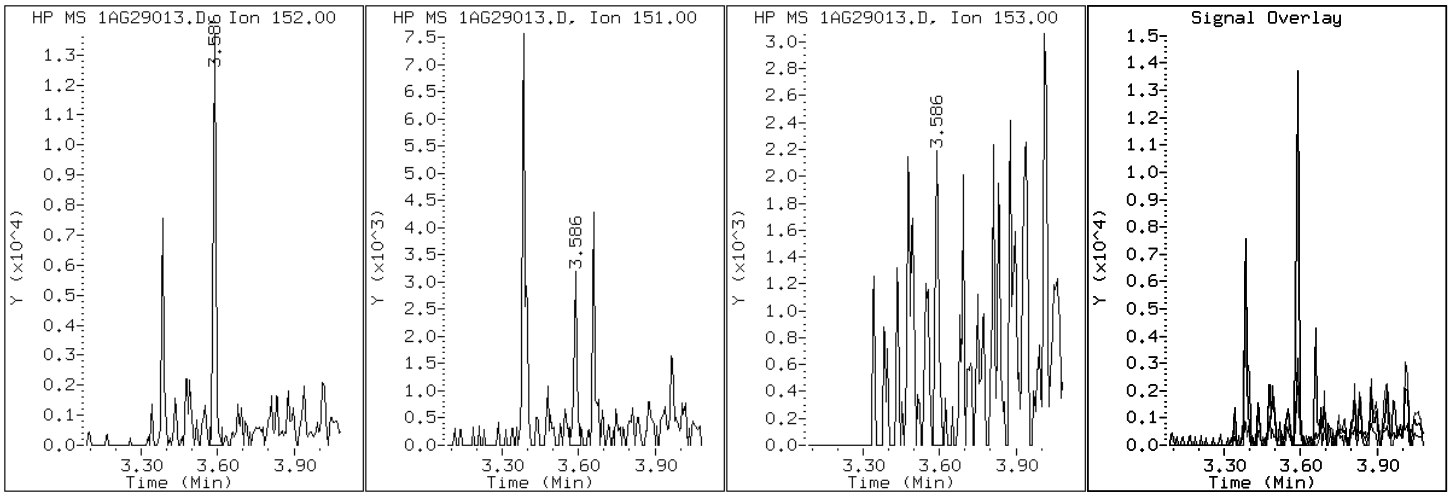
Data File: 1AG29013.D

Date: 29-JUL-2013 15:46

Client ID: Instrument: BSMA5973.i

Sample Info: 680-92626-a-5-a Operator: SCC

6 Acenaphthylene



Data File: 1AG29013.D

Date: 29-JUL-2013 15:46

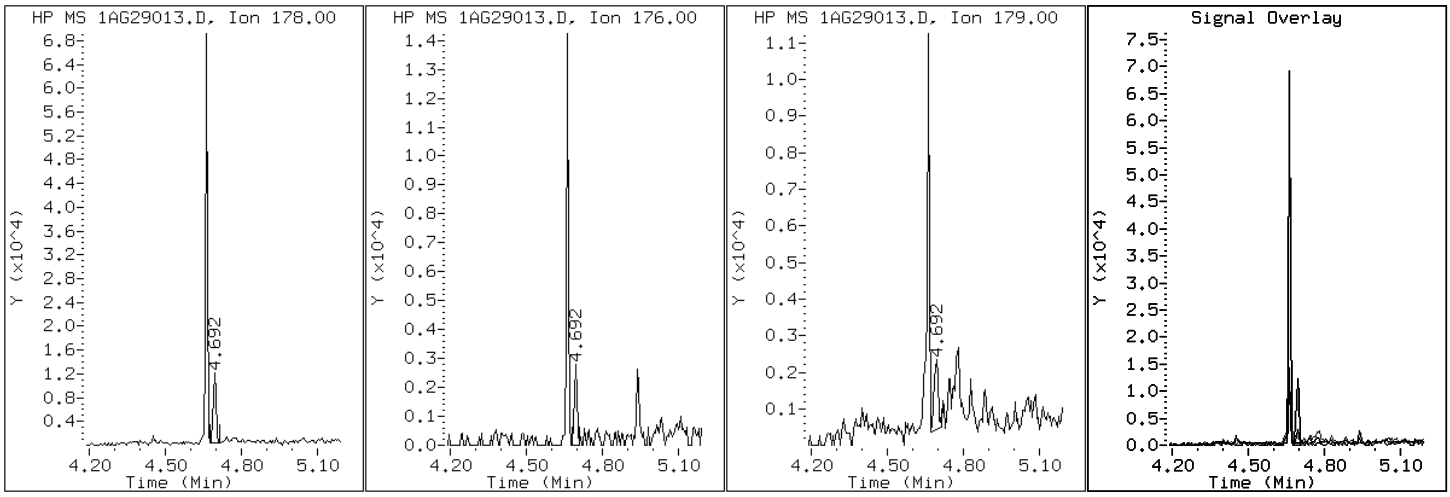
Client ID:

Instrument: BSMA5973.i

Sample Info: 680-92626-a-5-a

Operator: SCC

13 Anthracene



Data File: 1AG29013.D

Date: 29-JUL-2013 15:46

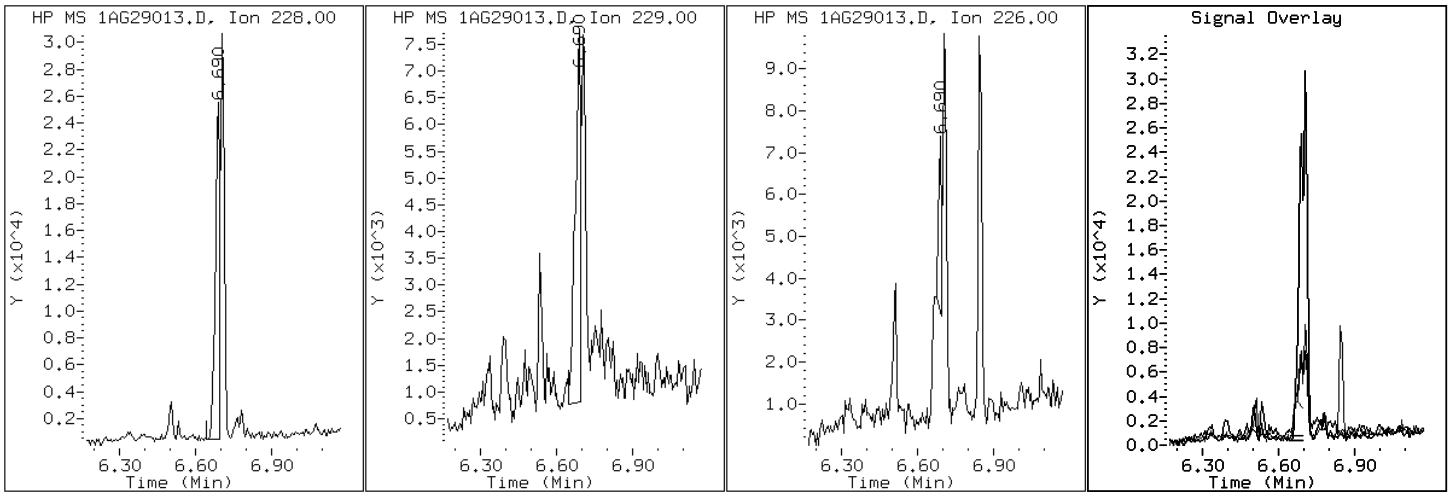
Client ID:

Instrument: BSMA5973.i

Sample Info: 680-92626-a-5-a

Operator: SCC

18 Benzo(a)anthracene



Data File: 1AG29013.D

Date: 29-JUL-2013 15:46

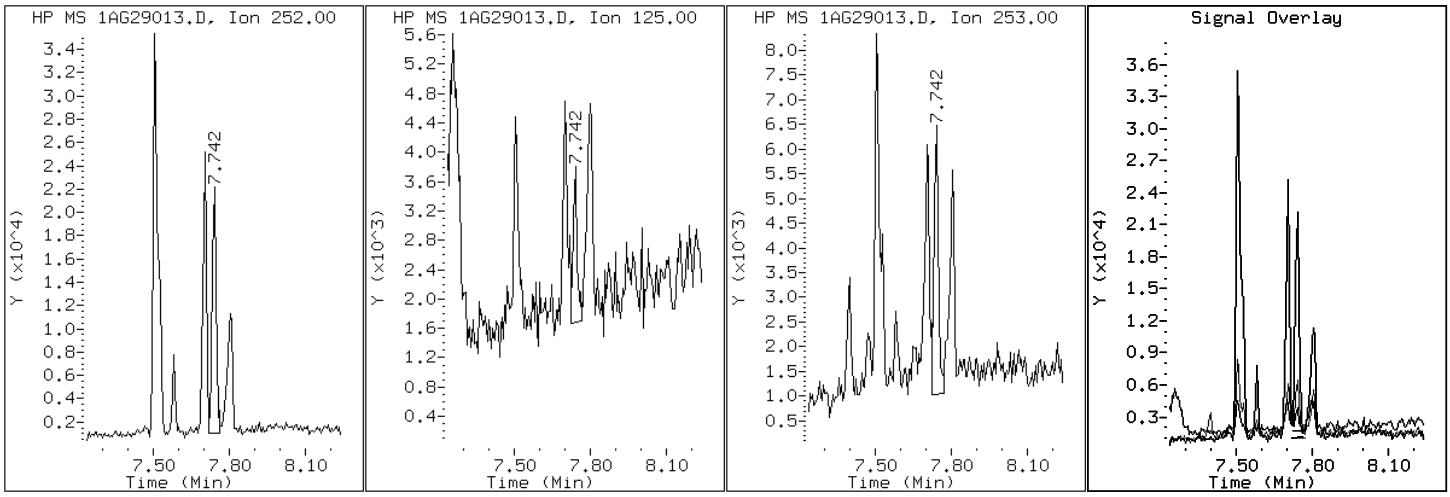
Client ID:

Instrument: BSMA5973.i

Sample Info: 680-92626-a-5-a

Operator: SCC

23 Benzo(a)pyrene



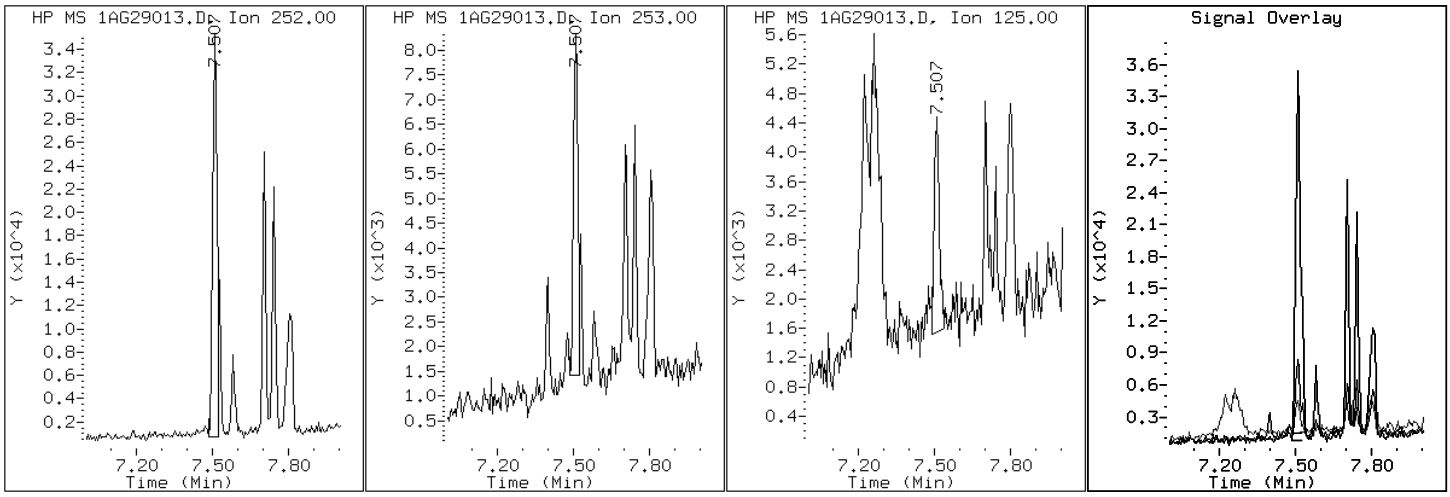
Data File: 1AG29013.D

Date: 29-JUL-2013 15:46

Client ID: Instrument: BSMA5973.i

Sample Info: 680-92626-a-5-a Operator: SCC

21 Benzo(b)fluoranthene



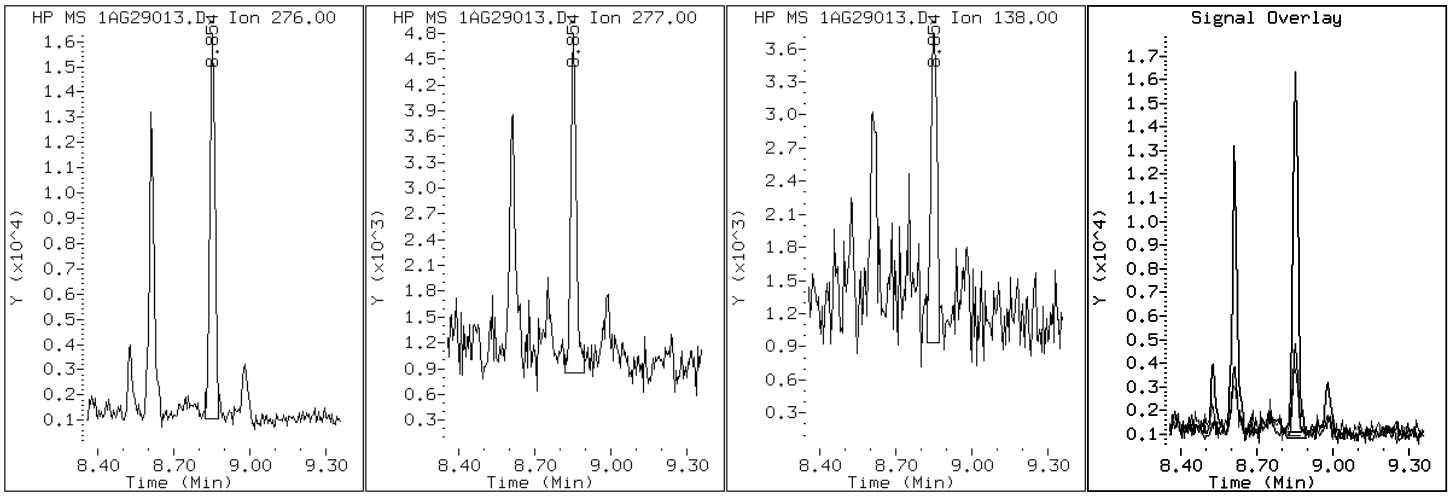
Data File: 1AG29013.D

Date: 29-JUL-2013 15:46

Client ID: Instrument: BSMA5973.i

Sample Info: 680-92626-a-5-a Operator: SCC

27 Benzo(g,h,i)perylene



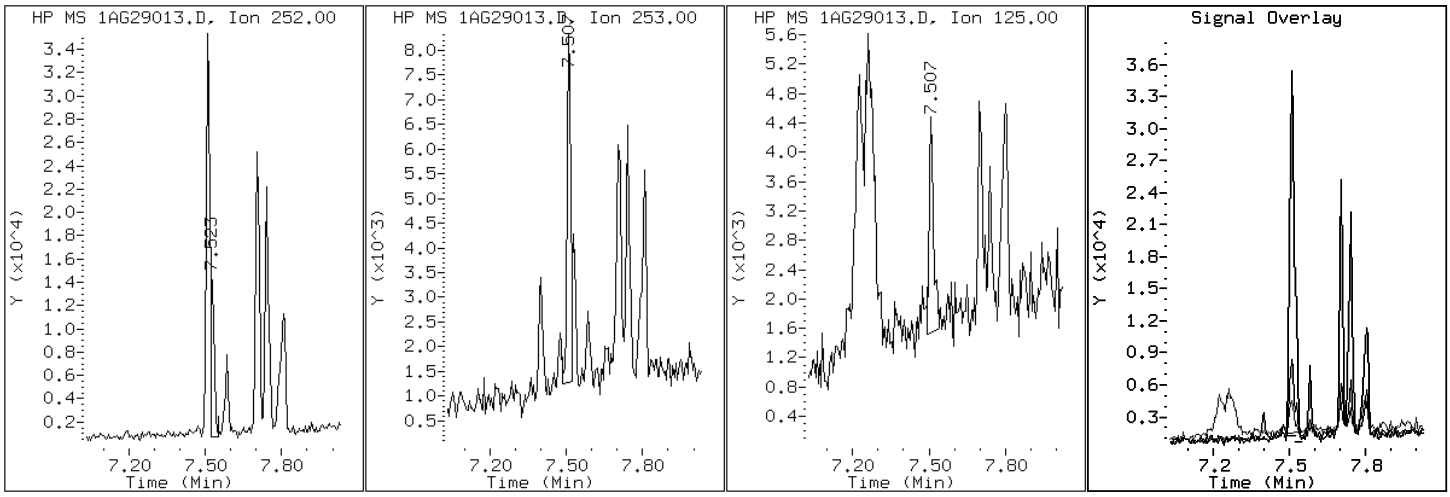
Data File: 1AG29013.D

Date: 29-JUL-2013 15:46

Client ID: Instrument: BSMA5973.i

Sample Info: 680-92626-a-5-a Operator: SCC

22 Benzo(k)fluoranthene



Data File: 1AG29013.D

Date: 29-JUL-2013 15:46

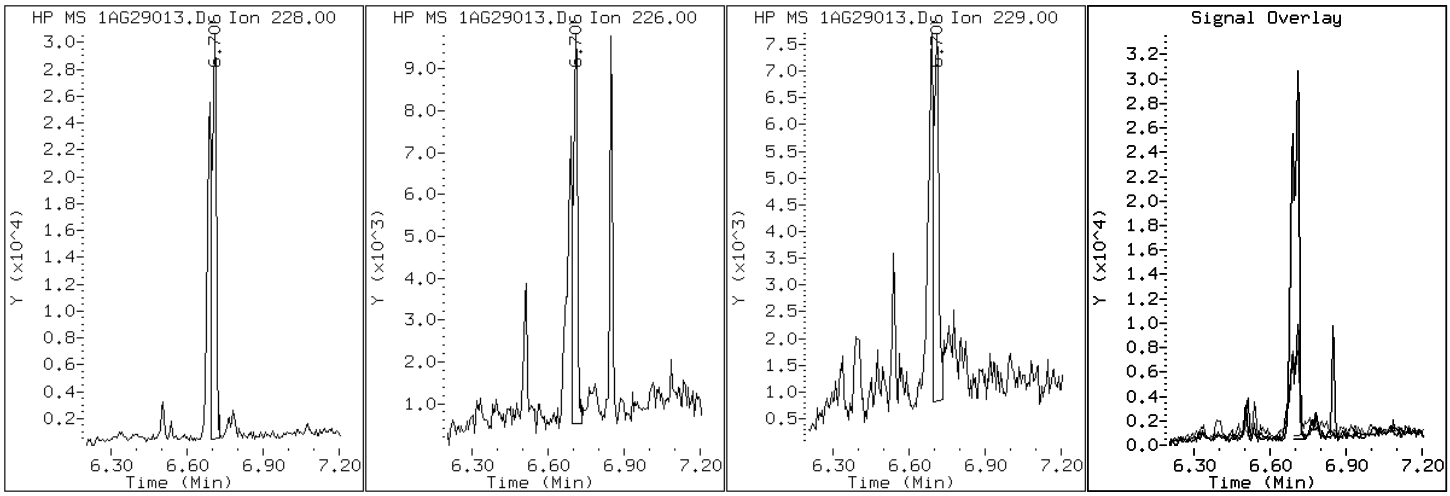
Client ID:

Instrument: BSMA5973.i

Sample Info: 680-92626-a-5-a

Operator: SCC

20 Chrysene



Data File: 1AG29013.D

Date: 29-JUL-2013 15:46

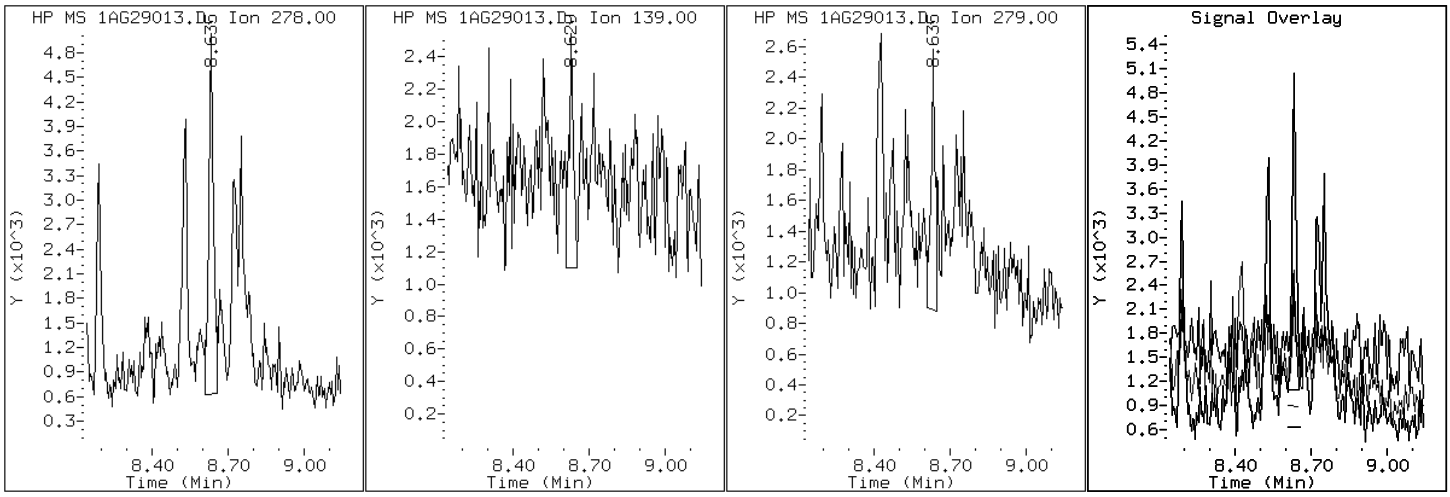
Client ID:

Instrument: BSMA5973.i

Sample Info: 680-92626-a-5-a

Operator: SCC

26 Dibenzo(a,h)anthracene



Data File: 1AG29013.D

Date: 29-JUL-2013 15:46

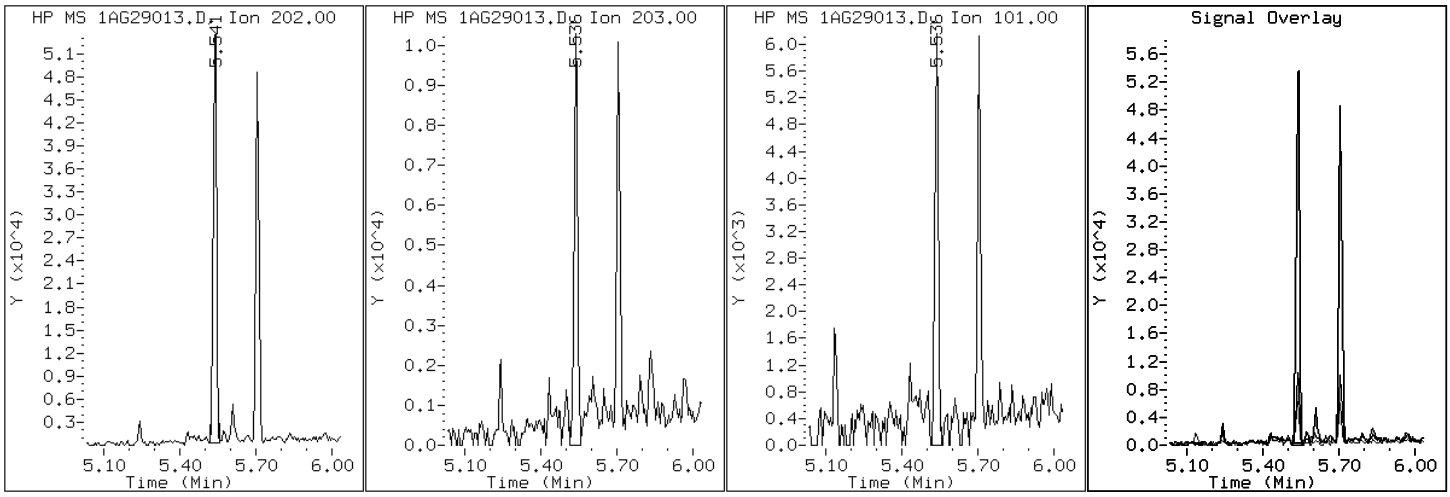
Client ID:

Instrument: BSMA5973.i

Sample Info: 680-92626-a-5-a

Operator: SCC

16 Fluoranthene



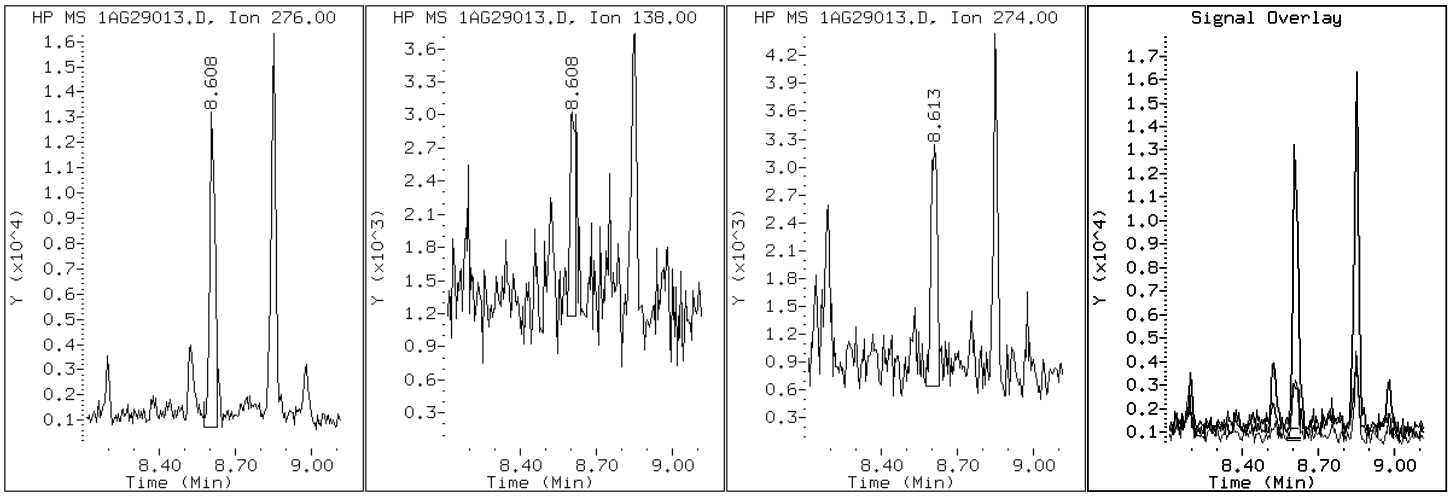
Data File: 1AG29013.D

Date: 29-JUL-2013 15:46

Client ID: Instrument: BSMA5973.i

Sample Info: 680-92626-a-5-a Operator: SCC

25 Indeno(1,2,3-cd)pyrene



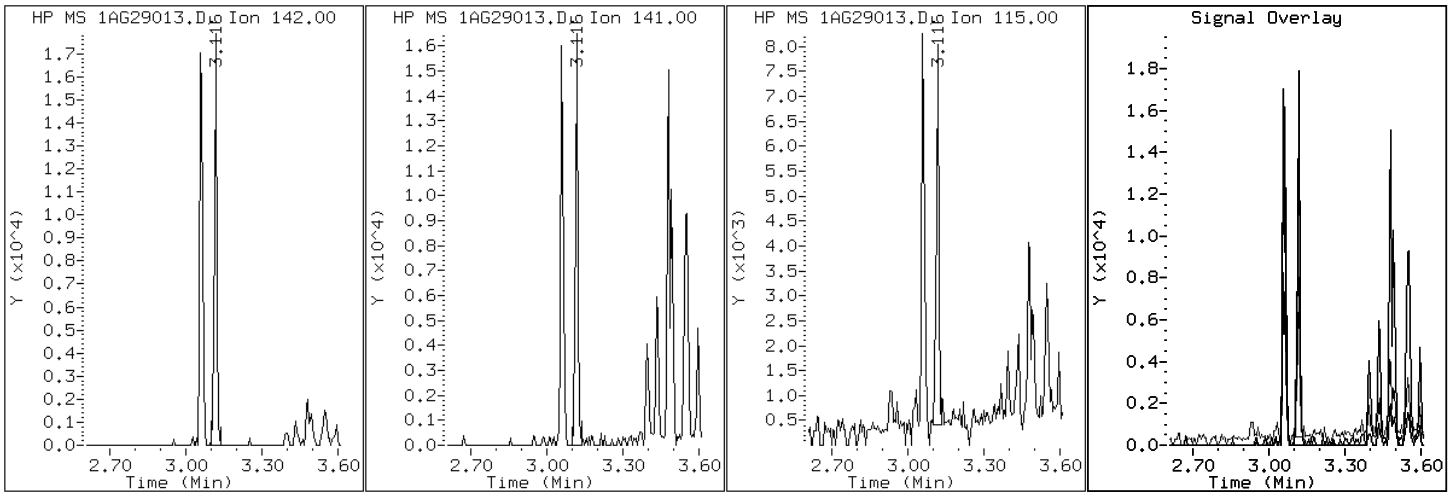
Data File: 1AG29013.D

Date: 29-JUL-2013 15:46

Client ID: Instrument: BSMA5973.i

Sample Info: 680-92626-a-5-a Operator: SCC

4 1-Methylnaphthalene



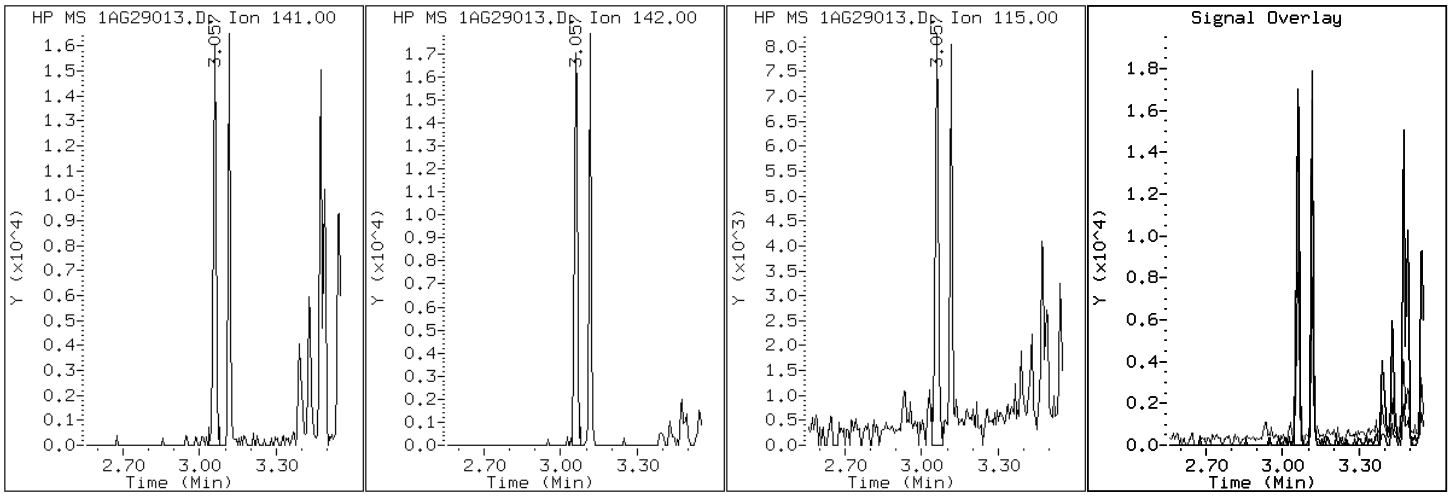
Data File: 1AG29013.D

Date: 29-JUL-2013 15:46

Client ID: Instrument: BSMA5973.i

Sample Info: 680-92626-a-5-a Operator: SCC

3 2-Methylnaphthalene



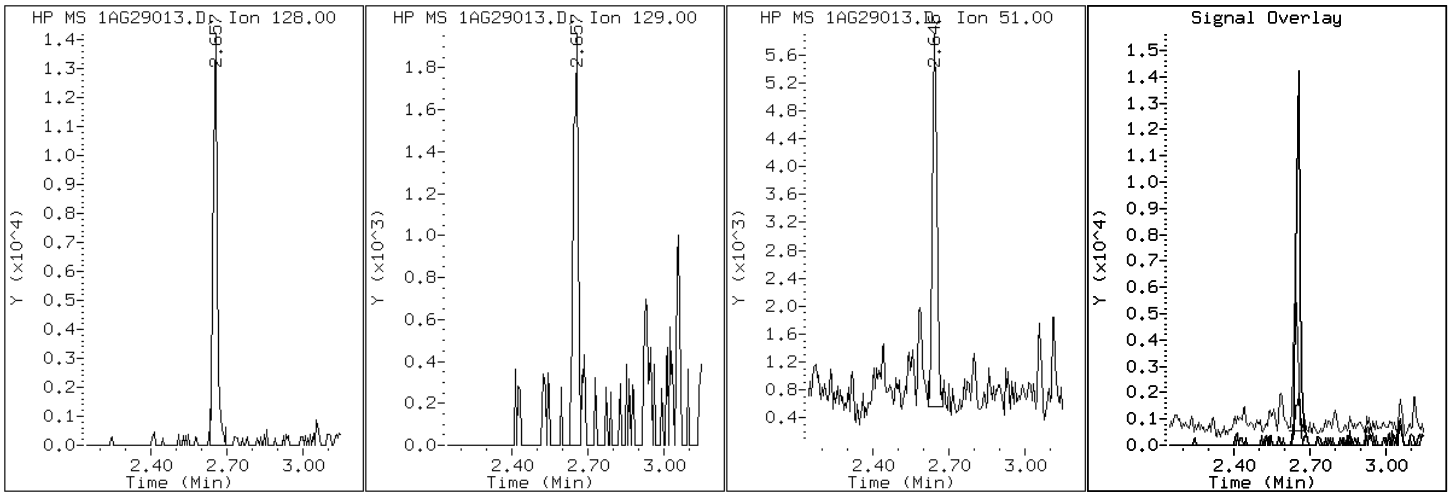
Data File: 1AG29013.D

Date: 29-JUL-2013 15:46

Client ID: Instrument: BSMA5973.i

Sample Info: 680-92626-a-5-a Operator: SCC

2 Naphthalene



Data File: 1AG29013.D

Date: 29-JUL-2013 15:46

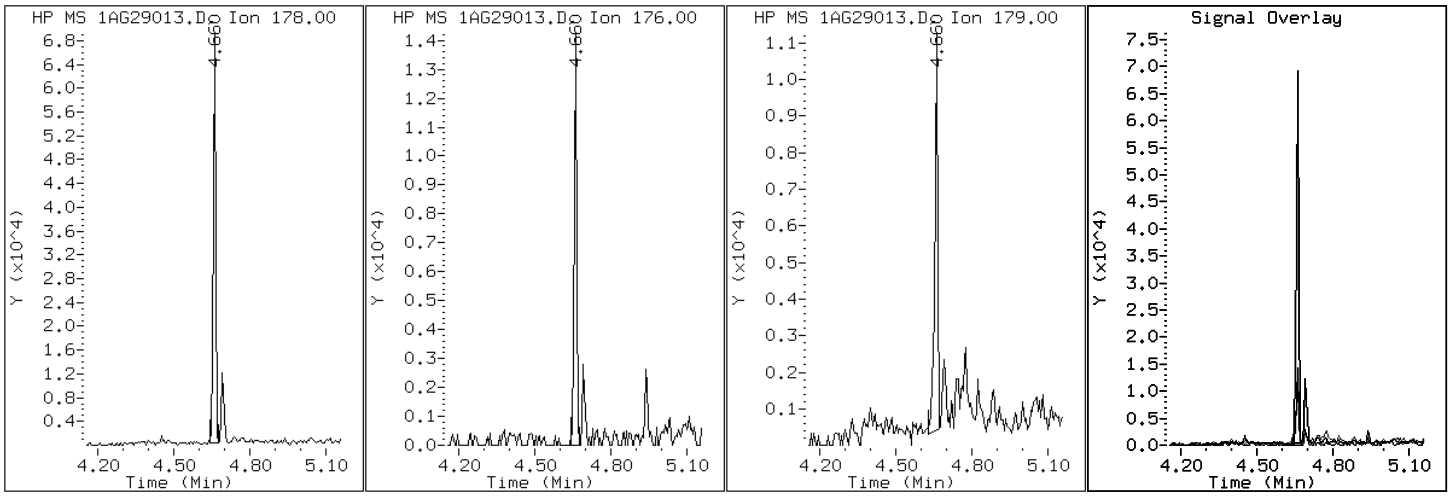
Client ID:

Instrument: BSMA5973.i

Sample Info: 680-92626-a-5-a

Operator: SCC

12 Phenanthrene



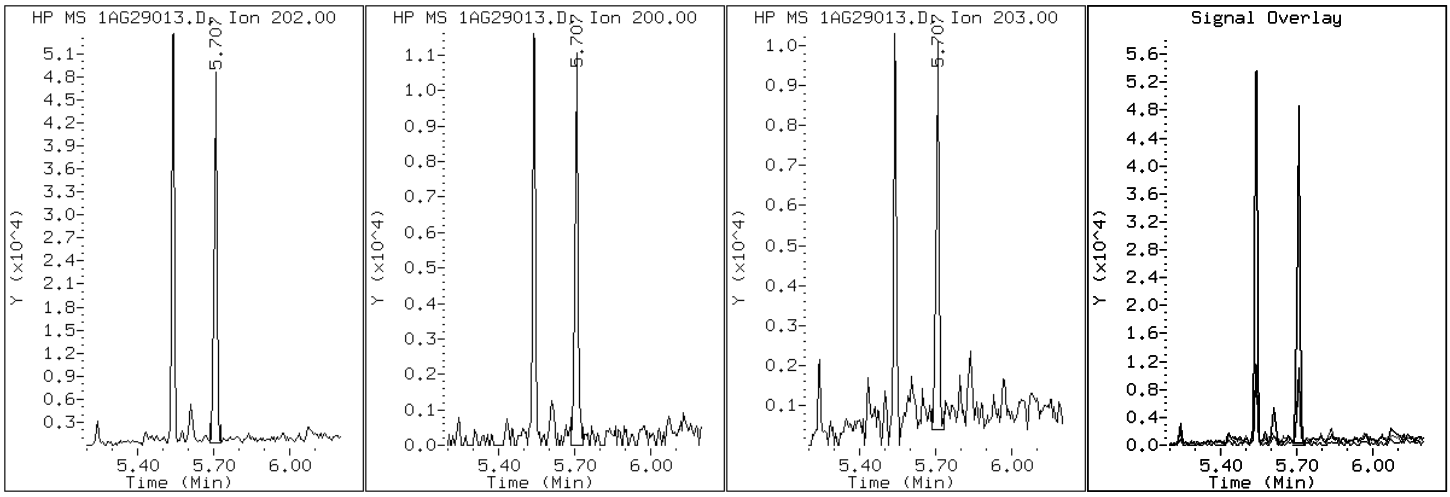
Data File: 1AG29013.D

Date: 29-JUL-2013 15:46

Client ID: Instrument: BSMA5973.i

Sample Info: 680-92626-a-5-a Operator: SCC

17 Pyrene



Manual Integration Report

Data File: 1AG29013.D
Inj. Date and Time: 29-JUL-2013 15:46
Instrument ID: BSMA5973.i
Client ID:
Compound: 21 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 07/30/2013

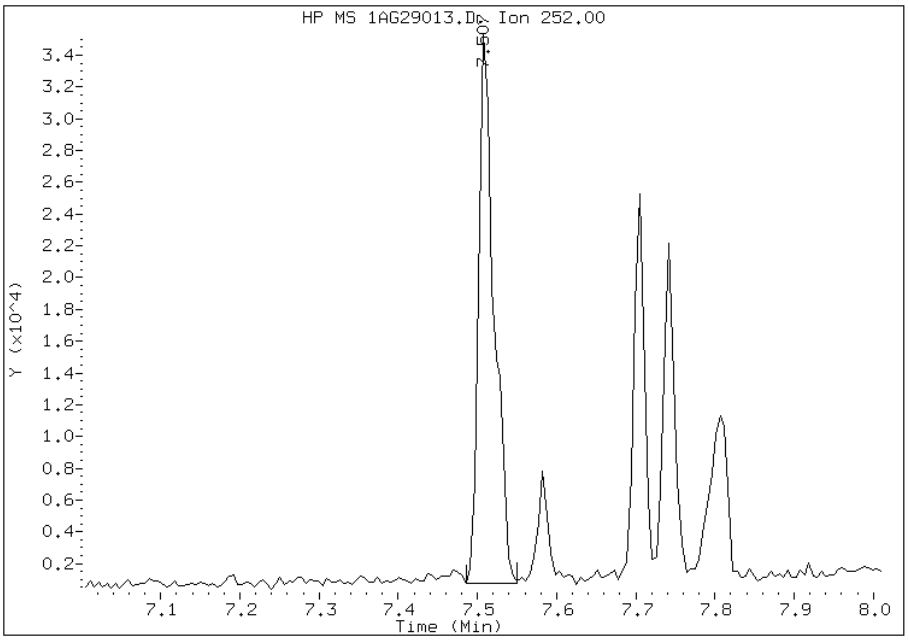
Processing Integration Results

RT: 7.51

Response: 46461

Amount: 1

Conc: 235



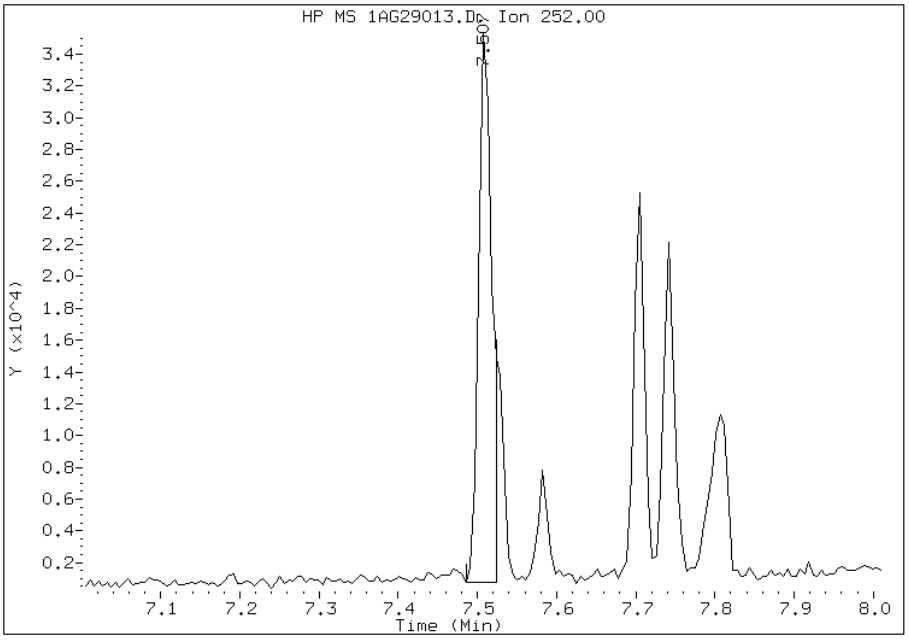
Manual Integration Results

RT: 7.51

Response: 39550

Amount: 1

Conc: 200



Manually Integrated By: cantins
Modification Date: 30-Jul-2013 12:47
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AG29013.D
Inj. Date and Time: 29-JUL-2013 15:46
Instrument ID: BSMA5973.i
Client ID:
Compound: 22 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 07/30/2013

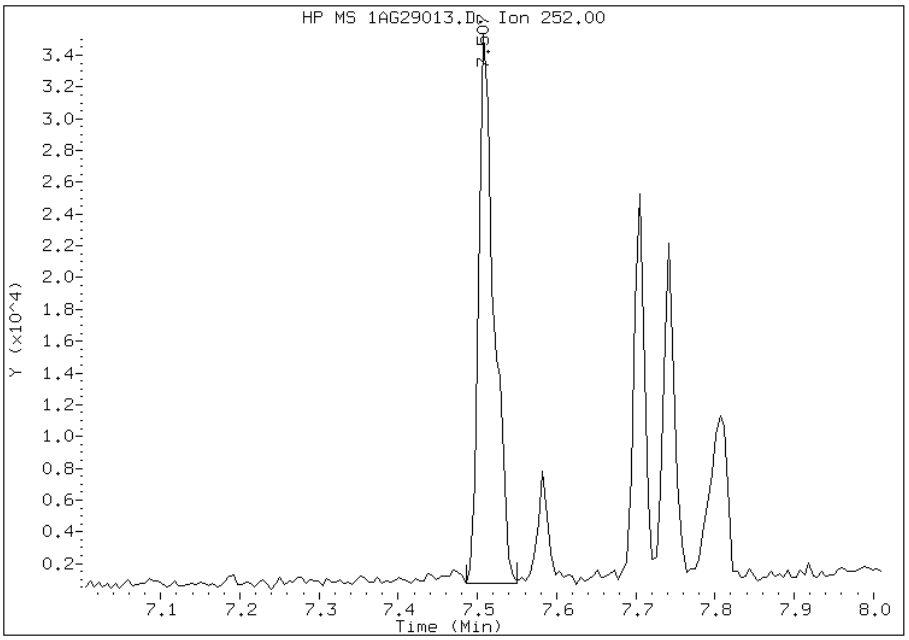
Processing Integration Results

RT: 7.51

Response: 46461

Amount: 1

Conc: 228



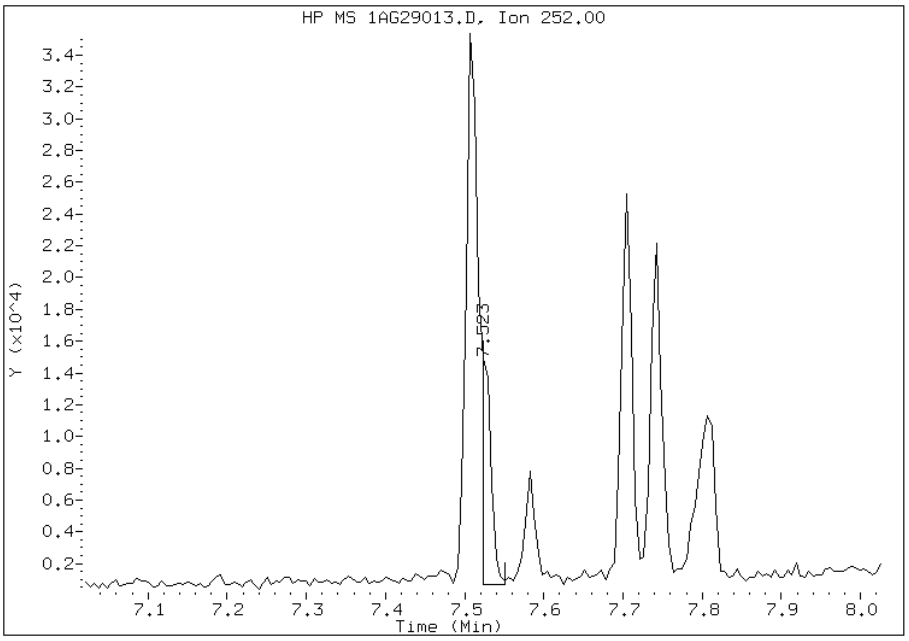
Manual Integration Results

RT: 7.52

Response: 11491

Amount: 0

Conc: 56



Manually Integrated By: cantins
Modification Date: 30-Jul-2013 12:47
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AG29013.D
Inj. Date and Time: 29-JUL-2013 15:46
Instrument ID: BSMA5973.i
Client ID:
Compound: 25 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 07/30/2013

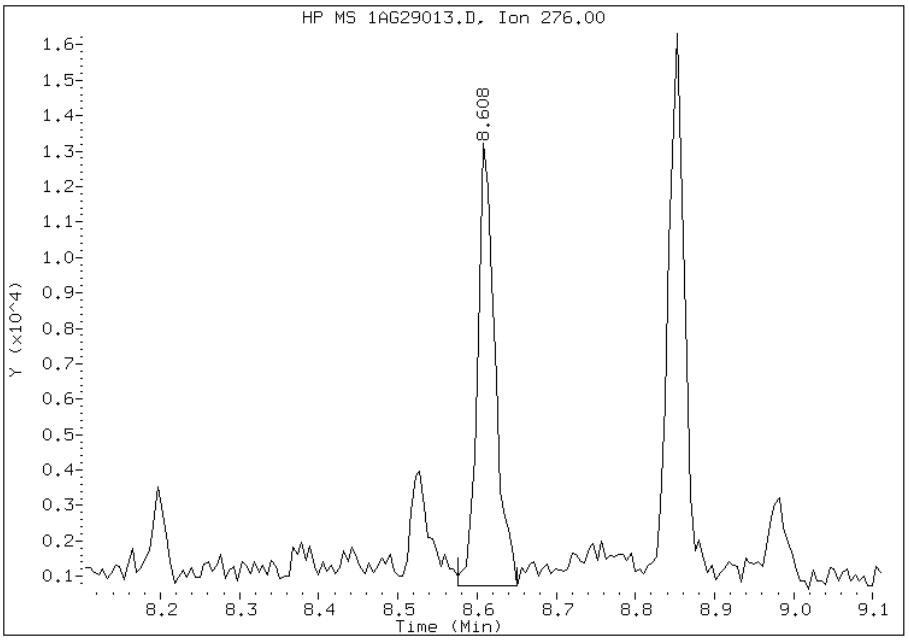
Processing Integration Results

RT: 8.61

Response: 18824

Amount: 0

Conc: 118



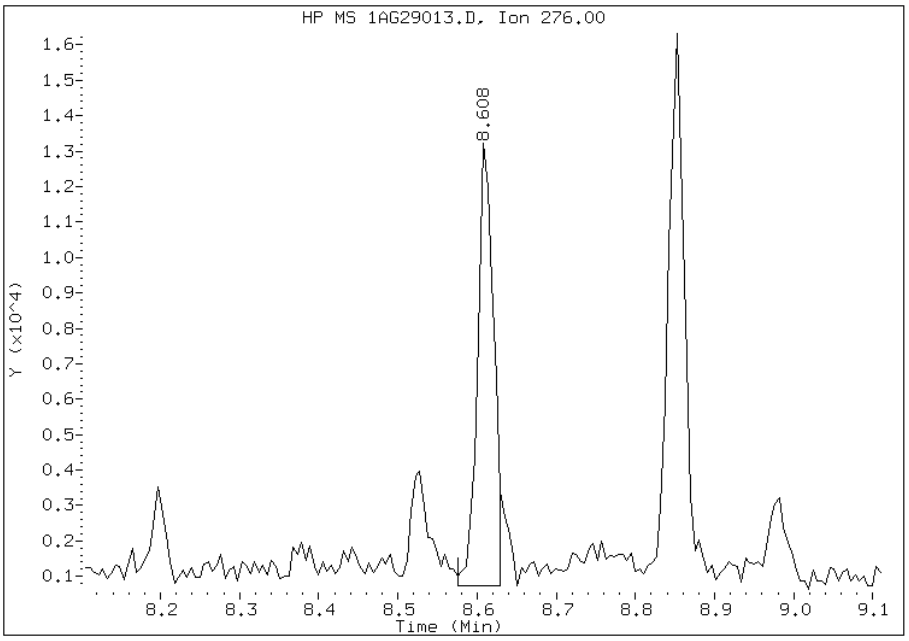
Manual Integration Results

RT: 8.61

Response: 17427

Amount: 0

Conc: 110



Manually Integrated By: cantins
Modification Date: 30-Jul-2013 12:48
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-92626-1

SDG No.: 680-92626-01

Client Sample ID: CV0453A-VGSO-CS | Lab Sample ID: 680-92626-6

Matrix: Solid | Lab File ID: 1AG29014.D

Analysis Method: 8270C LL | Date Collected: 07/23/2013 13:25

Extract. Method: 3546 | Date Extracted: 07/26/2013 14:59

Sample wt/vol: 14.99(g) | Date Analyzed: 07/29/2013 16:02

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 34.7 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 139909 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	150	U	150	31
208-96-8	Acenaphthylene	33	J	61	7.7
120-12-7	Anthracene	52		13	6.4
56-55-3	Benzo[a]anthracene	170		12	6.0
50-32-8	Benzo[a]pyrene	130		16	8.0
205-99-2	Benzo[b]fluoranthene	200		19	9.4
191-24-2	Benzo[g,h,i]perylene	150		31	6.7
207-08-9	Benzo[k]fluoranthene	65		12	5.5
218-01-9	Chrysene	250		14	6.9
53-70-3	Dibenz(a,h)anthracene	41		31	6.3
206-44-0	Fluoranthene	250		31	6.1
86-73-7	Fluorene	15	J	31	6.3
193-39-5	Indeno[1,2,3-cd]pyrene	110		31	11
90-12-0	1-Methylnaphthalene	150		61	6.7
91-57-6	2-Methylnaphthalene	190		61	11
91-20-3	Naphthalene	170		61	6.7
85-01-8	Phenanthrene	240		12	6.0
129-00-0	Pyrene	210		31	5.7

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	59		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A072913.b\1AG29014.D
Lab Smp Id: 680-92626-a-6-a
Inj Date : 29-JUL-2013 16:02
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-92626-a-6-a
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A072913.b\a-bFASTPAHi-m.m
Meth Date : 29-Jul-2013 12:10 cantins Quant Type: ISTD
Cal Date : 07-JUL-2013 15:46 Cal File: 1AG07012.D
Als bottle: 14
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14

Concentration Formula:
Amt * DF * 1/Vi * Vt/Ws * 100/(100 - M) * A * B * C * D * GPC * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.990	Weight Extracted
M	35.000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1	Naphthalene-d8	136	2.644	2.640	(1.000)	2578716	40.0000	
* 7	Acenaphthene-d10	164	3.675	3.671	(1.000)	1598631	40.0000	
* 11	Phenanthrene-d10	188	4.647	4.643	(1.000)	2289742	40.0000	
$ 15	o-Terphenyl	230	4.941	4.937	(1.063)	204438	5.87562	603.0301
* 19	Chrysene-d12	240	6.698	6.689	(1.000)	2239657	40.0000	
* 24	Perylene-d12	264	7.820	7.795	(1.000)	2880720	40.0000	
2	Naphthalene	128	2.654	2.650	(1.004)	95577	1.64044	168.3626
3	2-Methylnaphthalene	141	3.060	3.056	(1.158)	61895	1.86203	191.1047
4	1-Methylnaphthalene	142	3.114	3.110	(1.178)	56559	1.45717	149.5526
6	Acenaphthylene	152	3.589	3.585	(0.977)	23042	0.32312	33.1621
10	Fluorene	166	4.011	4.013	(1.092)	7139	0.14278	14.6538(Q)
12	Phenanthrene	178	4.663	4.659	(1.003)	137866	2.36575	242.8031
13	Anthracene	178	4.695	4.691	(1.010)	31070	0.51128	52.4742
16	Fluoranthene	202	5.539	5.535	(1.192)	169927	2.42323	248.7025
17	Pyrene	202	5.710	5.701	(0.852)	155018	2.07910	213.3835

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
18 Benzo(a)anthracene	228	6.688	6.673	(0.998)	124037	1.64093	168.4122
20 Chrysene	228	6.709	6.705	(1.002)	146217	2.40998	247.3418
21 Benzo(b)fluoranthene	252	7.521	7.506	(0.962)	158659	1.93477	198.5700(M)
22 Benzo(k)fluoranthene	252	7.532	7.533	(0.963)	54154	0.63958	65.6416(QMH)
23 Benzo(a)pyrene	252	7.756	7.741	(0.992)	96153	1.26790	130.1277
25 Indeno(1,2,3-cd)pyrene	276	8.643	8.617	(1.105)	73627	1.11345	114.2762(M)
26 Dibenzo(a,h)anthracene	278	8.664	8.644	(1.108)	24918	0.39855	40.9046
27 Benzo(g,h,i)perylene	276	8.883	8.858	(1.136)	92158	1.46997	150.8665

QC Flag Legend

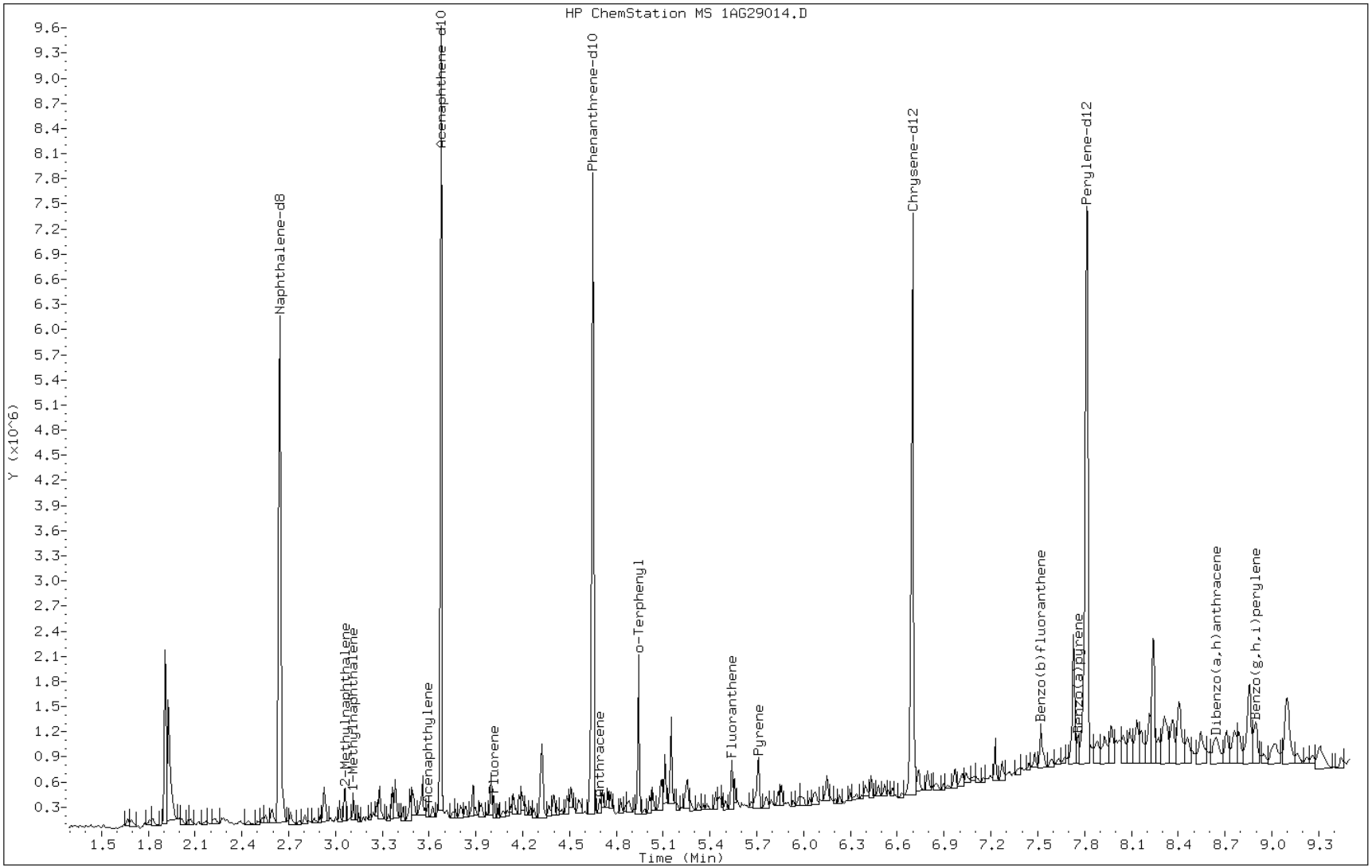
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1AG29014.D

Date: 29-JUL-2013 16:02

Client ID: Instrument: BSMA5973.i

Sample Info: 680-92626-a-6-a Operator: SCC



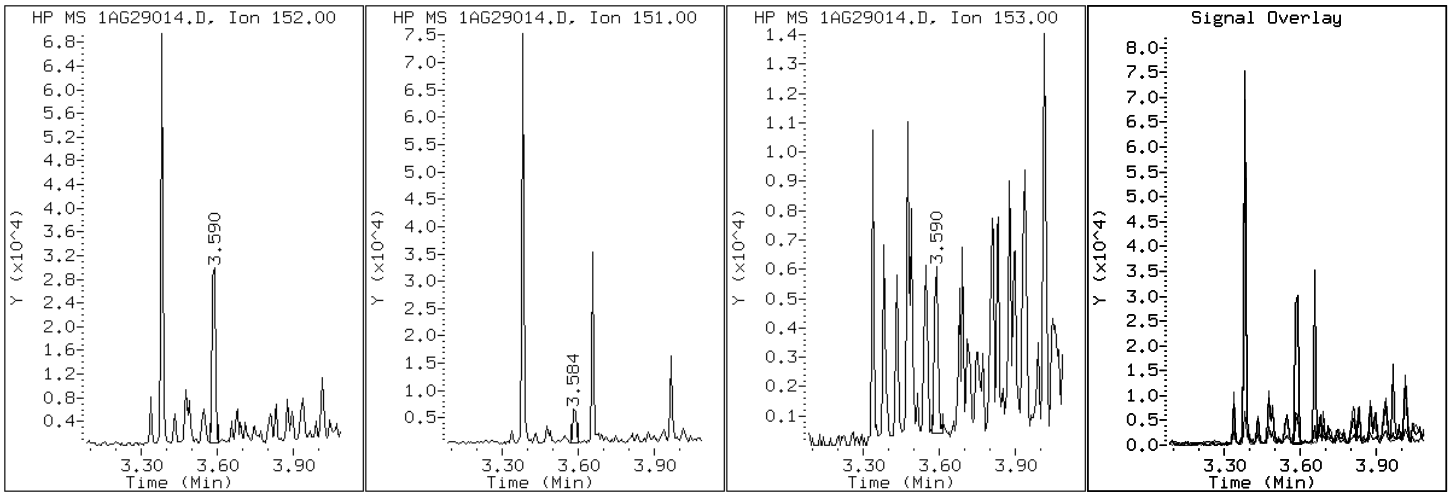
Data File: 1AG29014.D

Date: 29-JUL-2013 16:02

Client ID: Instrument: BSMA5973.i

Sample Info: 680-92626-a-6-a Operator: SCC

6 Acenaphthylene



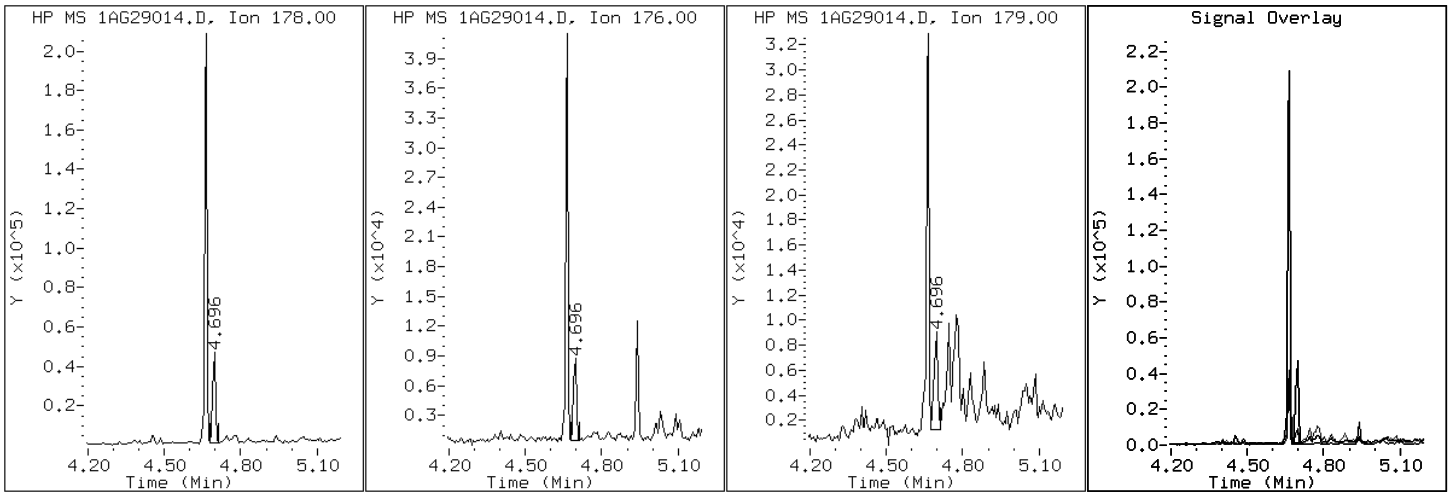
Data File: 1AG29014.D

Date: 29-JUL-2013 16:02

Client ID: Instrument: BSMA5973.i

Sample Info: 680-92626-a-6-a Operator: SCC

13 Anthracene



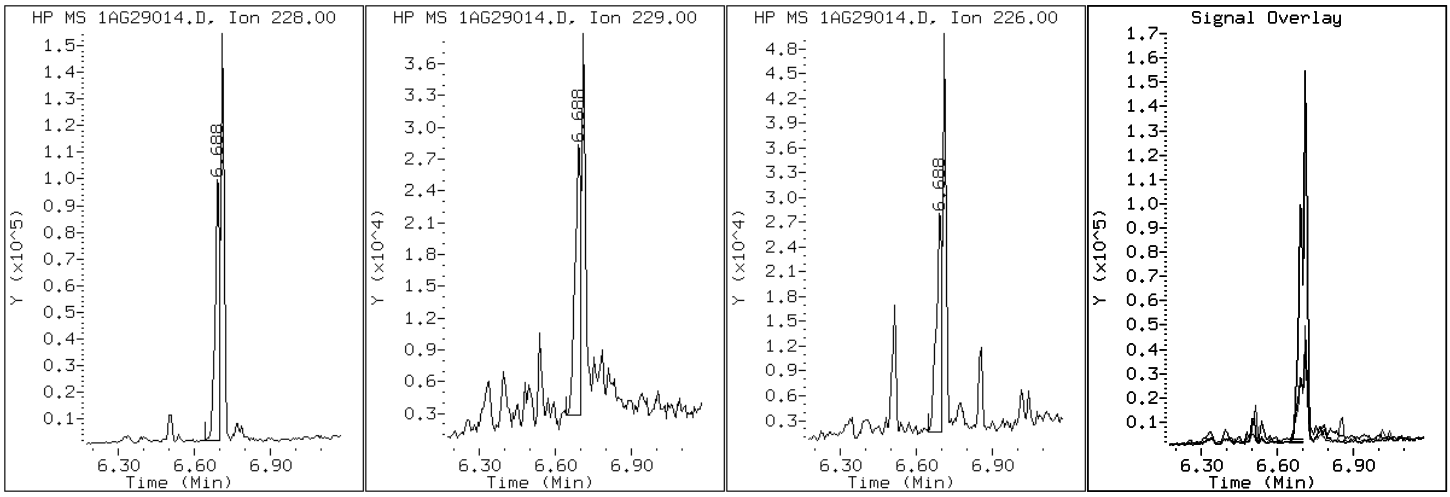
Data File: 1AG29014.D

Date: 29-JUL-2013 16:02

Client ID: Instrument: BSMA5973.i

Sample Info: 680-92626-a-6-a Operator: SCC

18 Benzo(a)anthracene



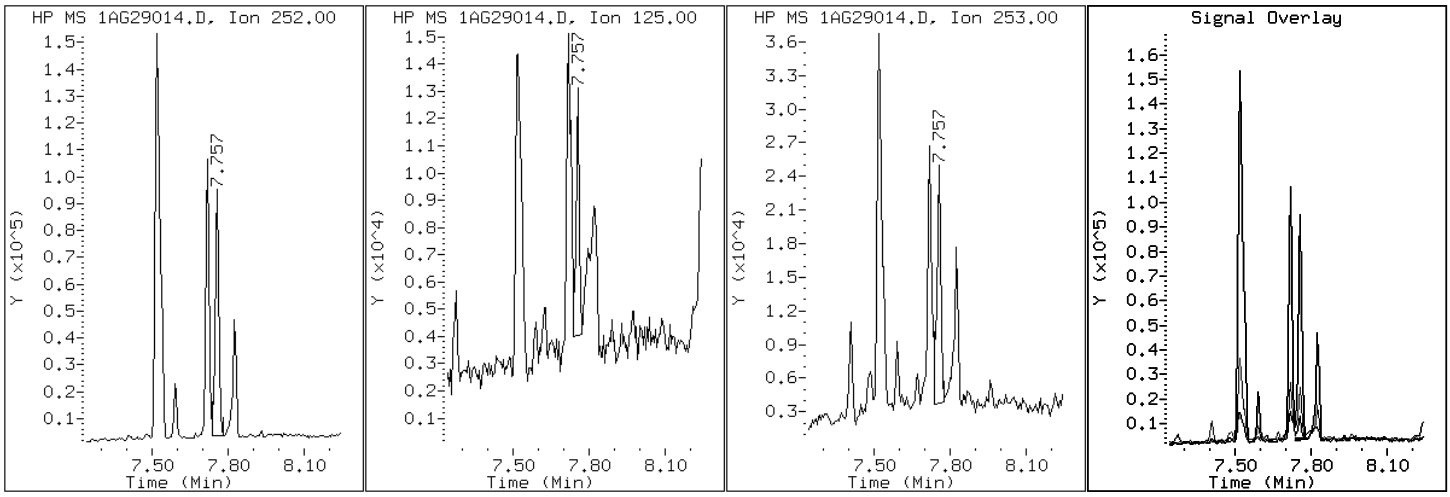
Data File: 1AG29014.D

Date: 29-JUL-2013 16:02

Client ID: Instrument: BSMA5973.i

Sample Info: 680-92626-a-6-a Operator: SCC

23 Benzo(a)pyrene



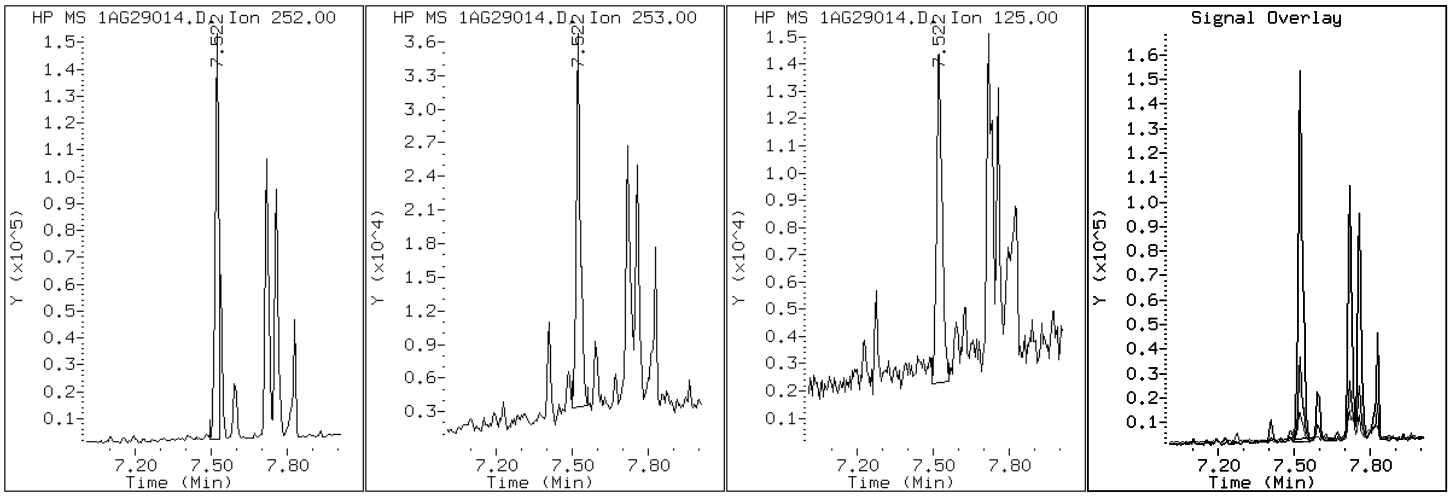
Data File: 1AG29014.D

Date: 29-JUL-2013 16:02

Client ID: Instrument: BSMA5973.i

Sample Info: 680-92626-a-6-a Operator: SCC

21 Benzo(b)fluoranthene



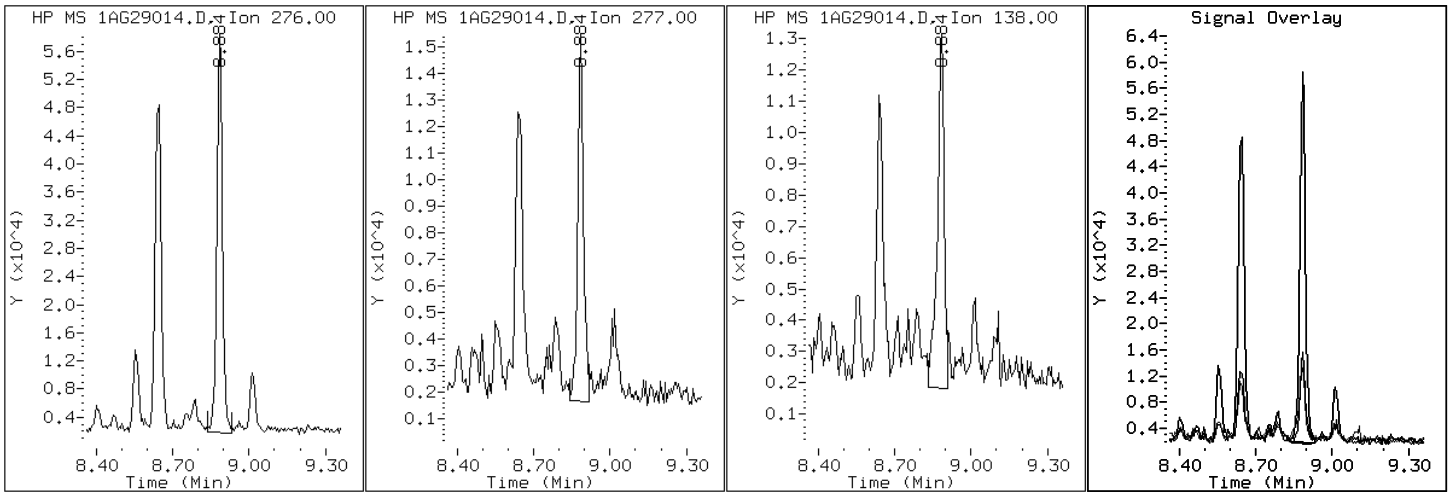
Data File: 1AG29014.D

Date: 29-JUL-2013 16:02

Client ID: Instrument: BSMA5973.i

Sample Info: 680-92626-a-6-a Operator: SCC

27 Benzo(g,h,i)perylene



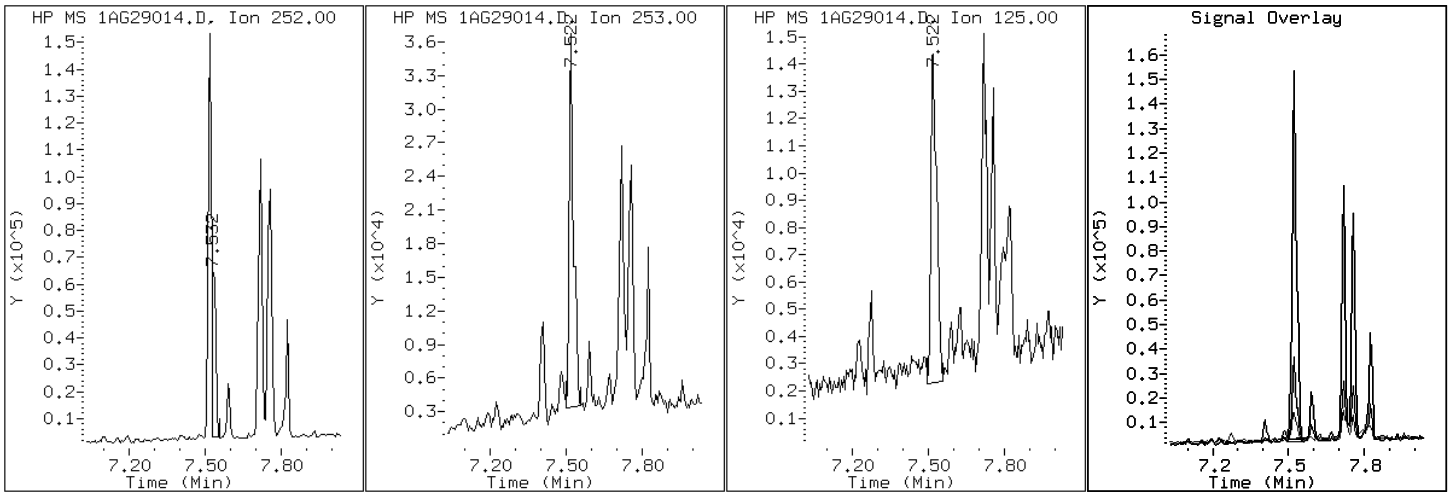
Data File: 1AG29014.D

Date: 29-JUL-2013 16:02

Client ID: Instrument: BSMA5973.i

Sample Info: 680-92626-a-6-a Operator: SCC

22 Benzo(k)fluoranthene



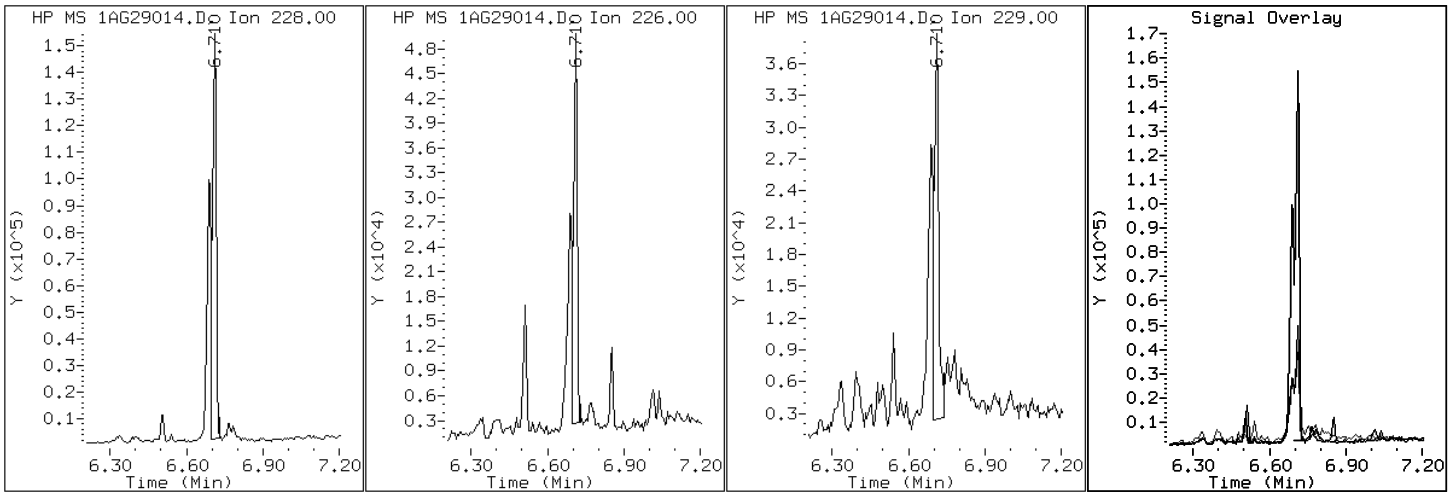
Data File: 1AG29014.D

Date: 29-JUL-2013 16:02

Client ID: Instrument: BSMA5973.i

Sample Info: 680-92626-a-6-a Operator: SCC

20 Chrysene



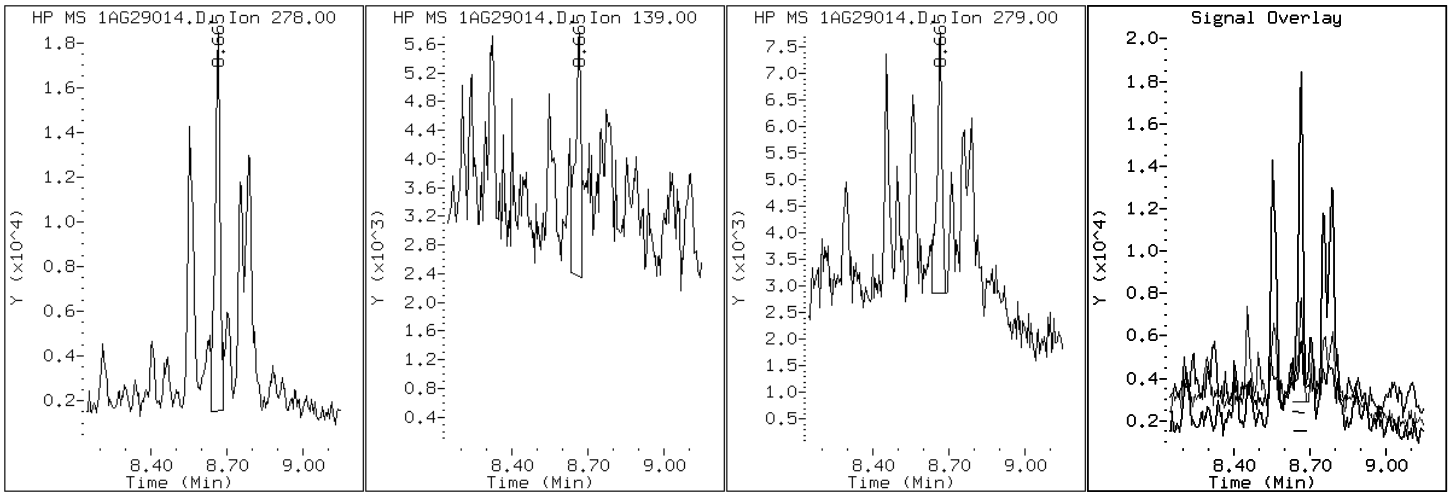
Data File: 1AG29014.D

Date: 29-JUL-2013 16:02

Client ID: Instrument: BSMA5973.i

Sample Info: 680-92626-a-6-a Operator: SCC

26 Dibenzo(a,h)anthracene



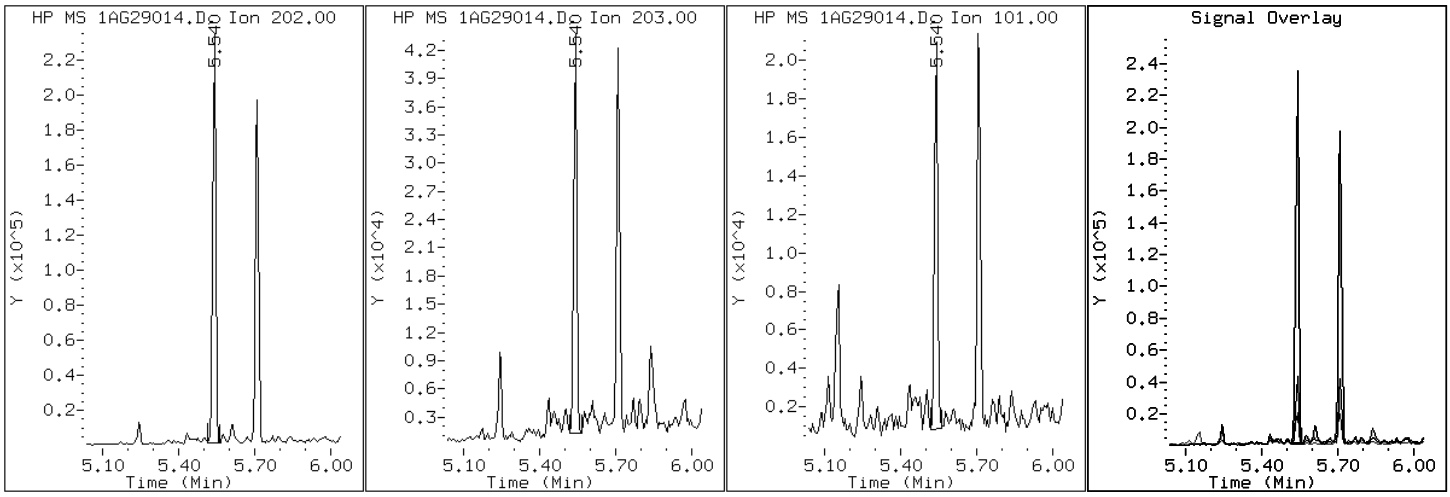
Data File: 1AG29014.D

Date: 29-JUL-2013 16:02

Client ID: Instrument: BSMA5973.i

Sample Info: 680-92626-a-6-a Operator: SCC

16 Fluoranthene



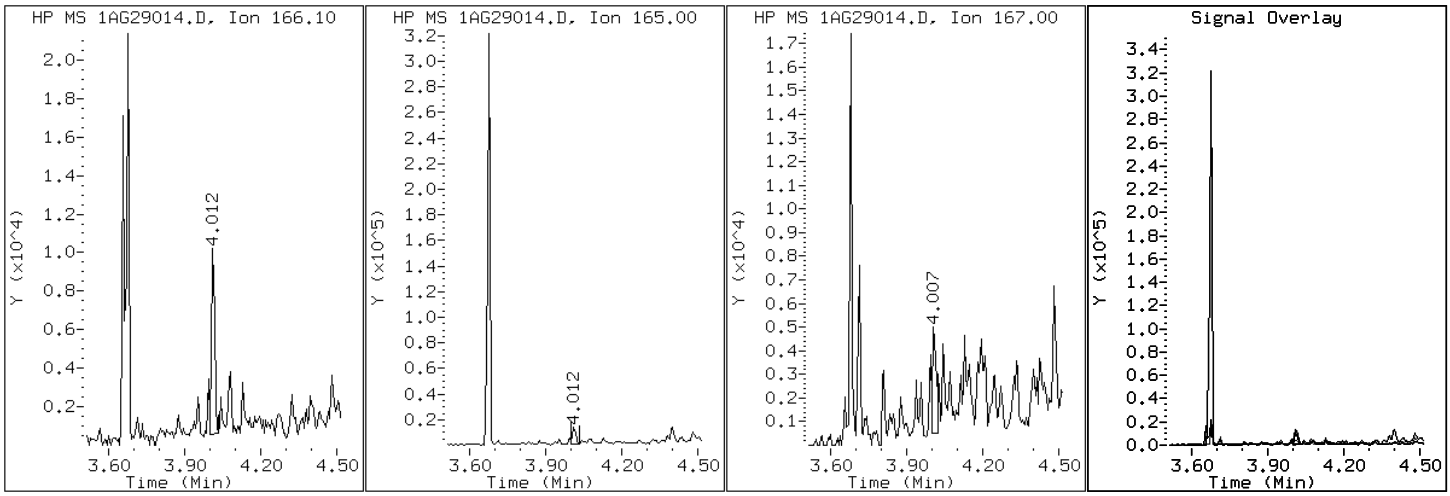
Data File: 1AG29014.D

Date: 29-JUL-2013 16:02

Client ID: Instrument: BSMA5973.i

Sample Info: 680-92626-a-6-a Operator: SCC

10 Fluorene



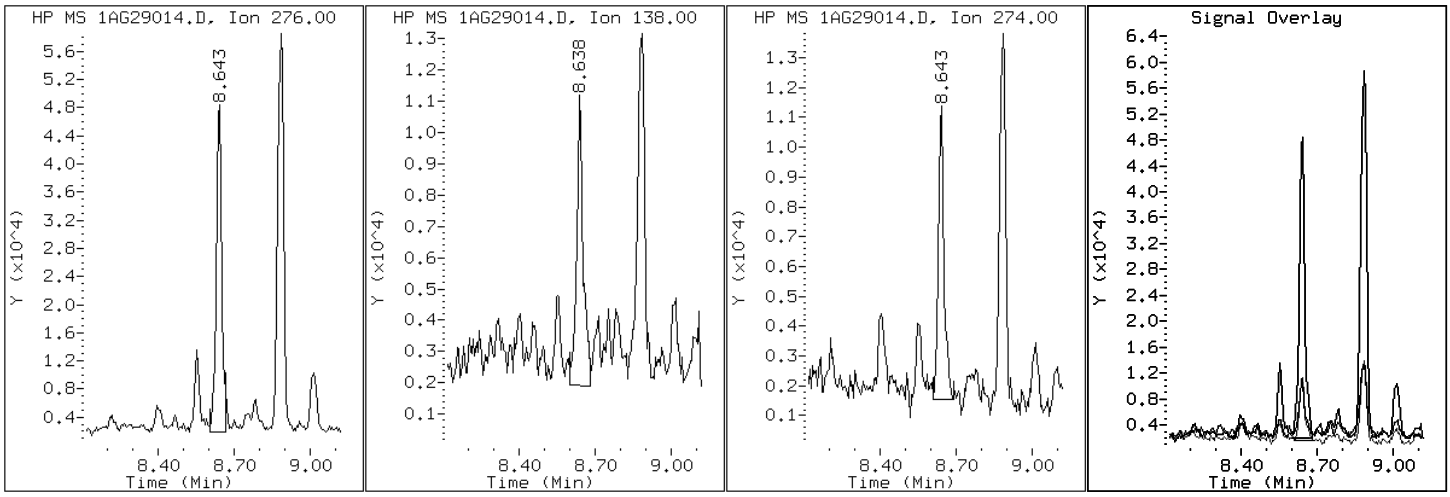
Data File: 1AG29014.D

Date: 29-JUL-2013 16:02

Client ID: Instrument: BSMA5973.i

Sample Info: 680-92626-a-6-a Operator: SCC

25 Indeno(1,2,3-cd)pyrene



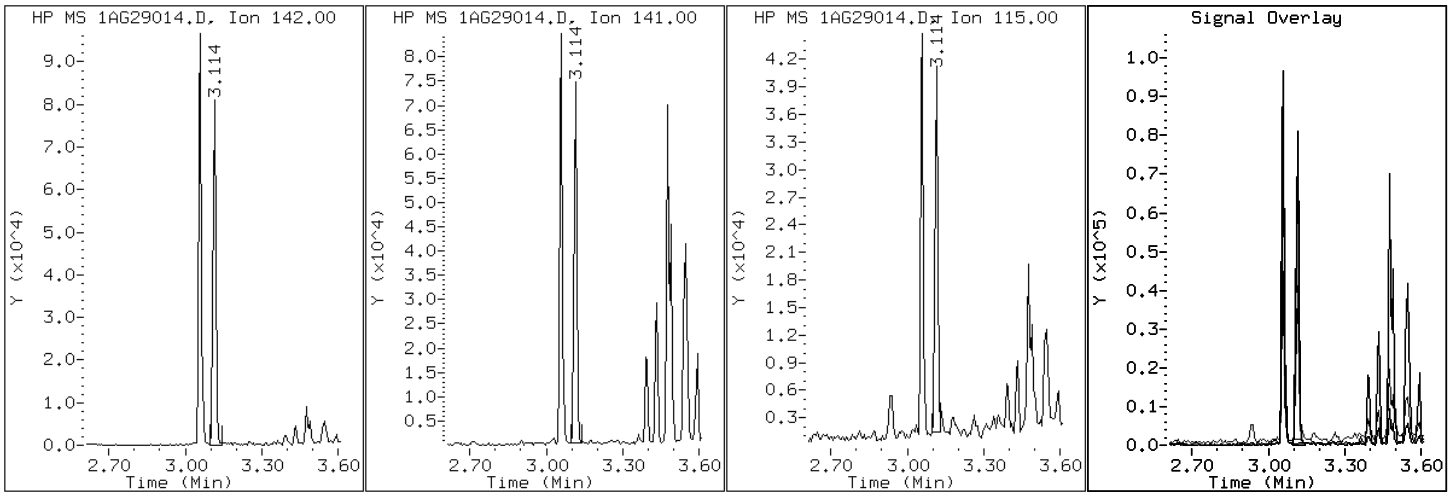
Data File: 1AG29014.D

Date: 29-JUL-2013 16:02

Client ID: Instrument: BSMA5973.i

Sample Info: 680-92626-a-6-a Operator: SCC

4 1-Methylnaphthalene



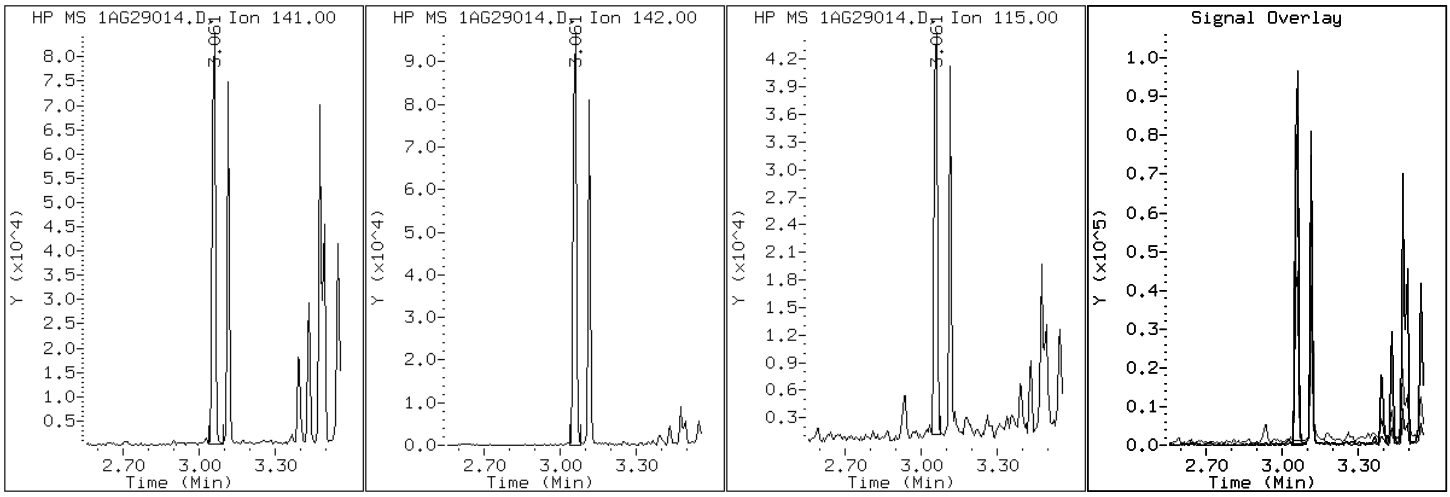
Data File: 1AG29014.D

Date: 29-JUL-2013 16:02

Client ID: Instrument: BSMA5973.i

Sample Info: 680-92626-a-6-a Operator: SCC

3 2-Methylnaphthalene



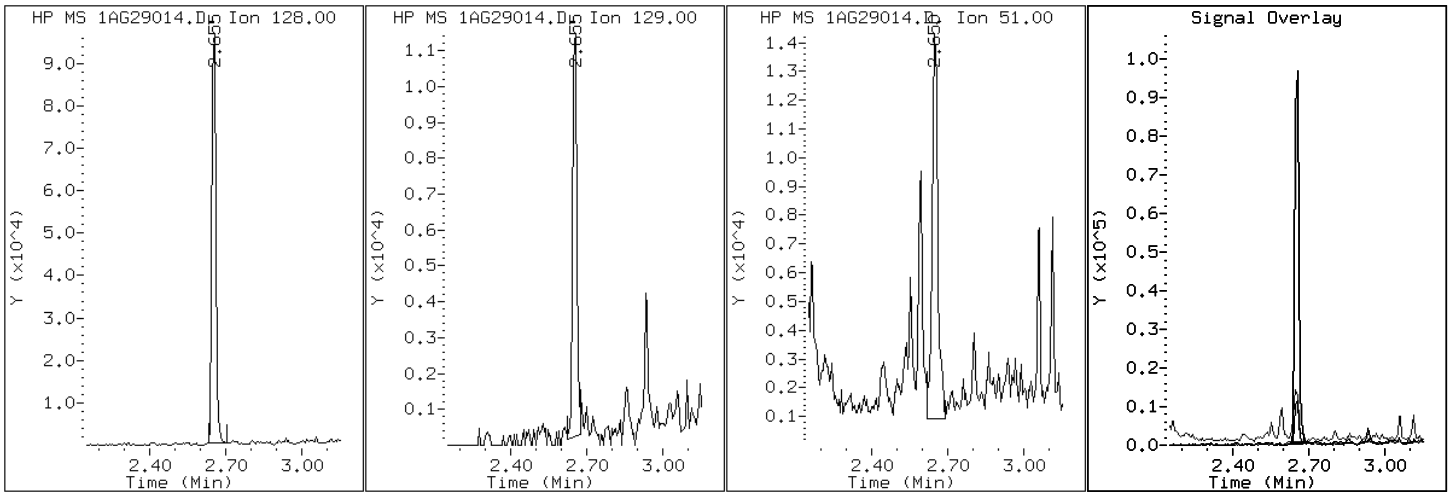
Data File: 1AG29014.D

Date: 29-JUL-2013 16:02

Client ID: Instrument: BSMA5973.i

Sample Info: 680-92626-a-6-a Operator: SCC

2 Naphthalene



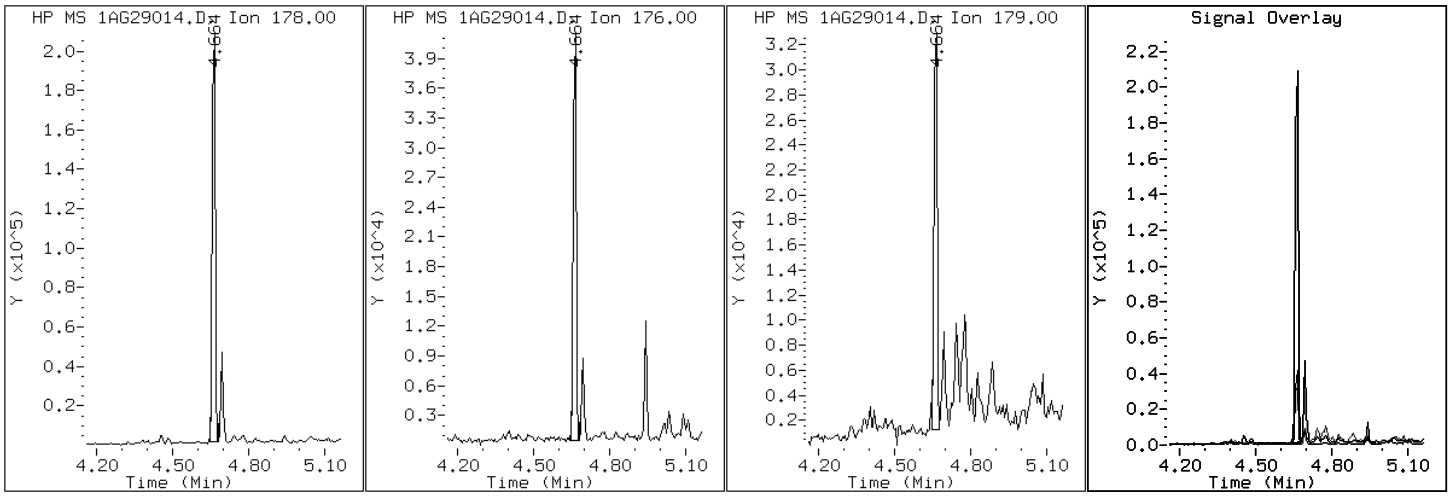
Data File: 1AG29014.D

Date: 29-JUL-2013 16:02

Client ID: Instrument: BSMA5973.i

Sample Info: 680-92626-a-6-a Operator: SCC

12 Phenanthrene



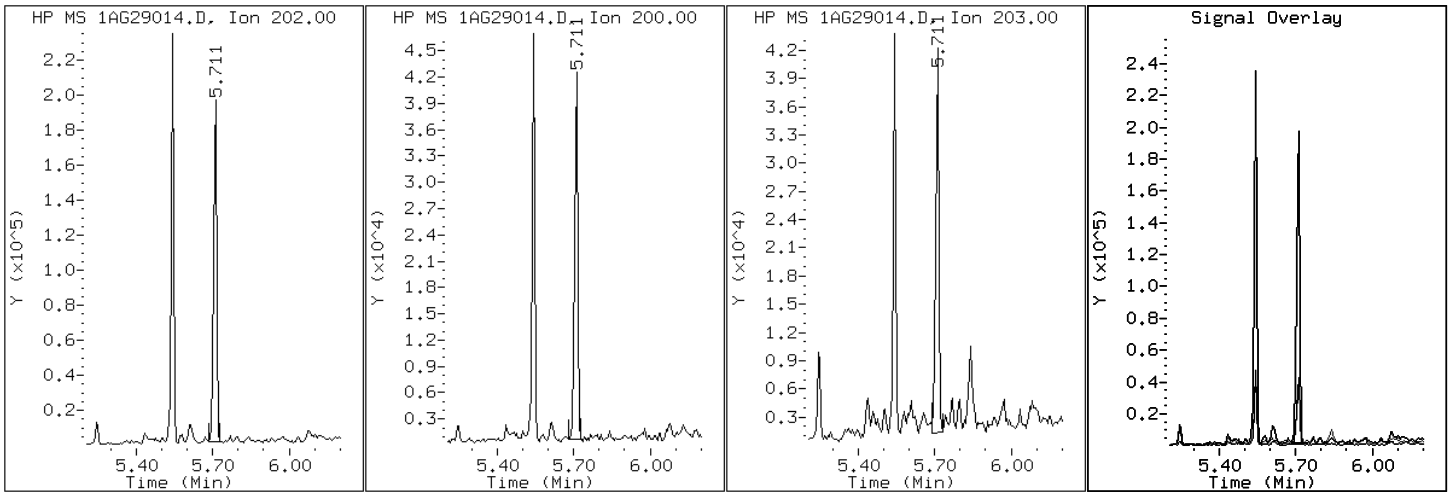
Data File: 1AG29014.D

Date: 29-JUL-2013 16:02

Client ID: Instrument: BSMA5973.i

Sample Info: 680-92626-a-6-a Operator: SCC

17 Pyrene



Manual Integration Report

Data File: 1AG29014.D
Inj. Date and Time: 29-JUL-2013 16:02
Instrument ID: BSMA5973.i
Client ID:
Compound: 21 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 07/30/2013

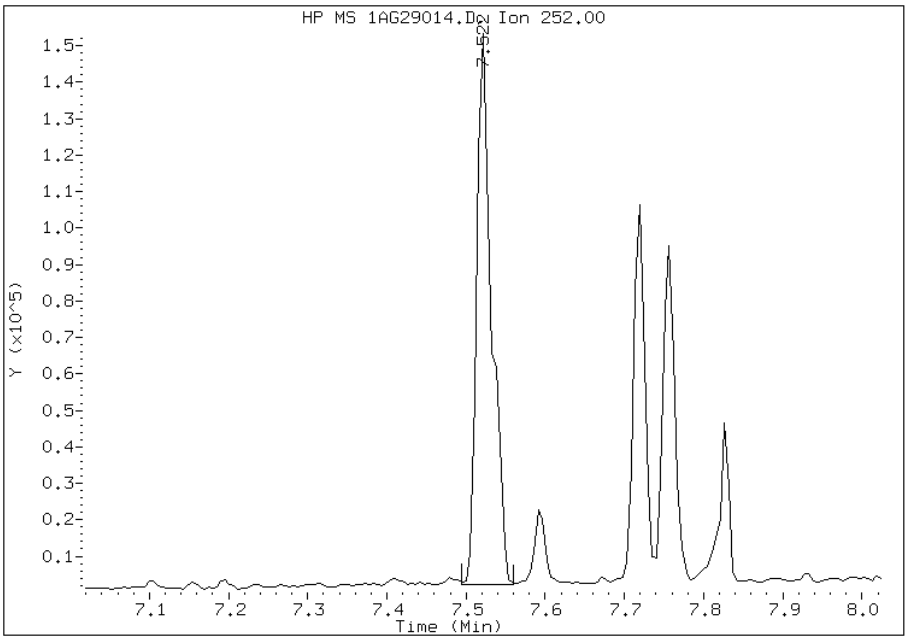
Processing Integration Results

RT: 7.52

Response: 193935

Amount: 2

Conc: 243



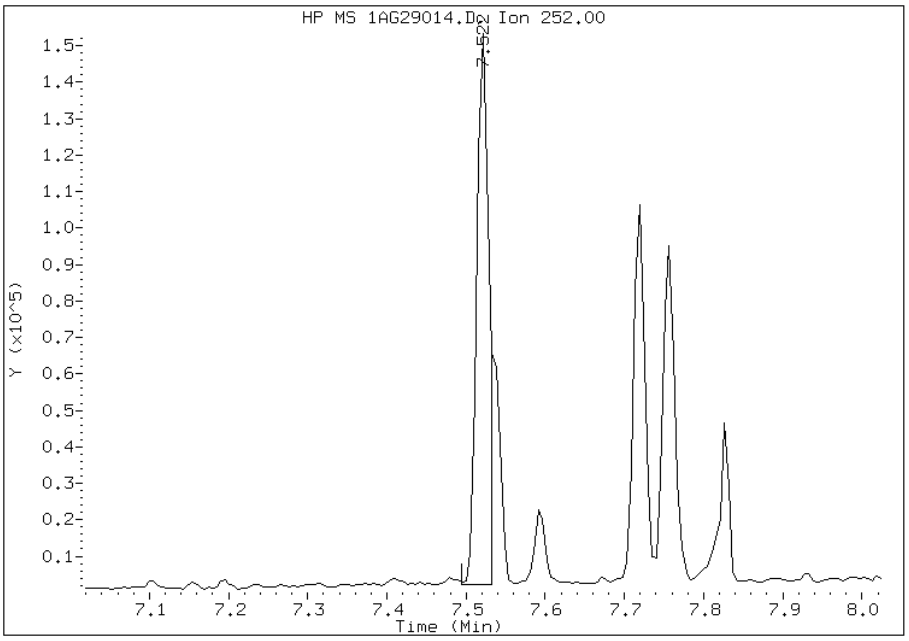
Manual Integration Results

RT: 7.52

Response: 158659

Amount: 2

Conc: 199



Manually Integrated By: cantins
Modification Date: 30-Jul-2013 12:48
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AG29014.D
Inj. Date and Time: 29-JUL-2013 16:02
Instrument ID: BSMA5973.i
Client ID:
Compound: 22 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 07/30/2013

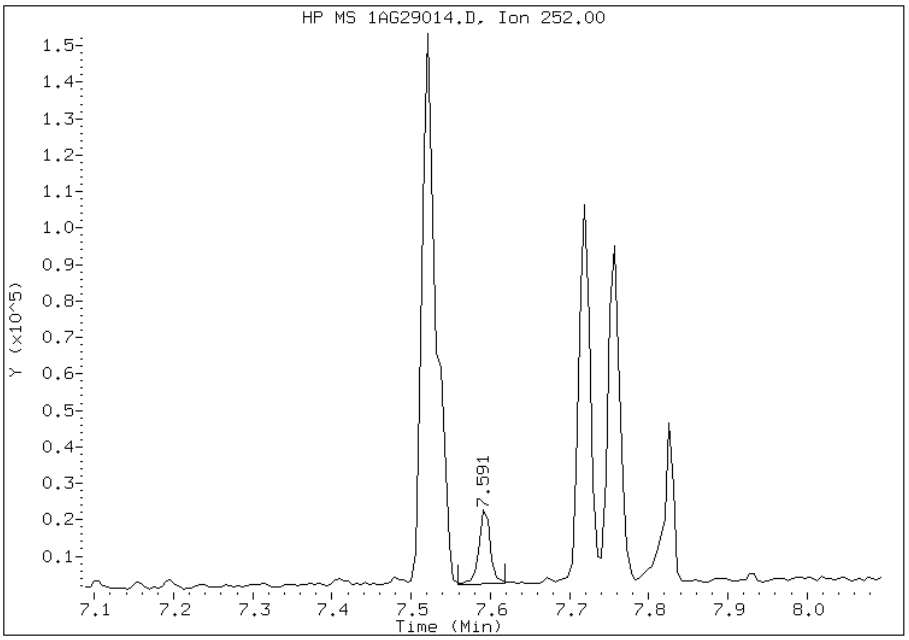
Processing Integration Results

RT: 7.59

Response: 19440

Amount: 0

Conc: 24



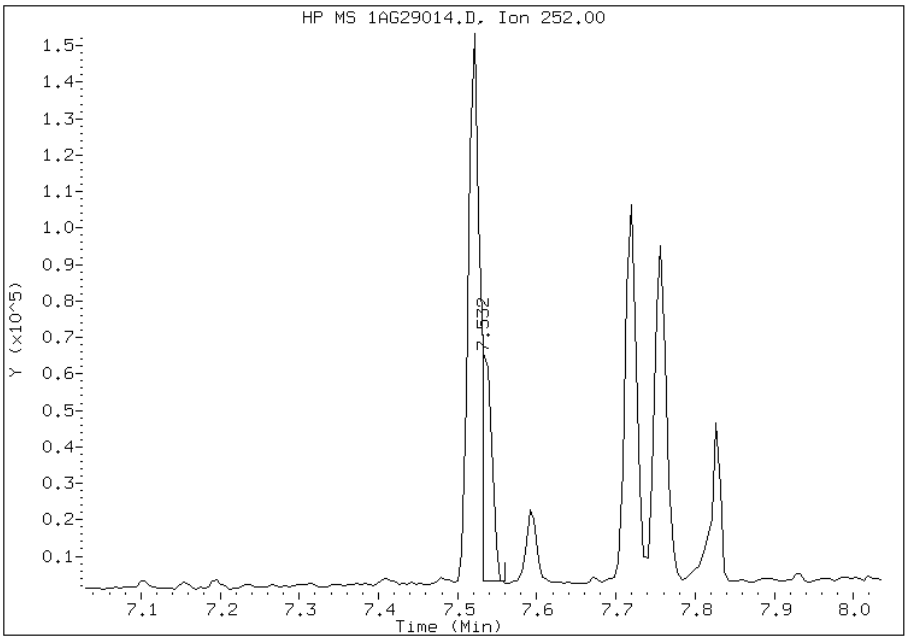
Manual Integration Results

RT: 7.53

Response: 54154

Amount: 1

Conc: 66



Manually Integrated By: cantins
Modification Date: 30-Jul-2013 12:48
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AG29014.D
Inj. Date and Time: 29-JUL-2013 16:02
Instrument ID: BSMA5973.i
Client ID:
Compound: 25 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 07/30/2013

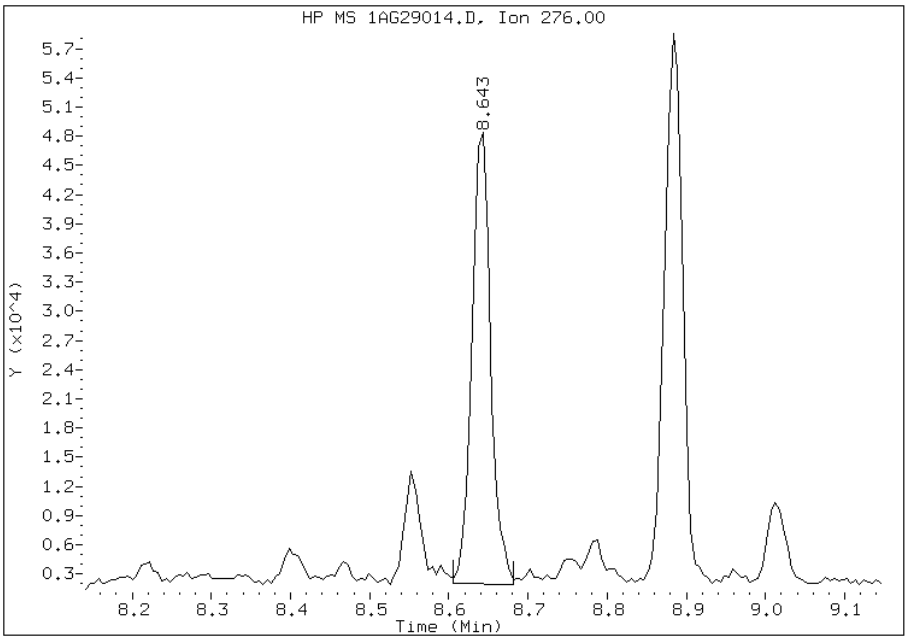
Processing Integration Results

RT: 8.64

Response: 75500

Amount: 1

Conc: 117



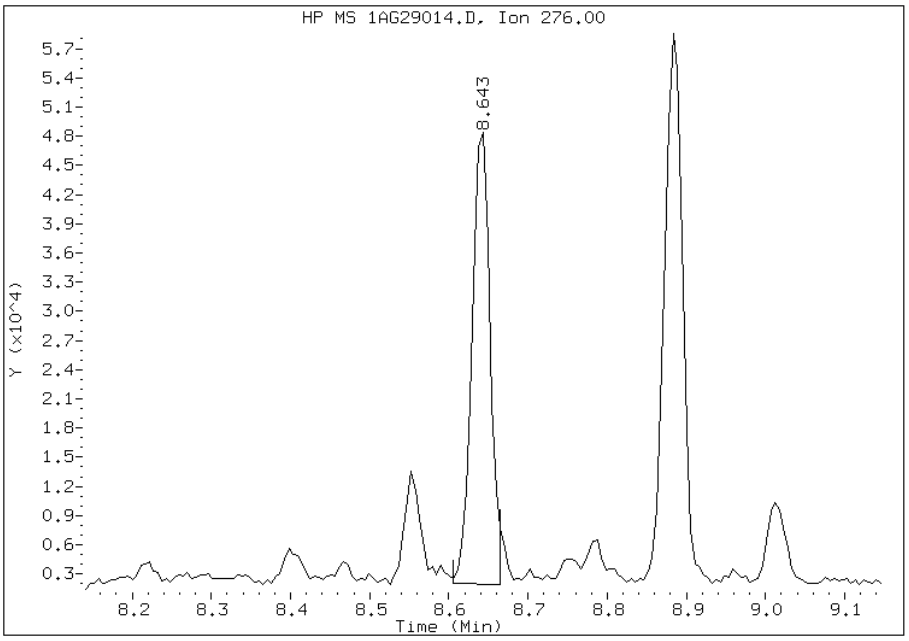
Manual Integration Results

RT: 8.64

Response: 73627

Amount: 1

Conc: 114



Manually Integrated By: cantins
Modification Date: 30-Jul-2013 12:49
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-92626-1

SDG No.: 680-92626-01

Client Sample ID: CV0272A-VGSO-CS | Lab Sample ID: 680-92626-7

Matrix: Solid | Lab File ID: 1AG29015.D

Analysis Method: 8270C LL | Date Collected: 07/24/2013 09:40

Extract. Method: 3546 | Date Extracted: 07/26/2013 14:59

Sample wt/vol: 15.15(g) | Date Analyzed: 07/29/2013 16:17

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 18.1 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 139909 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	120	U	120	24
208-96-8	Acenaphthylene	33	J	48	6.0
120-12-7	Anthracene	52		10	5.1
56-55-3	Benzo[a]anthracene	140		9.7	4.7
50-32-8	Benzo[a]pyrene	110		13	6.3
205-99-2	Benzo[b]fluoranthene	160		15	7.4
191-24-2	Benzo[g,h,i]perylene	110		24	5.3
207-08-9	Benzo[k]fluoranthene	67		9.7	4.4
218-01-9	Chrysene	160		11	5.4
53-70-3	Dibenz(a,h)anthracene	30		24	5.0
206-44-0	Fluoranthene	220		24	4.8
86-73-7	Fluorene	15	J	24	5.0
193-39-5	Indeno[1,2,3-cd]pyrene	95		24	8.6
90-12-0	1-Methylnaphthalene	150		48	5.3
91-57-6	2-Methylnaphthalene	110		48	8.6
91-20-3	Naphthalene	70		48	5.3
85-01-8	Phenanthrene	250		9.7	4.7
129-00-0	Pyrene	170		24	4.5

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	58		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A072913.b\1AG29015.D
Lab Smp Id: 680-92626-a-7-a
Inj Date : 29-JUL-2013 16:17
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-92626-a-7-a
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A072913.b\a-bFASTPAHi-m.m
Meth Date : 29-Jul-2013 12:10 cantins Quant Type: ISTD
Cal Date : 07-JUL-2013 15:46 Cal File: 1AG07012.D
Als bottle: 15
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14

Concentration Formula:
Amt * DF * 1/Vi * Vt/Ws * 100/(100 - M) * A * B * C * D * GPC * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.150	Weight Extracted
M	18.000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	2.644	2.640	(1.000)	2441232	40.0000	
* 7 Acenaphthene-d10	164	3.675	3.671	(1.000)	1558098	40.0000	
* 11 Phenanthrene-d10	188	4.648	4.643	(1.000)	2110166	40.0000	
$ 15 o-Terphenyl	230	4.942	4.937	(1.063)	186662	5.82128	468.5886
* 19 Chrysene-d12	240	6.704	6.689	(1.000)	2208648	40.0000	
* 24 Perylene-d12	264	7.810	7.795	(1.000)	2684131	40.0000	
2 Naphthalene	128	2.655	2.650	(1.004)	48226	0.87435	70.3811
3 2-Methylnaphthalene	141	3.061	3.056	(1.158)	41585	1.32148	106.3740
4 1-Methylnaphthalene	142	3.115	3.110	(1.178)	70164	1.90948	153.7056
6 Acenaphthylene	152	3.590	3.585	(0.977)	28608	0.41160	33.1323
10 Fluorene	166	4.012	4.013	(1.092)	8782	0.18021	14.5060(Q)
12 Phenanthrene	178	4.664	4.659	(1.003)	168559	3.13859	252.6430
13 Anthracene	178	4.696	4.691	(1.010)	36012	0.64304	51.7619
16 Fluoranthene	202	5.540	5.535	(1.192)	178083	2.75566	221.8190
17 Pyrene	202	5.711	5.701	(0.852)	156836	2.13302	171.6991

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
18 Benzo(a)anthracene	228	6.694	6.673	(0.998)	131976	1.77866	143.1743
20 Chrysene	228	6.715	6.705	(1.002)	116855	1.95307	157.2137
21 Benzo(b)fluoranthene	252	7.516	7.506	(0.962)	149152	1.95205	157.1317(M)
22 Benzo(k)fluoranthene	252	7.527	7.533	(0.964)	65465	0.82979	66.7949(QM)
23 Benzo(a)pyrene	252	7.752	7.741	(0.992)	96383	1.36402	109.7977
25 Indeno(1,2,3-cd)pyrene	276	8.628	8.617	(1.105)	72663	1.17935	94.9331(M)
26 Dibenzo(a,h)anthracene	278	8.649	8.644	(1.107)	21900	0.37594	30.2614
27 Benzo(g,h,i)perylene	276	8.873	8.858	(1.136)	78915	1.35093	108.7440

QC Flag Legend

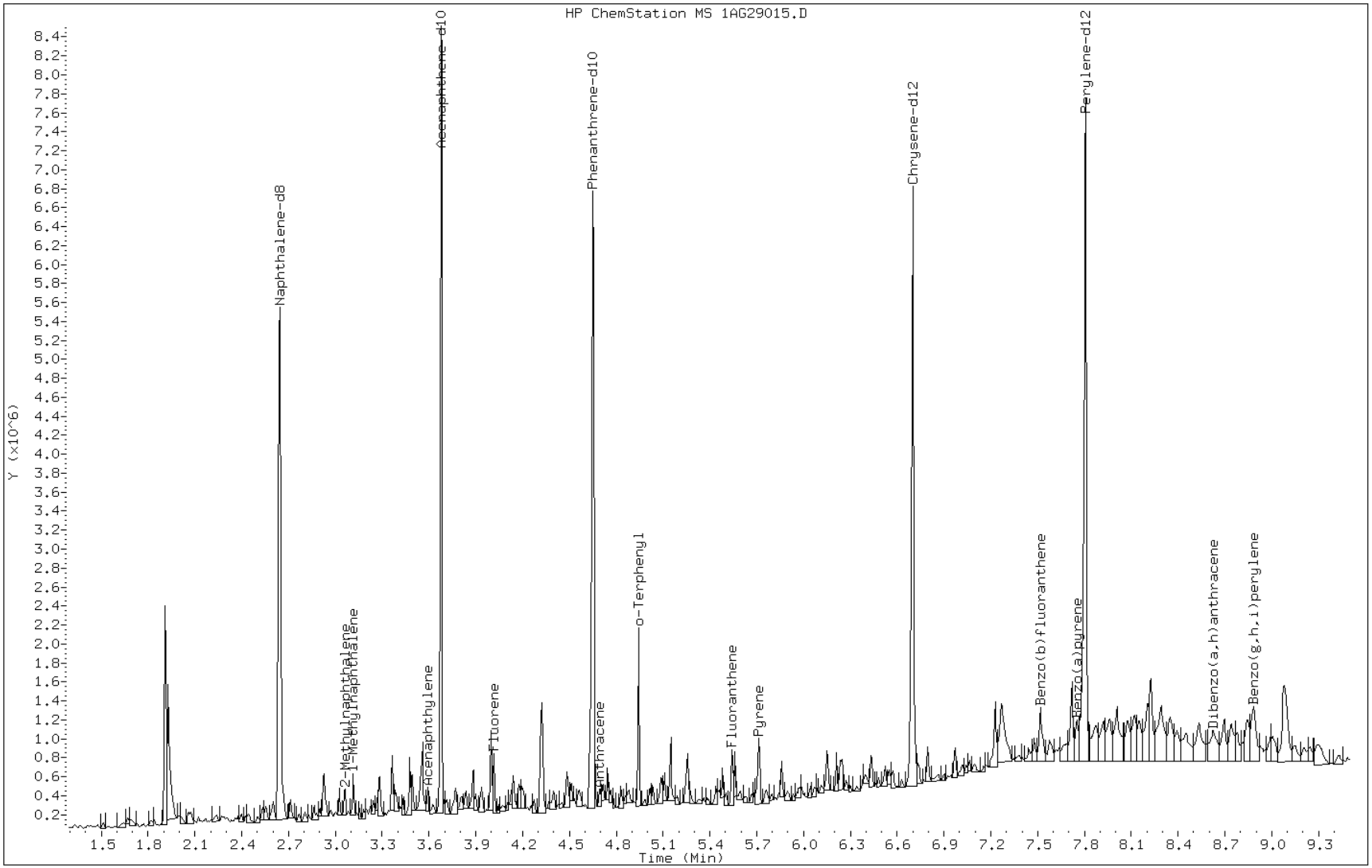
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1AG29015.D

Date: 29-JUL-2013 16:17

Client ID: Instrument: BSMA5973.i

Sample Info: 680-92626-a-7-a Operator: SCC



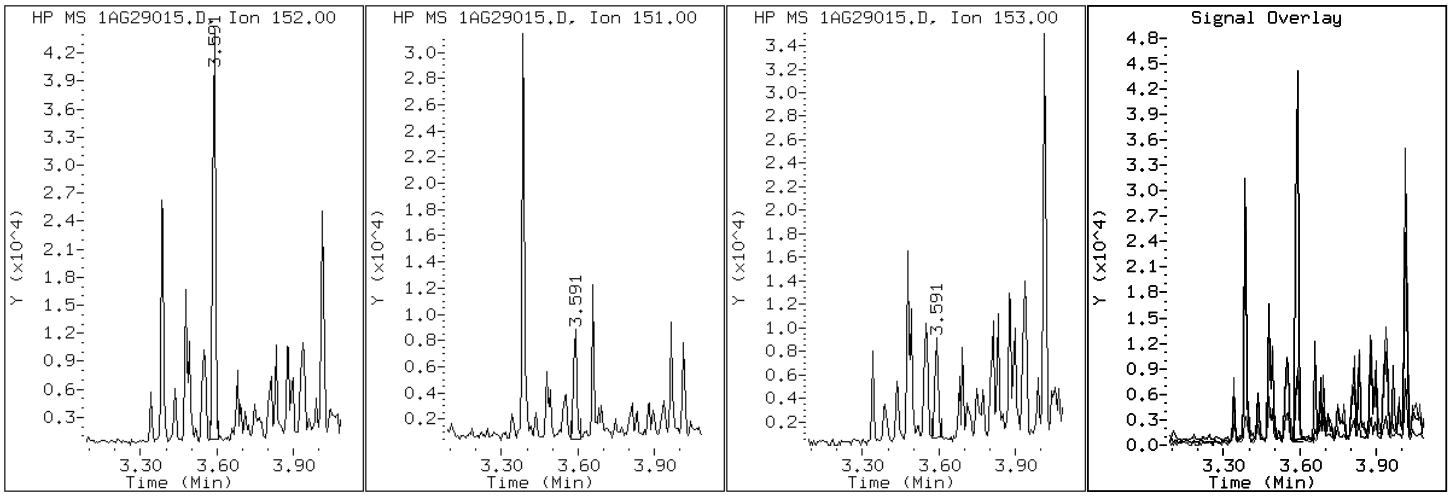
Data File: 1AG29015.D

Date: 29-JUL-2013 16:17

Client ID: Instrument: BSMA5973.i

Sample Info: 680-92626-a-7-a Operator: SCC

6 Acenaphthylene



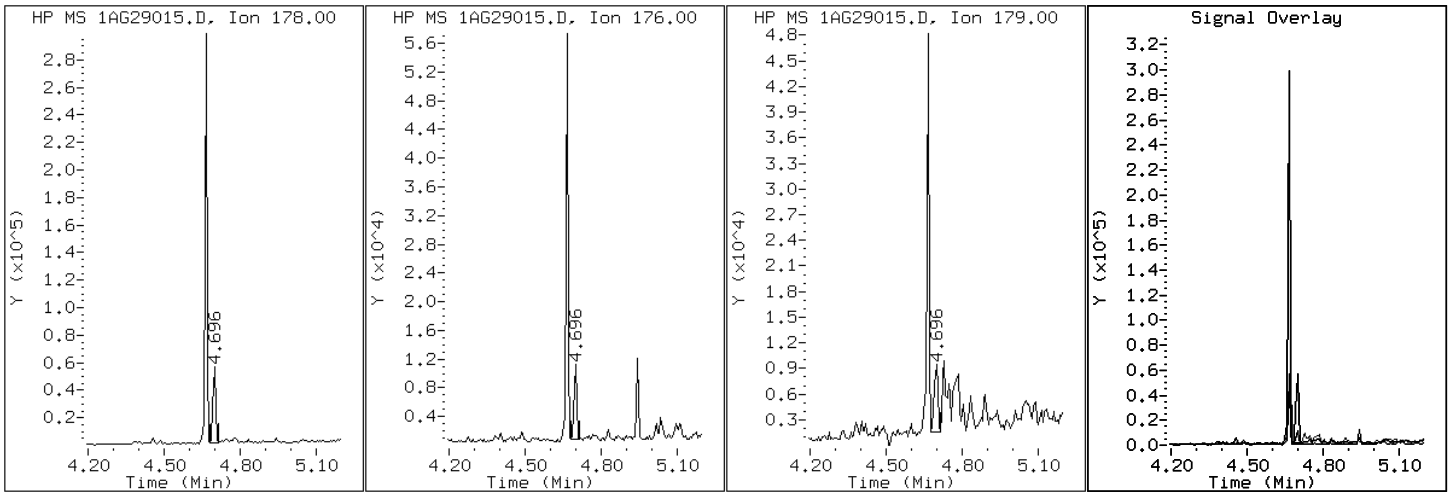
Data File: 1AG29015.D

Date: 29-JUL-2013 16:17

Client ID: Instrument: BSMA5973.i

Sample Info: 680-92626-a-7-a Operator: SCC

13 Anthracene



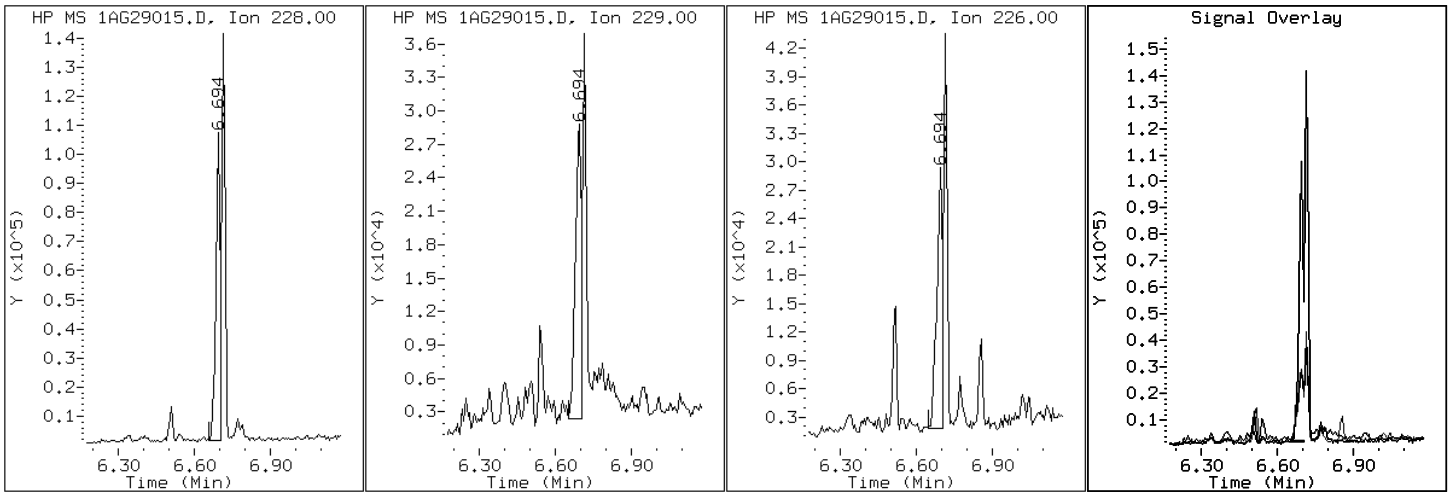
Data File: 1AG29015.D

Date: 29-JUL-2013 16:17

Client ID: Instrument: BSMA5973.i

Sample Info: 680-92626-a-7-a Operator: SCC

18 Benzo(a)anthracene



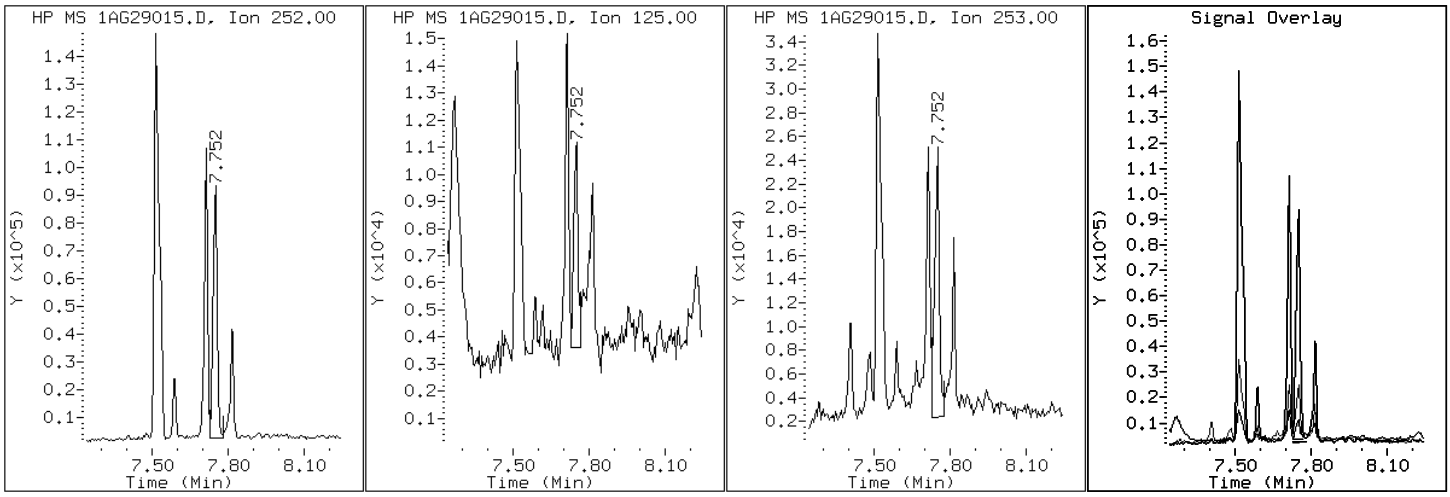
Data File: 1AG29015.D

Date: 29-JUL-2013 16:17

Client ID: Instrument: BSMA5973.i

Sample Info: 680-92626-a-7-a Operator: SCC

23 Benzo(a)pyrene



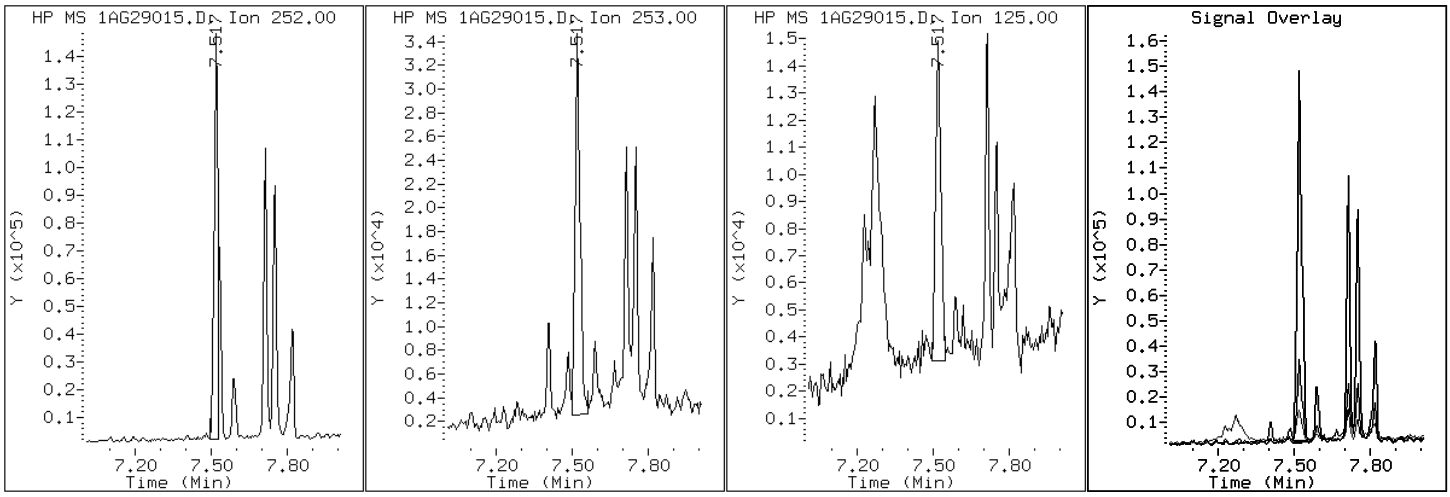
Data File: 1AG29015.D

Date: 29-JUL-2013 16:17

Client ID: Instrument: BSMA5973.i

Sample Info: 680-92626-a-7-a Operator: SCC

21 Benzo(b)fluoranthene



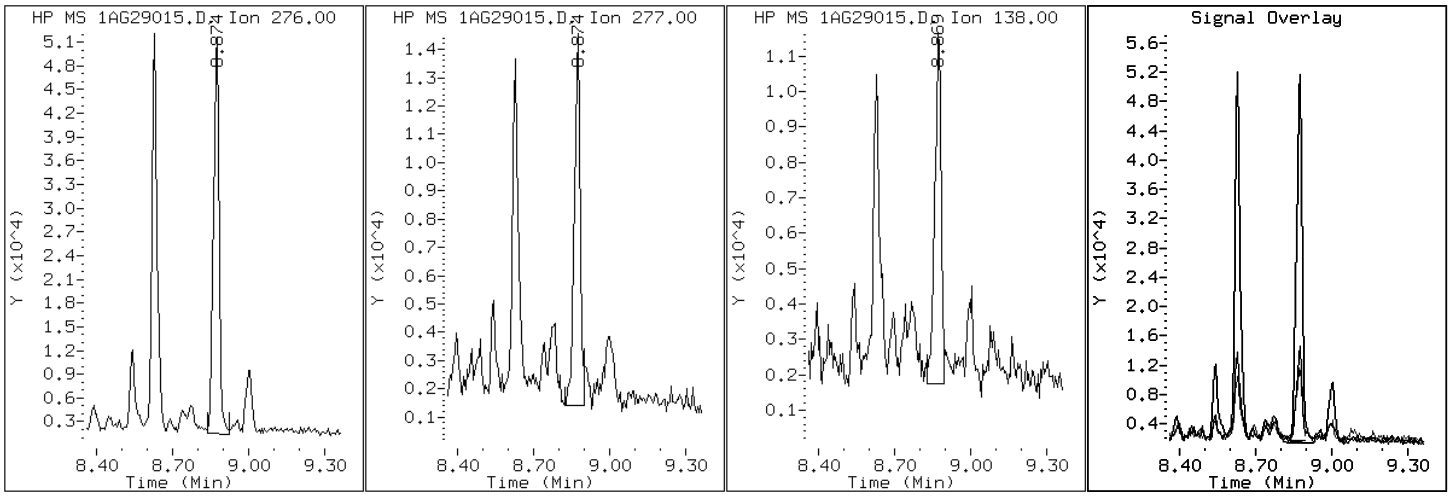
Data File: 1AG29015.D

Date: 29-JUL-2013 16:17

Client ID: Instrument: BSMA5973.i

Sample Info: 680-92626-a-7-a Operator: SCC

27 Benzo(g,h,i)perylene



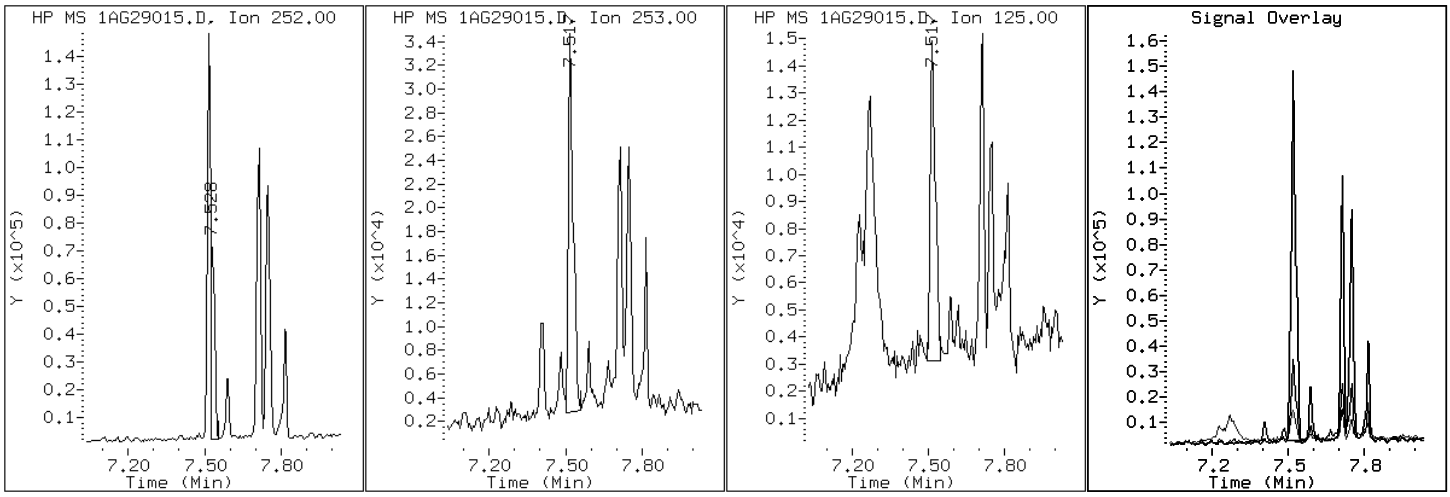
Data File: 1AG29015.D

Date: 29-JUL-2013 16:17

Client ID: Instrument: BSMA5973.i

Sample Info: 680-92626-a-7-a Operator: SCC

22 Benzo(k)fluoranthene



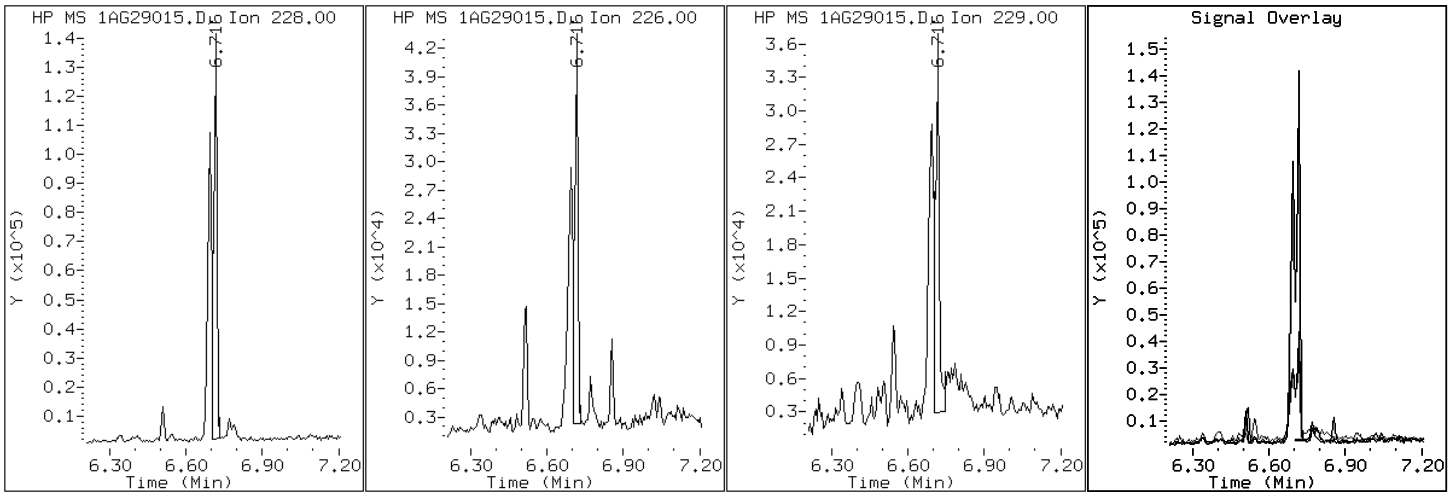
Data File: 1AG29015.D

Date: 29-JUL-2013 16:17

Client ID: Instrument: BSMA5973.i

Sample Info: 680-92626-a-7-a Operator: SCC

20 Chrysene



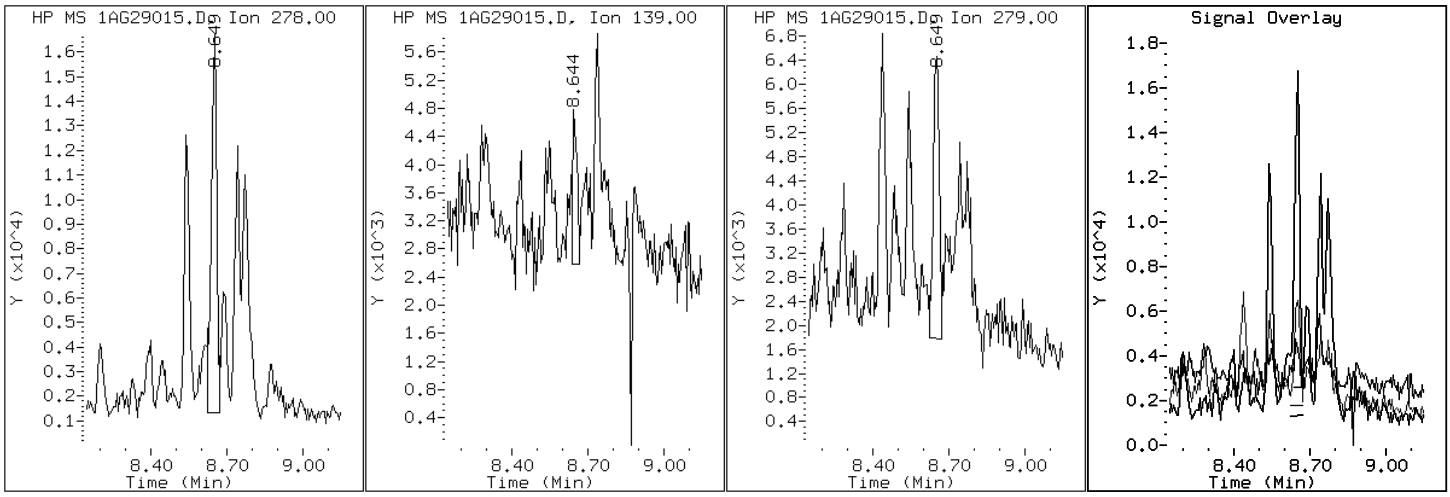
Data File: 1AG29015.D

Date: 29-JUL-2013 16:17

Client ID: Instrument: BSMA5973.i

Sample Info: 680-92626-a-7-a Operator: SCC

26 Dibenzo(a,h)anthracene



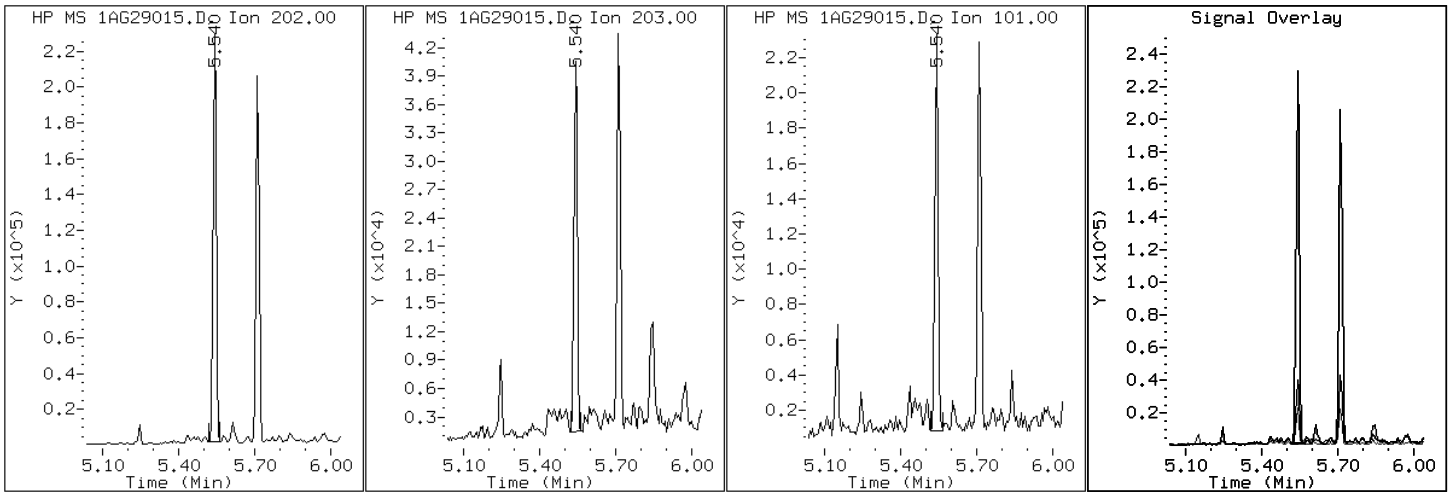
Data File: 1AG29015.D

Date: 29-JUL-2013 16:17

Client ID: Instrument: BSMA5973.i

Sample Info: 680-92626-a-7-a Operator: SCC

16 Fluoranthene



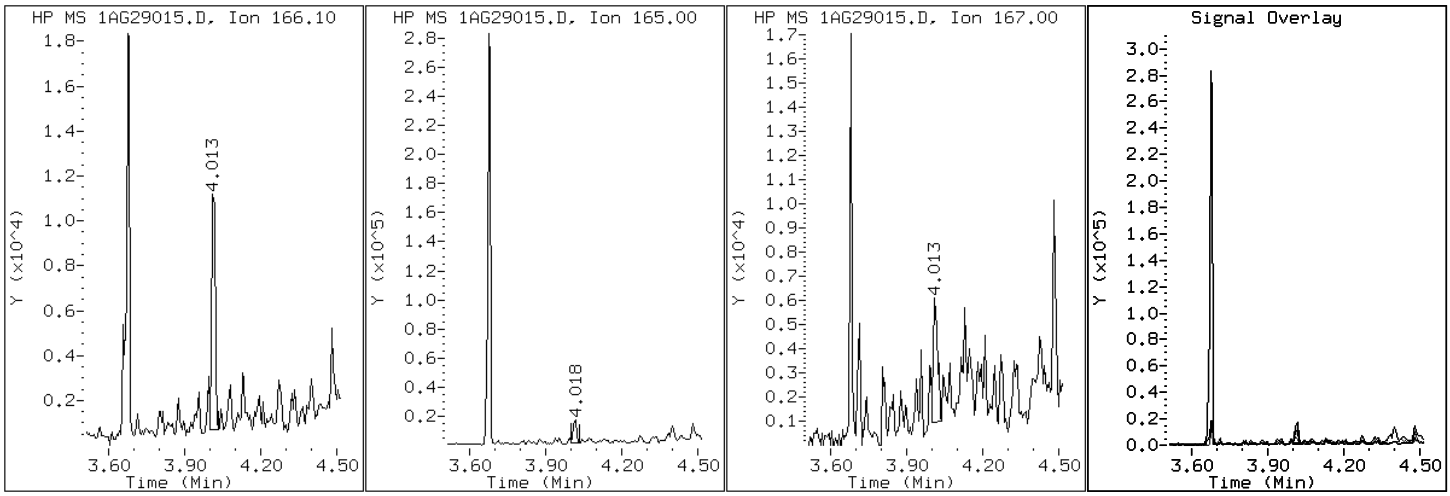
Data File: 1AG29015.D

Date: 29-JUL-2013 16:17

Client ID: Instrument: BSMA5973.i

Sample Info: 680-92626-a-7-a Operator: SCC

10 Fluorene



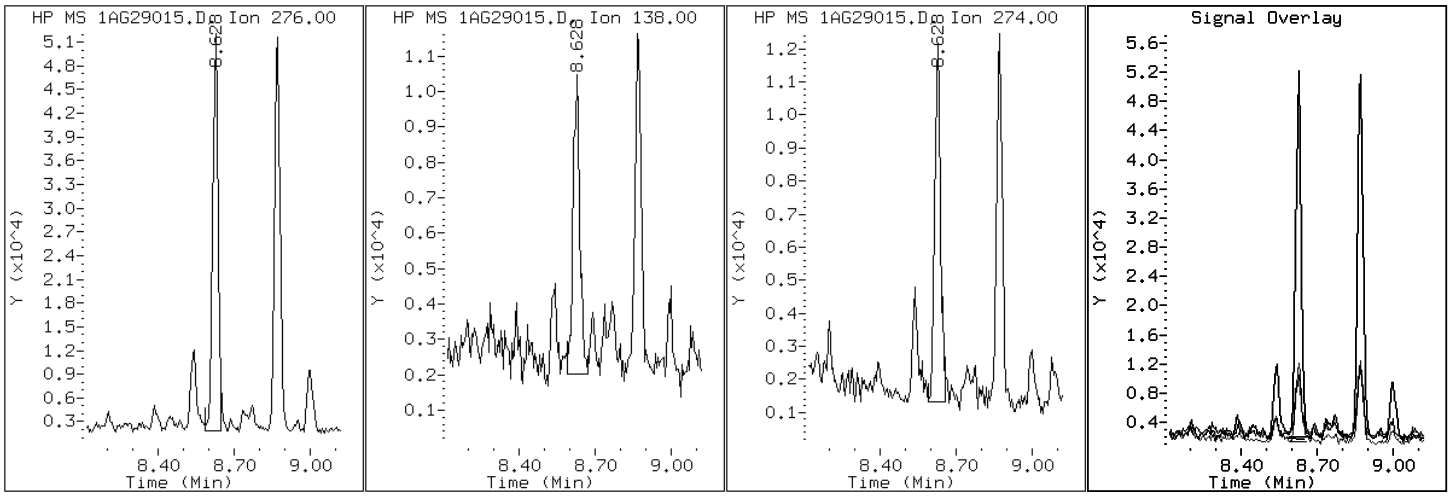
Data File: 1AG29015.D

Date: 29-JUL-2013 16:17

Client ID: Instrument: BSMA5973.i

Sample Info: 680-92626-a-7-a Operator: SCC

25 Indeno(1,2,3-cd)pyrene



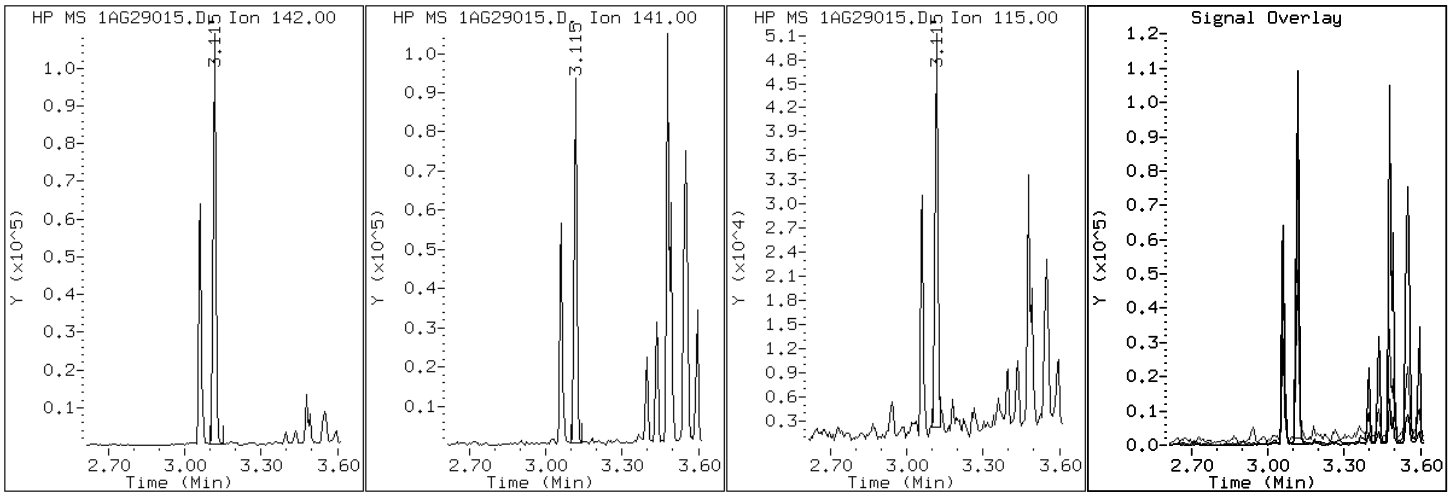
Data File: 1AG29015.D

Date: 29-JUL-2013 16:17

Client ID: Instrument: BSMA5973.i

Sample Info: 680-92626-a-7-a Operator: SCC

4 1-Methylnaphthalene



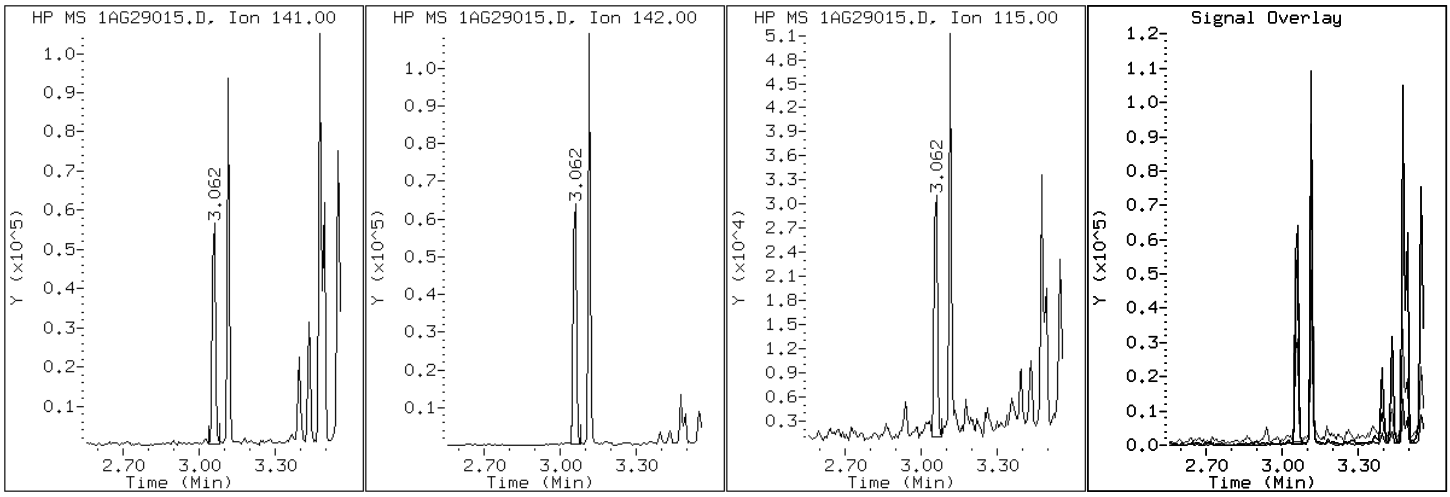
Data File: 1AG29015.D

Date: 29-JUL-2013 16:17

Client ID: Instrument: BSMA5973.i

Sample Info: 680-92626-a-7-a Operator: SCC

3 2-Methylnaphthalene



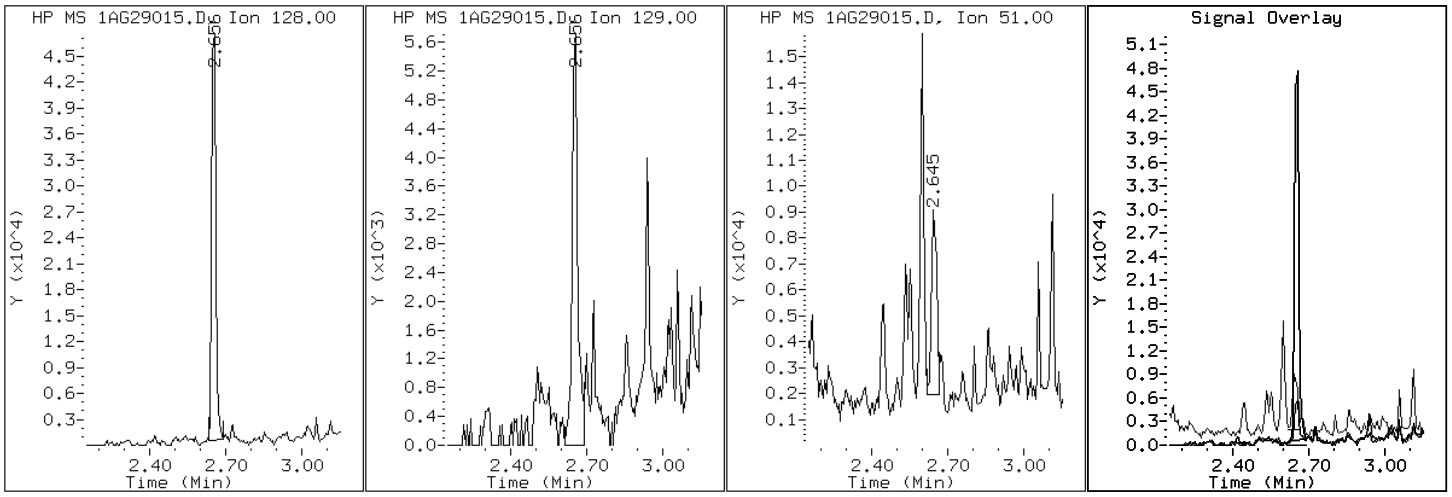
Data File: 1AG29015.D

Date: 29-JUL-2013 16:17

Client ID: Instrument: BSMA5973.i

Sample Info: 680-92626-a-7-a Operator: SCC

2 Naphthalene



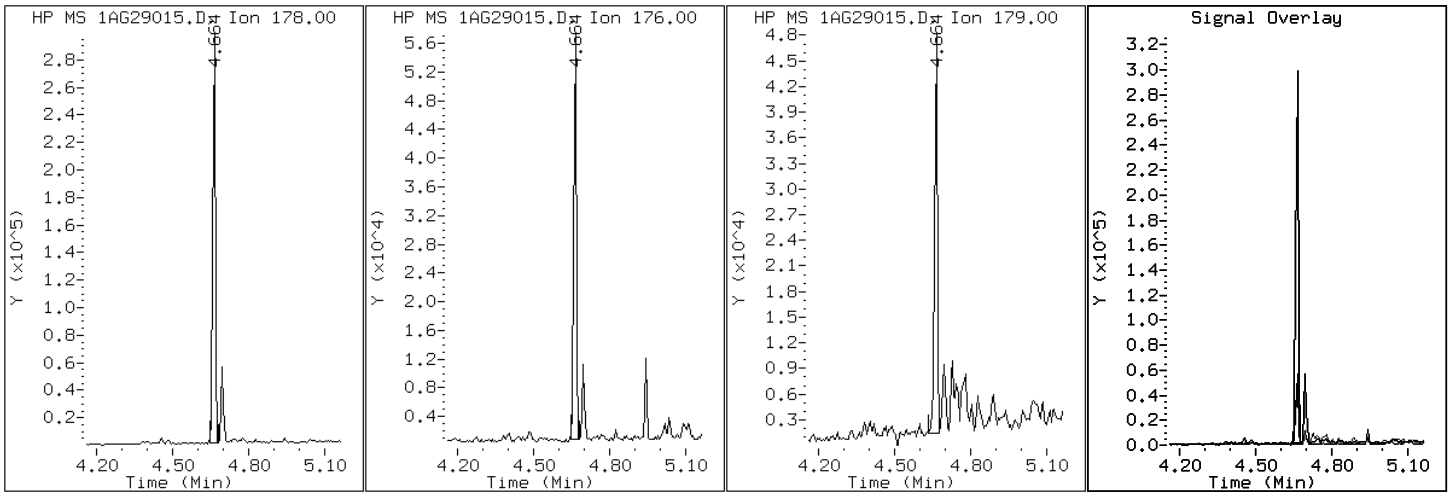
Data File: 1AG29015.D

Date: 29-JUL-2013 16:17

Client ID: Instrument: BSMA5973.i

Sample Info: 680-92626-a-7-a Operator: SCC

12 Phenanthrene



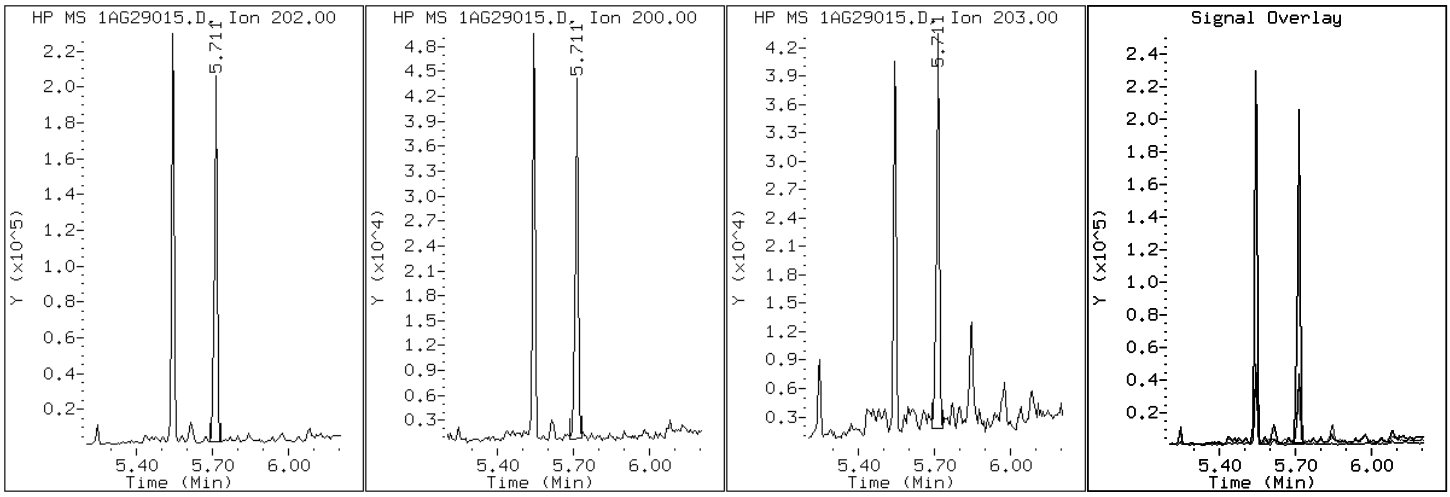
Data File: 1AG29015.D

Date: 29-JUL-2013 16:17

Client ID: Instrument: BSMA5973.i

Sample Info: 680-92626-a-7-a Operator: SCC

17 Pyrene



Manual Integration Report

Data File: 1AG29015.D
Inj. Date and Time: 29-JUL-2013 16:17
Instrument ID: BSMA5973.i
Client ID:
Compound: 21 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 07/30/2013

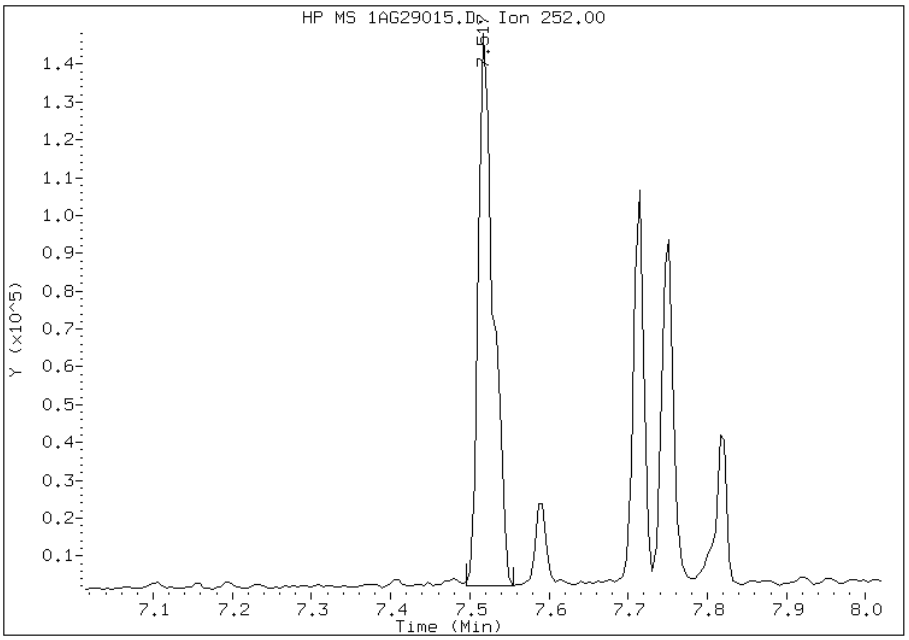
Processing Integration Results

RT: 7.52

Response: 191953

Amount: 3

Conc: 202



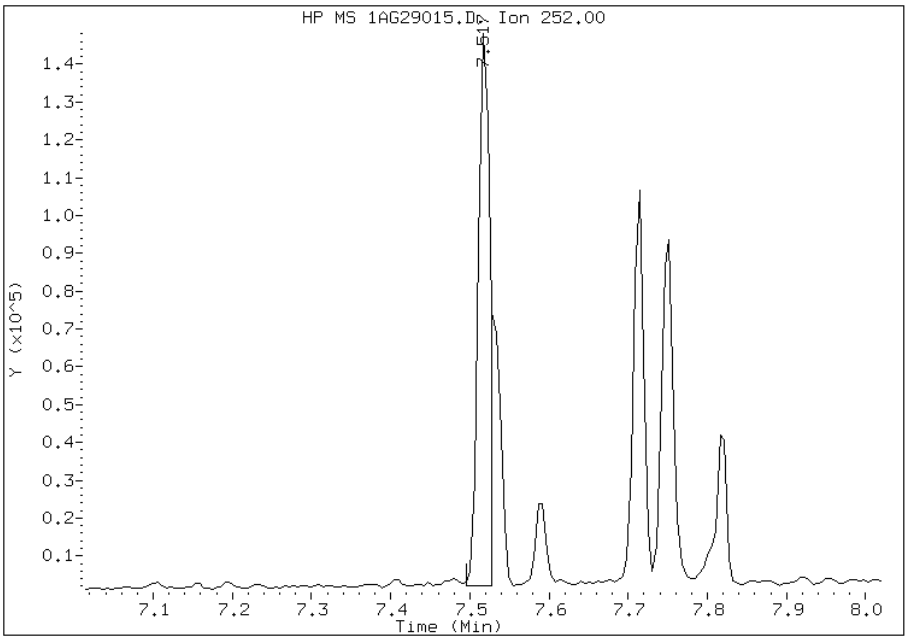
Manual Integration Results

RT: 7.52

Response: 149152

Amount: 2

Conc: 157



Manually Integrated By: cantins
Modification Date: 30-Jul-2013 12:49
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AG29015.D
Inj. Date and Time: 29-JUL-2013 16:17
Instrument ID: BSMA5973.i
Client ID:
Compound: 22 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 07/30/2013

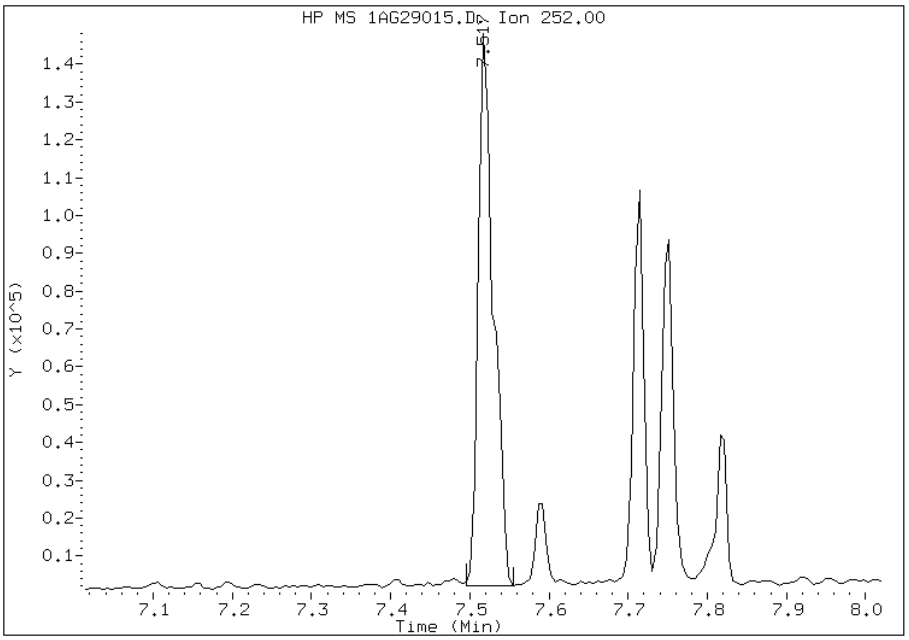
Processing Integration Results

RT: 7.52

Response: 191930

Amount: 2

Conc: 196



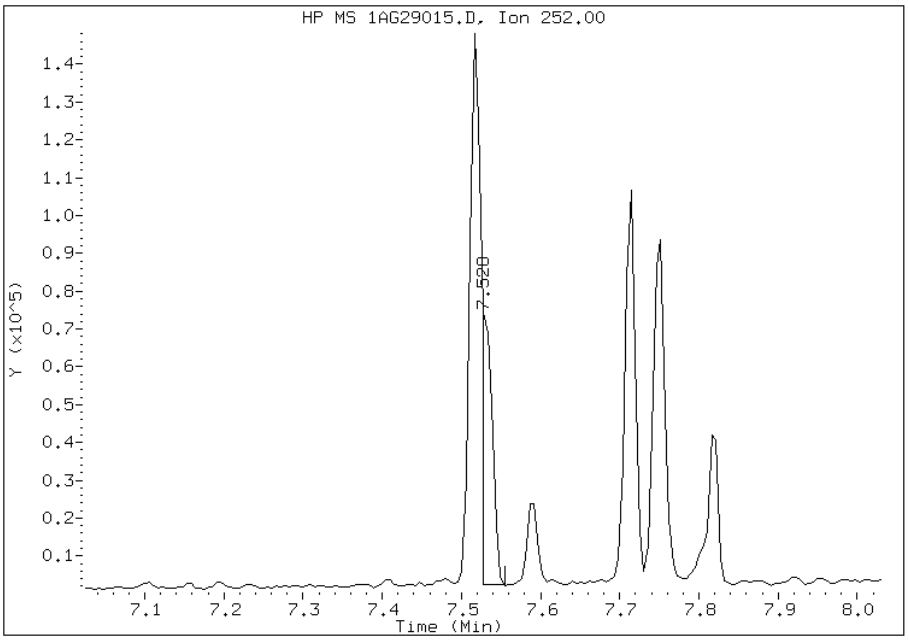
Manual Integration Results

RT: 7.53

Response: 65465

Amount: 1

Conc: 67



Manually Integrated By: cantins
Modification Date: 30-Jul-2013 12:49
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AG29015.D
Inj. Date and Time: 29-JUL-2013 16:17
Instrument ID: BSMA5973.i
Client ID:
Compound: 25 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 07/30/2013

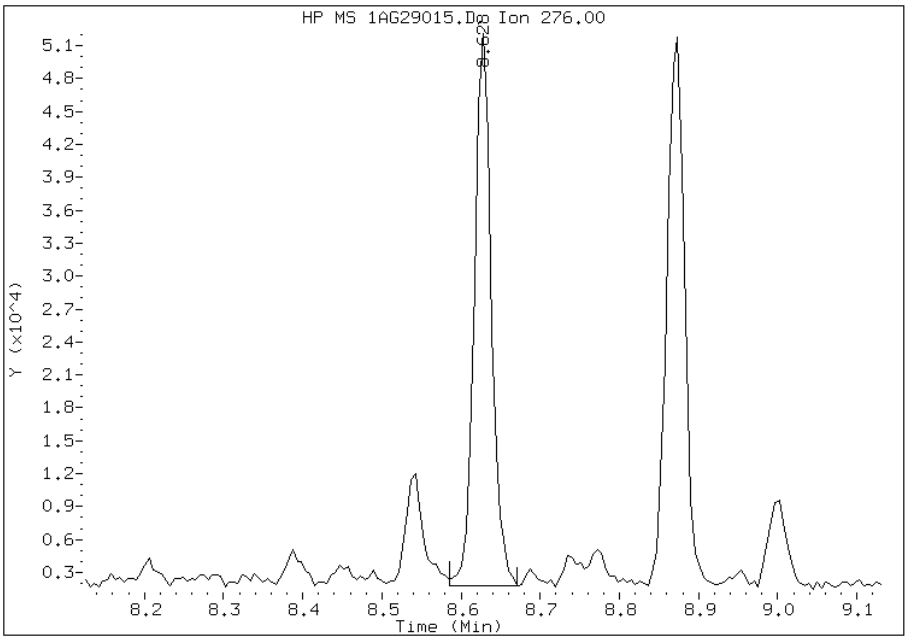
Processing Integration Results

RT: 8.63

Response: 74479

Amount: 1

Conc: 97



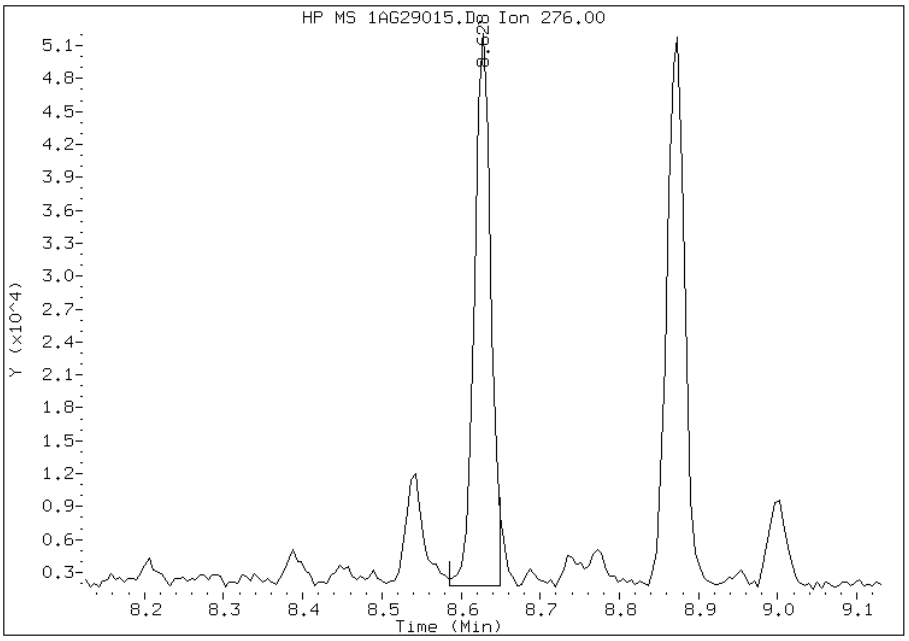
Manual Integration Results

RT: 8.63

Response: 72663

Amount: 1

Conc: 95



Manually Integrated By: cantins
Modification Date: 30-Jul-2013 12:50
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-92626-1

SDG No.: 680-92626-01

Client Sample ID: CV0083A-VGSO-CS | Lab Sample ID: 680-92626-8

Matrix: Solid | Lab File ID: 1AG29016.D

Analysis Method: 8270C LL | Date Collected: 07/24/2013 08:55

Extract. Method: 3546 | Date Extracted: 07/26/2013 14:59

Sample wt/vol: 15.05(g) | Date Analyzed: 07/29/2013 16:32

Con. Extract Vol.: 1(mL) | Dilution Factor: 4

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 17.0 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 139909 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	480	U	480	96
208-96-8	Acenaphthylene	74	J	190	24
120-12-7	Anthracene	120		40	20
56-55-3	Benzo[a]anthracene	340		38	19
50-32-8	Benzo[a]pyrene	290		50	25
205-99-2	Benzo[b]fluoranthene	470		59	29
191-24-2	Benzo[g,h,i]perylene	270		96	21
207-08-9	Benzo[k]fluoranthene	130		38	17
218-01-9	Chrysene	340		43	22
53-70-3	Dibenz(a,h)anthracene	77	J	96	20
206-44-0	Fluoranthene	480		96	19
86-73-7	Fluorene	28	J	96	20
193-39-5	Indeno[1,2,3-cd]pyrene	240		96	34
90-12-0	1-Methylnaphthalene	91	J	190	21
91-57-6	2-Methylnaphthalene	110	J	190	34
91-20-3	Naphthalene	89	J	190	21
85-01-8	Phenanthrene	340		38	19
129-00-0	Pyrene	370		96	18

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	51		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A072913.b\1AG29016.D
Lab Smp Id: 680-92626-a-8-a
Inj Date : 29-JUL-2013 16:32
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-92626-a-8-a
Misc Info : 4.0
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A072913.b\a-bFASTPAHi-m.m
Meth Date : 29-Jul-2013 12:10 cantins Quant Type: ISTD
Cal Date : 07-JUL-2013 15:46 Cal File: 1AG07012.D
Als bottle: 16
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14

Concentration Formula:
Amt * DF * 1/Vi * Vt/Ws * 100/(100 - M) * A * B * C * D * GPC * CpndVariable

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.050	Weight Extracted
M	17.000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1	Naphthalene-d8	136	2.645	2.640	(1.000)	2615341	40.0000	
* 7	Acenaphthene-d10	164	3.681	3.671	(1.000)	1712580	40.0000	
* 11	Phenanthrene-d10	188	4.653	4.643	(1.000)	2294964	40.0000	
$ 15	o-Terphenyl	230	4.942	4.937	(1.062)	44377	1.27251	407.4800
* 19	Chrysene-d12	240	6.699	6.689	(1.000)	2425457	40.0000	
* 24	Perylene-d12	264	7.805	7.795	(1.000)	2938342	40.0000	
2	Naphthalene	128	2.655	2.650	(1.004)	16503	0.27928	89.4315
3	2-Methylnaphthalene	141	3.061	3.056	(1.158)	11902	0.35304	113.0502
4	1-Methylnaphthalene	142	3.115	3.110	(1.178)	11187	0.28418	91.0000
6	Acenaphthylene	152	3.590	3.585	(0.975)	17769	0.23259	74.4805
10	Fluorene	166	4.012	4.013	(1.090)	4636	0.08655	27.7150(Q)
12	Phenanthrene	178	4.664	4.659	(1.002)	62274	1.06618	341.4089
13	Anthracene	178	4.696	4.691	(1.009)	22565	0.37048	118.6346
16	Fluoranthene	202	5.540	5.535	(1.191)	106014	1.50837	483.0055
17	Pyrene	202	5.711	5.701	(0.852)	92501	1.14559	366.8373

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
18 Benzo(a)anthracene	228	6.694	6.673	(0.999)	88688	1.04816	335.6384
20 Chrysene	228	6.715	6.705	(1.002)	68901	1.04864	335.7945
21 Benzo(b)fluoranthene	252	7.511	7.506	(0.962)	122689	1.46679	469.6925(M)
22 Benzo(k)fluoranthene	252	7.527	7.533	(0.964)	35297	0.40870	130.8716(QM)
23 Benzo(a)pyrene	252	7.741	7.741	(0.992)	69812	0.90251	288.9989
25 Indeno(1,2,3-cd)pyrene	276	8.612	8.617	(1.103)	51488	0.76338	244.4465(M)
26 Dibenzo(a,h)anthracene	278	8.639	8.644	(1.107)	15417	0.24175	77.4137
27 Benzo(g,h,i)perylene	276	8.858	8.858	(1.135)	53474	0.83621	267.7698

QC Flag Legend

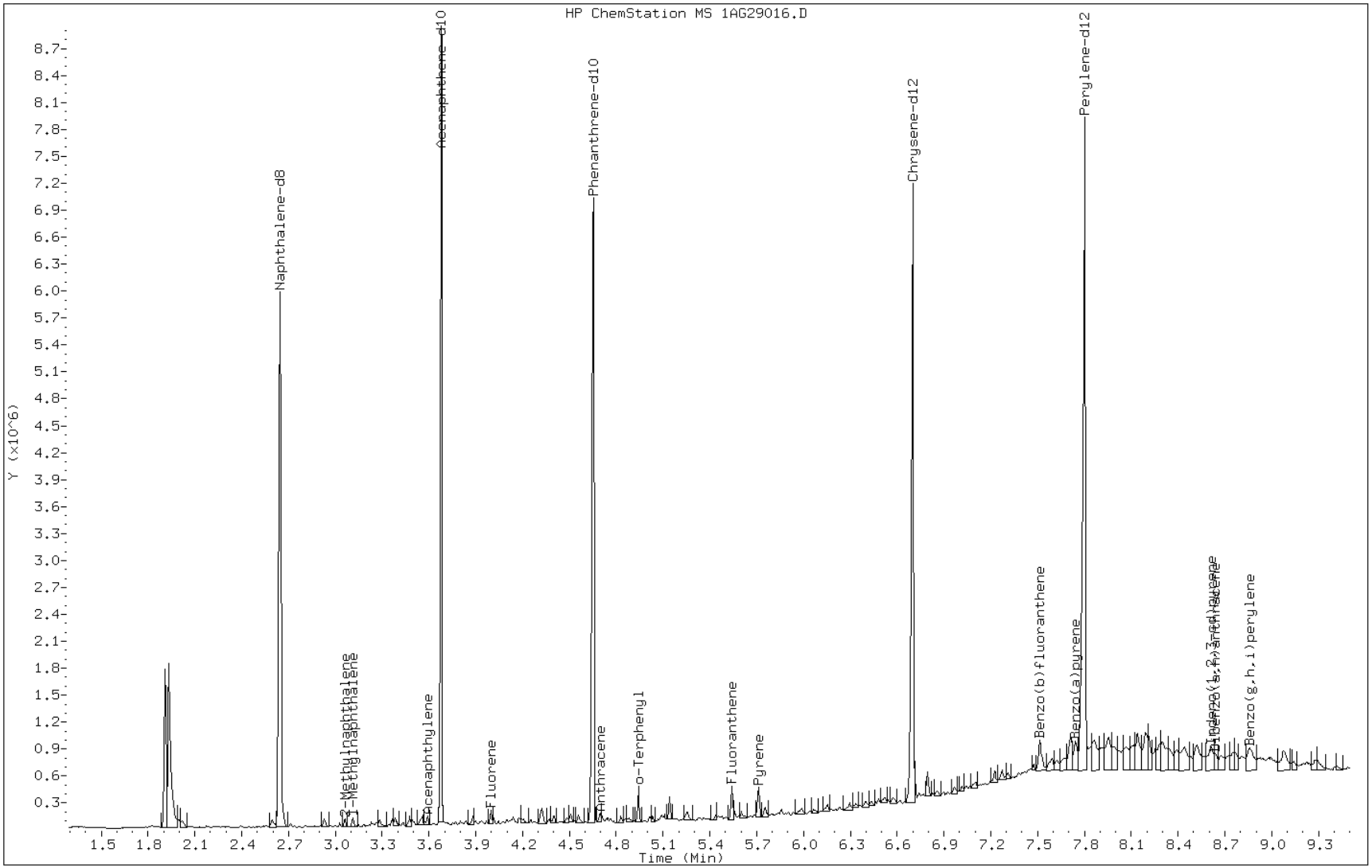
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1AG29016.D

Date: 29-JUL-2013 16:32

Client ID: Instrument: BSMA5973.i

Sample Info: 680-92626-a-8-a Operator: SCC



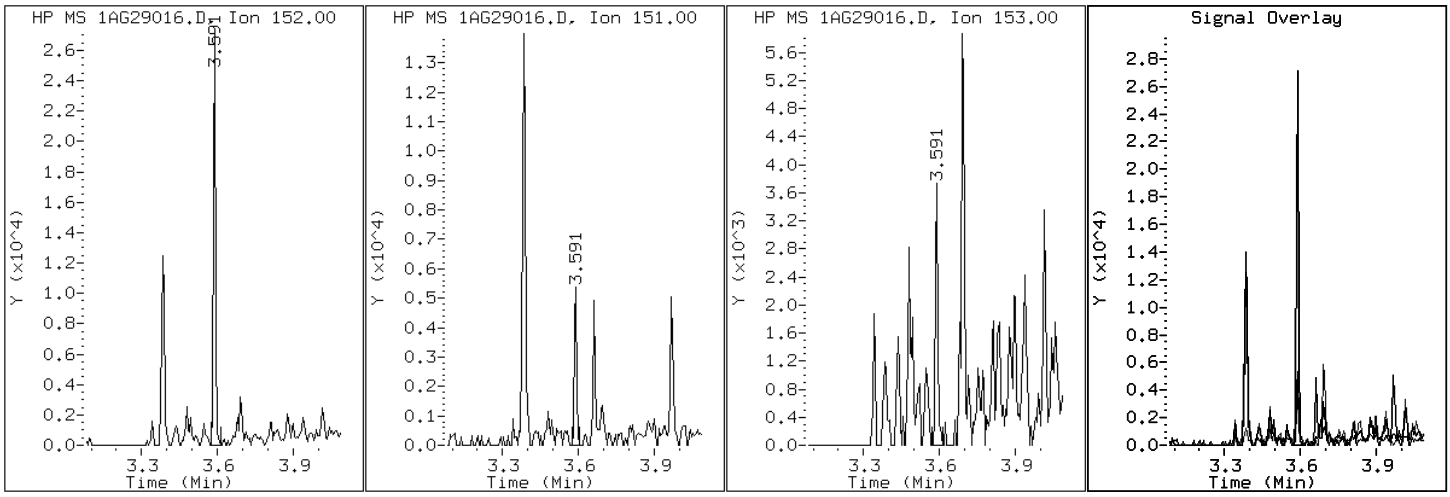
Data File: 1AG29016.D

Date: 29-JUL-2013 16:32

Client ID: Instrument: BSMA5973.i

Sample Info: 680-92626-a-8-a Operator: SCC

6 Acenaphthylene



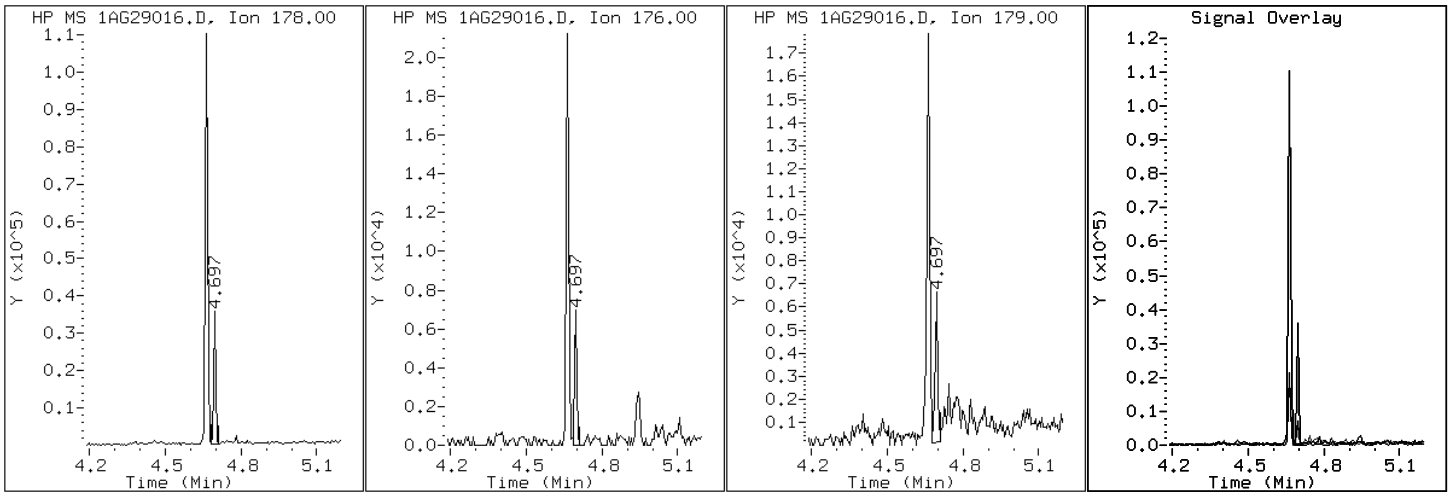
Data File: 1AG29016.D

Date: 29-JUL-2013 16:32

Client ID: Instrument: BSMA5973.i

Sample Info: 680-92626-a-8-a Operator: SCC

13 Anthracene



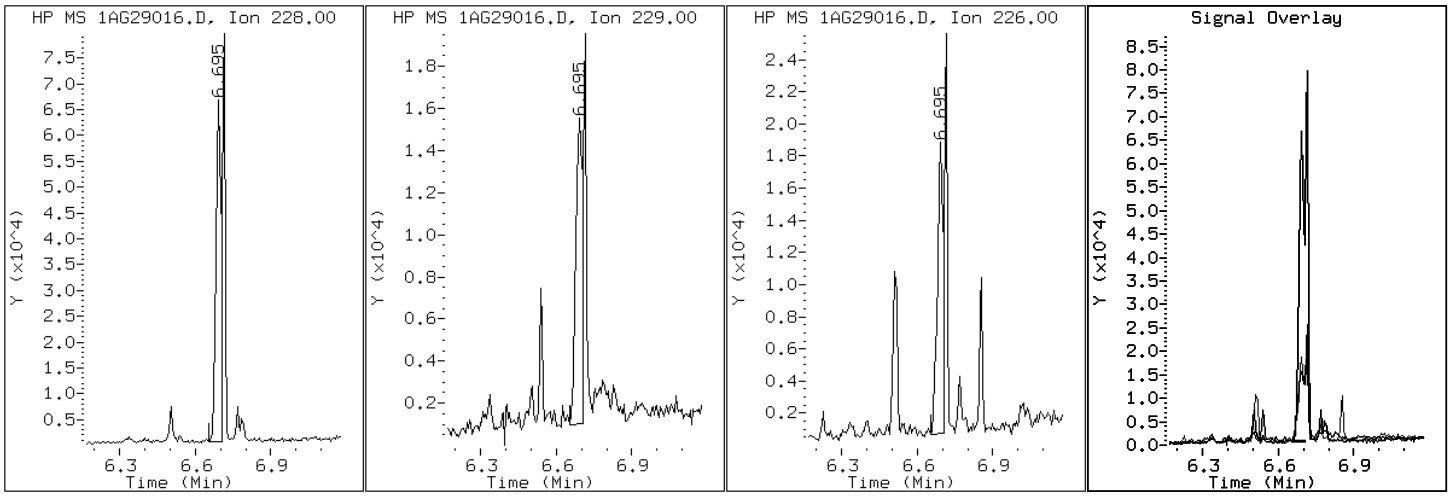
Data File: 1AG29016.D

Date: 29-JUL-2013 16:32

Client ID: Instrument: BSMA5973.i

Sample Info: 680-92626-a-8-a Operator: SCC

18 Benzo(a)anthracene



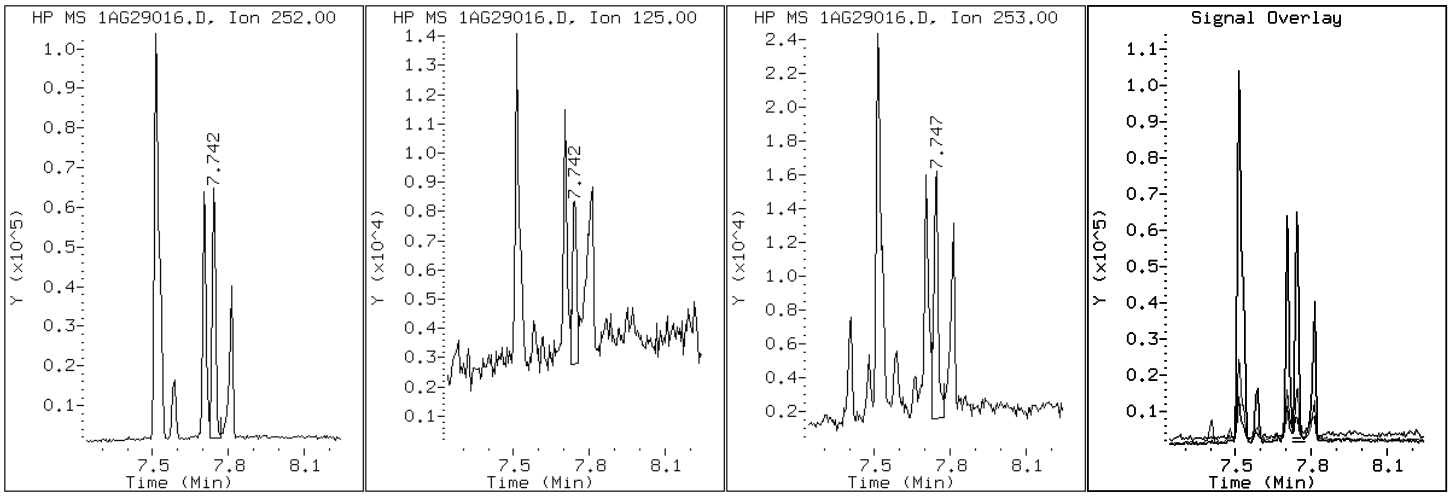
Data File: 1AG29016.D

Date: 29-JUL-2013 16:32

Client ID: Instrument: BSMA5973.i

Sample Info: 680-92626-a-8-a Operator: SCC

23 Benzo(a)pyrene



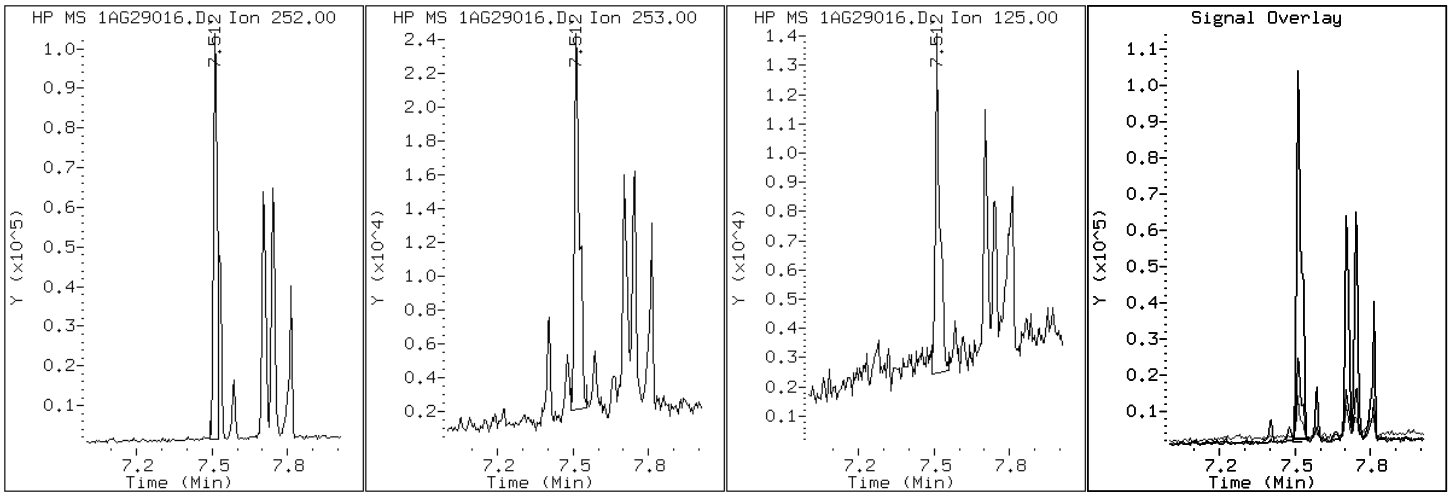
Data File: 1AG29016.D

Date: 29-JUL-2013 16:32

Client ID: Instrument: BSMA5973.i

Sample Info: 680-92626-a-8-a Operator: SCC

21 Benzo(b)fluoranthene



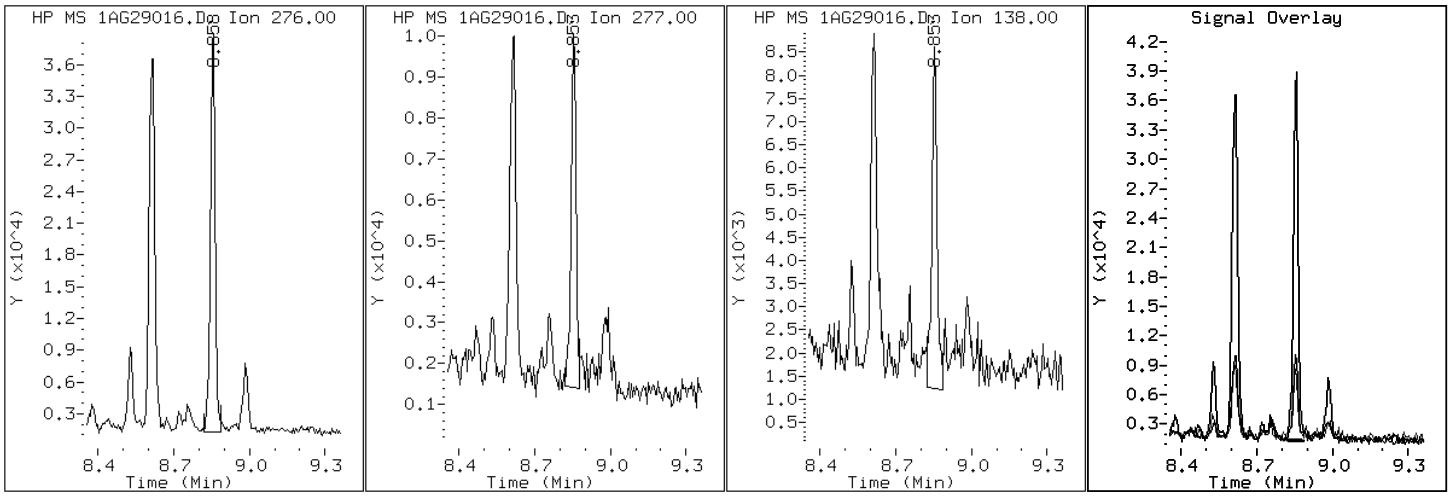
Data File: 1AG29016.D

Date: 29-JUL-2013 16:32

Client ID: Instrument: BSMA5973.i

Sample Info: 680-92626-a-8-a Operator: SCC

27 Benzo(g,h,i)perylene



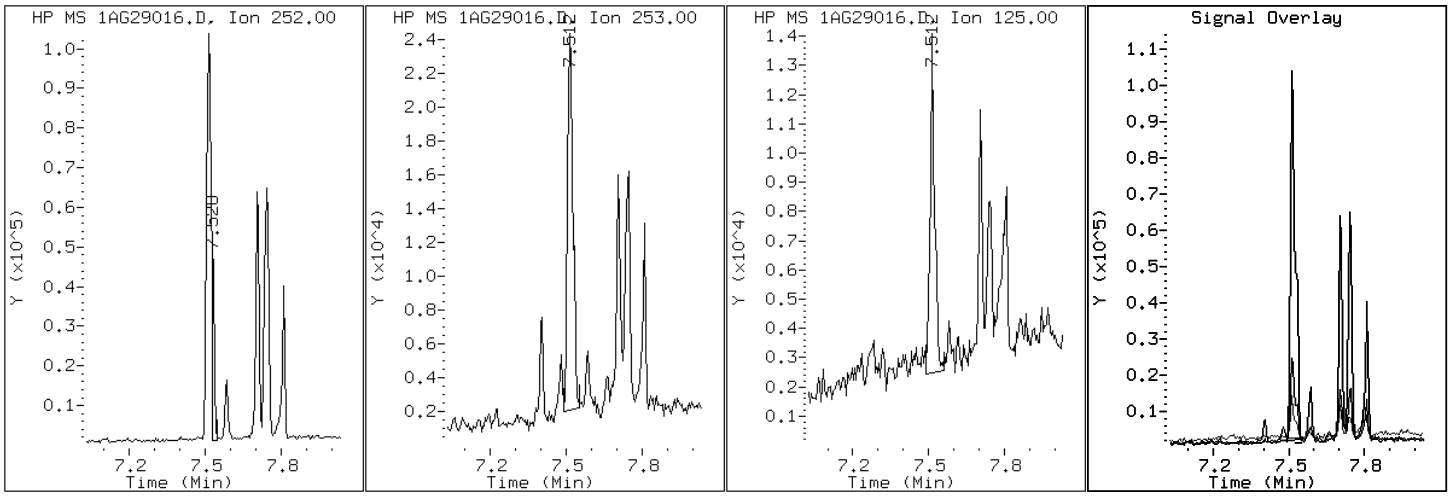
Data File: 1AG29016.D

Date: 29-JUL-2013 16:32

Client ID: Instrument: BSMA5973.i

Sample Info: 680-92626-a-8-a Operator: SCC

22 Benzo(k)fluoranthene



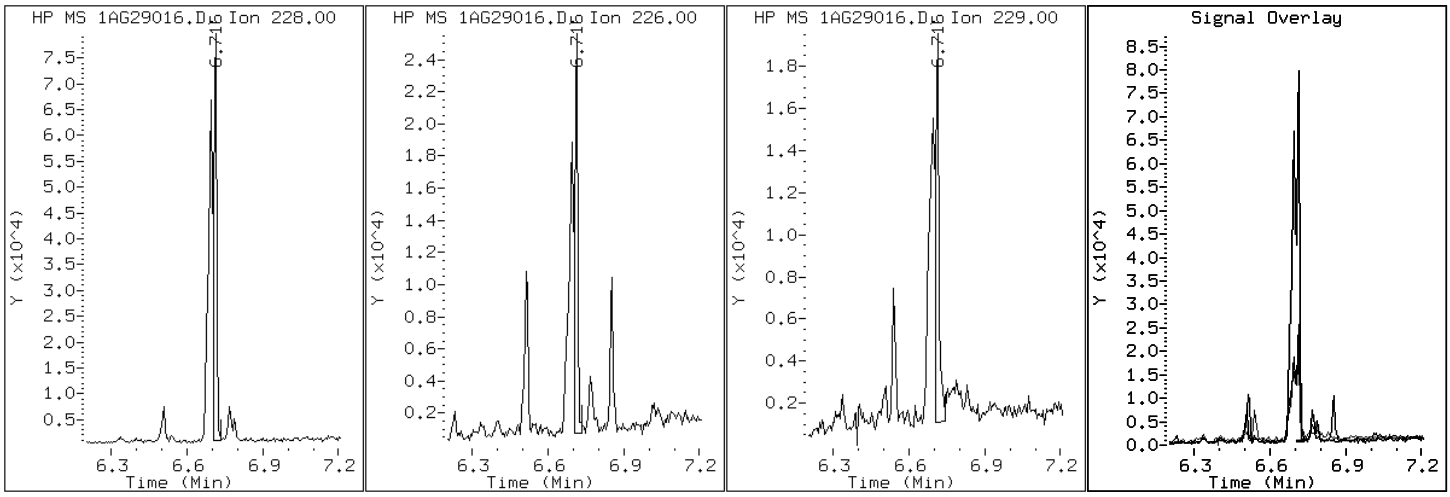
Data File: 1AG29016.D

Date: 29-JUL-2013 16:32

Client ID: Instrument: BSMA5973.i

Sample Info: 680-92626-a-8-a Operator: SCC

20 Chrysene



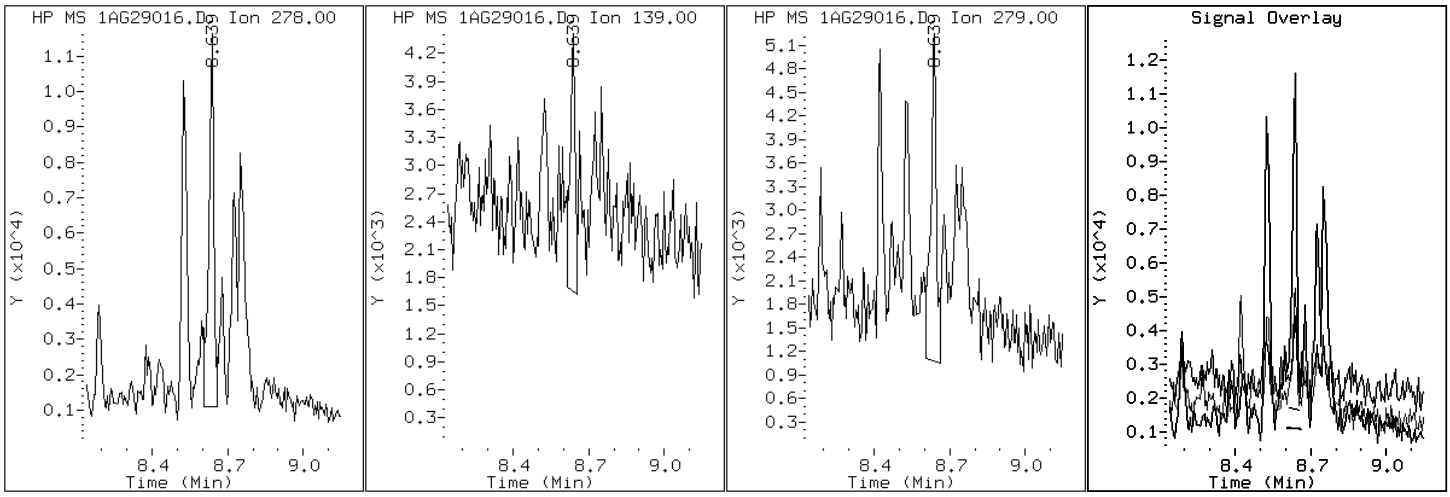
Data File: 1AG29016.D

Date: 29-JUL-2013 16:32

Client ID: Instrument: BSMA5973.i

Sample Info: 680-92626-a-8-a Operator: SCC

26 Dibenzo(a,h)anthracene



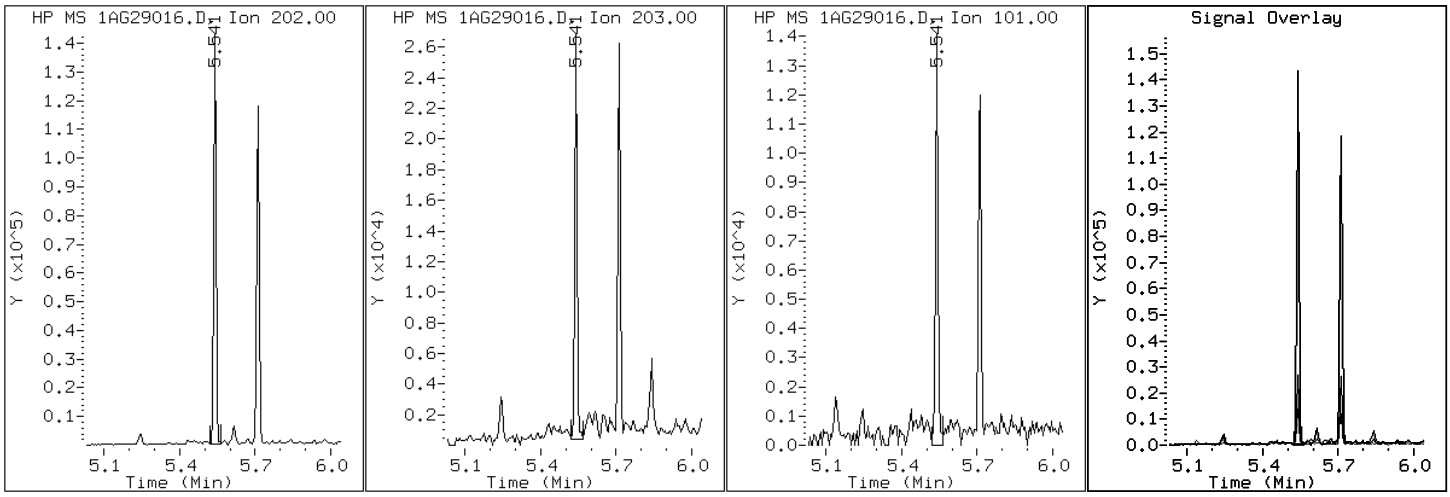
Data File: 1AG29016.D

Date: 29-JUL-2013 16:32

Client ID: Instrument: BSMA5973.i

Sample Info: 680-92626-a-8-a Operator: SCC

16 Fluoranthene



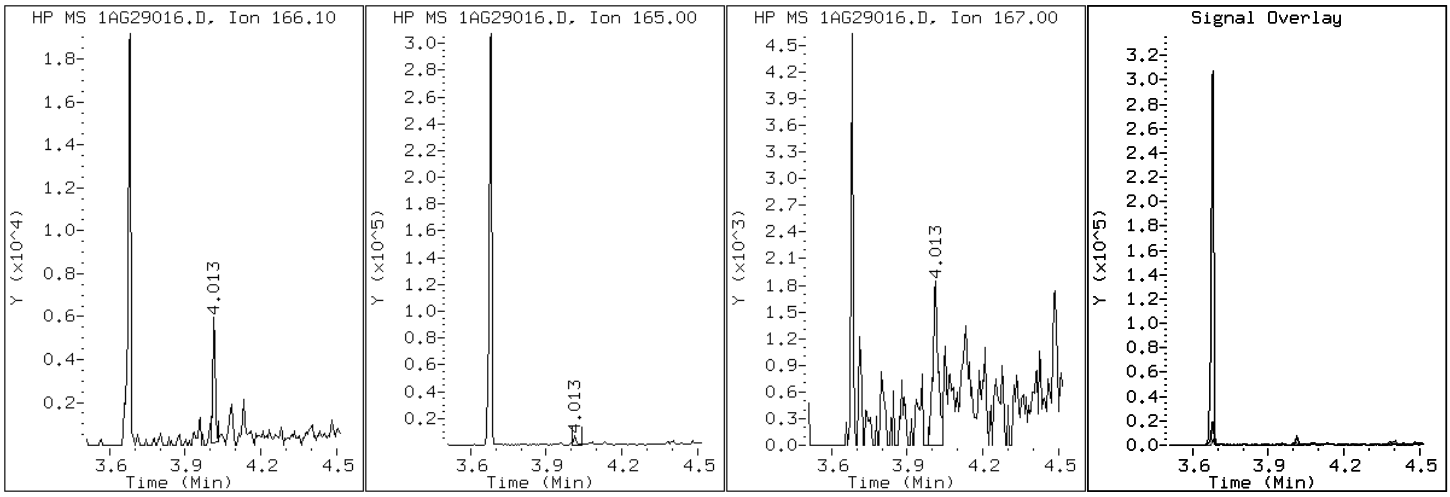
Data File: 1AG29016.D

Date: 29-JUL-2013 16:32

Client ID: Instrument: BSMA5973.i

Sample Info: 680-92626-a-8-a Operator: SCC

10 Fluorene



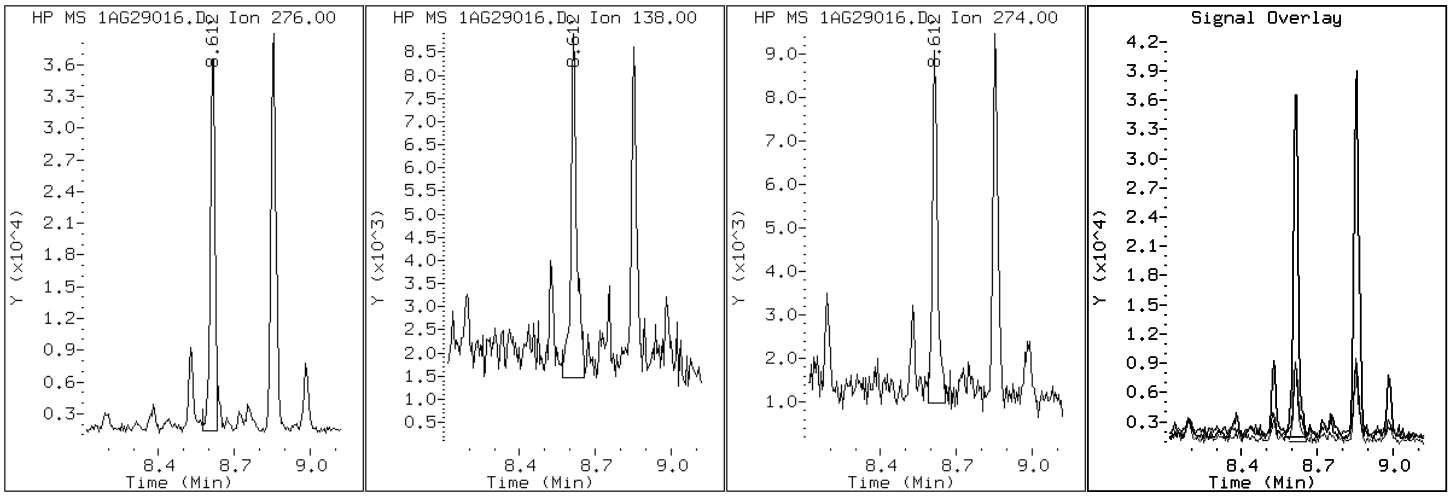
Data File: 1AG29016.D

Date: 29-JUL-2013 16:32

Client ID: Instrument: BSMA5973.i

Sample Info: 680-92626-a-8-a Operator: SCC

25 Indeno(1,2,3-cd)pyrene



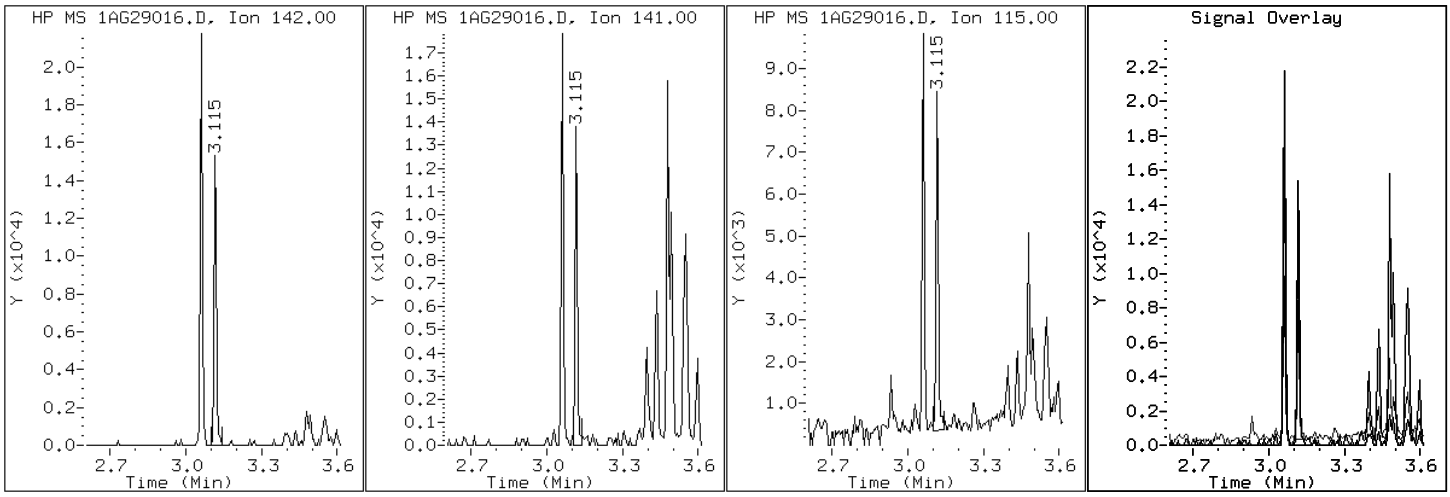
Data File: 1AG29016.D

Date: 29-JUL-2013 16:32

Client ID: Instrument: BSMA5973.i

Sample Info: 680-92626-a-8-a Operator: SCC

4 1-Methylnaphthalene



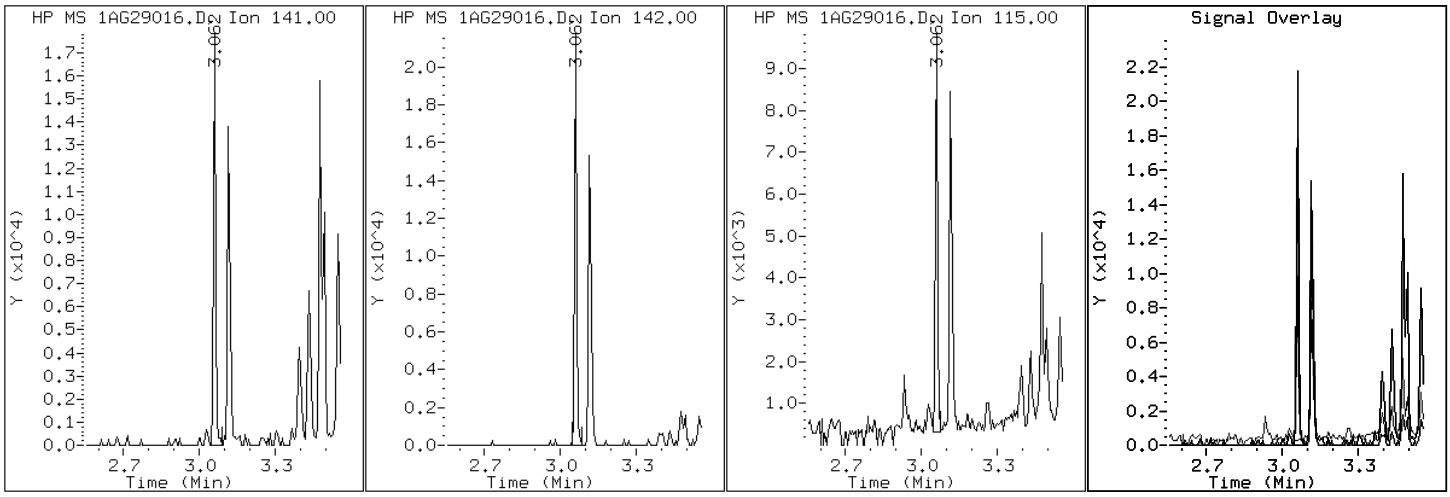
Data File: 1AG29016.D

Date: 29-JUL-2013 16:32

Client ID: Instrument: BSMA5973.i

Sample Info: 680-92626-a-8-a Operator: SCC

3 2-Methylnaphthalene



Data File: 1AG29016.D

Date: 29-JUL-2013 16:32

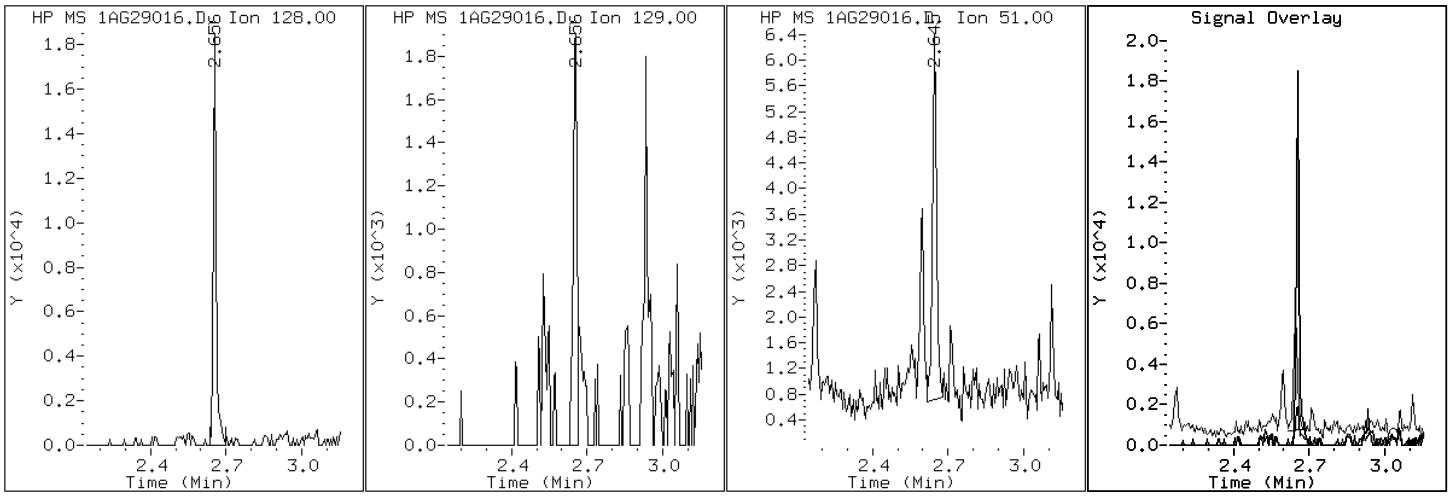
Client ID:

Instrument: BSMA5973.i

Sample Info: 680-92626-a-8-a

Operator: SCC

2 Naphthalene



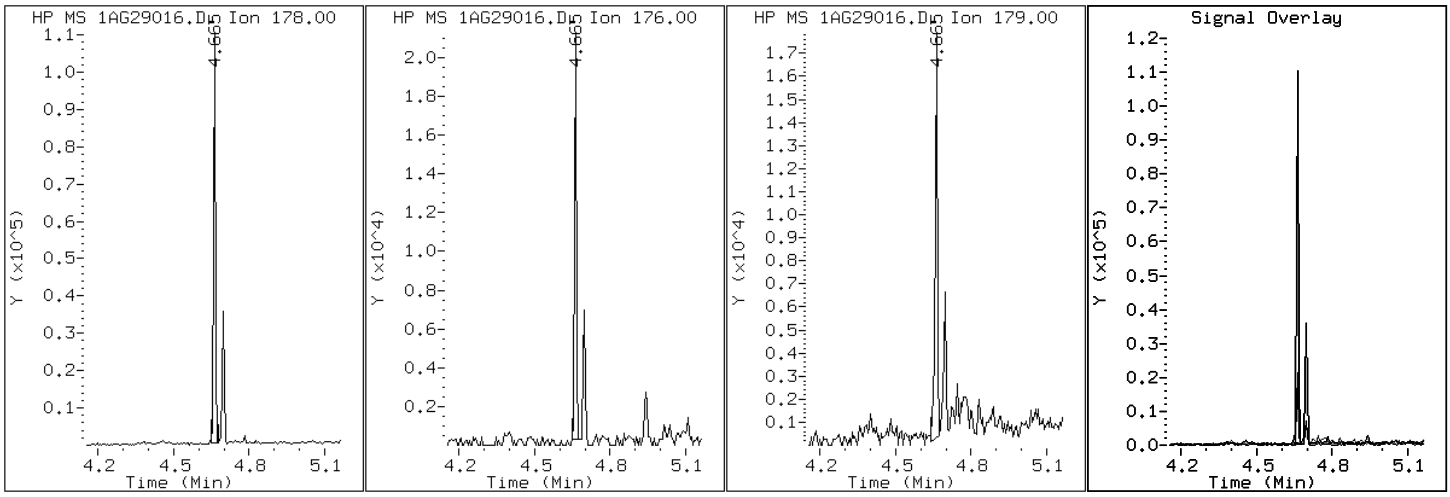
Data File: 1AG29016.D

Date: 29-JUL-2013 16:32

Client ID: Instrument: BSMA5973.i

Sample Info: 680-92626-a-8-a Operator: SCC

12 Phenanthrene



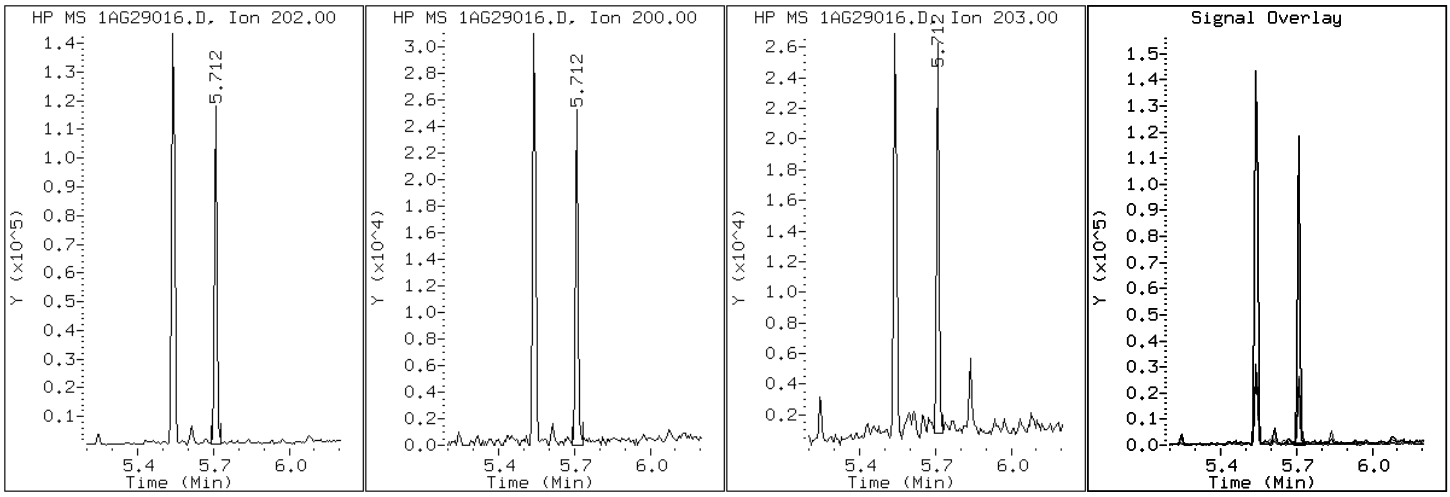
Data File: 1AG29016.D

Date: 29-JUL-2013 16:32

Client ID: Instrument: BSMA5973.i

Sample Info: 680-92626-a-8-a Operator: SCC

17 Pyrene



Manual Integration Report

Data File: 1AG29016.D
Inj. Date and Time: 29-JUL-2013 16:32
Instrument ID: BSMA5973.i
Client ID:
Compound: 21 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 07/30/2013

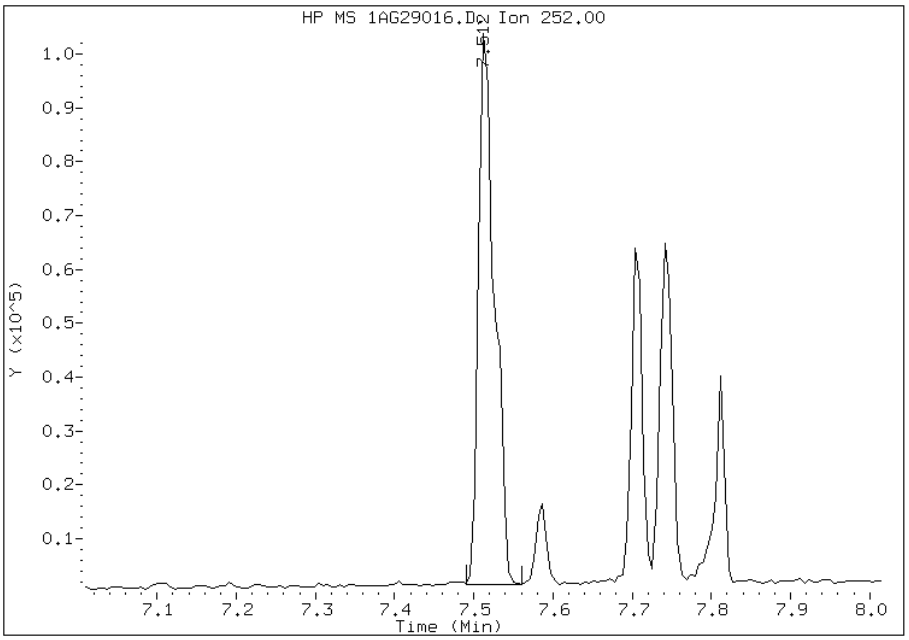
Processing Integration Results

RT: 7.51

Response: 142416

Amount: 2

Conc: 545



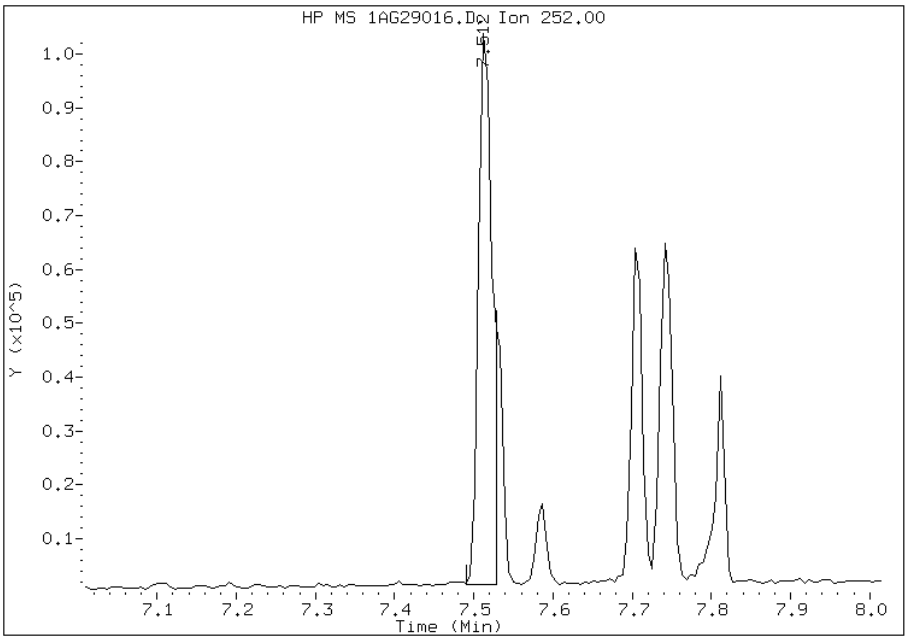
Manual Integration Results

RT: 7.51

Response: 122689

Amount: 1

Conc: 470



Manually Integrated By: cantins
Modification Date: 30-Jul-2013 12:50
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AG29016.D
Inj. Date and Time: 29-JUL-2013 16:32
Instrument ID: BSMA5973.i
Client ID:
Compound: 22 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 07/30/2013

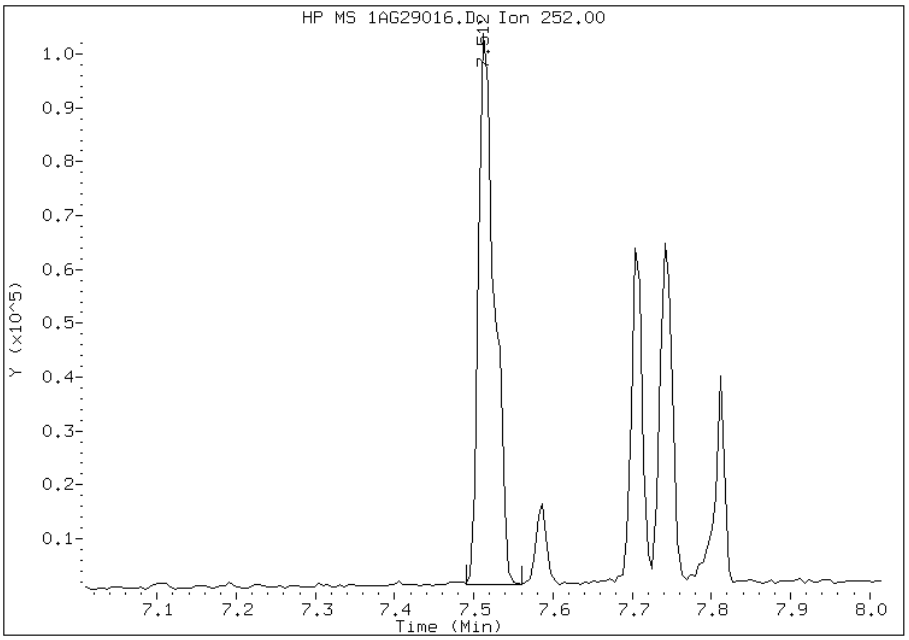
Processing Integration Results

RT: 7.51

Response: 142416

Amount: 2

Conc: 528



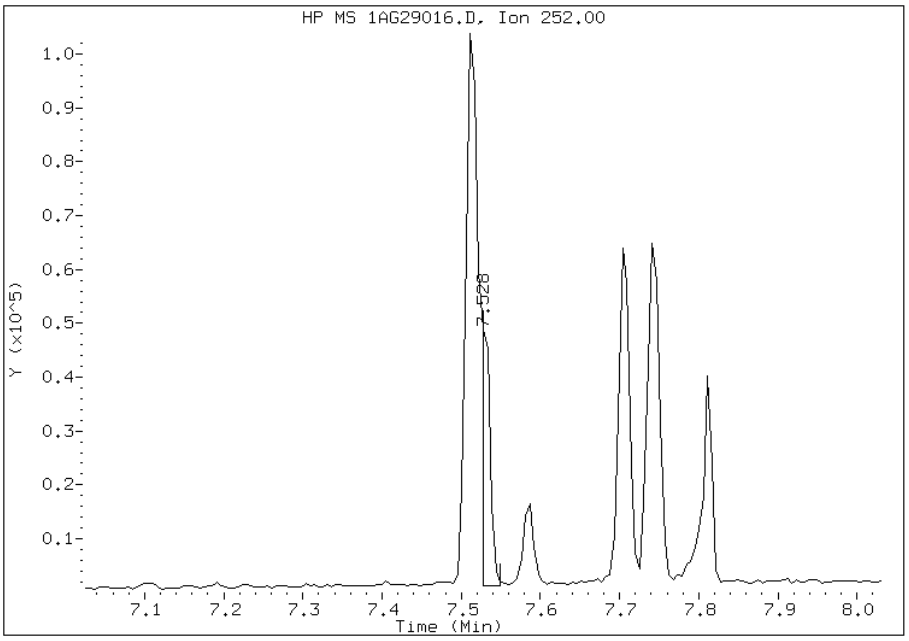
Manual Integration Results

RT: 7.53

Response: 35297

Amount: 0

Conc: 131



Manually Integrated By: cantins
Modification Date: 30-Jul-2013 12:50
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AG29016.D
Inj. Date and Time: 29-JUL-2013 16:32
Instrument ID: BSMA5973.i
Client ID:
Compound: 25 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 07/30/2013

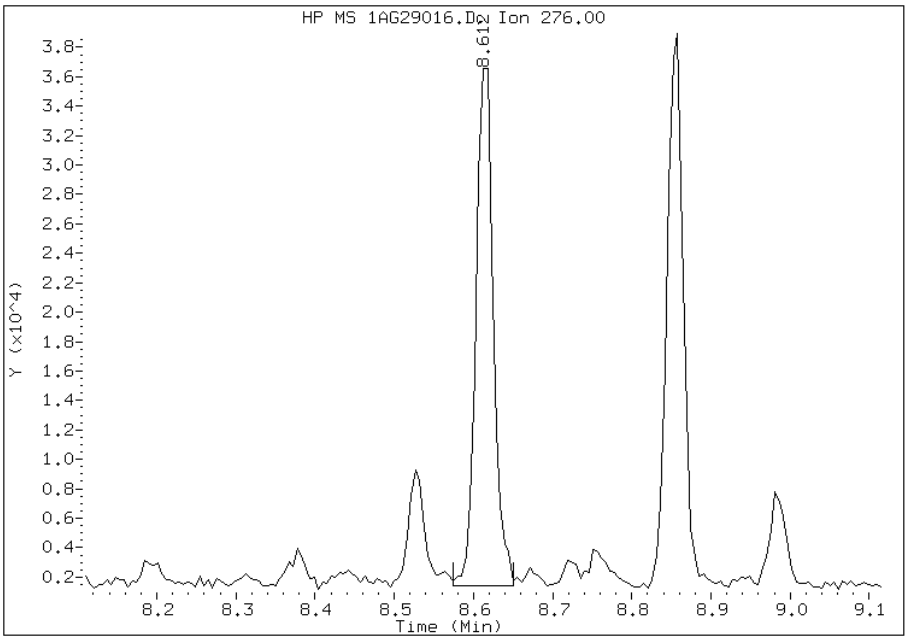
Processing Integration Results

RT: 8.61

Response: 53238

Amount: 1

Conc: 253



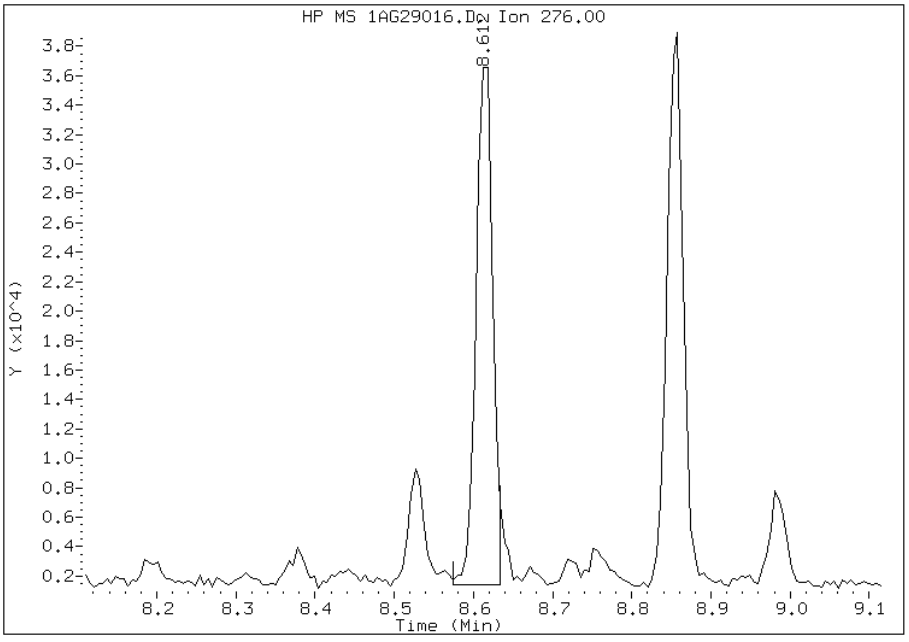
Manual Integration Results

RT: 8.61

Response: 51488

Amount: 1

Conc: 244



Manually Integrated By: cantins
Modification Date: 30-Jul-2013 12:51
Manual Integration Reason: Split Peak

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Tampa Job No.: 680-92626-1 Analy Batch No.: 139145

SDG No.: 680-92626-01

Instrument ID: BSMA5973 GC Column: DB-5MS ID: 250(um) Heated Purge: (Y/N) N

Calibration Start Date: 07/07/2013 14:06 Calibration End Date: 07/07/2013 15:46 Calibration ID: 3117

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 660-139145/8	1AG07007.D
Level 2	IC 660-139145/9	1AG07008.D
Level 3	IC 660-139145/10	1AG07009.D
Level 4	IC 660-139145/11	1AG07010.D
Level 5	ICIS 660-139145/7	1AG07006.D
Level 6	IC 660-139145/12	1AG07011.D
Level 7	IC 660-139145/13	1AG07012.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Naphthalene	0.9023 0.9100	0.9222 0.8955	0.8708	0.9212	0.9041	Ave		0.9038			0.0000	1.9		15.0			
2-Methylnaphthalene	0.4971 0.5068	0.5433 0.4921	0.5106	0.5442	0.5152	Ave		0.5156			0.0000	4.0		15.0			
1-Methylnaphthalene	0.6060 0.5864	0.6347 0.5720	0.6103	0.6132	0.5920	Ave		0.6021			0.0000	3.4		15.0			
1,1'-Biphenyl	0.8067 0.7493	0.7768 0.7060	0.7329	0.7740	0.7544	Ave		0.7571				4.3					
Acenaphthylene	1.7748 1.7947	1.7666 1.7441	1.7388	1.8319	1.8395	Ave		1.7843			0.0000	2.2		15.0			
Acenaphthene	0.8766 0.9602	0.9457 0.9331	0.9080	0.9470	0.9746	Ave		0.9350			0.0000	3.6		15.0			
Dibenzofuran	1.5200 1.5534	1.5328 1.5121	1.4888	1.5791	1.5737	Ave		1.5371				2.2					
Fluorene	1.1858 1.2643	1.2490 1.2493	1.2507	1.2841	1.2744	Ave		1.2511			0.0000	2.5		15.0			
Phenanthrene	1.1284 0.9745	1.0308 0.9846	0.9800	1.0258	1.0022	Ave		1.0180			0.0000	5.2		15.0			
Anthracene	1.0428 1.0486	1.0947 1.0171	1.0770	1.0851	1.0658	Ave		1.0616			0.0000	2.6		15.0			
Fluoranthene	1.2446 1.2154	1.2368 1.1671	1.2314	1.2700	1.2098	Ave		1.2250			0.0000	2.6		15.0			
Pyrene	1.2793 1.3488	1.3595 1.3081	1.3115	1.3747	1.3397	Ave		1.3316			0.0000	2.5		15.0			
Benzo[a]anthracene	1.9845 1.2875	1.3732 1.2641	1.2173	1.3378	1.2673	Lin1	-0.003	1.2697							0.9996		
Chrysene	1.1099 1.0735	1.0886 1.0798	1.0604	1.0922	1.0806	Ave		1.0836			0.0000	1.4		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Tampa Job No.: 680-92626-1 Analy Batch No.: 139145

SDG No.: 680-92626-01

Instrument ID: BSMA5973 GC Column: DB-5MS ID: 250(um) Heated Purge: (Y/N) N

Calibration Start Date: 07/07/2013 14:06 Calibration End Date: 07/07/2013 15:46 Calibration ID: 3117

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Benzo[b]fluoranthene	1.1087 1.1274	1.0600 1.1737	1.2193	1.1486	1.1330	Ave		1.1387			0.0000	4.4		15.0			
Benzo[k]fluoranthene	1.3643 1.1493	1.2719 1.0848	1.0256	1.2309	1.1030	Ave		1.1757			0.0000	10.1		15.0			
Benzo[a]pyrene	1.0682 1.0625	1.0477 1.0655	1.0075	1.0738	1.0459	Ave		1.0530			0.0000	2.1		15.0			
Indeno[1,2,3-cd]pyrene	0.8684 0.9382	0.8748 1.0101	0.8587	0.9451	0.9318	Ave		0.9182			0.0000	5.9		15.0			
Dibenz(a,h)anthracene	0.8537 0.8772	0.8828 0.9092	0.8085	0.8712	0.8744	Ave		0.8681			0.0000	3.6		15.0			
Benzo[g,h,i]perylene	0.8566 0.8816	0.8766 0.8924	0.8174	0.8850	0.8842	Ave		0.8705			0.0000	3.0		15.0			
o-Terphenyl	0.6096 0.5945	0.6268 0.5940	0.6045	0.6186	0.6068	Ave		0.6078			0.0000	2.0		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Tampa Job No.: 680-92626-1 Analy Batch No.: 139145

SDG No.: 680-92626-01

Instrument ID: BSMA5973 GC Column: DB-5MS ID: 250(um) Heated Purge: (Y/N) N

Calibration Start Date: 07/07/2013 14:06 Calibration End Date: 07/07/2013 15:46 Calibration ID: 3117

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 660-139145/8	1AG07007.D
Level 2	IC 660-139145/9	1AG07008.D
Level 3	IC 660-139145/10	1AG07009.D
Level 4	IC 660-139145/11	1AG07010.D
Level 5	ICIS 660-139145/7	1AG07006.D
Level 6	IC 660-139145/12	1AG07011.D
Level 7	IC 660-139145/13	1AG07012.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Naphthalene	NPT	Ave	13431 1927893	61877 2852835	301095	605351	1383006	0.200 30.0	1.00 50.0	5.00	10.0	20.0
2-Methylnaphthalene	NPT	Ave	7399 1073707	36454 1567778	176549	357594	788013	0.200 30.0	1.00 50.0	5.00	10.0	20.0
1-Methylnaphthalene	NPT	Ave	9020 1242182	42586 1822273	211021	402937	905485	0.200 30.0	1.00 50.0	5.00	10.0	20.0
1,1'-Biphenyl	NPT	Ave	12008 1587355	52120 2249022	253396	508614	1153898	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Acenaphthylene	ANT	Ave	14614 2033091	65620 2885030	332425	653627	1501379	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Acenaphthene	ANT	Ave	7218 1087780	35129 1543480	173599	337901	795500	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Dibenzofuran	ANT	Ave	12516 1759761	56937 2501371	284635	563427	1284453	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Fluorene	ANT	Ave	9764 1432257	46393 2066554	239103	458164	1040175	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Phenanthrene	PHN	Ave	14233 1773307	57325 2590983	290573	571628	1316515	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Anthracene	PHN	Ave	13153 1908133	60878 2676534	319342	604719	1400023	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Fluoranthene	PHN	Ave	15699 2211610	68785 3071278	365106	707750	1589170	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Pyrene	CRY	Ave	15341 2186947	71019 3087188	367477	705318	1612700	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[a]anthracene	CRY	Lin1	23798 2087536	71737 2983331	341097	686400	1525597	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Chrysene	CRY	Ave	13310 1740672	56871 2548308	297114	560406	1300893	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[b]fluoranthene	PRY	Ave	13885 2011962	59453 3015708	372570	639030	1413979	0.200 30.0	1.00 50.0	5.00	10.0	20.0

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Tampa Job No.: 680-92626-1 Analy Batch No.: 139145

SDG No.: 680-92626-01

Instrument ID: BSMA5973 GC Column: DB-5MS ID: 250(um) Heated Purge: (Y/N) N

Calibration Start Date: 07/07/2013 14:06 Calibration End Date: 07/07/2013 15:46 Calibration ID: 3117

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Benzo[k]fluoranthene	PRY	Ave	17087 2051012	71340 2787317	313390	684827	1376535	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[a]pyrene	PRY	Ave	13378 1896070	58766 2737842	307843	597414	1305339	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Indeno[1,2,3-cd]pyrene	PRY	Ave	10876 1674354	49064 2595380	262402	525835	1162923	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Dibenz(a,h)anthracene	PRY	Ave	10692 1565377	49514 2336050	247039	484702	1091241	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[g,h,i]perylene	PRY	Ave	10728 1573264	49166 2292969	249756	492386	1103444	0.200 30.0	1.00 50.0	5.00	10.0	20.0
o-Terphenyl	PHN	Ave	7689 1081834	34857 1563245	179250	344702	797094	0.200 30.0	1.00 50.0	5.00	10.0	20.0

Curve Type Legend:

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A070713.b\1AG07006.D
Lab Smp Id: ICIS-1559459
Inj Date : 07-JUL-2013 14:06
Operator : SCC Inst ID: BSMA5973.i
Smp Info : ICIS-1559459
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A070713.b\a-bFASTPAHi-m.m
Meth Date : 08-Jul-2013 11:41 BSMA5973.i Quant Type: ISTD
Cal Date : 07-JUL-2013 15:46 Cal File: 1AG07012.D
Als bottle: 3 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah+2.sub
Target Version: 4.14
Processing Host: TAM1000

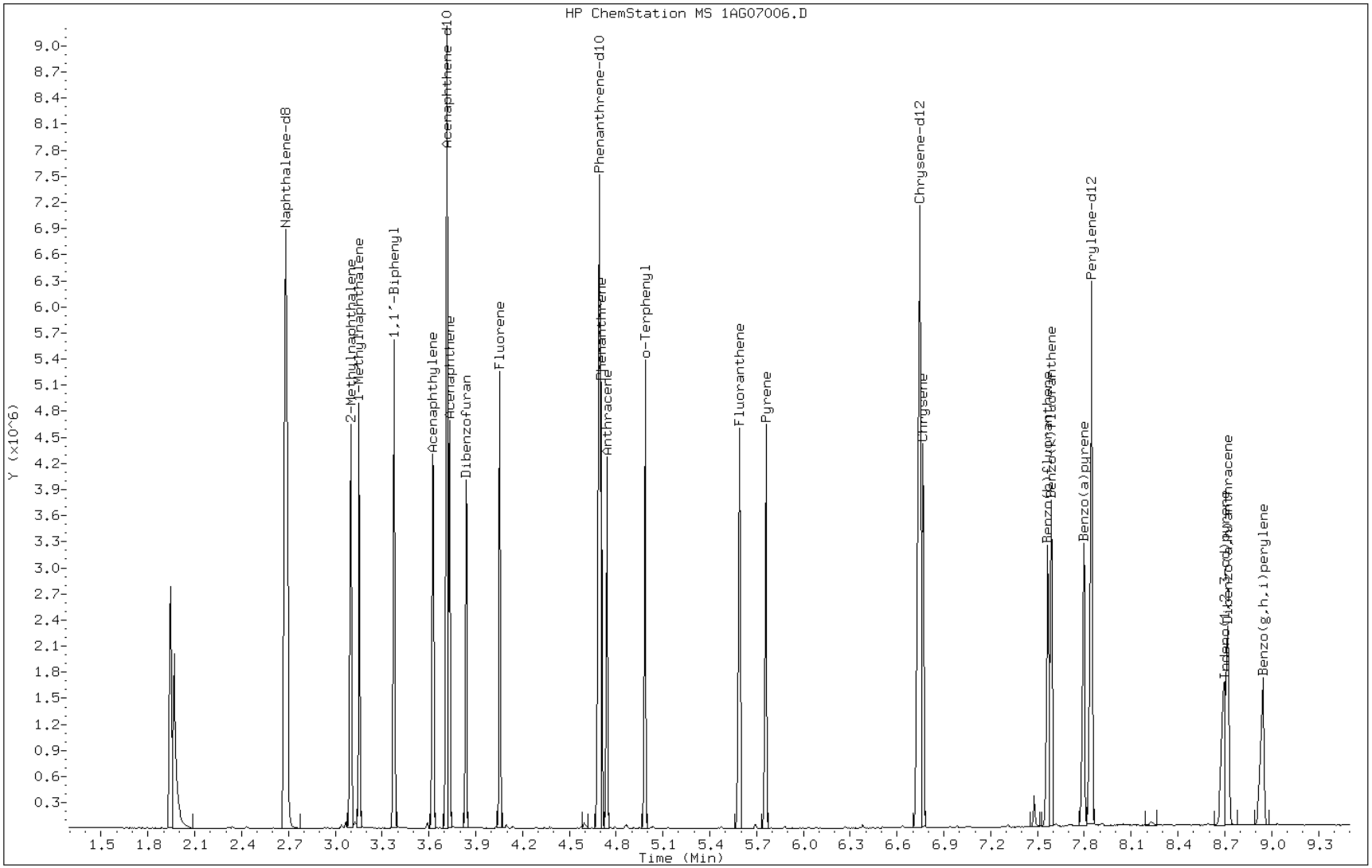
		QUANT SIG					AMOUNTS	
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)
*	1 Naphthalene-d8	136	2.683	2.683	(1.000)	3059306	40.0000	
*	7 Acenaphthene-d10	164	3.714	3.714	(1.000)	1632402	40.0000	
*	11 Phenanthrene-d10	188	4.691	4.691	(1.000)	2627201	40.0000	
$	15 o-Terphenyl	230	4.985	4.985	(1.063)	797094	20.0000	20.1393
*	19 Chrysene-d12	240	6.748	6.748	(1.000)	2407613	40.0000	
*	24 Perylene-d12	264	7.848	7.848	(1.000)	2496028	40.0000	
	2 Naphthalene	128	2.693	2.693	(1.004)	1383006	20.0000	20.0083
	3 2-Methylnaphthalene	141	3.099	3.099	(1.155)	788013	20.0000	19.9192
	4 1-Methylnaphthalene	142	3.153	3.153	(1.175)	905485	20.0000	19.9066
	5 1,1'-Biphenyl	154	3.377	3.377	(1.259)	1153898	20.0000	19.9262
	6 Acenaphthylene	152	3.628	3.628	(0.977)	1501379	20.0000	20.1747
	8 Acenaphthene	154	3.735	3.735	(1.006)	795500	20.0000	20.1490
	9 Dibenzofuran	168	3.836	3.836	(1.033)	1284453	20.0000	20.4756
	10 Fluorene	166	4.055	4.055	(1.092)	1040175	20.0000	20.0258
	12 Phenanthrene	178	4.707	4.707	(1.003)	1316515	20.0000	20.2411
	13 Anthracene	178	4.739	4.739	(1.010)	1400023	20.0000	20.0049
	16 Fluoranthene	202	5.589	5.589	(1.191)	1589170	20.0000	19.6973
	17 Pyrene	202	5.760	5.760	(0.854)	1612700	20.0000	20.1206
	18 Benzo(a)anthracene	228	6.732	6.732	(0.998)	1525597	20.0000	19.9969
	20 Chrysene	228	6.764	6.764	(1.002)	1300893	20.0000	19.9457
	21 Benzo(b)fluoranthene	252	7.565	7.565	(0.964)	1413979	20.0000	19.9002
	22 Benzo(k)fluoranthene	252	7.587	7.587	(0.967)	1376535	20.0000	19.1822
	23 Benzo(a)pyrene	252	7.795	7.795	(0.993)	1305339	20.0000	19.8653
	25 Indeno(1,2,3-cd)pyrene	276	8.692	8.692	(1.108)	1162923	20.0000	20.2972
	26 Dibenzo(a,h)anthracene	278	8.719	8.719	(1.111)	1091241	20.0000	20.1440
	27 Benzo(g,h,i)perylene	276	8.944	8.944	(1.140)	1103444	20.0000	20.3131

Data File: 1AG07006.D

Date: 07-JUL-2013 14:06

Client ID: Instrument: BSMA5973.i

Sample Info: ICIS-1559459 Operator: SCC



TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A070713.b\1AG07007.D
Lab Smp Id: IC-1559454
Inj Date : 07-JUL-2013 14:31
Operator : SCC Inst ID: BSMA5973.i
Smp Info : IC-1559454
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A070713.b\a-bFASTPAHi-m.m
Meth Date : 08-Jul-2013 11:41 BSMA5973.i Quant Type: ISTD
Cal Date : 07-JUL-2013 14:06 Cal File: 1AG07006.D
Als bottle: 4 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah+2.sub
Target Version: 4.14
Processing Host: TAM1000

		QUANT SIG					AMOUNTS	
							CAL-AMT	ON-COL
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/ml)	(ug/ml)
*	1 Naphthalene-d8	136	2.677	2.683	(1.000)	2977082	40.0000	
*	7 Acenaphthene-d10	164	3.713	3.714	(1.000)	1646858	40.0000	
*	11 Phenanthrene-d10	188	4.691	4.691	(1.000)	2522675	40.0000	
$	15 o-Terphenyl	230	4.985	4.985	(1.063)	7689	0.20000	0.1442
*	19 Chrysene-d12	240	6.748	6.748	(1.000)	2398347	40.0000	
*	24 Perylene-d12	264	7.859	7.848	(1.000)	2504795	40.0000	
	2 Naphthalene	128	2.688	2.693	(1.004)	13431	0.20000	0.1996(Q)
	3 2-Methylnaphthalene	141	3.094	3.099	(1.156)	7399	0.20000	0.1851
	4 1-Methylnaphthalene	142	3.152	3.153	(1.178)	9020	0.20000	0.1508
	5 1,1'-Biphenyl	154	3.377	3.377	(1.261)	12008	0.20000	0.2130
	6 Acenaphthylene	152	3.623	3.628	(0.976)	14614	0.20000	0.3285
	8 Acenaphthene	154	3.729	3.735	(1.004)	7218	0.20000	0.3752
	9 Dibenzofuran	168	3.836	3.836	(1.033)	12516	0.20000	0.1977
	10 Fluorene	166	4.050	4.055	(1.091)	9764	0.20000	0.2333
	12 Phenanthrene	178	4.702	4.707	(1.002)	14233	0.20000	0.1411
	13 Anthracene	178	4.739	4.739	(1.010)	13153	0.20000	0.2144
	16 Fluoranthene	202	5.583	5.589	(1.190)	15699	0.20000	0.2348
	17 Pyrene	202	5.754	5.760	(0.853)	15341	0.20000	0.1921
	18 Benzo(a)anthracene	228	6.737	6.732	(0.998)	23798	0.20000	0.2011
	20 Chrysene	228	6.758	6.764	(1.002)	13310	0.20000	0.2048
	21 Benzo(b)fluoranthene	252	7.565	7.565	(0.963)	13885	0.20000	0.1947(H)
	22 Benzo(k)fluoranthene	252	7.581	7.587	(0.965)	17087	0.20000	0.3628
	23 Benzo(a)pyrene	252	7.800	7.795	(0.993)	13378	0.20000	0.2028
	25 Indeno(1,2,3-cd)pyrene	276	8.687	8.692	(1.105)	10876	0.20000	0.1891(H)
	26 Dibenzo(a,h)anthracene	278	8.719	8.719	(1.109)	10692	0.20000	0.1966
	27 Benzo(g,h,i)perylene	276	8.938	8.944	(1.137)	10728	0.20000	0.1967

QC Flag Legend

Q - Qualifier signal failed the ratio test.
H - Operator selected an alternate compound hit.

Data File: 1AG07007.D

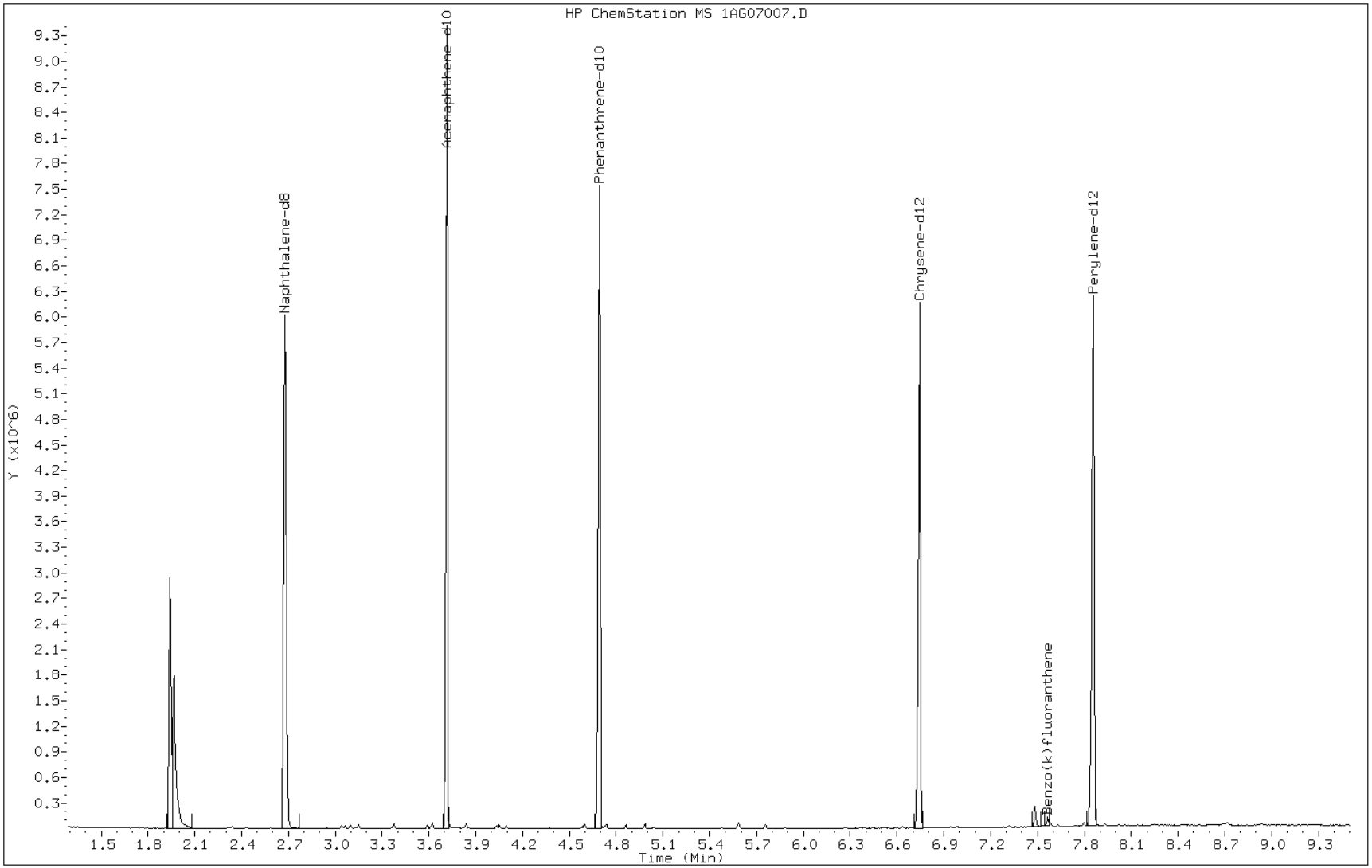
Date: 07-JUL-2013 14:31

Client ID:

Instrument: BSMA5973.i

Sample Info: IC-1559454

Operator: SCC



TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A070713.b\1AG07008.D
Lab Smp Id: IC-1559455
Inj Date : 07-JUL-2013 14:46
Operator : SCC Inst ID: BSMA5973.i
Smp Info : IC-1559455
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A070713.b\a-bFASTPAHi-m.m
Meth Date : 08-Jul-2013 11:41 BSMA5973.i Quant Type: ISTD
Cal Date : 07-JUL-2013 14:31 Cal File: 1AG07007.D
Als bottle: 5 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah+2.sub
Target Version: 4.14
Processing Host: TAM1000

						AMOUNTS	
	QUANT SIG					CAL-AMT	ON-COL
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/ml)	(ug/ml)
* 1 Naphthalene-d8	136	2.675	2.683	(1.000)	2683865	40.0000	
* 7 Acenaphthene-d10	164	3.711	3.714	(1.000)	1485793	40.0000	
* 11 Phenanthrene-d10	188	4.689	4.691	(1.000)	2224524	40.0000	
$ 15 o-Terphenyl	230	4.983	4.985	(1.063)	34857	1.00000	0.9768
* 19 Chrysene-d12	240	6.740	6.748	(1.000)	2089618	40.0000	
* 24 Perylene-d12	264	7.846	7.848	(1.000)	2243535	40.0000	
2 Naphthalene	128	2.691	2.693	(1.006)	61877	1.00000	1.0204
3 2-Methylnaphthalene	141	3.097	3.099	(1.158)	36454	1.00000	1.0133
4 1-Methylnaphthalene	142	3.150	3.153	(1.178)	42586	1.00000	0.9943
5 1,1'-Biphenyl	154	3.375	3.377	(1.262)	52120	1.00000	1.0259
6 Acenaphthylene	152	3.621	3.628	(0.976)	65620	1.00000	1.0709
8 Acenaphthene	154	3.727	3.735	(1.004)	35129	1.00000	1.1412
9 Dibenzofuran	168	3.834	3.836	(1.033)	56937	1.00000	0.9972
10 Fluorene	166	4.053	4.055	(1.092)	46393	1.00000	1.0158
12 Phenanthrene	178	4.700	4.707	(1.002)	57325	1.00000	0.9550
13 Anthracene	178	4.737	4.739	(1.010)	60878	1.00000	1.0177
16 Fluoranthene	202	5.581	5.589	(1.190)	68785	1.00000	1.0092
17 Pyrene	202	5.752	5.760	(0.853)	71019	1.00000	1.0208
18 Benzo(a)anthracene	228	6.730	6.732	(0.998)	71737	1.00000	0.9758
20 Chrysene	228	6.756	6.764	(1.002)	56871	1.00000	1.0046
21 Benzo(b)fluoranthene	252	7.558	7.565	(0.963)	59453	1.00000	0.9309
22 Benzo(k)fluoranthene	252	7.574	7.587	(0.965)	71340	1.00000	1.1913
23 Benzo(a)pyrene	252	7.787	7.795	(0.993)	58766	1.00000	0.9949
25 Indeno(1,2,3-cd)pyrene	276	8.674	8.692	(1.106)	49064	1.00000	0.9527(M)
26 Dibenzo(a,h)anthracene	278	8.701	8.719	(1.109)	49514	1.00000	1.0168
27 Benzo(g,h,i)perylene	276	8.920	8.944	(1.137)	49166	1.00000	1.0069

QC Flag Legend

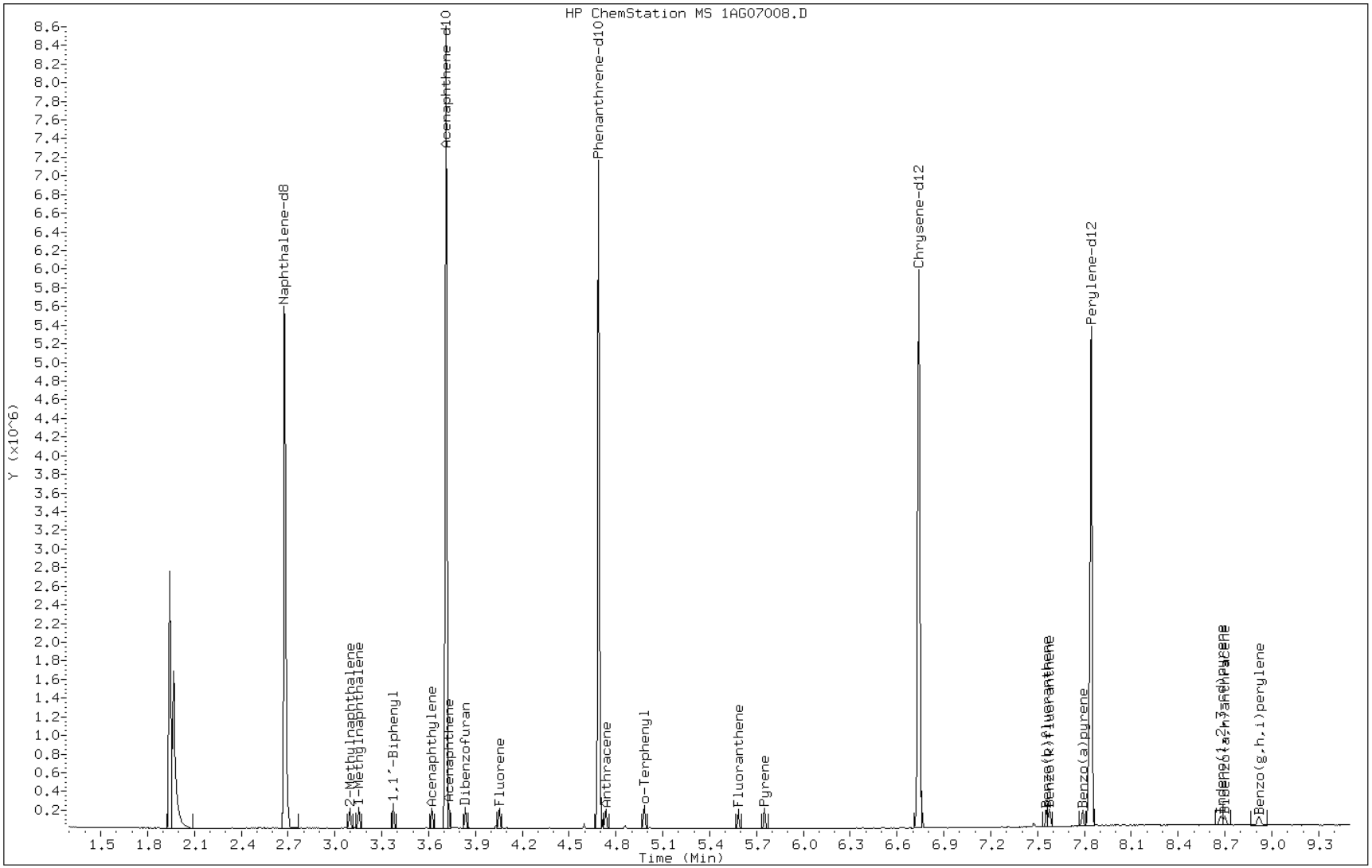
M - Compound response manually integrated.

Data File: 1AG07008.D

Date: 07-JUL-2013 14:46

Client ID: Instrument: BSMA5973.i

Sample Info: IC-1559455 Operator: SCC



Manual Integration Report

Data File: 1AG07008.D
Inj. Date and Time: 07-JUL-2013 14:46
Instrument ID: BSMA5973.i
Client ID:
Compound: 25 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 07/08/2013

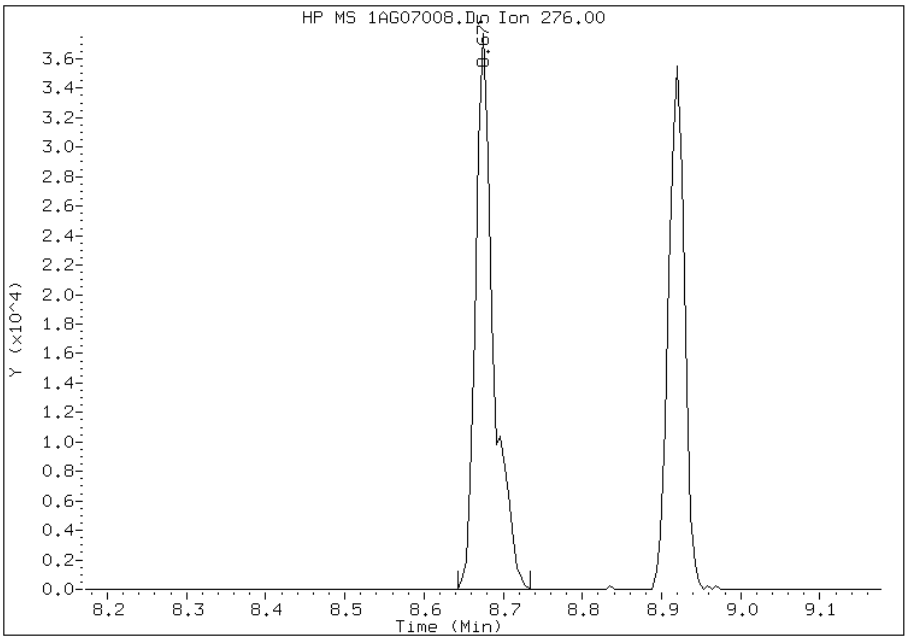
Processing Integration Results

RT: 8.67

Response: 58994

Amount: 1

Conc: 1



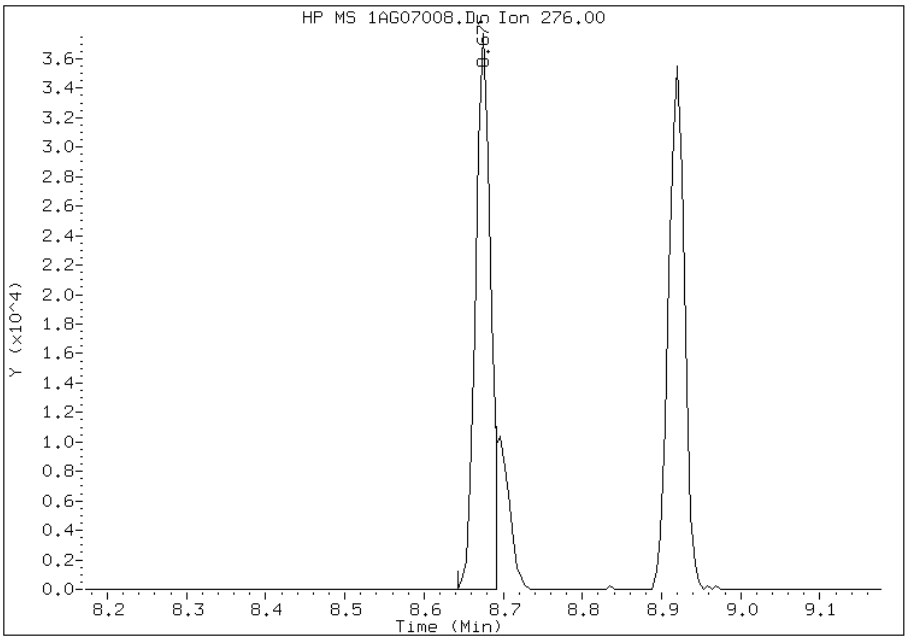
Manual Integration Results

RT: 8.67

Response: 49064

Amount: 1

Conc: 1



Manually Integrated By: cantins
Modification Date: 08-Jul-2013 11:40
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A070713.b\1AG07009.D
Lab Smp Id: IC-1559457
Inj Date : 07-JUL-2013 15:01
Operator : SCC Inst ID: BSMA5973.i
Smp Info : IC-1559457
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A070713.b\a-bFASTPAHi-m.m
Meth Date : 08-Jul-2013 11:41 BSMA5973.i Quant Type: ISTD
Cal Date : 07-JUL-2013 14:46 Cal File: 1AG07008.D
Als bottle: 6 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah+2.sub
Target Version: 4.14
Processing Host: TAM1000

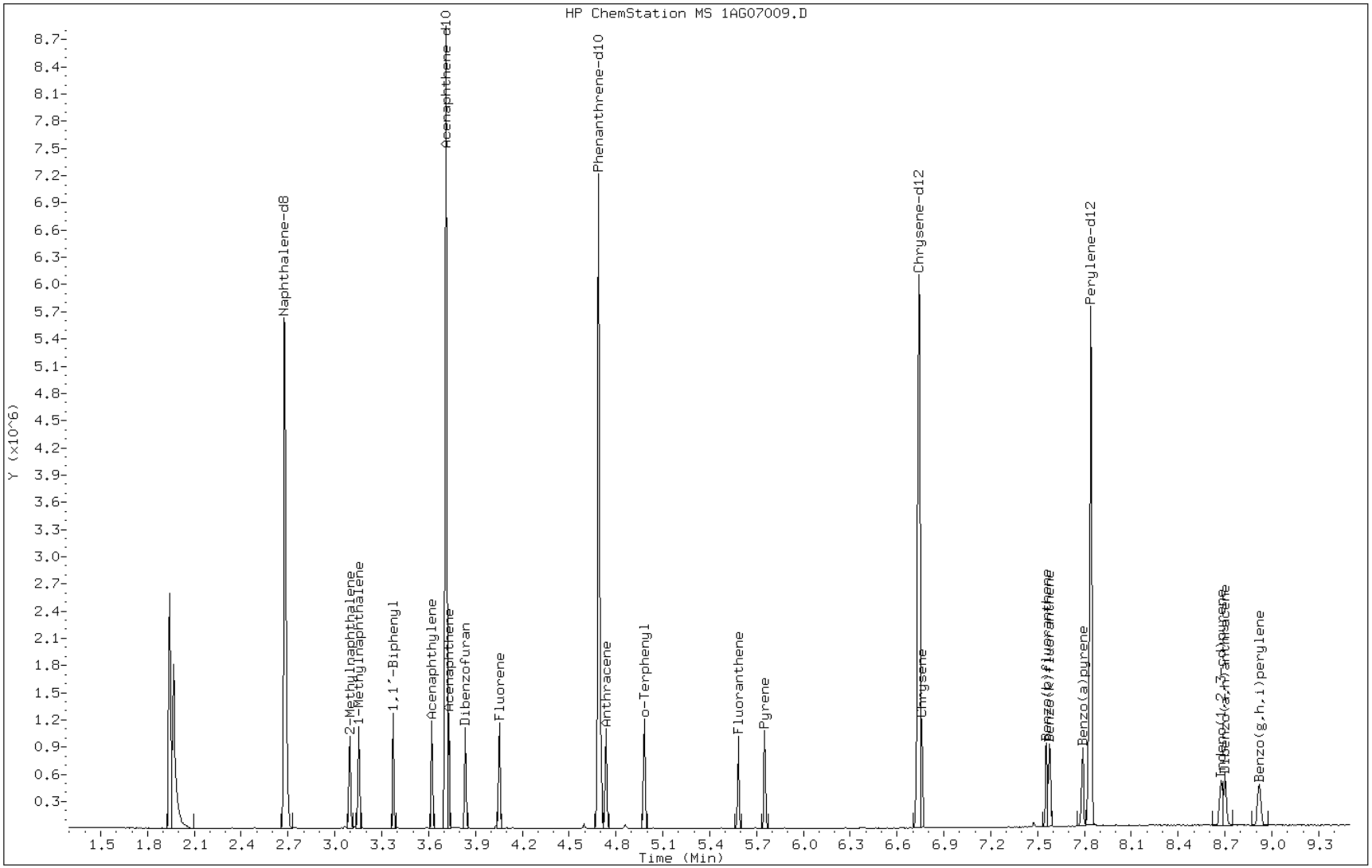
						AMOUNTS	
		QUANT SIG				CAL-AMT	ON-COL
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/ml)	(ug/ml)
*	1 Naphthalene-d8	136	2.675	2.683	(1.000)	2766041	40.0000	
*	7 Acenaphthene-d10	164	3.712	3.714	(1.000)	1529455	40.0000	
*	11 Phenanthrene-d10	188	4.689	4.691	(1.000)	2372049	40.0000	
$	15 o-Terphenyl	230	4.983	4.985	(1.063)	179250	5.00000	4.9372
*	19 Chrysene-d12	240	6.746	6.748	(1.000)	2241595	40.0000	
*	24 Perylene-d12	264	7.841	7.848	(1.000)	2444516	40.0000	
	2 Naphthalene	128	2.691	2.693	(1.006)	301095	5.00000	4.8178
	3 2-Methylnaphthalene	141	3.097	3.099	(1.158)	176549	5.00000	4.7977
	4 1-Methylnaphthalene	142	3.151	3.153	(1.178)	211021	5.00000	4.9918
	5 1,1'-Biphenyl	154	3.375	3.377	(1.262)	253396	5.00000	4.8397
	6 Acenaphthylene	152	3.621	3.628	(0.976)	332425	5.00000	4.7448
	8 Acenaphthene	154	3.728	3.735	(1.004)	173599	5.00000	4.7400
	9 Dibenzofuran	168	3.835	3.836	(1.033)	284635	5.00000	4.8428
	10 Fluorene	166	4.054	4.055	(1.092)	239103	5.00000	4.8989
	12 Phenanthrene	178	4.700	4.707	(1.002)	290573	5.00000	4.8695
	13 Anthracene	178	4.737	4.739	(1.010)	319342	5.00000	4.9413
	16 Fluoranthene	202	5.581	5.589	(1.190)	365106	5.00000	4.9023
	17 Pyrene	202	5.752	5.760	(0.853)	367477	5.00000	4.9243
	18 Benzo(a)anthracene	228	6.730	6.732	(0.998)	341097	5.00000	4.7156
	20 Chrysene	228	6.757	6.764	(1.002)	297114	5.00000	4.8928
	21 Benzo(b)fluoranthene	252	7.558	7.565	(0.964)	372570	5.00000	5.3540
	22 Benzo(k)fluoranthene	252	7.574	7.587	(0.966)	313390	5.00000	4.4202
	23 Benzo(a)pyrene	252	7.788	7.795	(0.993)	307843	5.00000	4.7836
	25 Indeno(1,2,3-cd)pyrene	276	8.675	8.692	(1.106)	262402	5.00000	4.6763
	26 Dibenzo(a,h)anthracene	278	8.701	8.719	(1.110)	247039	5.00000	4.6563
	27 Benzo(g,h,i)perylene	276	8.920	8.944	(1.138)	249756	5.00000	4.6946

Data File: 1AG07009.D

Date: 07-JUL-2013 15:01

Client ID: Instrument: BSMA5973.i

Sample Info: IC-1559457 Operator: SCC



TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A070713.b\1AG07010.D
Lab Smp Id: IC-1559458
Inj Date : 07-JUL-2013 15:16
Operator : SCC Inst ID: BSMA5973.i
Smp Info : IC-1559458
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A070713.b\a-bFASTPAHi-m.m
Meth Date : 08-Jul-2013 11:41 BSMA5973.i Quant Type: ISTD
Cal Date : 07-JUL-2013 15:01 Cal File: 1AG07009.D
Als bottle: 7 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah+2.sub
Target Version: 4.14
Processing Host: TAM1000

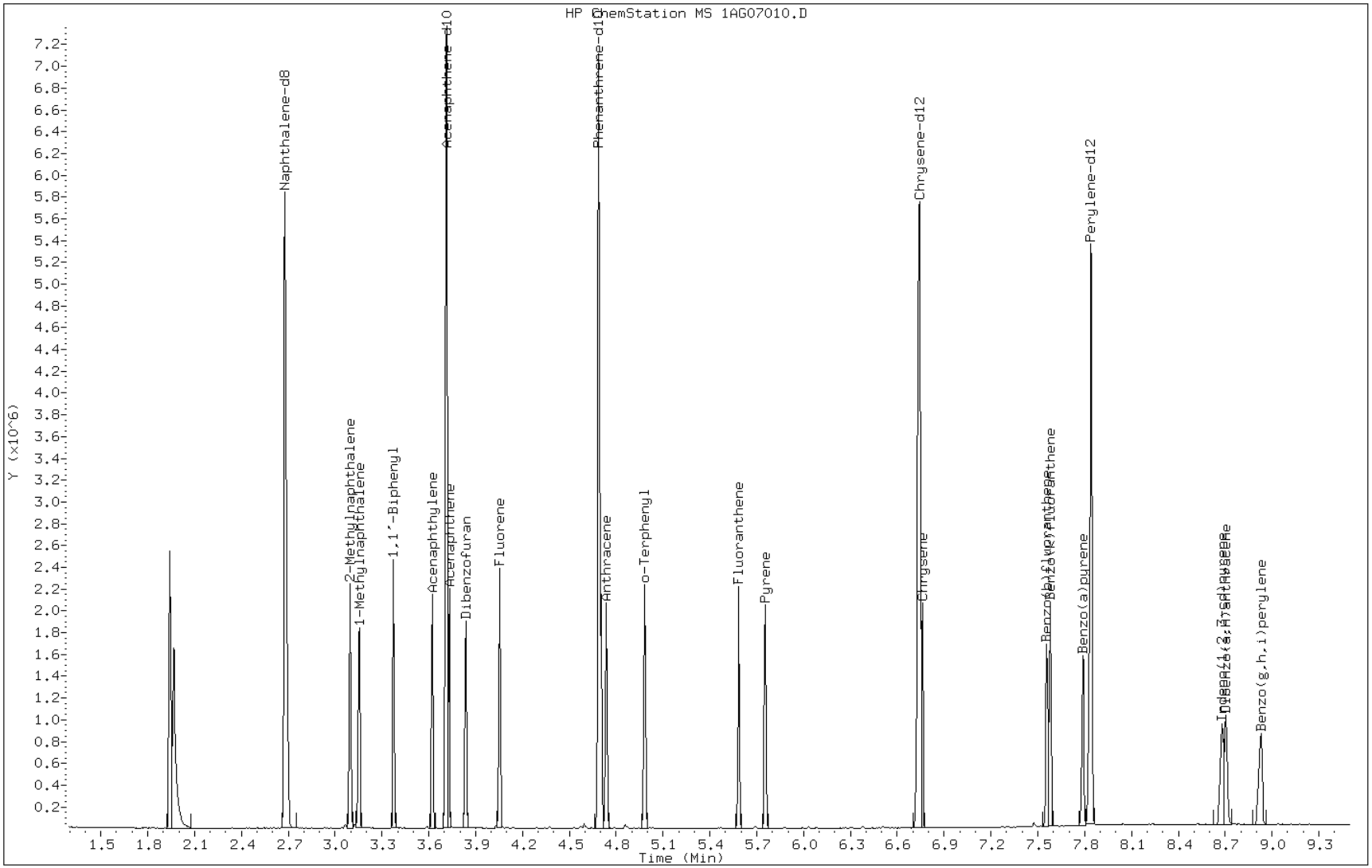
		QUANT SIG					AMOUNTS	
							CAL-AMT	ON-COL
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/ml)	(ug/ml)
*	1 Naphthalene-d8	136	2.679	2.683	(1.000)	2628466	40.0000	
*	7 Acenaphthene-d10	164	3.716	3.714	(1.000)	1427220	40.0000	
*	11 Phenanthrene-d10	188	4.688	4.691	(1.000)	2229096	40.0000	
$	15 o-Terphenyl	230	4.982	4.985	(1.063)	344702	10.0000	10.1884
*	19 Chrysene-d12	240	6.745	6.748	(1.000)	2052356	40.0000	
*	24 Perylene-d12	264	7.845	7.848	(1.000)	2225417	40.0000	
	2 Naphthalene	128	2.690	2.693	(1.004)	605351	10.0000	10.1933
	3 2-Methylnaphthalene	141	3.096	3.099	(1.155)	357594	10.0000	10.3360
	4 1-Methylnaphthalene	142	3.155	3.153	(1.177)	402937	10.0000	10.1520
	5 1,1'-Biphenyl	154	3.374	3.377	(1.259)	508614	10.0000	10.2227
	6 Acenaphthylene	152	3.625	3.628	(0.976)	653627	10.0000	9.9351
	8 Acenaphthene	154	3.732	3.735	(1.004)	337901	10.0000	9.7424
	9 Dibenzofuran	168	3.838	3.836	(1.033)	563427	10.0000	10.2728
	10 Fluorene	166	4.052	4.055	(1.091)	458164	10.0000	10.0435
	12 Phenanthrene	178	4.704	4.707	(1.003)	571628	10.0000	10.2984
	13 Anthracene	178	4.736	4.739	(1.010)	604719	10.0000	10.0222
	16 Fluoranthene	202	5.585	5.589	(1.191)	707750	10.0000	10.1744
	17 Pyrene	202	5.756	5.760	(0.853)	705318	10.0000	10.3230
	18 Benzo(a)anthracene	228	6.729	6.732	(0.998)	686400	10.0000	10.5007
	20 Chrysene	228	6.761	6.764	(1.002)	560406	10.0000	10.0796
	21 Benzo(b)fluoranthene	252	7.557	7.565	(0.963)	639030	10.0000	10.0872
	22 Benzo(k)fluoranthene	252	7.578	7.587	(0.966)	684827	10.0000	10.5650
	23 Benzo(a)pyrene	252	7.792	7.795	(0.993)	597414	10.0000	10.1973
	25 Indeno(1,2,3-cd)pyrene	276	8.678	8.692	(1.106)	525835	10.0000	10.2937
	26 Dibenzo(a,h)anthracene	278	8.705	8.719	(1.110)	484702	10.0000	10.0354
	27 Benzo(g,h,i)perylene	276	8.930	8.944	(1.138)	492386	10.0000	10.1664

Data File: 1AG07010.D

Date: 07-JUL-2013 15:16

Client ID: Instrument: BSMA5973.i

Sample Info: IC-1559458 Operator: SCC



TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A070713.b\1AG07011.D
Lab Smp Id: IC-1559464
Inj Date : 07-JUL-2013 15:31
Operator : SCC Inst ID: BSMA5973.i
Smp Info : IC-1559464
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A070713.b\a-bFASTPAHi-m.m
Meth Date : 08-Jul-2013 11:41 BSMA5973.i Quant Type: ISTD
Cal Date : 07-JUL-2013 15:16 Cal File: 1AG07010.D
Als bottle: 8 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah+2.sub
Target Version: 4.14
Processing Host: TAM1000

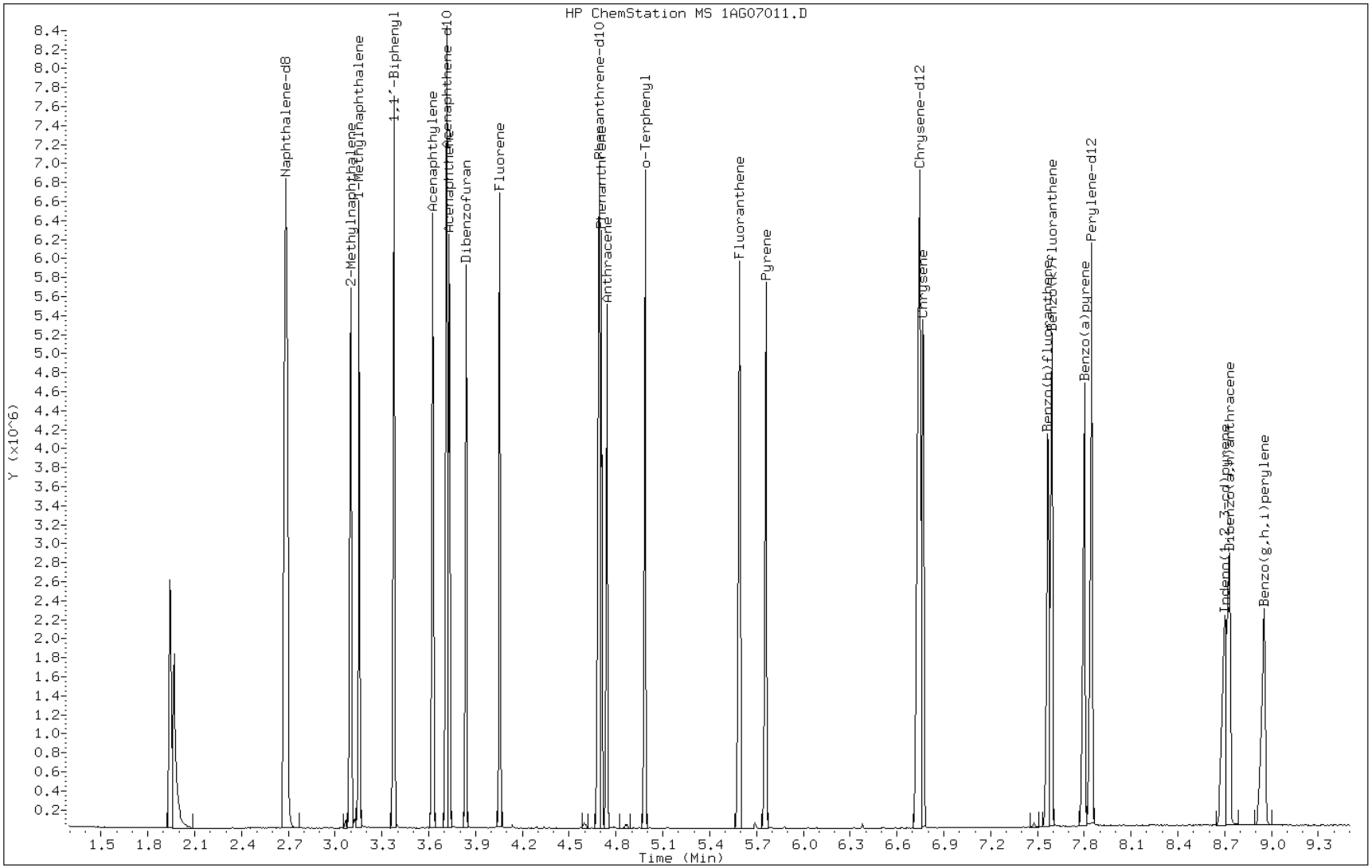
		QUANT SIG					AMOUNTS CAL-AMT	AMOUNTS ON-COL
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/ml)	(ug/ml)
*	1 Naphthalene-d8	136	2.678	2.683	(1.000)	2824617	40.0000	
*	7 Acenaphthene-d10	164	3.714	3.714	(1.000)	1510433	40.0000	
*	11 Phenanthrene-d10	188	4.692	4.691	(1.000)	2426301	40.0000	
$	15 o-Terphenyl	230	4.986	4.985	(1.063)	1081834	30.0000	29.7569
*	19 Chrysene-d12	240	6.748	6.748	(1.000)	2161929	40.0000	
*	24 Perylene-d12	264	7.849	7.848	(1.000)	2379408	40.0000	
	2 Naphthalene	128	2.694	2.693	(1.006)	1927893	30.0000	30.2088
	3 2-Methylnaphthalene	141	3.100	3.099	(1.158)	1073707	30.0000	29.9167
	4 1-Methylnaphthalene	142	3.153	3.153	(1.178)	1242182	30.0000	29.9921
	5 1,1'-Biphenyl	154	3.378	3.377	(1.261)	1587355	30.0000	29.6890
	6 Acenaphthylene	152	3.623	3.628	(0.976)	2033091	30.0000	29.9538
	8 Acenaphthene	154	3.730	3.735	(1.004)	1087780	30.0000	30.1050
	9 Dibenzofuran	168	3.837	3.836	(1.033)	1759761	30.0000	30.3178
	10 Fluorene	166	4.056	4.055	(1.092)	1432257	30.0000	29.9803
	12 Phenanthrene	178	4.708	4.707	(1.003)	1773307	30.0000	29.6079
	13 Anthracene	178	4.740	4.739	(1.010)	1908133	30.0000	30.0007
	16 Fluoranthene	202	5.589	5.589	(1.191)	2211610	30.0000	30.2244
	17 Pyrene	202	5.760	5.760	(0.854)	2186947	30.0000	30.3859
	18 Benzo(a)anthracene	228	6.732	6.732	(0.998)	2087536	30.0000	30.5317
	20 Chrysene	228	6.770	6.764	(1.003)	1740672	30.0000	29.7215
	21 Benzo(b)fluoranthene	252	7.571	7.565	(0.965)	2011962	30.0000	29.7040
	22 Benzo(k)fluoranthene	252	7.593	7.587	(0.967)	2051012	30.0000	30.6158
	23 Benzo(a)pyrene	252	7.801	7.795	(0.994)	1896070	30.0000	30.2697
	25 Indeno(1,2,3-cd)pyrene	276	8.698	8.692	(1.108)	1674354	30.0000	30.6558
	26 Dibenzo(a,h)anthracene	278	8.730	8.719	(1.112)	1565377	30.0000	30.3127
	27 Benzo(g,h,i)perylene	276	8.955	8.944	(1.141)	1573264	30.0000	30.3814

Data File: 1AG07011.D

Date: 07-JUL-2013 15:31

Client ID: Instrument: BSMA5973.i

Sample Info: IC-1559464 Operator: SCC



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Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A070713.b\1AG07012.D
Lab Smp Id: IC-1559465
Inj Date : 07-JUL-2013 15:46
Operator : SCC Inst ID: BSMA5973.i
Smp Info : IC-1559465
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A070713.b\a-bFASTPAHi-m.m
Meth Date : 08-Jul-2013 11:41 BSMA5973.i Quant Type: ISTD
Cal Date : 07-JUL-2013 15:31 Cal File: 1AG07011.D
Als bottle: 9 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah+2.sub
Target Version: 4.14
Processing Host: TAM1000

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
*	1 Naphthalene-d8	136	2.683	2.683	(1.000)	2548509	40.0000	
*	7 Acenaphthene-d10	164	3.714	3.714	(1.000)	1323362	40.0000	
*	11 Phenanthrene-d10	188	4.691	4.691	(1.000)	2105253	40.0000	
$	15 o-Terphenyl	230	4.985	4.985	(1.063)	1563245	50.0000	50.0568(A)
*	19 Chrysene-d12	240	6.748	6.748	(1.000)	1888034	40.0000	
*	24 Perylene-d12	264	7.843	7.848	(1.000)	2055565	40.0000	
	2 Naphthalene	128	2.693	2.693	(1.004)	2852835	50.0000	49.5451
	3 2-Methylnaphthalene	141	3.099	3.099	(1.155)	1567778	50.0000	50.0316(A)
	4 1-Methylnaphthalene	142	3.158	3.153	(1.177)	1822273	50.0000	50.0120(A)
	5 1,1'-Biphenyl	154	3.377	3.377	(1.259)	2249022	50.0000	46.6217
	6 Acenaphthylene	152	3.628	3.628	(0.977)	2885030	50.0000	49.9918
	8 Acenaphthene	154	3.735	3.735	(1.006)	1543480	50.0000	49.9469
	9 Dibenzofuran	168	3.842	3.836	(1.035)	2501371	50.0000	49.1864
	10 Fluorene	166	4.056	4.055	(1.092)	2066554	50.0000	50.0021(A)
	12 Phenanthrene	178	4.707	4.707	(1.003)	2590983	50.0000	50.0866(A)
	13 Anthracene	178	4.745	4.739	(1.011)	2676534	50.0000	49.9984
	16 Fluoranthene	202	5.594	5.589	(1.192)	3071278	50.0000	49.9572
	17 Pyrene	202	5.765	5.760	(0.854)	3087188	50.0000	49.1166
	18 Benzo(a)anthracene	228	6.737	6.732	(0.998)	2983331	50.0000	50.0356(A)
	20 Chrysene	228	6.769	6.764	(1.003)	2548308	50.0000	49.8239
	21 Benzo(b)fluoranthene	252	7.571	7.565	(0.965)	3015708	50.0000	51.5374(A)
	22 Benzo(k)fluoranthene	252	7.597	7.587	(0.969)	2787317	50.0000	49.8623(H)
	23 Benzo(a)pyrene	252	7.806	7.795	(0.995)	2737842	50.0000	50.5941(A)
	25 Indeno(1,2,3-cd)pyrene	276	8.703	8.692	(1.110)	2595380	50.0000	55.0053(A)
	26 Dibenzo(a,h)anthracene	278	8.735	8.719	(1.114)	2336050	50.0000	52.3631(A)
	27 Benzo(g,h,i)perylene	276	8.965	8.944	(1.143)	2292969	50.0000	51.2557(A)

QC Flag Legend

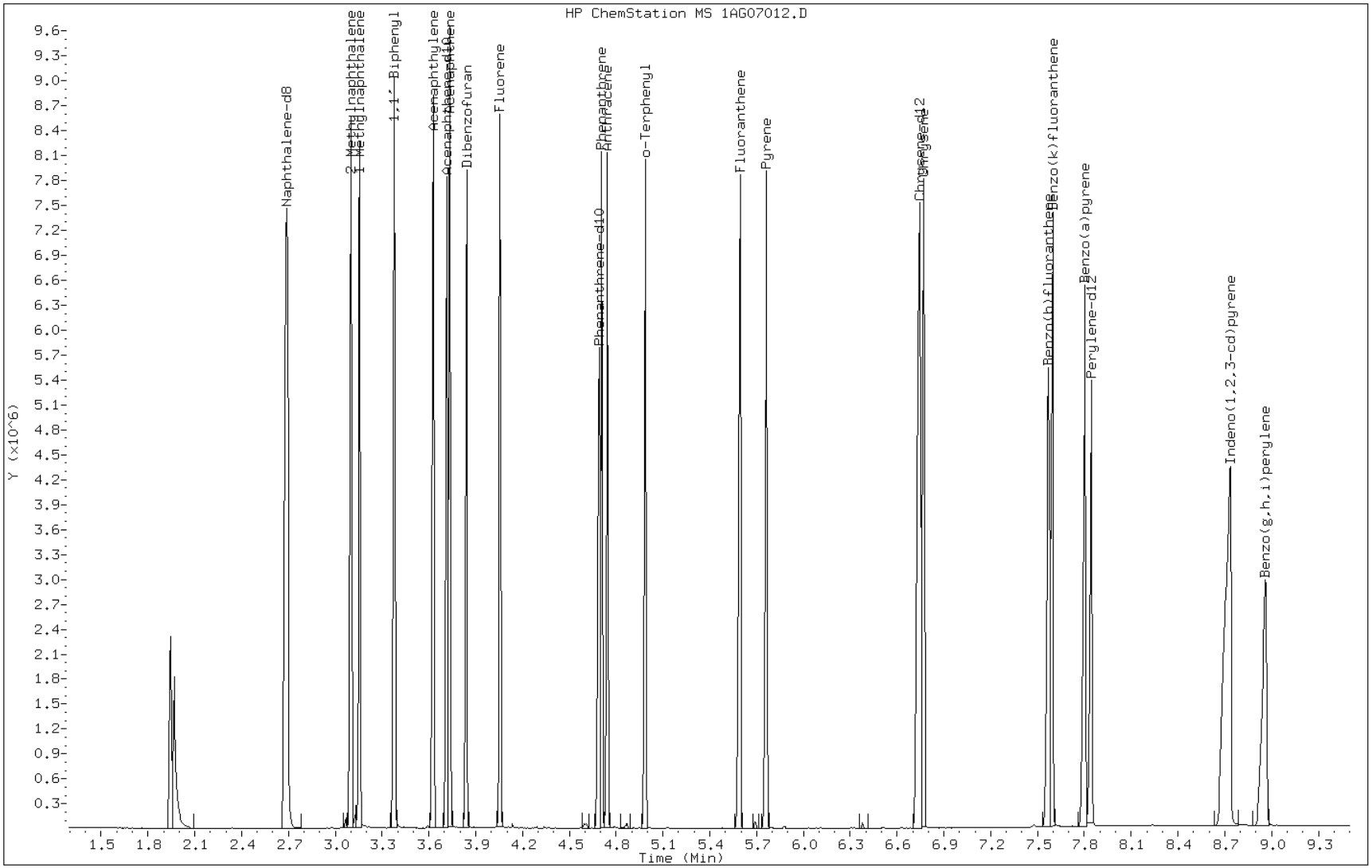
A - Target compound detected but, quantitated amount exceeded maximum amount.
H - Operator selected an alternate compound hit.

Data File: 1AG07012.D

Date: 07-JUL-2013 15:46

Client ID: Instrument: BSMA5973.i

Sample Info: IC-1559465 Operator: SCC



FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-92626-1

SDG No.: 680-92626-01

Lab Sample ID: ICV 660-139145/14 Calibration Date: 07/07/2013 16:01

Instrument ID: BSMA5973 Calib Start Date: 07/07/2013 14:06

GC Column: DB-5MS ID: 250.00(um) Calib End Date: 07/07/2013 15:46

Lab File ID: 1AG07013.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	0.9038	0.9666	0.0000	21.4	20.0	6.9	35.0
2-Methylnaphthalene	Ave	0.5156	0.5611	0.0000	21.8	20.0	8.8	35.0
1-Methylnaphthalene	Ave	0.6021	0.6110	0.0000	20.3	20.0	1.5	35.0
1,1'-Biphenyl	Ave	0.7571	0.7485		19.8	20.0	-1.1	
Acenaphthylene	Ave	1.784	1.963	0.0000	22.0	20.0	10.0	35.0
Acenaphthene	Ave	0.9350	1.062	0.0000	22.7	20.0	13.6	35.0
Dibenzofuran	Ave	1.537	1.577		20.5	20.0	2.6	
Fluorene	Ave	1.251	1.374	0.0000	22.0	20.0	9.8	35.0
Phenanthrene	Ave	1.018	1.068	0.0000	21.0	20.0	4.9	35.0
Anthracene	Ave	1.062	1.132	0.0000	21.3	20.0	6.6	35.0
Fluoranthene	Ave	1.225	1.307	0.0000	21.3	20.0	6.7	35.0
Pyrene	Ave	1.332	1.422	0.0000	21.4	20.0	6.8	35.0
Benzo[a]anthracene	Lin1	1.390	1.314	0.0000	20.6	20.0	3.0	35.0
Chrysene	Ave	1.084	1.228	0.0000	22.7	20.0	13.3	35.0
Benzo[b]fluoranthene	Ave	1.139	1.255	0.0000	22.0	20.0	10.2	35.0
Benzo[k]fluoranthene	Ave	1.176	1.108	0.0000	18.8	20.0	-5.8	35.0
Benzo[a]pyrene	Ave	1.053	1.107	0.0000	21.0	20.0	5.1	35.0
Indeno[1,2,3-cd]pyrene	Ave	0.9182	0.9629	0.0000	21.0	20.0	4.9	35.0
Dibenz(a,h)anthracene	Ave	0.8681	0.9174	0.0000	21.1	20.0	5.7	35.0
Benzo[g,h,i]perylene	Ave	0.8705	0.9296	0.0000	21.4	20.0	6.8	35.0
o-Terphenyl	Ave	0.6078	0.6137	0.0000	20.2	20.0	1.0	35.0

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A070713.b\1AG07013.D
Lab Smp Id: ICV-1558374
Inj Date : 07-JUL-2013 16:01
Operator : SCC Inst ID: BSMA5973.i
Smp Info : ICV-1558374
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A070713.b\a-bFASTPAHi-m.m
Meth Date : 08-Jul-2013 11:45 cantins Quant Type: ISTD
Cal Date : 07-JUL-2013 15:46 Cal File: 1AG07012.D
Als bottle: 10 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah+2.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula: Amt * DF * 1/Vi * Vt/Vo * A * B * C * D * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Vo	1000.000	Sample Volume
A	1000.000	uL to mL conversion
B	1000.000	mL to L conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1= if no con
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/l)
*	1 Naphthalene-d8	136	2.680	2.683	(1.000)	2624272	40.0000	
*	7 Acenaphthene-d10	164	3.711	3.714	(1.000)	1393027	40.0000	
*	11 Phenanthrene-d10	188	4.689	4.692	(1.000)	2208439	40.0000	
$	15 o-Terphenyl	230	4.983	4.986	(1.063)	677642	20.1927	20.1926
*	19 Chrysene-d12	240	6.746	6.748	(1.000)	2029780	40.0000	
*	24 Perylene-d12	264	7.841	7.849	(1.000)	2228189	40.0000	
	2 Naphthalene	128	2.691	2.694	(1.004)	1268251	21.3898	21.3898
	3 2-Methylnaphthalene	141	3.097	3.100	(1.155)	736218	21.7637	21.7636
	4 1-Methylnaphthalene	142	3.150	3.153	(1.175)	801754	20.2975	20.2975
	5 1,1'-Biphenyl	154	3.375	3.378	(1.259)	982113	19.7712	19.7712
	6 Acenaphthylene	152	3.626	3.629	(0.977)	1367360	22.0044	22.0043
	8 Acenaphthene	154	3.733	3.735	(1.006)	739528	22.7103	22.7103
	9 Dibenzofuran	168	3.840	3.837	(1.035)	1098272	20.5162	20.5161
	10 Fluorene	166	4.053	4.056	(1.092)	956699	21.9581	21.9580
	12 Phenanthrene	178	4.705	4.708	(1.003)	1178991	20.9760	20.9760
	13 Anthracene	178	4.737	4.740	(1.010)	1249521	21.3189	21.3189
	16 Fluoranthene	202	5.586	5.589	(1.191)	1443048	21.3361	21.3360

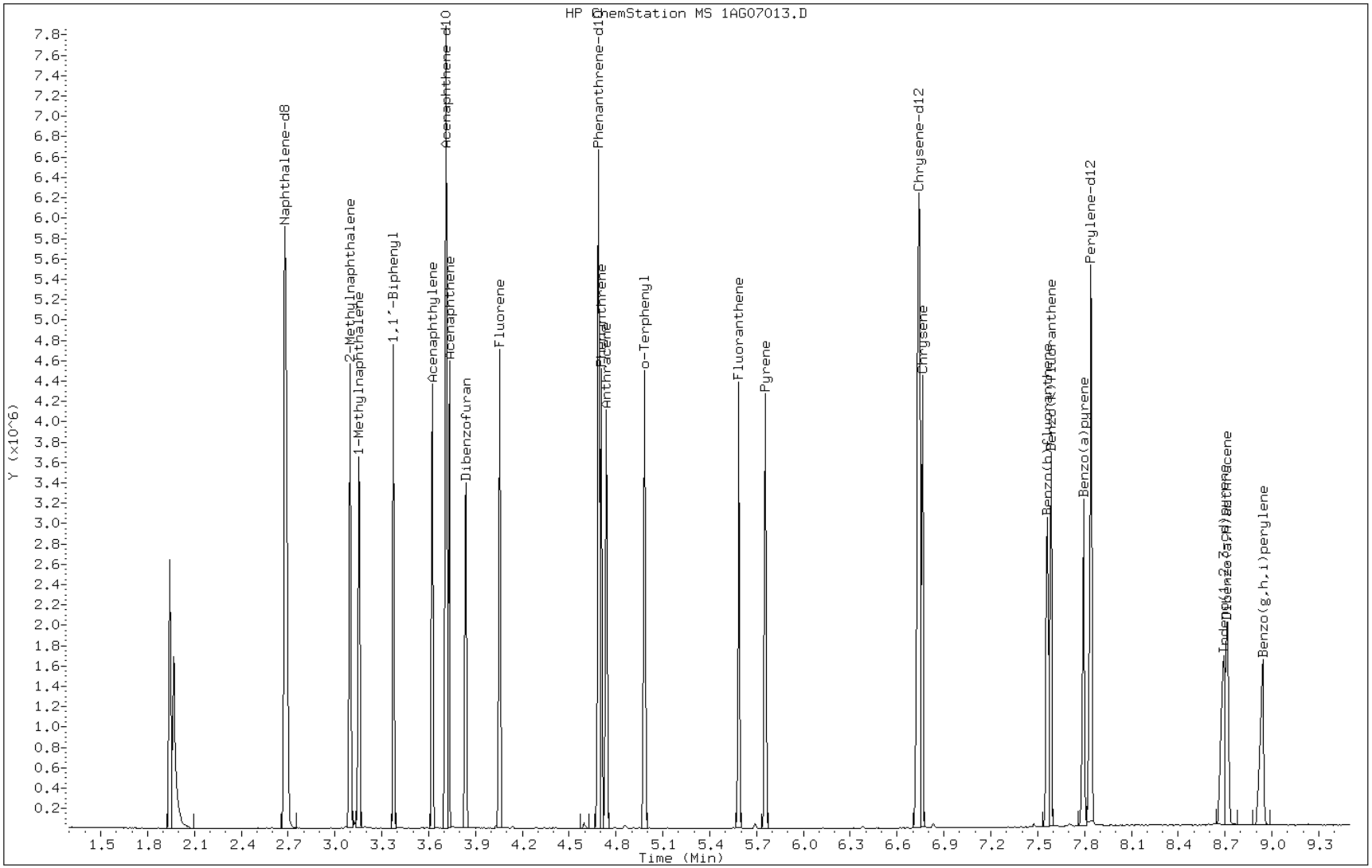
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/l)
17 Pyrene	202	5.757	5.760	(0.854)	1442889	21.3530	21.3530
18 Benzo(a)anthracene	228	6.730	6.732	(0.998)	1333833	20.5974	20.5974
20 Chrysene	228	6.762	6.764	(1.002)	1246020	22.6606	22.6606
21 Benzo(b)fluoranthene	252	7.563	7.566	(0.965)	1398389	22.0466	22.0465
22 Benzo(k)fluoranthene	252	7.584	7.587	(0.967)	1234469	18.8492	18.8492
23 Benzo(a)pyrene	252	7.793	7.795	(0.994)	1233362	21.0262	21.0262
25 Indeno(1,2,3-cd)pyrene	276	8.690	8.693	(1.108)	1072748	20.9740	20.9739
26 Dibenzo(a,h)anthracene	278	8.717	8.720	(1.112)	1022060	21.1349	21.1348
27 Benzo(g,h,i)perylene	276	8.941	8.944	(1.140)	1035665	21.3571	21.3571

Data File: 1AG07013.D

Date: 07-JUL-2013 16:01

Client ID: Instrument: BSMA5973.i

Sample Info: ICV-1558374 Operator: SCC



FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-92626-1

SDG No.: 680-92626-01

Lab Sample ID: CCVIS 660-139909/3 Calibration Date: 07/29/2013 11:57

Instrument ID: BSMA5973 Calib Start Date: 07/07/2013 14:06

GC Column: DB-5MS ID: 250.00(um) Calib End Date: 07/07/2013 15:46

Lab File ID: 1AG29003.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	0.9038	0.8921	0.0000	19.7	20.0	-1.3	20.0
2-Methylnaphthalene	Ave	0.5156	0.5134	0.0000	19.9	20.0	-0.4	20.0
1-Methylnaphthalene	Ave	0.6021	0.5796	0.0000	19.3	20.0	-3.7	20.0
1,1'-Biphenyl	Ave	0.7571	0.7521		19.9	20.0	-0.7	
Acenaphthylene	Ave	1.784	1.827	0.0000	20.5	20.0	2.4	20.0
Acenaphthene	Ave	0.9350	0.9615	0.0000	20.6	20.0	2.8	20.0
Dibenzofuran	Ave	1.537	1.613		21.0	20.0	4.9	
Fluorene	Ave	1.251	1.313	0.0000	21.0	20.0	4.9	20.0
Phenanthrene	Ave	1.018	1.018	0.0000	20.0	20.0	-0.0	20.0
Anthracene	Ave	1.062	1.057	0.0000	19.9	20.0	-0.4	20.0
Fluoranthene	Ave	1.225	1.224	0.0000	20.0	20.0	-0.1	20.0
Pyrene	Ave	1.332	1.352	0.0000	20.3	20.0	1.5	20.0
Benzo[a]anthracene	Lin1	1.390	1.281	0.0000	20.1	20.0	0.3	20.0
Chrysene	Ave	1.084	1.066	0.0000	19.7	20.0	-1.6	20.0
Benzo[b]fluoranthene	Ave	1.139	1.149	0.0000	20.2	20.0	0.9	20.0
Benzo[k]fluoranthene	Ave	1.176	1.103	0.0000	18.8	20.0	-6.2	20.0
Benzo[a]pyrene	Ave	1.053	1.041	0.0000	19.8	20.0	-1.1	20.0
Indeno[1,2,3-cd]pyrene	Ave	0.9182	0.9933	0.0000	21.6	20.0	8.2	20.0
Dibenz(a,h)anthracene	Ave	0.8681	0.8962	0.0000	20.6	20.0	3.2	20.0
Benzo[g,h,i]perylene	Ave	0.8705	0.8802	0.0000	20.2	20.0	1.1	20.0
o-Terphenyl	Ave	0.6078	0.6200	0.0000	20.4	20.0	2.0	20.0

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A072913.b\1AG29003.D
Lab Smp Id: CCVIS-1559459
Inj Date : 29-JUL-2013 11:57
Operator : SCC Inst ID: BSMA5973.i
Smp Info : CCVIS-1559459
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A072913.b\a-bFASTPAHi-m.m
Meth Date : 29-Jul-2013 12:10 cantins Quant Type: ISTD
Cal Date : 07-JUL-2013 15:46 Cal File: 1AG07012.D
Als bottle: 3 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah+2.sub
Target Version: 4.14
Processing Host: TAM1000

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)
*	1 Naphthalene-d8	136	2.640	2.640	(1.000)	3499862	40.0000	
*	7 Acenaphthene-d10	164	3.671	3.671	(1.000)	1841023	40.0000	(H)
*	11 Phenanthrene-d10	188	4.643	4.643	(1.000)	3031211	40.0000	(H)
$	15 o-Terphenyl	230	4.937	4.937	(1.063)	939652	20.0000	20.3999
*	19 Chrysene-d12	240	6.689	6.689	(1.000)	2751042	40.0000	(H)
*	24 Perylene-d12	264	7.795	7.795	(1.000)	2861223	40.0000	(H)
	2 Naphthalene	128	2.650	2.650	(1.004)	1561023	20.0000	19.7410
	3 2-Methylnaphthalene	141	3.056	3.056	(1.158)	898484	20.0000	19.9156
	4 1-Methylnaphthalene	142	3.110	3.110	(1.178)	1014303	20.0000	19.2542
	5 1,1'-Biphenyl	154	3.334	3.334	(1.263)	1316153	20.0000	19.8672
	6 Acenaphthylene	152	3.585	3.585	(0.977)	1681532	20.0000	20.4753(H)
	8 Acenaphthene	154	3.692	3.692	(1.006)	885079	20.0000	20.5660(H)
	9 Dibenzofuran	168	3.799	3.799	(1.035)	1484704	20.0000	20.9858(H)
	10 Fluorene	166	4.013	4.013	(1.093)	1208204	20.0000	20.9826(H)
	12 Phenanthrene	178	4.659	4.659	(1.003)	1542463	20.0000	19.9938(H)
	13 Anthracene	178	4.691	4.691	(1.010)	1602582	20.0000	19.9209(H)
	16 Fluoranthene	202	5.535	5.535	(1.192)	1854449	20.0000	19.9764(H)
	17 Pyrene	202	5.701	5.701	(0.852)	1859477	20.0000	20.3034(H)
	18 Benzo(a)anthracene	228	6.673	6.673	(0.998)	1761647	20.0000	20.0689(H)
	20 Chrysene	228	6.705	6.705	(1.002)	1466918	20.0000	19.6836(H)
	21 Benzo(b)fluoranthene	252	7.506	7.506	(0.963)	1643570	20.0000	20.1790(H)
	22 Benzo(k)fluoranthene	252	7.533	7.533	(0.966)	1577267	20.0000	18.7550(H)
	23 Benzo(a)pyrene	252	7.741	7.741	(0.993)	1489567	20.0000	19.7756(H)
	25 Indeno(1,2,3-cd)pyrene	276	8.617	8.617	(1.106)	1421043	20.0000	21.6366(H)
	26 Dibenzo(a,h)anthracene	278	8.644	8.644	(1.109)	1282133	20.0000	20.6469(H)
	27 Benzo(g,h,i)perylene	276	8.858	8.858	(1.136)	1259164	20.0000	20.2211(H)

QC Flag Legend

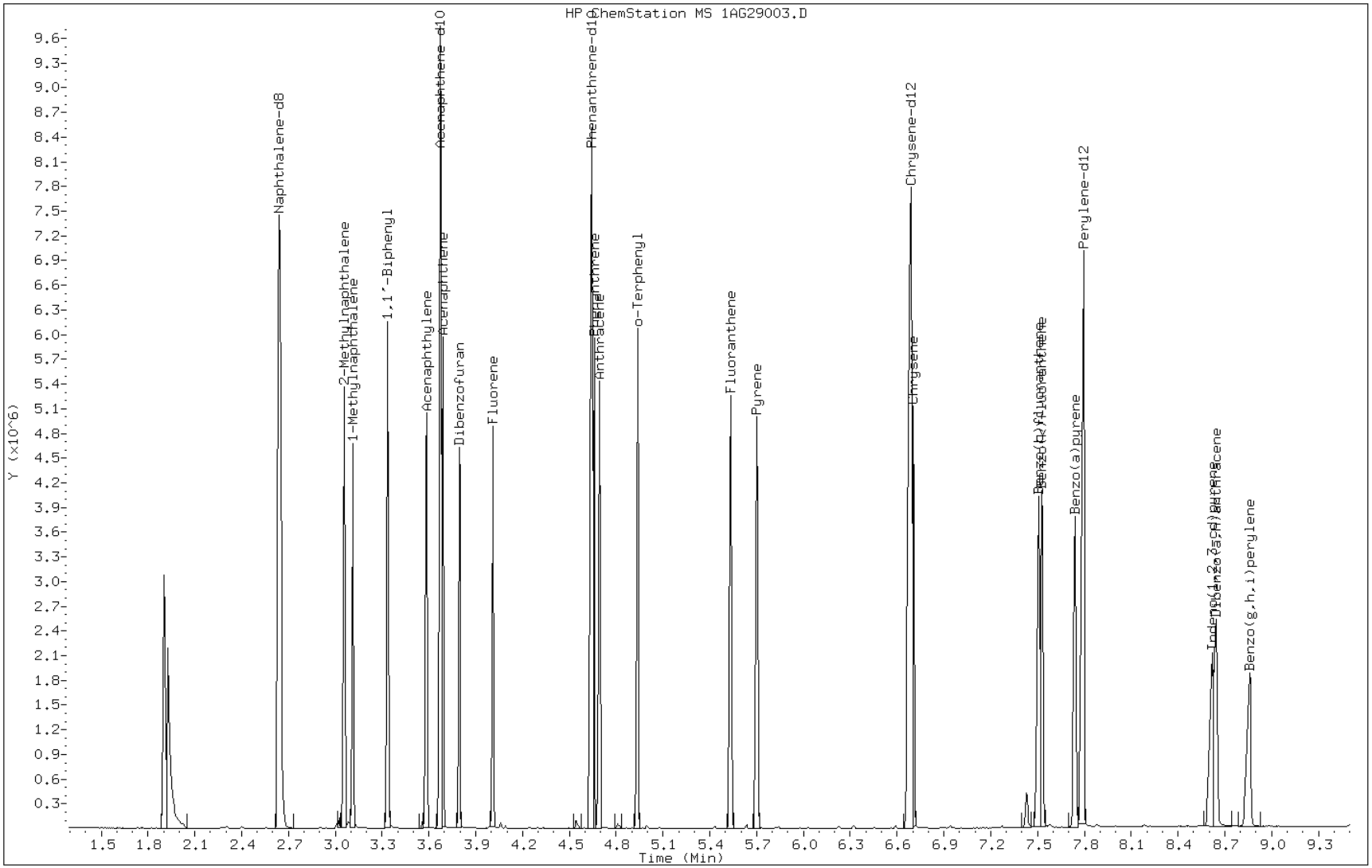
H - Operator selected an alternate compound hit.

Data File: 1AG29003.D

Date: 29-JUL-2013 11:57

Client ID: Instrument: BSMA5973.i

Sample Info: CCVIS-1559459 Operator: SCC



FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-92626-1

SDG No.: 680-92626-01

Lab Sample ID: CCVIS 660-139910/7 Calibration Date: 07/30/2013 15:24

Instrument ID: BSMA5973 Calib Start Date: 07/07/2013 14:06

GC Column: DB-5MS ID: 250.00(um) Calib End Date: 07/07/2013 15:46

Lab File ID: 1AG30006.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	0.9038	0.8918	0.0000	19.7	20.0	-1.3	20.0
2-Methylnaphthalene	Ave	0.5156	0.5196	0.0000	20.2	20.0	0.8	20.0
1-Methylnaphthalene	Ave	0.6021	0.5863	0.0000	19.5	20.0	-2.6	20.0
1,1'-Biphenyl	Ave	0.7571	0.7481		19.8	20.0	-1.2	
Acenaphthylene	Ave	1.784	1.823	0.0000	20.4	20.0	2.2	20.0
Acenaphthene	Ave	0.9350	0.9940	0.0000	21.3	20.0	6.3	20.0
Dibenzofuran	Ave	1.537	1.574		20.5	20.0	2.4	
Fluorene	Ave	1.251	1.291	0.0000	20.6	20.0	3.2	20.0
Phenanthrene	Ave	1.018	1.031	0.0000	20.2	20.0	1.2	20.0
Anthracene	Ave	1.062	1.019	0.0000	19.2	20.0	-4.0	20.0
Fluoranthene	Ave	1.225	1.200	0.0000	19.6	20.0	-2.0	20.0
Pyrene	Ave	1.332	1.372	0.0000	20.6	20.0	3.0	20.0
Benzo[a]anthracene	Lin1	1.390	1.232	0.0000	19.3	20.0	-3.5	20.0
Chrysene	Ave	1.084	1.082	0.0000	20.0	20.0	-0.2	20.0
Benzo[b]fluoranthene	Ave	1.139	1.069	0.0000	18.8	20.0	-6.1	20.0
Benzo[k]fluoranthene	Ave	1.176	1.026	0.0000	17.4	20.0	-12.8	20.0
Benzo[a]pyrene	Ave	1.053	0.9833	0.0000	18.7	20.0	-6.6	20.0
Indeno[1,2,3-cd]pyrene	Ave	0.9182	0.8729	0.0000	19.0	20.0	-4.9	20.0
Dibenz(a,h)anthracene	Ave	0.8681	0.8150	0.0000	18.8	20.0	-6.1	20.0
Benzo[g,h,i]perylene	Ave	0.8705	0.7884	0.0000	18.1	20.0	-9.4	20.0
o-Terphenyl	Ave	0.6078	0.6181	0.0000	20.3	20.0	1.7	20.0

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A073013.b\1AG30006.D
Lab Smp Id: CCVIS-1559459
Inj Date : 30-JUL-2013 15:24
Operator : SCC Inst ID: BSMA5973.i
Smp Info : CCVIS-1559459
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A073013.b\a-bFASTPAHi-m.m
Meth Date : 30-Jul-2013 15:39 cantins Quant Type: ISTD
Cal Date : 07-JUL-2013 15:46 Cal File: 1AG07012.D
Als bottle: 3 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah+2.sub
Target Version: 4.14
Processing Host: TAM1000

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)
*	1 Naphthalene-d8	136	2.634	2.634	(1.000)	3504960	40.0000	(H)
*	7 Acenaphthene-d10	164	3.670	3.670	(1.000)	1873377	40.0000	(H)
*	11 Phenanthrene-d10	188	4.643	4.643	(1.000)	3063042	40.0000	(H)
$	15 o-Terphenyl	230	4.937	4.937	(1.063)	946643	20.0000	20.3381(H)
*	19 Chrysene-d12	240	6.689	6.689	(1.000)	2750938	40.0000	
*	24 Perylene-d12	264	7.784	7.784	(1.000)	2810397	40.0000	(H)
	2 Naphthalene	128	2.650	2.650	(1.006)	1562866	20.0000	19.7355(H)
	3 2-Methylnaphthalene	141	3.056	3.056	(1.160)	910599	20.0000	20.1547(H)
	4 1-Methylnaphthalene	142	3.109	3.109	(1.180)	1027496	20.0000	19.4763(H)
	5 1,1'-Biphenyl	154	3.334	3.334	(1.266)	1310940	20.0000	19.7597(H)
	6 Acenaphthylene	152	3.580	3.580	(0.975)	1707428	20.0000	20.4316(H)
	8 Acenaphthene	154	3.686	3.686	(1.004)	931078	20.0000	21.2612(H)
	9 Dibenzofuran	168	3.793	3.793	(1.033)	1474630	20.0000	20.4835(H)
	10 Fluorene	166	4.007	4.007	(1.092)	1209088	20.0000	20.6353(H)
	12 Phenanthrene	178	4.659	4.659	(1.003)	1578505	20.0000	20.2484(H)
	13 Anthracene	178	4.691	4.691	(1.010)	1561319	20.0000	19.2063(H)
	16 Fluoranthene	202	5.535	5.535	(1.192)	1838469	20.0000	19.5984
	17 Pyrene	202	5.700	5.700	(0.852)	1886878	20.0000	20.6033
	18 Benzo(a)anthracene	228	6.673	6.673	(0.998)	1694193	20.0000	19.2972
	20 Chrysene	228	6.705	6.705	(1.002)	1487949	20.0000	19.9665
	21 Benzo(b)fluoranthene	252	7.501	7.501	(0.964)	1501854	20.0000	18.7726(H)
	22 Benzo(k)fluoranthene	252	7.527	7.527	(0.967)	1441158	20.0000	17.4465(H)
	23 Benzo(a)pyrene	252	7.736	7.736	(0.994)	1381705	20.0000	18.6754(H)
	25 Indeno(1,2,3-cd)pyrene	276	8.607	8.607	(1.106)	1226528	20.0000	19.0127(H)
	26 Dibenzo(a,h)anthracene	278	8.633	8.633	(1.109)	1145238	20.0000	18.7760(H)
	27 Benzo(g,h,i)perylene	276	8.847	8.847	(1.137)	1107877	20.0000	18.1133(H)

QC Flag Legend

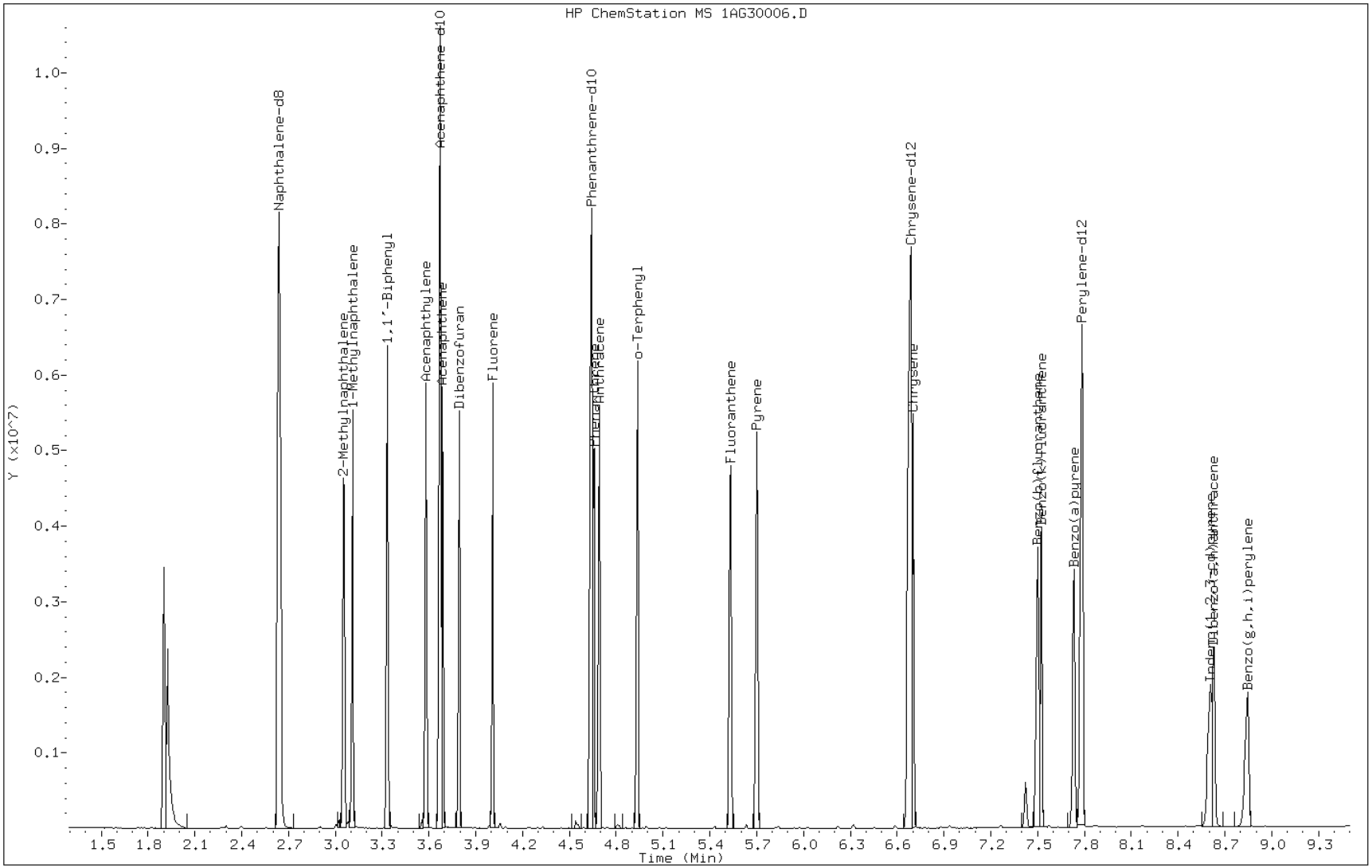
H - Operator selected an alternate compound hit.

Data File: 1AG30006.D

Date: 30-JUL-2013 15:24

Client ID: Instrument: BSMA5973.i

Sample Info: CCVIS-1559459 Operator: SCC



TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A070713.b\1AG07005.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 07-JUL-2013 13:53
Operator : SCC Inst ID: BSMA5973.i
Smp Info : DFTPP-1525851
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A070713.b\a-dftpp198.m
Meth Date : 04-Apr-2013 10:35 cantins Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 2 QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: None
Processing Host: TAM1000

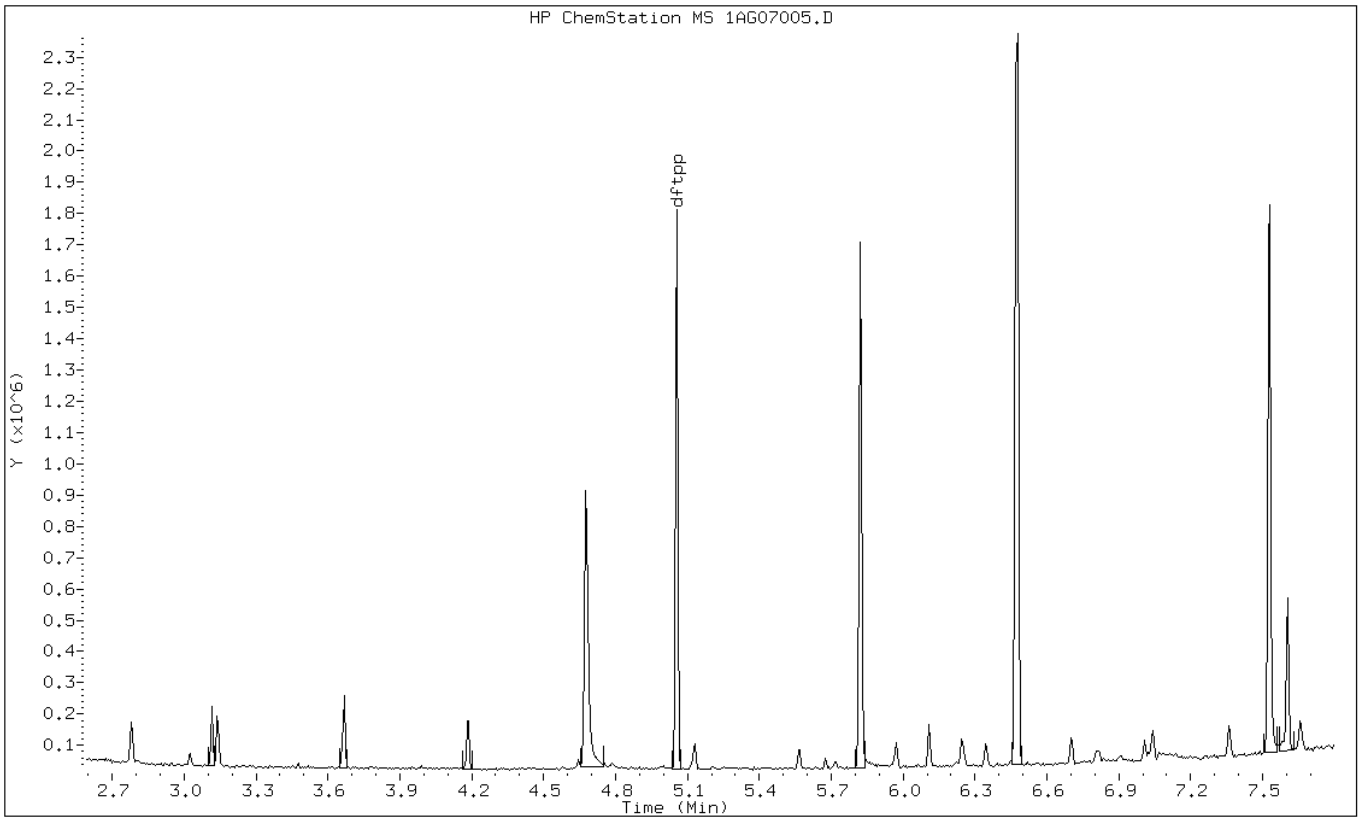
					CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT	DLT RT	MASS	RESPONSE	(ug/L)	(ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
5.056	4.963	0.093	198	214144			50.00- 0.00	100.00
5.056	4.963	0.093	51	89200			10.00- 80.00	41.65
5.056	4.963	0.093	68	0	0.0	0.0	0.00- 2.00	0.00
5.056	4.963	0.093	69	79096			0.00- 0.00	36.94
5.056	4.963	0.093	70	606			0.00- 2.00	0.77
5.056	4.963	0.093	127	100320			10.00- 80.00	46.85
5.056	4.963	0.093	197	0	0.0	0.0	0.00- 2.00	0.00
5.056	4.963	0.093	442	149056			50.00- 0.00	69.61
5.056	4.963	0.093	199	14178			5.00- 9.00	6.62
5.056	4.963	0.093	275	52752			10.00- 60.00	24.63
5.056	4.963	0.093	365	5938			1.00- 0.00	2.77
5.056	4.963	0.093	441	22400			0.01- 99.99	76.02
5.056	4.963	0.093	443	29464			15.00- 24.00	19.77

Data File: 1AG07005.D

Date: 07-JUL-2013 13:53

Client ID: DFTPP Instrument: BSMA5973.i

Sample Info: DFTPP-1525851 Operator: SCC



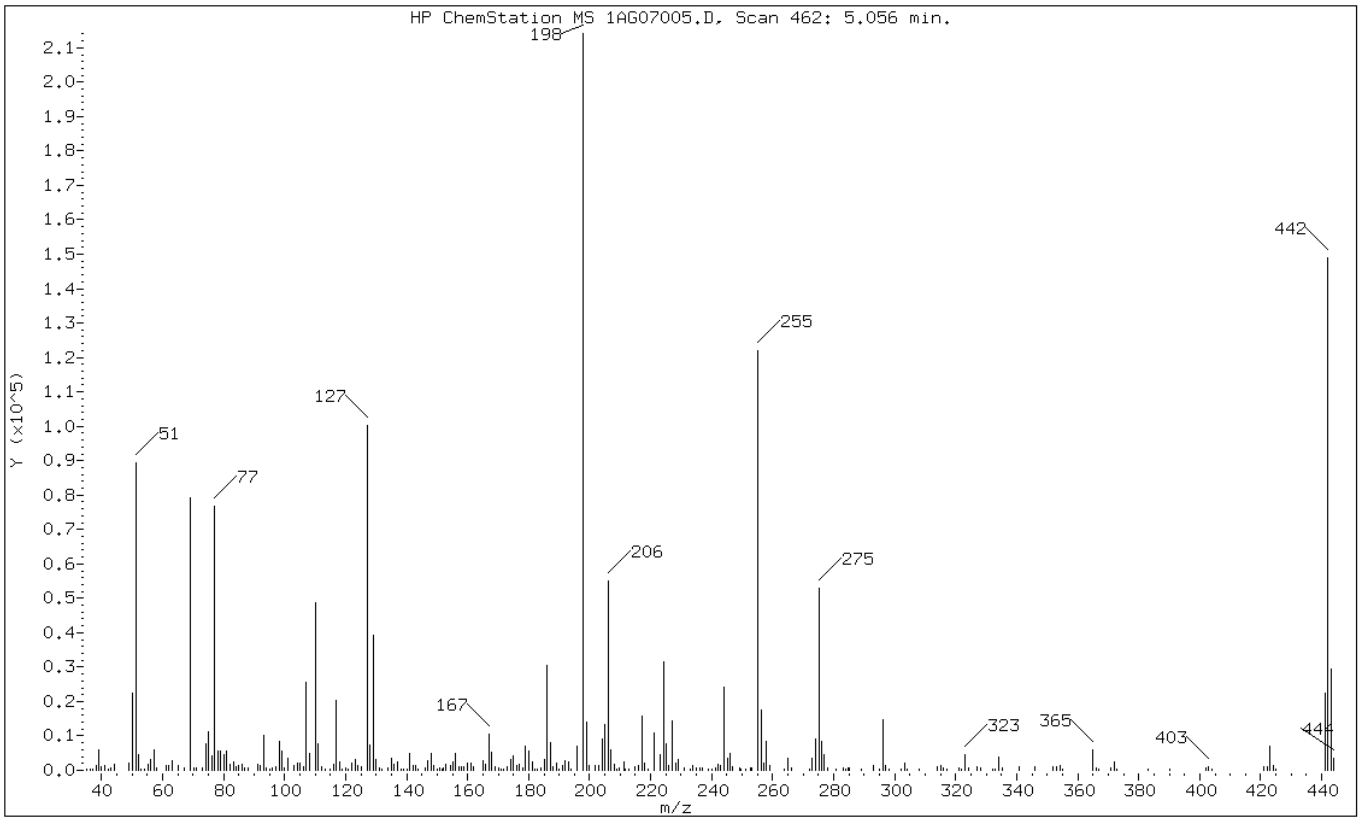
Data File: 1AG07005.D

Date: 07-JUL-2013 13:53

Client ID: DFTPP Instrument: BSMA5973.i

Sample Info: DFTPP-1525851 Operator: SCC

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	41.65
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	36.94
70	Less than 2.00% of mass 69	0.28 (0.77)
127	10.00 - 80.00% of mass 198	46.85
197	Less than 2.00% of mass 198	0.00
442	Greater than 50.00% of mass 198	69.61
199	5.00 - 9.00% of mass 198	6.62
275	10.00 - 60.00% of mass 198	24.63
365	Greater than 1.00% of mass 198	2.77
441	Present, but less than mass 443	10.46
443	15.00 - 24.00% of mass 442	13.76 (19.77)

Data File: 1AG07005.D

Date: 07-JUL-2013 13:53

Client ID: DFTPP Instrument: BSMA5973.i

Sample Info: DFTPP-1525851 Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMA5973.i\1A070713.b\1AG07005.D
Spectrum: HP ChemStation MS 1AG07005.D, Scan 462: 5.056 min.
Location of Maximum: 198.00
Number of points: 260

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.10	302	116.00	1716	186.00	30424	272.00	288
36.10	259	117.00	20400	187.00	8101	273.00	3466
37.00	453	118.00	2363	188.10	1138	274.10	9207
38.10	1325	119.00	433	189.00	2071	275.10	52752
39.10	6124	120.20	717	189.90	326	276.00	8448
40.00	899	121.00	337	191.00	1449	277.00	4425
41.10	1289	122.10	2234	192.10	2958	277.90	856
42.10	415	123.10	3018	193.00	2417	280.80	307
43.10	629	124.10	1365	194.00	389	283.10	871
44.00	1831	125.00	961	195.90	7045	284.00	478
49.10	2243	127.00	100320	198.00	214144	284.90	579
50.10	22352	128.00	7292	199.00	14178	285.20	619
51.10	89200	129.00	39256	200.00	1418	288.90	481
52.10	4515	129.90	3046	201.70	1540	293.20	1261
53.00	347	131.00	710	203.00	1520	294.80	410
54.10	330	132.00	480	204.10	9070	296.00	14592
55.10	1664	133.90	833	205.00	13439	297.10	1465
56.10	3149	135.10	3415	206.00	55184	298.20	403
57.10	6062	136.00	1721	207.10	6027	302.20	522
58.20	538	137.10	2338	208.00	1711	303.10	2156
61.00	1382	138.00	446	209.00	457	304.00	386
62.10	1423	139.10	258	209.80	657	307.90	266
63.10	2776	140.10	446	211.10	2608	314.10	886
65.10	1490	141.00	4956	211.80	419	315.00	1454
67.10	635	142.00	1432	213.00	474	315.90	862
69.00	79096	143.00	1451	214.90	900	317.10	340
70.10	606	143.90	452	216.10	1402	321.00	545
71.10	575	146.00	766	217.00	15624	321.90	363
73.20	852	147.00	2755	218.00	2040	323.10	4593
74.10	7830	148.00	5020	219.00	266	324.10	821
75.10	11146	149.00	1468	221.10	10796	327.00	1021
76.10	4051	150.10	340	223.00	4487	328.10	632
77.10	76784	150.90	658	224.10	31608	332.20	486
78.10	5566	151.50	413	225.00	7565	333.10	494
79.00	5514	152.10	607	226.00	1248	334.00	3816
80.00	4545	153.00	1613	227.00	14229	335.20	634
81.00	5450	154.20	1352	228.10	2070	341.00	895
82.10	1793	155.00	2532	229.00	3300	345.90	1025
83.10	2518	156.10	4811	231.10	864	352.00	1192
84.00	1066	157.10	950	233.10	409	353.20	899

85.00	1549	158.00	1002	233.80	1237	354.20	1353
86.00	1842	158.90	1069	235.00	873	354.90	386
87.00	735	160.00	1981	236.00	621	365.00	5938
88.10	641	161.00	2149	237.00	873	366.00	717
91.00	1814	162.00	1021	238.90	439	366.90	354
92.00	1540	165.00	2817	240.00	389	370.90	859
93.10	10239	166.00	1865	241.20	789	371.90	2475
94.00	736	167.10	10587	242.00	1638	373.00	257
95.10	522	168.00	5397	242.90	1564	383.00	510
96.00	802	168.90	877	244.10	24168	390.10	333
97.10	941	170.00	605	245.10	3552	402.10	716
98.10	8499	171.10	481	246.00	4748	402.90	959
99.10	5723	171.90	504	246.90	877	404.10	430
100.00	581	173.10	1198	249.00	798	420.80	1044
101.10	3654	174.00	3012	249.70	352	422.00	1097
102.90	1328	175.10	4116	251.00	356	423.00	7089
104.10	2120	176.10	1263	252.80	598	424.00	1518
105.00	2091	177.00	1657	253.20	694	425.00	442
106.00	993	177.90	663	255.00	122024	441.00	22400
107.00	25760	179.00	6974	256.10	17656	442.00	149056
108.00	4900	180.00	5749	257.00	1990	443.00	29464
110.00	48584	181.10	2532	258.00	8510	443.90	3589
111.00	7686	182.10	410	259.10	1503		
112.00	1087	183.00	297	263.90	265		
113.30	421	184.10	663	265.00	3427		
115.00	322	185.10	3265	266.10	632		

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A072913.b\1AG29002.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 29-JUL-2013 11:43
Operator : SCC Inst ID: BSMA5973.i
Smp Info : DFTPP-1525851
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A072913.b\a-dftpp198.m
Meth Date : 04-Apr-2013 10:35 cantins Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 2 QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: None
Processing Host: TAM1000

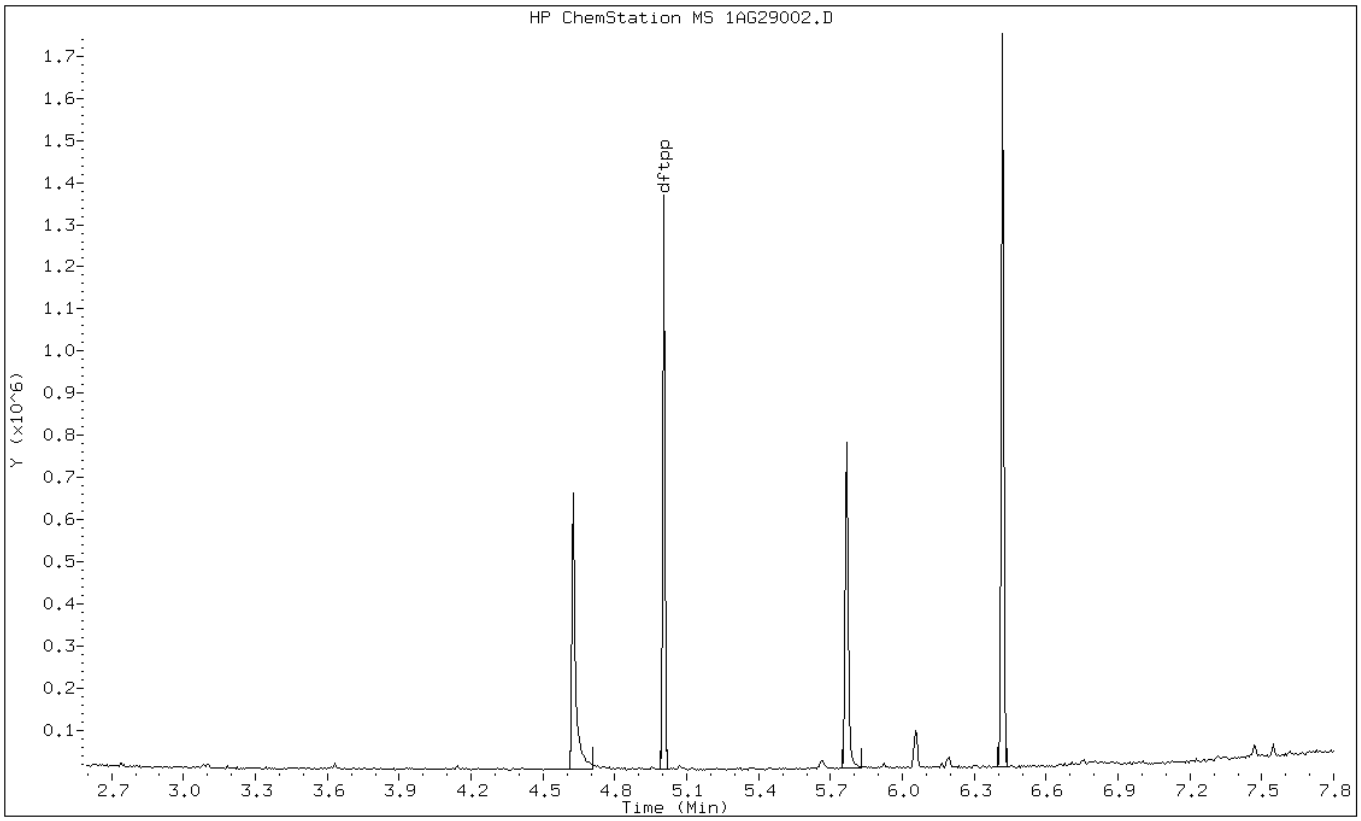
					CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT	DLT RT	MASS	RESPONSE	(ug/L)	(ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
5.005	4.963	0.042	198	120108			50.00- 0.00	100.00
5.005	4.963	0.042	51	51300			10.00- 80.00	42.71
5.005	4.963	0.042	68	0	0.0	0.0	0.00- 2.00	0.00
5.005	4.963	0.042	69	47108			0.00- 0.00	39.22
5.005	4.963	0.042	70	222			0.00- 2.00	0.47
5.005	4.963	0.042	127	55144			10.00- 80.00	45.91
5.005	4.963	0.042	197	0	0.0	0.0	0.00- 2.00	0.00
5.005	4.963	0.042	442	82068			50.00- 0.00	68.33
5.005	4.963	0.042	199	9048			5.00- 9.00	7.53
5.005	4.963	0.042	275	28656			10.00- 60.00	23.86
5.005	4.963	0.042	365	3943			1.00- 0.00	3.28
5.005	4.963	0.042	441	11832			0.01- 99.99	79.65
5.005	4.963	0.042	443	14855			15.00- 24.00	18.10

Data File: 1AG29002.D

Date: 29-JUL-2013 11:43

Client ID: DFTPP Instrument: BSMA5973.i

Sample Info: DFTPP-1525851 Operator: SCC



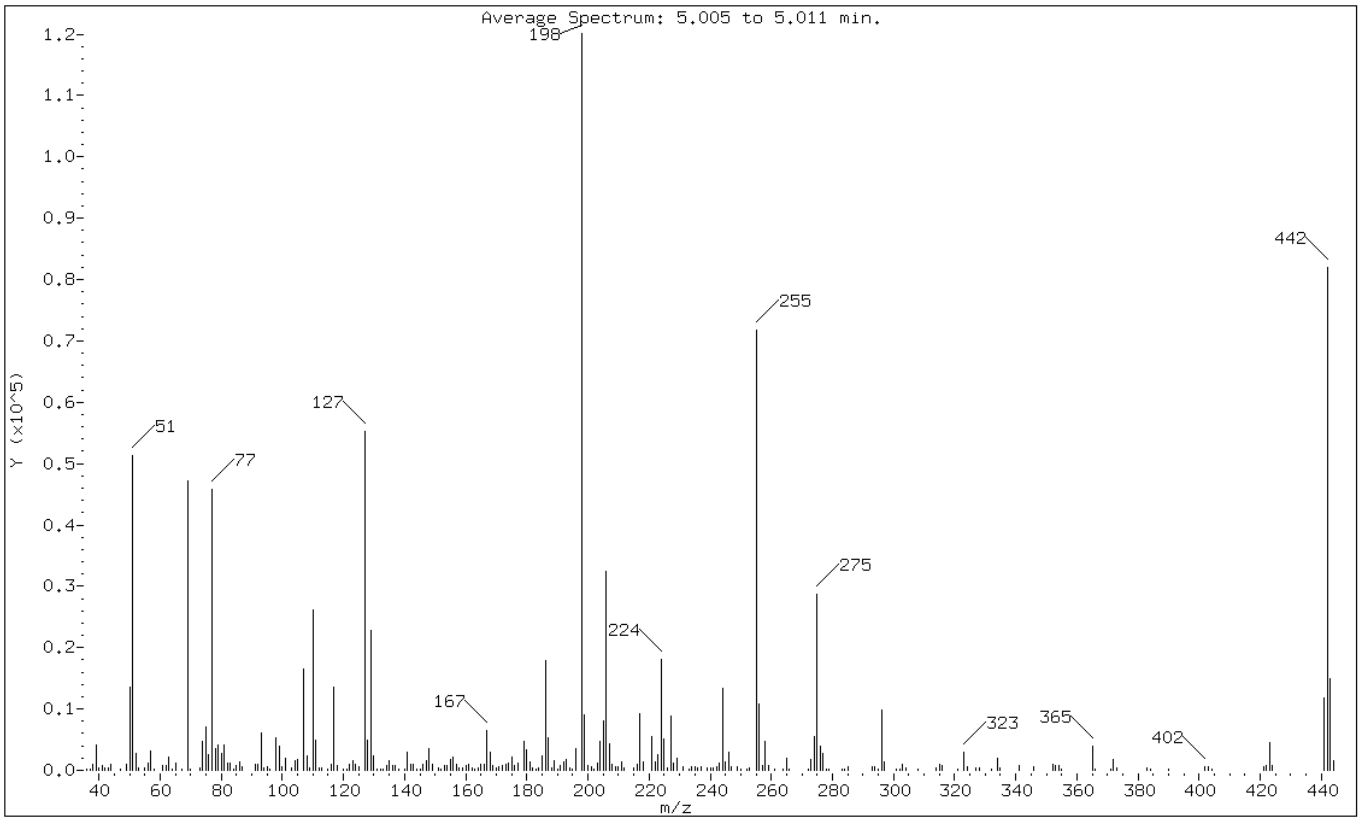
Data File: 1AG29002.D

Date: 29-JUL-2013 11:43

Client ID: DFTPP Instrument: BSMA5973.i

Sample Info: DFTPP-1525851 Operator: SCC

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	42.71
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	39.22
70	Less than 2.00% of mass 69	0.18 (0.47)
127	10.00 - 80.00% of mass 198	45.91
197	Less than 2.00% of mass 198	0.00
442	Greater than 50.00% of mass 198	68.33
199	5.00 - 9.00% of mass 198	7.53
275	10.00 - 60.00% of mass 198	23.86
365	Greater than 1.00% of mass 198	3.28
441	Present, but less than mass 443	9.85
443	15.00 - 24.00% of mass 442	12.37 (18.10)

Data File: 1AG29002.D

Date: 29-JUL-2013 11:43

Client ID: DFTPP Instrument: BSMA5973.i

Sample Info: DFTPP-1525851 Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMA5973.i\1A072913.b\1AG29002.D
Spectrum: Average Spectrum: 5.005 to 5.011 min.
Location of Maximum: 198.00
Number of points: 252

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	143	117.00	13642	186.00	17872	264.00	222
37.00	179	118.00	868	187.00	5215	265.00	2057
38.00	951	120.00	134	188.00	480	266.00	218
39.00	4087	121.00	131	189.00	1500	272.00	218
40.00	446	122.00	1075	190.00	152	273.00	1797
41.00	784	123.00	1521	191.00	753	274.00	5501
42.00	301	124.00	965	192.00	1379	275.00	28656
43.00	421	125.00	668	193.00	1744	276.00	4012
44.00	957	127.00	55144	194.00	435	277.00	2749
47.00	159	128.00	4987	195.00	247	278.00	219
49.00	932	129.00	22792	196.00	3492	279.00	150
50.00	13543	130.00	2408	198.00	120104	283.00	228
51.00	51296	131.00	161	199.00	9048	284.00	155
52.00	2670	132.00	125	200.00	718	285.00	499
53.00	449	133.00	127	201.00	630	293.00	577
55.00	491	134.00	750	202.00	215	294.00	540
56.00	1266	135.00	1657	203.00	1130	295.00	238
57.00	3072	136.00	708	204.00	4770	296.00	9759
58.00	177	137.00	877	205.00	8017	297.00	1279
61.00	780	138.00	148	206.00	32336	301.00	205
62.00	872	140.00	220	207.00	4356	302.00	150
63.00	2120	141.00	2924	208.00	1080	303.00	901
64.00	133	142.00	975	209.00	561	304.00	306
65.00	1131	143.00	977	210.00	587	308.00	185
67.00	141	144.00	184	211.00	1420	314.00	463
69.00	47104	145.00	202	212.00	319	315.00	1063
70.00	222	146.00	914	215.00	297	316.00	851
73.00	426	147.00	1557	216.00	1031	321.00	246
74.00	4716	148.00	3534	217.00	9310	323.00	3031
75.00	7169	149.00	997	218.00	1395	324.00	578
76.00	2466	151.00	318	221.00	5436	327.00	461
77.00	45712	152.00	234	222.00	1348	328.00	400
78.00	3475	153.00	847	223.00	2536	332.00	213
79.00	4116	154.00	807	224.00	18168	334.00	1966
80.00	2755	155.00	1763	225.00	5180	335.00	424
81.00	4110	156.00	2141	226.00	392	341.00	693
82.00	1182	157.00	925	227.00	8911	346.00	522
83.00	1176	158.00	442	228.00	1186	352.00	908
84.00	242	159.00	381	229.00	1975	353.00	776
85.00	764	160.00	868	231.00	539	354.00	767

86.00	1426	161.00	926	233.00	131	355.00	129
87.00	550	162.00	430	234.00	604	365.00	3943
91.00	989	163.00	205	235.00	521	366.00	240
92.00	1074	164.00	393	236.00	445	371.00	141
93.00	6134	165.00	1066	237.00	557	372.00	1723
94.00	444	166.00	1049	239.00	365	373.00	482
95.00	511	167.00	6567	240.00	439	383.00	413
96.00	214	168.00	2960	241.00	444	384.00	128
98.00	5369	169.00	782	242.00	615	390.00	190
99.00	3874	170.00	398	243.00	1155	402.00	546
100.00	558	171.00	555	244.00	13361	403.00	510
101.00	2000	172.00	741	245.00	1437	404.00	194
103.00	376	173.00	924	246.00	3041	421.00	663
104.00	1555	174.00	1251	247.00	530	422.00	699
105.00	1681	175.00	2226	249.00	581	423.00	4600
107.00	16552	176.00	734	250.00	232	424.00	728
108.00	2284	177.00	1129	252.00	127	441.00	11832
109.00	303	179.00	4793	253.00	385	442.00	82064
110.00	26176	180.00	3414	255.00	71672	443.00	14855
111.00	4929	181.00	1440	256.00	10895	444.00	1485
112.00	396	182.00	375	257.00	870		
113.00	317	183.00	150	258.00	4807		
115.00	135	184.00	385	259.00	834		
116.00	932	185.00	2343	261.00	128		

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A073013.b\1AG30005.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 30-JUL-2013 15:10
Operator : SCC Inst ID: BSMA5973.i
Smp Info : DFTPP-1588025
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A073013.b\a-dftpp198.m
Meth Date : 04-Apr-2013 10:35 cantins Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 2 QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: None
Processing Host: TAM1000

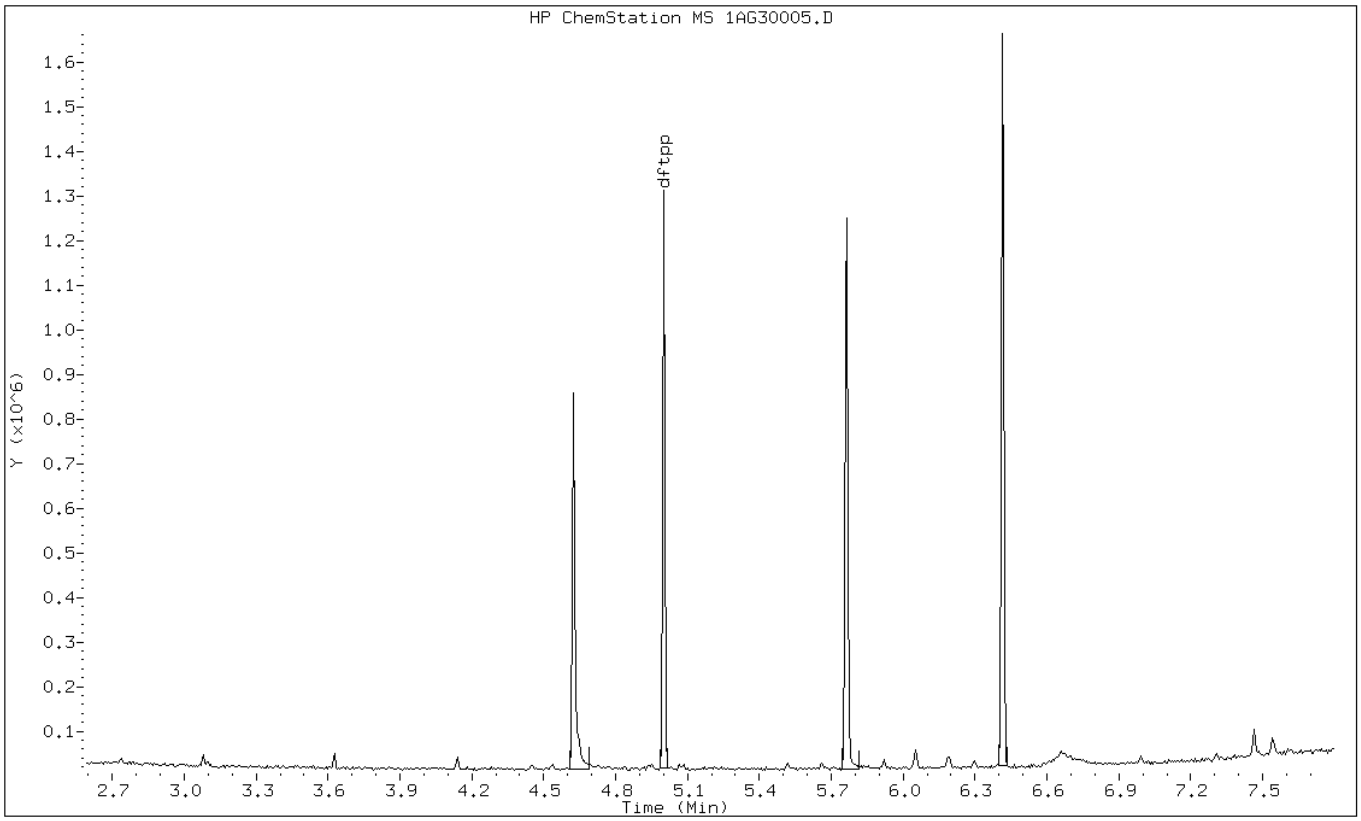
					CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT	DLT RT	MASS	RESPONSE	(ug/L)	(ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
5.002	4.963	0.039	198	154368			50.00- 0.00	100.00
5.002	4.963	0.039	51	73568			10.00- 80.00	47.66
5.002	4.963	0.039	68	0	0.0	0.0	0.00- 2.00	0.00
5.002	4.963	0.039	69	64936			0.00- 0.00	42.07
5.002	4.963	0.039	70	0	0.0	0.0	0.00- 2.00	0.00
5.002	4.963	0.039	127	69456			10.00- 80.00	44.99
5.002	4.963	0.039	197	0	0.0	0.0	0.00- 2.00	0.00
5.002	4.963	0.039	442	84048			50.00- 0.00	54.45
5.002	4.963	0.039	199	10696			5.00- 9.00	6.93
5.002	4.963	0.039	275	35920			10.00- 60.00	23.27
5.002	4.963	0.039	365	3967			1.00- 0.00	2.57
5.002	4.963	0.039	441	10885			0.01- 99.99	64.15
5.002	4.963	0.039	443	16968			15.00- 24.00	20.19

Data File: 1AG30005.D

Date: 30-JUL-2013 15:10

Client ID: DFTPP Instrument: BSMA5973.i

Sample Info: DFTPP-1588025 Operator: SCC



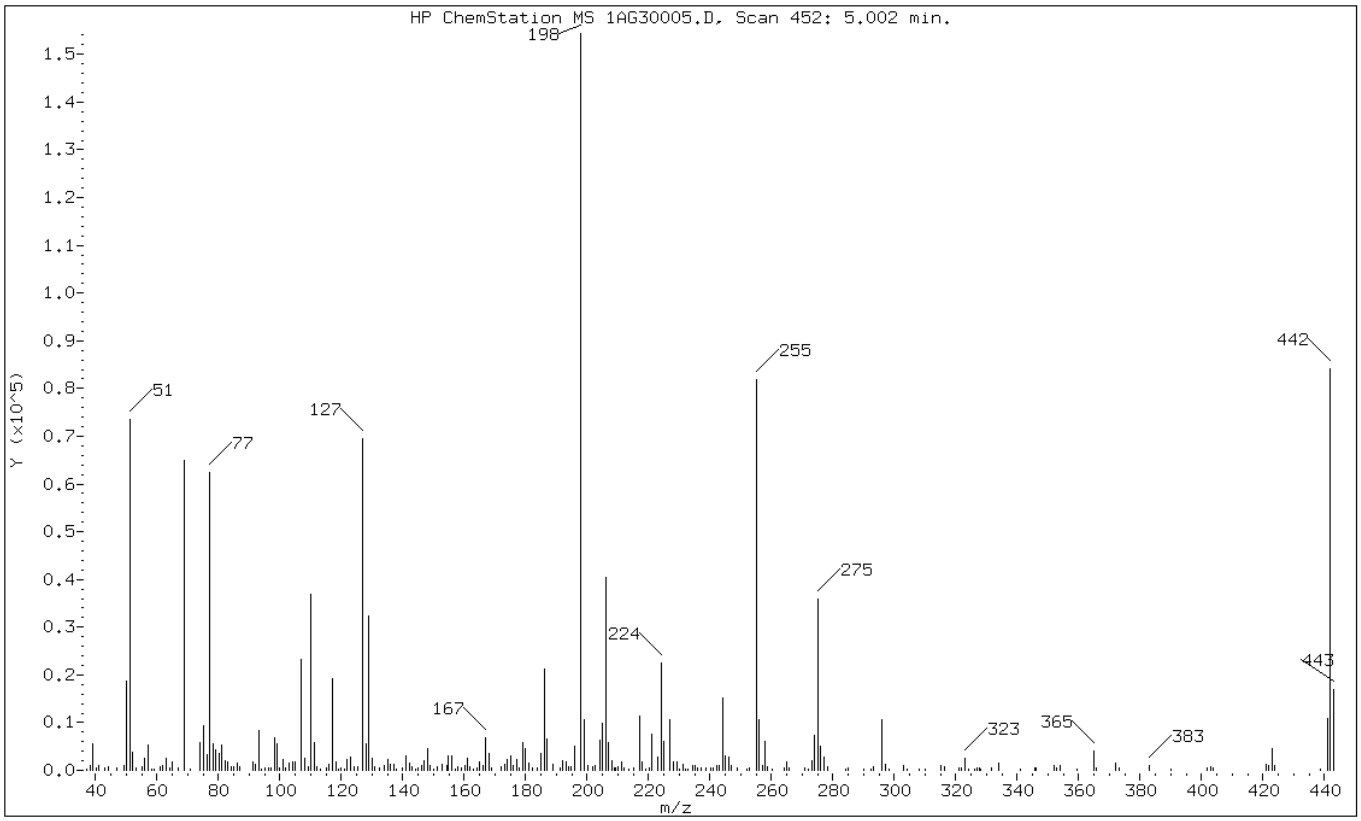
Data File: 1AG30005.D

Date: 30-JUL-2013 15:10

Client ID: DFTPP Instrument: BSMA5973.i

Sample Info: DFTPP-1588025 Operator: SCC

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	47.66
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	42.07
70	Less than 2.00% of mass 69	0.00 (0.00)
127	10.00 - 80.00% of mass 198	44.99
197	Less than 2.00% of mass 198	0.00
442	Greater than 50.00% of mass 198	54.45
199	5.00 - 9.00% of mass 198	6.93
275	10.00 - 60.00% of mass 198	23.27
365	Greater than 1.00% of mass 198	2.57
441	Present, but less than mass 443	7.05
443	15.00 - 24.00% of mass 442	10.99 (20.19)

Data File: 1AG30005.D

Date: 30-JUL-2013 15:10

Client ID: DFTPP Instrument: BSMA5973.i

Sample Info: DFTPP-1588025 Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMA5973.i\1A073013.b\1AG30005.D
Spectrum: HP ChemStation MS 1AG30005.D, Scan 452: 5.002 min.
Location of Maximum: 198.00
Number of points: 249

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.10	350	115.10	390	185.10	3435	260.10	275
38.10	1101	116.00	1298	186.10	21304	264.00	403
39.20	5522	117.00	19248	187.00	6526	265.00	1673
40.10	607	118.10	1751	189.00	1334	265.80	574
41.10	1028	119.10	291	191.10	563	270.90	433
43.10	501	119.90	450	192.00	1987	271.90	317
44.10	784	121.10	267	193.00	1861	273.10	1909
47.10	385	122.00	2278	194.10	737	274.00	7240
49.10	1130	123.00	2710	194.90	733	275.00	35920
50.10	18656	124.10	768	196.00	5031	276.10	4974
51.10	73568	125.20	758	198.00	154368	277.00	2846
52.10	3716	127.00	69456	199.00	10696	278.10	662
53.10	455	128.10	5496	200.10	1014	284.20	324
55.10	835	129.00	32400	201.90	719	285.00	495
56.00	2427	130.10	2489	202.70	935	290.10	270
57.10	5375	131.00	717	204.00	6402	292.30	274
58.20	292	132.50	624	205.00	9821	293.20	760
59.20	255	134.00	897	206.00	40384	296.00	10549
61.10	849	135.00	2161	207.00	5776	297.10	1262
62.00	890	136.10	1331	208.00	1958	298.10	335
63.10	2542	137.00	1191	208.90	572	303.10	932
64.00	595	137.90	346	209.10	570	304.00	280
65.00	1834	140.00	440	209.90	705	308.10	278
66.90	496	141.10	3105	211.10	1721	310.00	270
69.00	64936	142.10	1481	211.90	505	315.10	1107
70.90	267	142.90	863	213.40	313	316.20	674
74.10	5725	144.20	290	215.00	621	321.10	400
75.00	9399	145.00	415	217.00	11336	321.80	385
76.20	3284	146.10	966	217.90	1819	323.00	2597
77.10	62408	147.10	2106	219.20	357	324.10	327
78.10	5568	148.10	4673	220.10	569	326.00	342
79.10	4288	149.00	932	221.00	7515	327.00	425
80.10	3429	150.20	325	223.00	2733	327.60	407
81.00	5345	151.20	803	224.00	22512	328.10	268
82.10	2022	152.80	1367	225.10	5967	331.80	513
83.10	1882	154.20	1040	227.00	10572	334.10	1539
84.10	747	154.90	2912	228.00	1893	341.00	320
85.00	841	156.00	2945	229.10	1787	345.90	379
86.00	1504	157.10	318	230.10	307	346.10	404
87.10	849	157.90	742	231.10	1199	352.10	920

91.10	1817	159.20	379	232.00	276	352.80	508
92.10	1192	160.10	1006	232.90	266	354.00	955
93.00	8341	161.00	2470	234.20	1008	359.60	289
93.90	350	162.00	860	235.10	1051	365.00	3967
94.10	350	163.10	259	236.10	612	365.90	436
95.00	471	164.00	510	237.10	579	372.10	1496
96.20	416	164.90	1864	238.80	452	373.00	423
97.20	552	166.00	969	240.10	524	382.90	961
98.10	6806	167.10	6837	241.00	542	390.00	336
99.00	5660	168.00	3436	242.20	1022	402.00	500
99.90	492	168.90	503	243.10	1090	403.10	835
101.00	2223	171.90	654	244.10	15167	403.80	545
102.00	439	173.10	1172	245.10	2922	420.90	1157
103.00	1456	174.00	2167	246.10	2873	422.00	1009
104.10	1847	175.10	3036	247.10	897	423.10	4608
105.10	1662	176.00	1030	249.00	459	423.90	1005
107.00	23192	177.00	2310	252.00	342	438.50	280
108.10	2642	178.00	525	252.90	415	440.90	10885
109.10	814	179.10	5807	255.00	81832	442.00	84048
110.00	36768	180.00	4637	256.00	10539	443.00	16968
111.10	5838	181.00	1638	257.10	999		
112.10	804	182.10	466	258.00	6161		
113.00	355	183.90	451	258.80	857		

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-92626-1

SDG No.: 680-92626-01

Client Sample ID: | Lab Sample ID: MB 660-139814/1-A

Matrix: Solid | Lab File ID: 1AG29005.D

Analysis Method: 8270C LL | Date Collected:

Extract. Method: 3546 | Date Extracted: 07/26/2013 14:59

Sample wt/vol: 15.08(g) | Date Analyzed: 07/29/2013 13:03

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 139909 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	99	U	99	20
208-96-8	Acenaphthylene	40	U	40	5.0
120-12-7	Anthracene	8.4	U	8.4	4.2
56-55-3	Benzo[a]anthracene	8.0	U	8.0	3.9
50-32-8	Benzo[a]pyrene	10	U	10	5.2
205-99-2	Benzo[b]fluoranthene	12	U	12	6.1
191-24-2	Benzo[g,h,i]perylene	20	U	20	4.4
207-08-9	Benzo[k]fluoranthene	8.0	U	8.0	3.6
218-01-9	Chrysene	9.0	U	9.0	4.5
53-70-3	Dibenz(a,h)anthracene	20	U	20	4.1
206-44-0	Fluoranthene	20	U	20	4.0
86-73-7	Fluorene	20	U	20	4.1
193-39-5	Indeno[1,2,3-cd]pyrene	20	U	20	7.1
90-12-0	1-Methylnaphthalene	40	U	40	4.4
91-57-6	2-Methylnaphthalene	40	U	40	7.1
91-20-3	Naphthalene	40	U	40	4.4
85-01-8	Phenanthrene	8.0	U	8.0	3.9
129-00-0	Pyrene	20	U	20	3.7

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	70		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A072913.b\1AG29005.D
Lab Smp Id: mb 660-139814/1-a
Inj Date : 29-JUL-2013 13:03
Operator : SCC Inst ID: BSMA5973.i
Smp Info : mb 660-139814/1-a
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A072913.b\a-bFASTPAHi-m.m
Meth Date : 29-Jul-2013 12:10 cantins Quant Type: ISTD
Cal Date : 07-JUL-2013 15:46 Cal File: 1AG07012.D
Als bottle: 5 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:
Amt * DF * 1/Vi * Vt/Ws * 100/(100 - M) * A * B * C * D * GPC * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.080	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

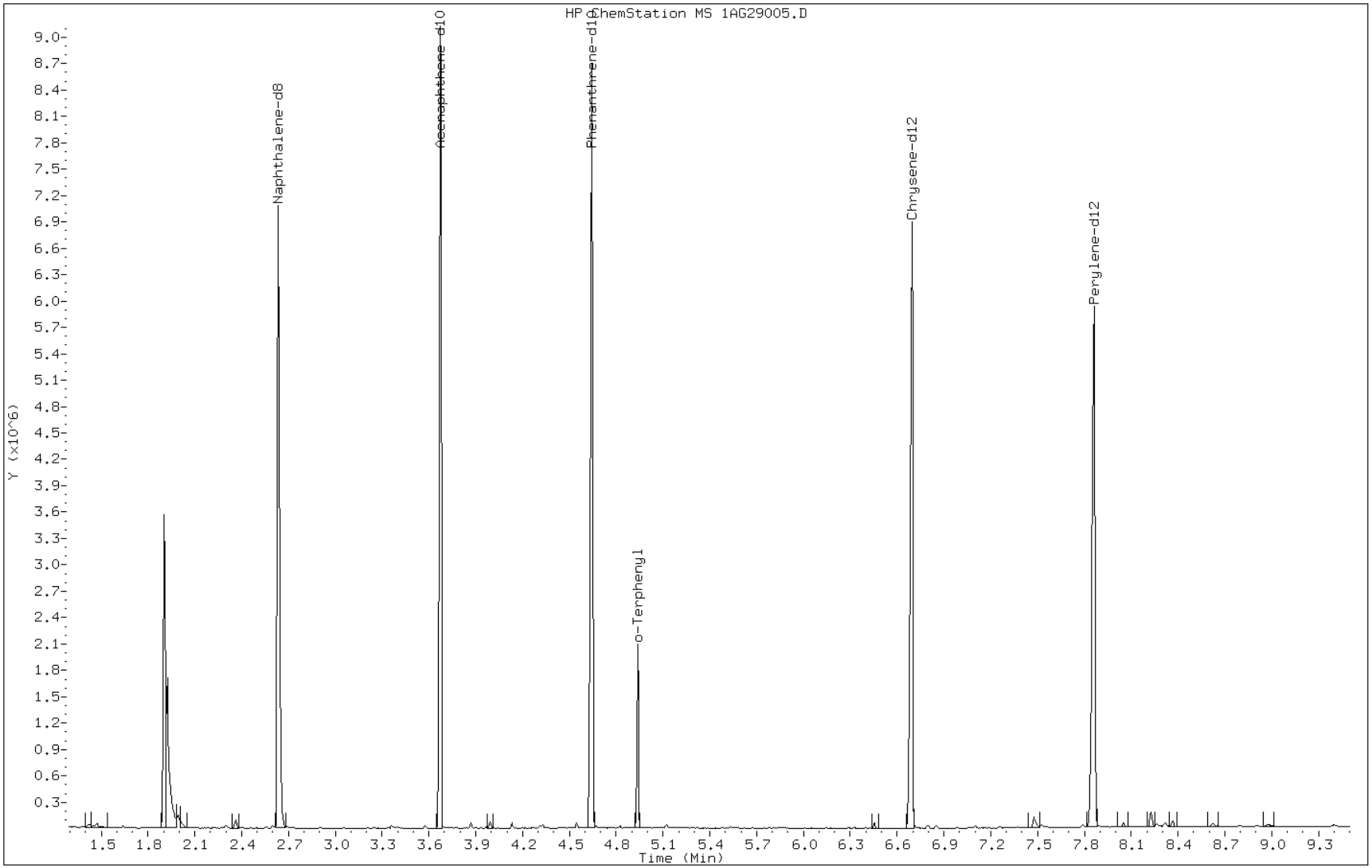
						CONCENTRATIONS	
	QUANT SIG					ON-COLUMN	FINAL
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/ml)	(ug/Kg)
* 1 Naphthalene-d8	136	2.634	2.640	(1.000)	3098826	40.0000	
* 7 Acenaphthene-d10	164	3.676	3.671	(1.000)	1889198	40.0000	
* 11 Phenanthrene-d10	188	4.643	4.643	(1.000)	2877360	40.0000	
$ 15 o-Terphenyl	230	4.937	4.937	(1.063)	306599	7.01222	465.0012
* 19 Chrysene-d12	240	6.694	6.689	(1.000)	2858266	40.0000	
* 24 Perylene-d12	264	7.864	7.795	(1.000)	2746342	40.0000	

Data File: 1AG29005.D

Date: 29-JUL-2013 13:03

Client ID: Instrument: BSMA5973.i

Sample Info: mb 660-139814/1-a Operator: SCC



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-92626-1

SDG No.: 680-92626-01

Client Sample ID: | Lab Sample ID: LCS 660-139814/2-A

Matrix: Solid | Lab File ID: 1AG29006.D

Analysis Method: 8270C LL | Date Collected:

Extract. Method: 3546 | Date Extracted: 07/26/2013 14:59

Sample wt/vol: 14.95(g) | Date Analyzed: 07/29/2013 13:18

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 139909 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	386		100	20
208-96-8	Acenaphthylene	383		40	5.0
120-12-7	Anthracene	379		8.4	4.2
56-55-3	Benzo[a]anthracene	364		8.0	3.9
50-32-8	Benzo[a]pyrene	377		10	5.2
205-99-2	Benzo[b]fluoranthene	381		12	6.1
191-24-2	Benzo[g,h,i]perylene	355		20	4.4
207-08-9	Benzo[k]fluoranthene	377		8.0	3.6
218-01-9	Chrysene	359		9.0	4.5
53-70-3	Dibenz(a,h)anthracene	344		20	4.1
206-44-0	Fluoranthene	382		20	4.0
86-73-7	Fluorene	393		20	4.1
193-39-5	Indeno[1,2,3-cd]pyrene	352		20	7.1
90-12-0	1-Methylnaphthalene	385		40	4.4
91-57-6	2-Methylnaphthalene	402		40	7.1
91-20-3	Naphthalene	379		40	4.4
85-01-8	Phenanthrene	380		8.0	3.9
129-00-0	Pyrene	359		20	3.7

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	58		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A072913.b\1AG29006.D
Lab Smp Id: lcs 660-139814/2-a
Inj Date : 29-JUL-2013 13:18
Operator : SCC Inst ID: BSMA5973.i
Smp Info : lcs 660-139814/2-a
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A072913.b\a-bFASTPAHi-m.m
Meth Date : 29-Jul-2013 12:10 cantins Quant Type: ISTD
Cal Date : 07-JUL-2013 15:46 Cal File: 1AG07012.D
Als bottle: 6 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14

Concentration Formula:
Amt * DF * 1/Vi * Vt/Ws * 100/(100 - M) * A * B * C * D * GPC * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.950	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
*	1 Naphthalene-d8	136	2.637	2.640	(1.000)	3971237	40.0000	
*	7 Acenaphthene-d10	164	3.673	3.671	(1.000)	2205743	40.0000	
*	11 Phenanthrene-d10	188	4.640	4.643	(1.000)	3565564	40.0000	
$	15 o-Terphenyl	230	4.934	4.937	(1.063)	316417	5.83997	390.6333
*	19 Chrysene-d12	240	6.686	6.689	(1.000)	3505504	40.0000	
*	24 Perylene-d12	264	7.792	7.795	(1.000)	3476096	40.0000	
	2 Naphthalene	128	2.648	2.650	(1.004)	508199	5.66394	378.8590
	3 2-Methylnaphthalene	141	3.054	3.056	(1.158)	307920	6.01515	402.3511
	4 1-Methylnaphthalene	142	3.107	3.110	(1.178)	344037	5.75560	384.9896
	6 Acenaphthylene	152	3.583	3.585	(0.975)	564022	5.73227	383.4293
	8 Acenaphthene	154	3.689	3.692	(1.004)	297349	5.76687	385.7438
	10 Fluorene	166	4.005	4.013	(1.090)	405416	5.87658	393.0820
	12 Phenanthrene	178	4.656	4.659	(1.003)	515451	5.68012	379.9413
	13 Anthracene	178	4.688	4.691	(1.010)	535651	5.66057	378.6337
	16 Fluoranthene	202	5.527	5.535	(1.191)	624035	5.71479	382.2600

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
17 Pyrene	202	5.698	5.701	(0.852)	625870	5.36302	358.7301
18 Benzo(a)anthracene	228	6.670	6.673	(0.998)	616943	5.44043	363.9086
20 Chrysene	228	6.702	6.705	(1.002)	509675	5.36709	359.0028
21 Benzo(b)fluoranthene	252	7.498	7.506	(0.962)	563506	5.69471	380.9171
22 Benzo(k)fluoranthene	252	7.520	7.533	(0.965)	575477	5.63250	376.7556
23 Benzo(a)pyrene	252	7.733	7.741	(0.992)	515824	5.63680	377.0437
25 Indeno(1,2,3-cd)pyrene	276	8.599	8.617	(1.104)	419565	5.25826	351.7232
26 Dibenzo(a,h)anthracene	278	8.626	8.644	(1.107)	387833	5.14077	343.8642
27 Benzo(g,h,i)perylene	276	8.839	8.858	(1.134)	401415	5.30613	354.9250

Data File: 1AG29006.D

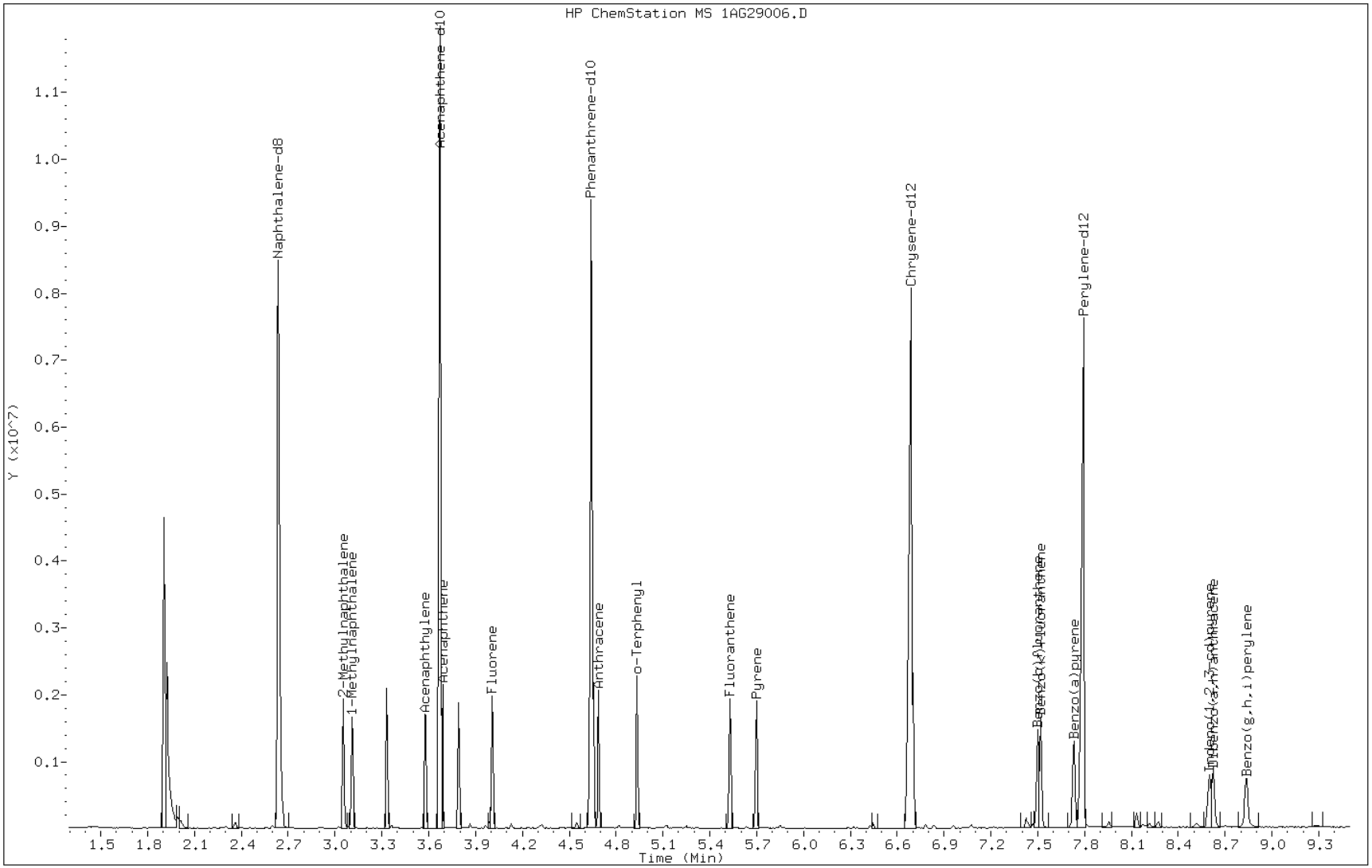
Date: 29-JUL-2013 13:18

Client ID:

Instrument: BSMA5973.i

Sample Info: lcs 660-139814/2-a

Operator: SCC



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-92626-1

SDG No.: 680-92626-01

Client Sample ID: CV0256A-VGSO-CS MS | Lab Sample ID: 680-92626-1 MS

Matrix: Solid | Lab File ID: 1AG29008.D

Analysis Method: 8270C LL | Date Collected: 07/23/2013 11:35

Extract. Method: 3546 | Date Extracted: 07/26/2013 14:59

Sample wt/vol: 14.99(g) | Date Analyzed: 07/29/2013 13:48

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 24.5 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 139909 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	381		130	27
208-96-8	Acenaphthylene	328		53	6.6
120-12-7	Anthracene	491		11	5.6
56-55-3	Benzo[a]anthracene	561		11	5.2
50-32-8	Benzo[a]pyrene	356		14	6.9
205-99-2	Benzo[b]fluoranthene	525		16	8.1
191-24-2	Benzo[g,h,i]perylene	448		27	5.8
207-08-9	Benzo[k]fluoranthene	335		11	4.8
218-01-9	Chrysene	1130		12	6.0
53-70-3	Dibenz(a,h)anthracene	417		27	5.4
206-44-0	Fluoranthene	650		27	5.3
86-73-7	Fluorene	401		27	5.4
193-39-5	Indeno[1,2,3-cd]pyrene	403		27	9.4
90-12-0	1-Methylnaphthalene	832		53	5.8
91-57-6	2-Methylnaphthalene	1390		53	9.4
91-20-3	Naphthalene	1260		53	5.8
85-01-8	Phenanthrene	3130		11	5.2
129-00-0	Pyrene	654		27	4.9

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	46		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A072913.b\1AG29008.D
Lab Smp Id: 680-92626-a-1-b ms
Inj Date : 29-JUL-2013 13:48
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-92626-a-1-b ms
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A072913.b\a-bFASTPAHi-m.m
Meth Date : 29-Jul-2013 12:10 cantins Quant Type: ISTD
Cal Date : 07-JUL-2013 15:46 Cal File: 1AG07012.D
Als bottle: 8 QC Sample: MS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14

Concentration Formula:
Amt * DF * 1/Vi * Vt/Ws * 100/(100 - M) * A * B * C * D * GPC * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.990	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
*	1 Naphthalene-d8	136	2.644	2.640	(1.000)	3046605	40.0000	
*	7 Acenaphthene-d10	164	3.676	3.671	(1.000)	1854045	40.0000	
*	11 Phenanthrene-d10	188	4.653	4.643	(1.000)	2701224	40.0000	
$	15 o-Terphenyl	230	4.947	4.937	(1.063)	189276	4.61120	307.6183
*	19 Chrysene-d12	240	6.710	6.689	(1.000)	2923636	40.0000	
*	24 Perylene-d12	264	7.837	7.795	(1.000)	3799790	40.0000	(H)
	2 Naphthalene	128	2.655	2.650	(1.004)	978961	14.2220	948.7647(R)
	3 2-Methylnaphthalene	141	3.061	3.056	(1.158)	615904	15.6831	1046.2358(R)
	4 1-Methylnaphthalene	142	3.115	3.110	(1.178)	431847	9.41726	628.2362
	6 Acenaphthylene	152	3.585	3.585	(0.975)	307399	3.71679	247.9510(R)
	8 Acenaphthene	154	3.692	3.692	(1.004)	187040	4.31562	287.8996
	10 Fluorene	166	4.012	4.013	(1.092)	263104	4.53718	302.6801
	12 Phenanthrene	178	4.669	4.659	(1.003)	2436761	35.4447	2364.5543(R)
	13 Anthracene	178	4.701	4.691	(1.010)	398156	5.55392	370.5082
	16 Fluoranthene	202	5.551	5.535	(1.193)	609126	7.36319	491.2067

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
17 Pyrene	202	5.722	5.701	(0.853)	721027	7.40804	494.1991
18 Benzo(a)anthracene	228	6.699	6.673	(0.998)	599391	6.35472	423.9308
20 Chrysene	228	6.726	6.705	(1.002)	1011544	12.7720	852.0323
21 Benzo(b)fluoranthene	252	7.538	7.506	(0.962)	643192	5.94629	396.6837(H)
22 Benzo(k)fluoranthene	252	7.554	7.533	(0.964)	423876	3.79528	253.1875(H)
23 Benzo(a)pyrene	252	7.773	7.741	(0.992)	403631	4.03504	269.1822(RH)
25 Indeno(1,2,3-cd)pyrene	276	8.670	8.617	(1.106)	397801	4.56080	304.2562(MH)
26 Dibenzo(a,h)anthracene	278	8.697	8.644	(1.110)	389418	4.72206	315.0141(H)
27 Benzo(g,h,i)perylene	276	8.921	8.858	(1.138)	419317	5.07059	338.2651(H)

QC Flag Legend

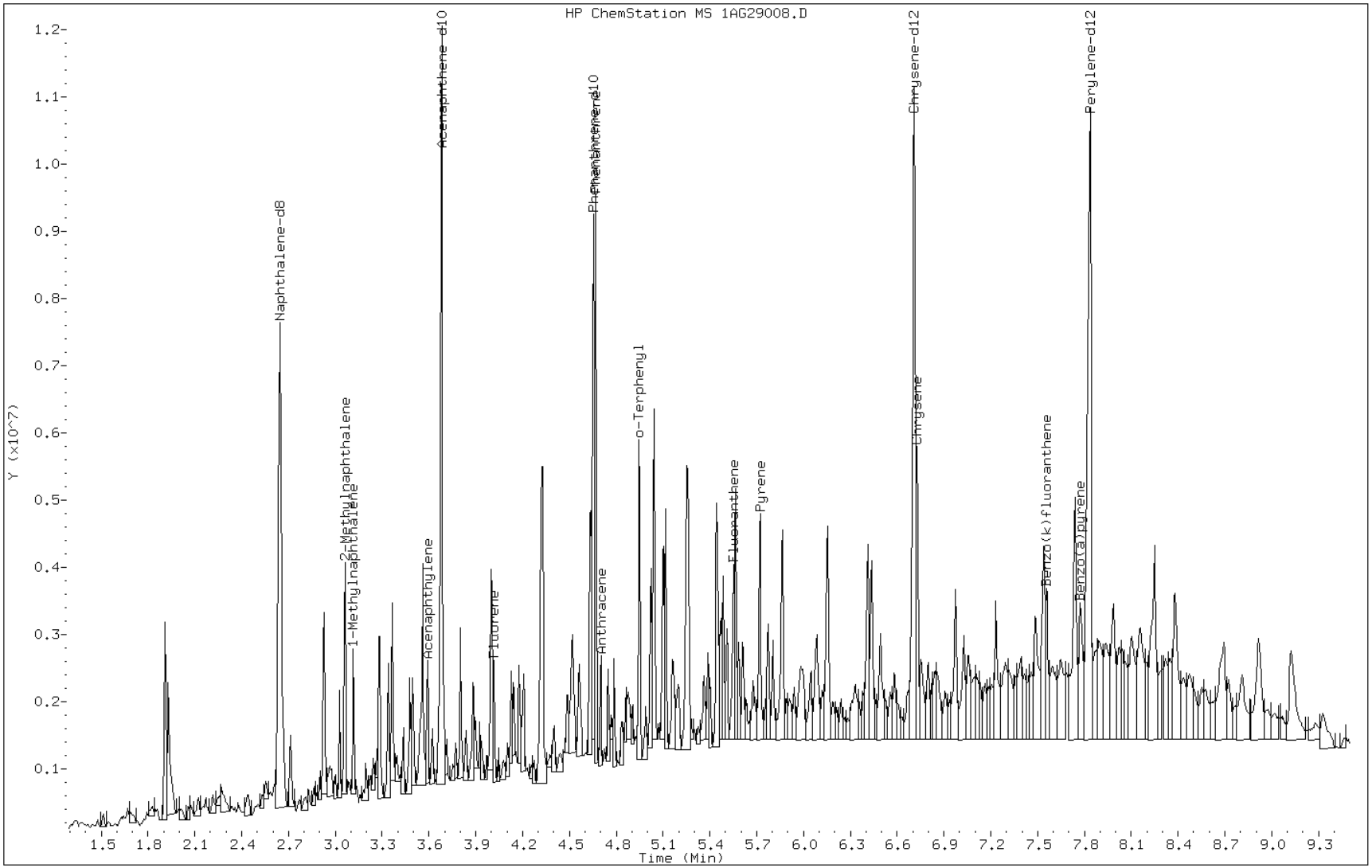
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1AG29008.D

Date: 29-JUL-2013 13:48

Client ID: Instrument: BSMA5973.i

Sample Info: 680-92626-a-1-b ms Operator: SCC



Manual Integration Report

Data File: 1AG29008.D
Inj. Date and Time: 29-JUL-2013 13:48
Instrument ID: BSMA5973.i
Client ID:
Compound: 25 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 07/30/2013

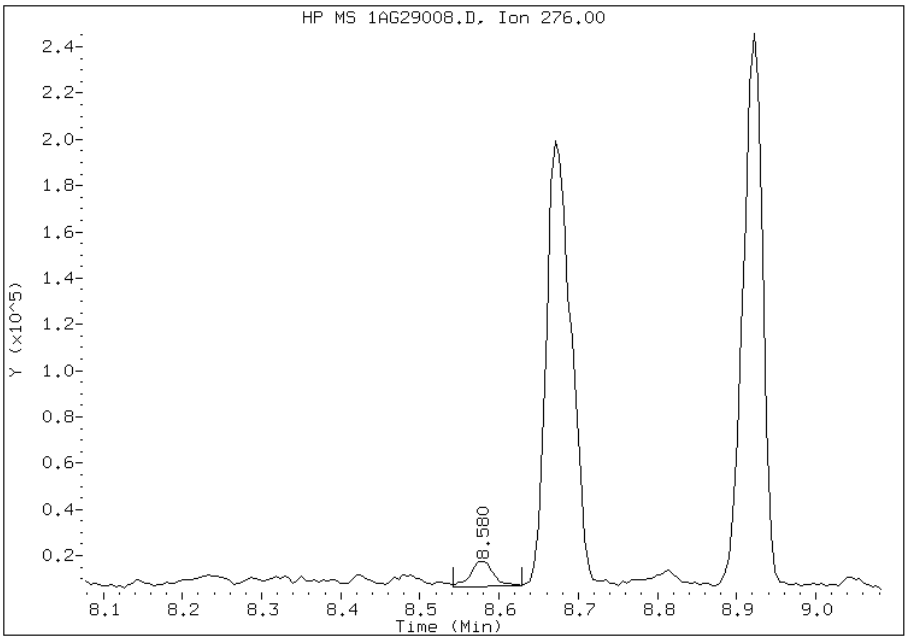
Processing Integration Results

RT: 8.58

Response: 21648

Amount: 0

Conc: 17



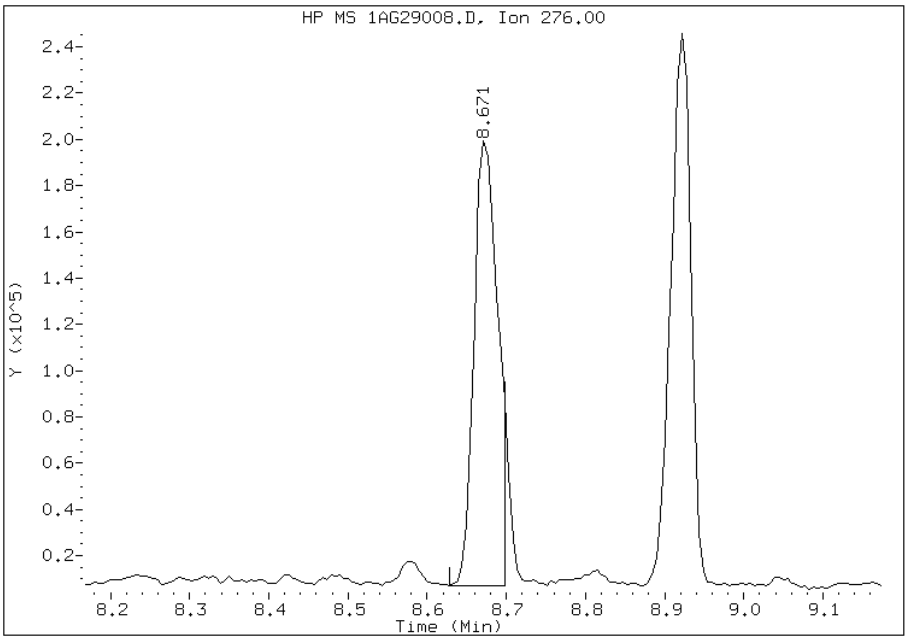
Manual Integration Results

RT: 8.67

Response: 397801

Amount: 5

Conc: 304



Manually Integrated By: cantins
Modification Date: 30-Jul-2013 12:32
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-92626-1

SDG No.: 680-92626-01

Client Sample ID: CV0256A-VGSO-CS MSD | Lab Sample ID: 680-92626-1 MSD

Matrix: Solid | Lab File ID: 1AG29009.D

Analysis Method: 8270C LL | Date Collected: 07/23/2013 11:35

Extract. Method: 3546 | Date Extracted: 07/26/2013 14:59

Sample wt/vol: 14.96(g) | Date Analyzed: 07/29/2013 14:03

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 24.5 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 139909 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	492		130	27
208-96-8	Acenaphthylene	403		53	6.6
120-12-7	Anthracene	660		11	5.6
56-55-3	Benzo[a]anthracene	849		11	5.2
50-32-8	Benzo[a]pyrene	560		14	6.9
205-99-2	Benzo[b]fluoranthene	898		16	8.1
191-24-2	Benzo[g,h,i]perylene	524		27	5.8
207-08-9	Benzo[k]fluoranthene	489		11	4.8
218-01-9	Chrysene	1800		12	6.0
53-70-3	Dibenz(a,h)anthracene	563		27	5.4
206-44-0	Fluoranthene	1010		27	5.3
86-73-7	Fluorene	517		27	5.4
193-39-5	Indeno[1,2,3-cd]pyrene	512		27	9.4
90-12-0	1-Methylnaphthalene	1190		53	5.8
91-57-6	2-Methylnaphthalene	1950		53	9.4
91-20-3	Naphthalene	1600		53	5.8
85-01-8	Phenanthrene	4760		11	5.2
129-00-0	Pyrene	881		27	4.9

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	58		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A072913.b\1AG29009.D
Lab Smp Id: 680-92626-a-1-c msd
Inj Date : 29-JUL-2013 14:03
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-92626-a-1-c msd
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A072913.b\a-bFASTPAHi-m.m
Meth Date : 29-Jul-2013 12:10 cantins Quant Type: ISTD
Cal Date : 07-JUL-2013 15:46 Cal File: 1AG07012.D
Als bottle: 9 QC Sample: MSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14

Concentration Formula:
Amt * DF * 1/Vi * Vt/Ws * 100/(100 - M) * A * B * C * D * GPC * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.960	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
*	1 Naphthalene-d8	136	2.644	2.640	(1.000)	3093930	40.0000	
*	7 Acenaphthene-d10	164	3.681	3.671	(1.000)	1864643	40.0000	
*	11 Phenanthrene-d10	188	4.658	4.643	(1.000)	2855769	40.0000	
$	15 o-Terphenyl	230	4.952	4.937	(1.063)	252549	5.81971	389.0181
*	19 Chrysene-d12	240	6.726	6.689	(1.000)	3608397	40.0000	(H)
*	24 Perylene-d12	264	7.837	7.795	(1.000)	4764488	40.0000	(H)
	2 Naphthalene	128	2.655	2.650	(1.004)	1260514	18.0322	1205.3592(R)
	3 2-Methylnaphthalene	141	3.061	3.056	(1.158)	878491	22.0273	1472.4127(R)
	4 1-Methylnaphthalene	142	3.120	3.110	(1.180)	627701	13.4789	900.9934(R)
	6 Acenaphthylene	152	3.590	3.585	(0.975)	378677	4.55259	304.3175
	8 Acenaphthene	154	3.697	3.692	(1.004)	242286	5.55855	371.5605
	10 Fluorene	166	4.017	4.013	(1.091)	340543	5.83922	390.3220
	12 Phenanthrene	178	4.680	4.659	(1.005)	3905312	53.7318	3591.6967(AR)
	13 Anthracene	178	4.706	4.691	(1.010)	564961	7.45422	498.2767
	16 Fluoranthene	202	5.561	5.535	(1.194)	994567	11.3718	760.1490

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
17 Pyrene	202	5.732	5.701	(0.852)	1195438	9.95149	665.2065(H)
18 Benzo(a)anthracene	228	6.715	6.673	(0.998)	1110758	9.59348	641.2757(H)
20 Chrysene	228	6.742	6.705	(1.002)	1985291	20.3098	1357.6083(RH)
21 Benzo(b)fluoranthene	252	7.548	7.506	(0.963)	1376304	10.1476	678.3151(MH)
22 Benzo(k)fluoranthene	252	7.564	7.533	(0.965)	773603	5.52417	369.2624(MH)
23 Benzo(a)pyrene	252	7.778	7.741	(0.993)	793355	6.32520	422.8076(H)
25 Indeno(1,2,3-cd)pyrene	276	8.686	8.617	(1.108)	632965	5.78760	386.8714(MH)
26 Dibenzo(a,h)anthracene	278	8.702	8.644	(1.110)	657395	6.35749	424.9656(H)
27 Benzo(g,h,i)perylene	276	8.937	8.858	(1.140)	614327	5.92460	396.0296(H)

QC Flag Legend

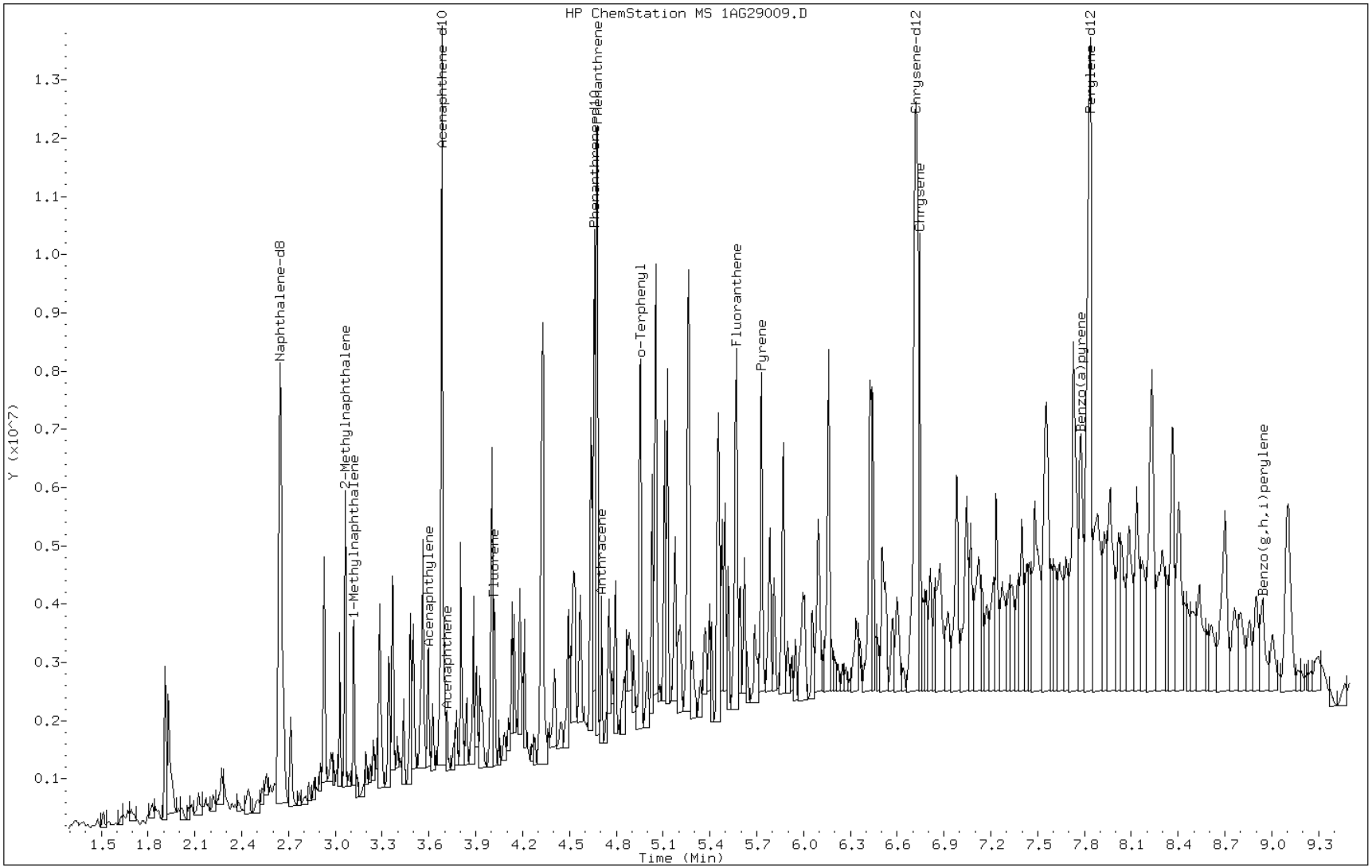
A - Target compound detected but, quantitated amount exceeded maximum amount.
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1AG29009.D

Date: 29-JUL-2013 14:03

Client ID: Instrument: BSMA5973.i

Sample Info: 680-92626-a-1-c msd Operator: SCC



Manual Integration Report

Data File: 1AG29009.D
Inj. Date and Time: 29-JUL-2013 14:03
Instrument ID: BSMA5973.i
Client ID:
Compound: 21 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 07/30/2013

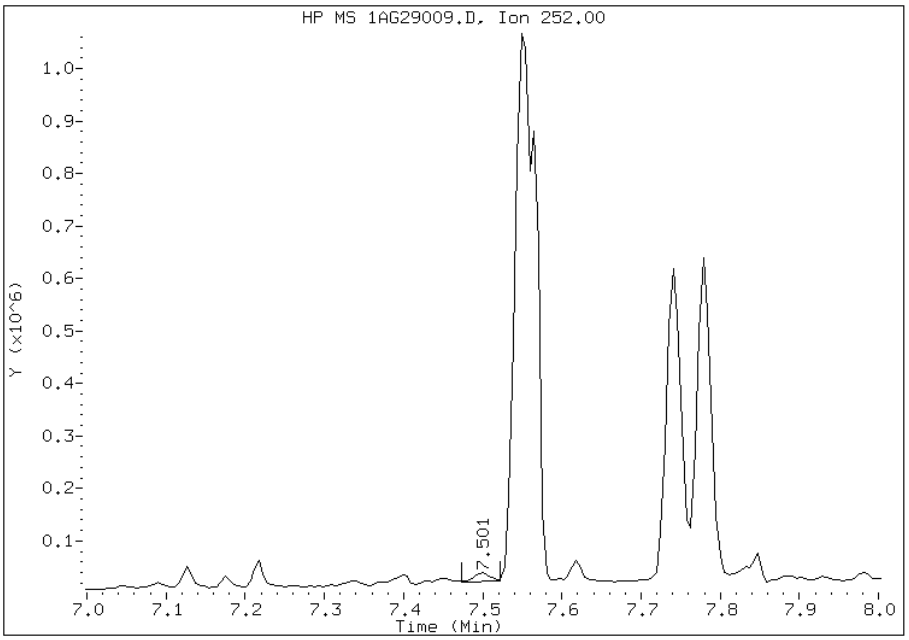
Processing Integration Results

RT: 7.50

Response: 22627

Amount: 0

Conc: 11



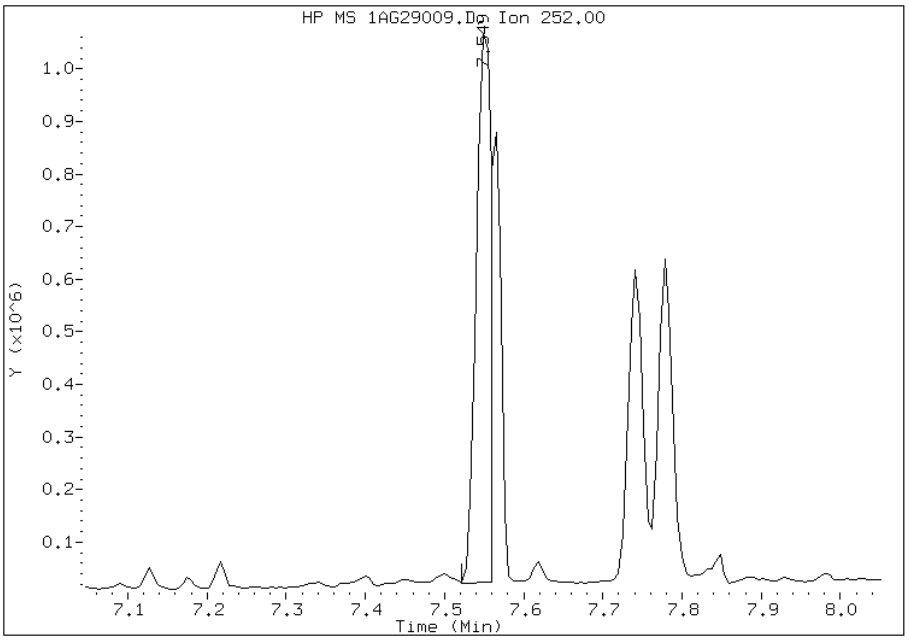
Manual Integration Results

RT: 7.55

Response: 1376304

Amount: 10

Conc: 678



Manually Integrated By: cantins
Modification Date: 30-Jul-2013 12:34
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AG29009.D
Inj. Date and Time: 29-JUL-2013 14:03
Instrument ID: BSMA5973.i
Client ID:
Compound: 22 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 07/30/2013

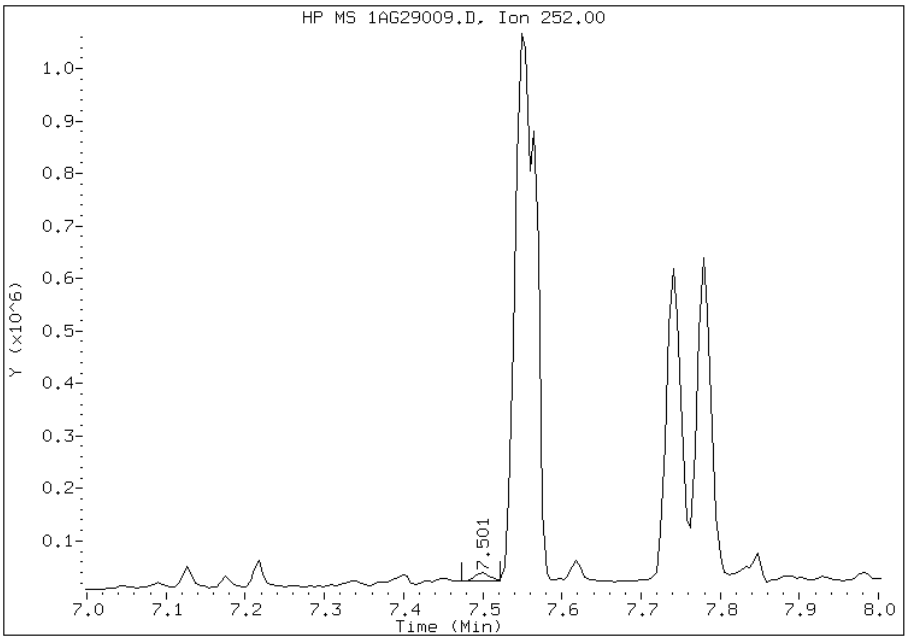
Processing Integration Results

RT: 7.50

Response: 20485

Amount: 0

Conc: 10



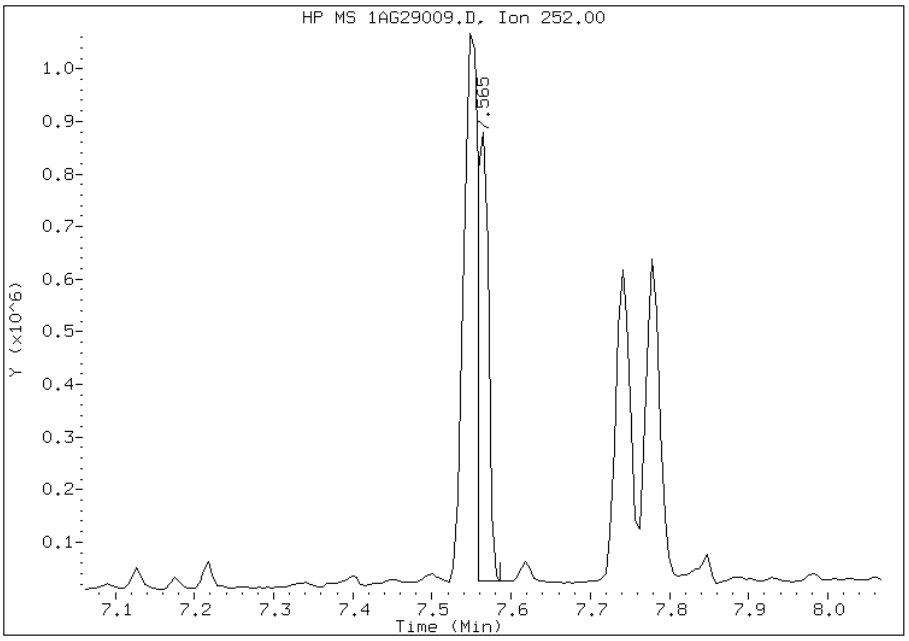
Manual Integration Results

RT: 7.56

Response: 773603

Amount: 6

Conc: 369



Manually Integrated By: cantins
Modification Date: 30-Jul-2013 12:35
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AG29009.D
Inj. Date and Time: 29-JUL-2013 14:03
Instrument ID: BSMA5973.i
Client ID:
Compound: 25 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 07/30/2013

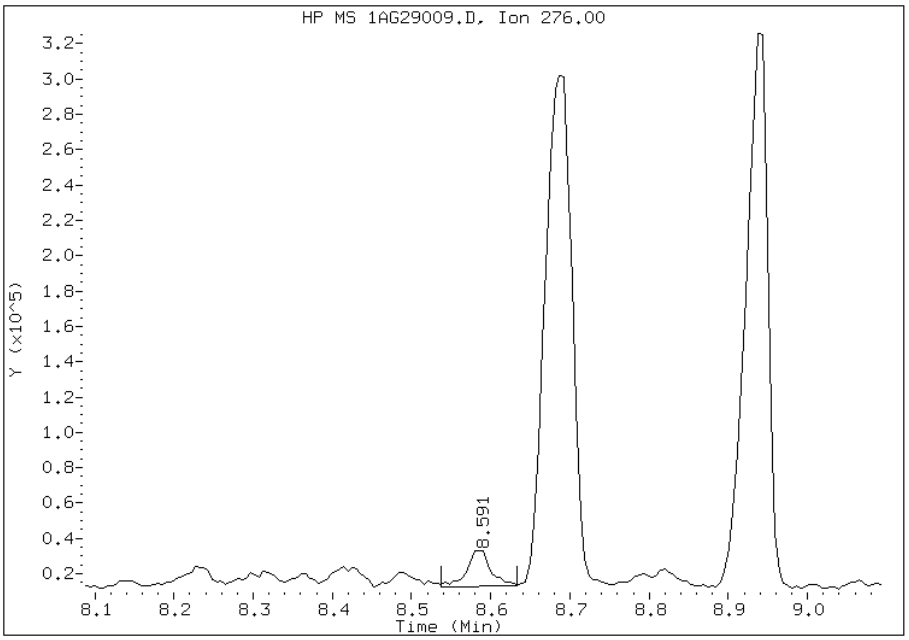
Processing Integration Results

RT: 8.59

Response: 42072

Amount: 0

Conc: 26



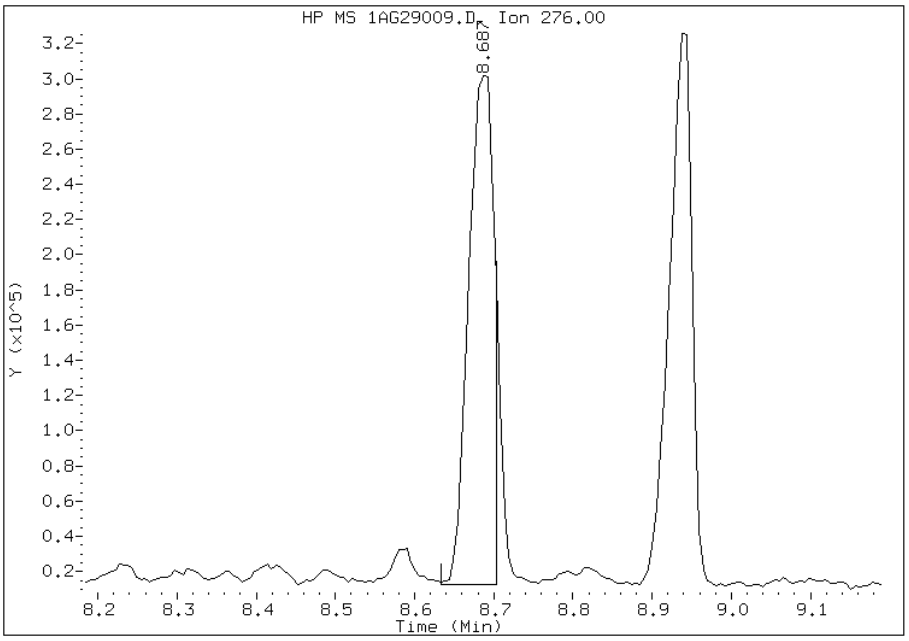
Manual Integration Results

RT: 8.69

Response: 632965

Amount: 6

Conc: 387



Manually Integrated By: cantins
Modification Date: 30-Jul-2013 12:35
Manual Integration Reason: Split Peak

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-92626-1

SDG No.: 680-92626-01

Instrument ID: BSMA5973 Start Date: 07/07/2013 10:26

Analysis Batch Number: 139145 End Date: 07/07/2013 20:39

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		07/07/2013 10:26	1		DB-5MS 250(um)
ZZZZZ		07/07/2013 10:44	1		DB-5MS 250(um)
DFTPP 660-139145/2		07/07/2013 10:59	1		DB-5MS 250(um)
CCVIS 660-139145/3		07/07/2013 11:14	1		DB-5MS 250(um)
ZZZZZ		07/07/2013 13:22	1		DB-5MS 250(um)
ZZZZZ		07/07/2013 13:38	1		DB-5MS 250(um)
DFTPP 660-139145/6		07/07/2013 13:53	1	1AG07005.D	DB-5MS 250(um)
ICIS 660-139145/7		07/07/2013 14:06	1	1AG07006.D	DB-5MS 250(um)
IC 660-139145/8		07/07/2013 14:31	1	1AG07007.D	DB-5MS 250(um)
IC 660-139145/9		07/07/2013 14:46	1	1AG07008.D	DB-5MS 250(um)
IC 660-139145/10		07/07/2013 15:01	1	1AG07009.D	DB-5MS 250(um)
IC 660-139145/11		07/07/2013 15:16	1	1AG07010.D	DB-5MS 250(um)
IC 660-139145/12		07/07/2013 15:31	1	1AG07011.D	DB-5MS 250(um)
IC 660-139145/13		07/07/2013 15:46	1	1AG07012.D	DB-5MS 250(um)
ICV 660-139145/14		07/07/2013 16:01	1	1AG07013.D	DB-5MS 250(um)
ZZZZZ		07/07/2013 16:54	1		DB-5MS 250(um)
ZZZZZ		07/07/2013 17:09	1		DB-5MS 250(um)
ZZZZZ		07/07/2013 17:23	1		DB-5MS 250(um)
ZZZZZ		07/07/2013 17:39	1		DB-5MS 250(um)
ZZZZZ		07/07/2013 17:54	1		DB-5MS 250(um)
ZZZZZ		07/07/2013 18:09	1		DB-5MS 250(um)
ZZZZZ		07/07/2013 18:24	1		DB-5MS 250(um)
ZZZZZ		07/07/2013 18:39	1		DB-5MS 250(um)
ZZZZZ		07/07/2013 18:54	1		DB-5MS 250(um)
ZZZZZ		07/07/2013 19:09	1		DB-5MS 250(um)
ZZZZZ		07/07/2013 19:24	1		DB-5MS 250(um)
ZZZZZ		07/07/2013 19:39	1		DB-5MS 250(um)
ZZZZZ		07/07/2013 19:54	1		DB-5MS 250(um)
ZZZZZ		07/07/2013 20:09	1		DB-5MS 250(um)
ZZZZZ		07/07/2013 20:24	1		DB-5MS 250(um)
ZZZZZ		07/07/2013 20:39	1		DB-5MS 250(um)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-92626-1

SDG No.: 680-92626-01

Instrument ID: BSMA5973 Start Date: 07/29/2013 11:13

Analysis Batch Number: 139909 End Date: 07/29/2013 16:47

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		07/29/2013 11:13	1		DB-5MS 250(um)
ZZZZZ		07/29/2013 11:28	1		DB-5MS 250(um)
DFTPP 660-139909/2		07/29/2013 11:43	1	1AG29002.D	DB-5MS 250(um)
CCVIS 660-139909/3		07/29/2013 11:57	1	1AG29003.D	DB-5MS 250(um)
ZZZZZ		07/29/2013 12:13	1		DB-5MS 250(um)
MB 660-139814/1-A		07/29/2013 13:03	1	1AG29005.D	DB-5MS 250(um)
LCS 660-139814/2-A		07/29/2013 13:18	1	1AG29006.D	DB-5MS 250(um)
680-92626-1	CV0256A-VGSO-CS	07/29/2013 13:33	1	1AG29007.D	DB-5MS 250(um)
680-92626-1 MS	CV0256A-VGSO-CS MS	07/29/2013 13:48	1	1AG29008.D	DB-5MS 250(um)
680-92626-1 MSD	CV0256A-VGSO-CS MSD	07/29/2013 14:03	1	1AG29009.D	DB-5MS 250(um)
ZZZZZ		07/29/2013 14:18	1		DB-5MS 250(um)
680-92626-3	HP0306A-VGSO-CS	07/29/2013 15:16	1	1AG29011.D	DB-5MS 250(um)
680-92626-4	HP0306A-VGSO-CSD	07/29/2013 15:31	1	1AG29012.D	DB-5MS 250(um)
680-92626-5	CV0827A-VGSO-CS	07/29/2013 15:46	4	1AG29013.D	DB-5MS 250(um)
680-92626-6	CV0453A-VGSO-CS	07/29/2013 16:02	1	1AG29014.D	DB-5MS 250(um)
680-92626-7	CV0272A-VGSO-CS	07/29/2013 16:17	1	1AG29015.D	DB-5MS 250(um)
680-92626-8	CV0083A-VGSO-CS	07/29/2013 16:32	4	1AG29016.D	DB-5MS 250(um)
ZZZZZ		07/29/2013 16:47	1		DB-5MS 250(um)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-92626-1

SDG No.: 680-92626-01

Instrument ID: BSMA5973 Start Date: 07/30/2013 12:16

Analysis Batch Number: 139910 End Date: 07/30/2013 22:56

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		07/30/2013 12:16	1		DB-5MS 250(um)
ZZZZZ		07/30/2013 12:31	1		DB-5MS 250(um)
DFTPP 660-139910/2		07/30/2013 12:46	1		DB-5MS 250(um)
CCVIS 660-139910/3		07/30/2013 12:59	1		DB-5MS 250(um)
ZZZZZ		07/30/2013 14:55	1		DB-5MS 250(um)
DFTPP 660-139910/6		07/30/2013 15:10	1	1AG30005.D	DB-5MS 250(um)
CCVIS 660-139910/7		07/30/2013 15:24	1	1AG30006.D	DB-5MS 250(um)
ZZZZZ		07/30/2013 15:42	1		DB-5MS 250(um)
ZZZZZ		07/30/2013 16:10	1		DB-5MS 250(um)
ZZZZZ		07/30/2013 16:25	1		DB-5MS 250(um)
ZZZZZ		07/30/2013 16:40	1		DB-5MS 250(um)
ZZZZZ		07/30/2013 16:56	1		DB-5MS 250(um)
ZZZZZ		07/30/2013 17:10	1		DB-5MS 250(um)
ZZZZZ		07/30/2013 17:25	1		DB-5MS 250(um)
ZZZZZ		07/30/2013 17:40	1		DB-5MS 250(um)
ZZZZZ		07/30/2013 17:55	1		DB-5MS 250(um)
ZZZZZ		07/30/2013 18:11	1		DB-5MS 250(um)
ZZZZZ		07/30/2013 18:26	1		DB-5MS 250(um)
ZZZZZ		07/30/2013 18:41	1		DB-5MS 250(um)
ZZZZZ		07/30/2013 18:56	1		DB-5MS 250(um)
ZZZZZ		07/30/2013 19:11	1		DB-5MS 250(um)
ZZZZZ		07/30/2013 19:26	1		DB-5MS 250(um)
ZZZZZ		07/30/2013 19:41	1		DB-5MS 250(um)
ZZZZZ		07/30/2013 19:56	1		DB-5MS 250(um)
ZZZZZ		07/30/2013 20:11	1		DB-5MS 250(um)
ZZZZZ		07/30/2013 20:26	1		DB-5MS 250(um)
ZZZZZ		07/30/2013 20:41	1		DB-5MS 250(um)
ZZZZZ		07/30/2013 20:56	1		DB-5MS 250(um)
ZZZZZ		07/30/2013 21:11	1		DB-5MS 250(um)
ZZZZZ		07/30/2013 21:26	1		DB-5MS 250(um)
ZZZZZ		07/30/2013 21:41	1		DB-5MS 250(um)
ZZZZZ		07/30/2013 21:56	1		DB-5MS 250(um)
ZZZZZ		07/30/2013 22:11	1		DB-5MS 250(um)
ZZZZZ		07/30/2013 22:26	1		DB-5MS 250(um)
680-92626-2	CV0256A-VGSO-CSD	07/30/2013 22:41	4	1AG30034.D	DB-5MS 250(um)
ZZZZZ		07/30/2013 22:56	4		DB-5MS 250(um)

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-92626-1

SDG No.: 680-92626-01

Batch Number: 139814 Batch Start Date: 07/26/13 14:59 Batch Analyst: Nolan, Ryan

Batch Method: 3546 Batch End Date: 07/29/13 10:44

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	EX-8270LL SPK 00001	EXLLSURINT 00185		
MB 660-139814/1		3546, 8270C LL		15.08 g	1 mL		1 mL		
LCS 660-139814/2		3546, 8270C LL		14.95 g	1 mL	1 mL	1 mL		
680-92626-A-1	CV0256A-VGSO-CS	3546, 8270C LL	T	15.02 g	1 mL		1 mL		
680-92626-A-1 MS	CV0256A-VGSO-CS	3546, 8270C LL	T	14.99 g	1 mL	1 mL	1 mL		
680-92626-A-1 MSD	CV0256A-VGSO-CS	3546, 8270C LL	T	14.96 g	1 mL	1 mL	1 mL		
680-92626-A-2	CV0256A-VGSO-CSD	3546, 8270C LL	T	15.05 g	1 mL		1 mL		
680-92626-A-3	HP0306A-VGSO-CS	3546, 8270C LL	T	15.09 g	1 mL		1 mL		
680-92626-A-4	HP0306A-VGSO-CSD	3546, 8270C LL	T	14.96 g	1 mL		1 mL		
680-92626-A-5	CV0827A-VGSO-CS	3546, 8270C LL	T	15.03 g	1 mL		1 mL		
680-92626-A-6	CV0453A-VGSO-CS	3546, 8270C LL	T	14.99 g	1 mL		1 mL		
680-92626-A-7	CV0272A-VGSO-CS	3546, 8270C LL	T	15.15 g	1 mL		1 mL		
680-92626-A-8	CV0083A-VGSO-CS	3546, 8270C LL	T	15.05 g	1 mL		1 mL		

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-92626-1

SDG No.: 680-92626-01

Batch Number: 139814 Batch Start Date: 07/26/13 14:59 Batch Analyst: Nolan, Ryan

Batch Method: 3546 Batch End Date: 07/29/13 10:44

Batch Notes	
Acetone Lot #	ID:EX-ACETON BOT_00025(1509373)
Balance ID	B001
Batch Comment	NO COMMENT
Person's name who did the concentration	RYAN NOLAN
Exchange Solvent Lot #	ex-mc cycl 57
Exchange Solvent Name	dcm
Final Concentrator Volume	1 mL
MeCL2 Lot #	ID:EX-MC CYCL_00057(1551102)
MeCl2/Acetone Lot #	ID:DCM/ACETON_00097(1576428)
Microwave Start Time	16:30 7/26/13
Microwave Stop Time	17:05 7/26/13
MS Lot Number	680-92626-1
Na2SO4 Lot Number	EX-NA2SO4A_70
Ottawa Sand Lot #	ID:OTTAWA SAND_00022(1576429)
Person's name who did the prep	RYAN NOLAN
SOP Number	TP014
Person who witnessed spiking	SAUREL CEROME
Surrogate Lot Number	ID:EXLLSURINT_00185(1577486)
Water Bath ID	TURBO VAP # 1-4
Water Bath Temperature	40

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY

COVER PAGE
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job Number: 680-92626-1

SDG No.: 680-92626-01

Project: 35th Avenue Superfund Site

Client Sample ID	Lab Sample ID
CV0256A-VGSO-CS	680-92626-1
CV0256A-VGSO-CSD	680-92626-2
HP0306A-VGSO-CS	680-92626-3
HP0306A-VGSO-CSD	680-92626-4
CV0827A-VGSO-CS	680-92626-5
CV0453A-VGSO-CS	680-92626-6
CV0272A-VGSO-CS	680-92626-7
CV0083A-VGSO-CS	680-92626-8

Comments:

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job Number: 680-92626-1

SDG Number: 680-92626-01

Matrix: Solid Instrument ID: Moisture

Method: Moisture RL Date: 01/01/2004 18:10

Analyte	Wavelength/ Mass	RL (%)	
Percent Moisture		0.1	

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job Number: 680-92626-1

SDG Number: 680-92626-01

Matrix: Solid Instrument ID: Moisture

Method: Moisture XRL Date: 04/12/2010 08:14

Analyte	Wavelength/ Mass	XRL (%)	
Percent Moisture		0.1	

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job No.: 680-92626-1

SDG No.: 680-92626-01

Instrument ID: Moisture Method: Moisture

Start Date: 07/29/2013 06:20 End Date: 07/29/2013 10:23

Lab Sample ID	D / F	Type	Time	Analytes																				
				Moist																				
LCSD 660-139851/17	1	T	06:20	X																				
LCS 660-139851/1	1	T	06:20	X																				
ZZZZZZ			06:32																					
ZZZZZZ			06:41																					
ZZZZZZ			06:44																					
ZZZZZZ			06:55																					
ZZZZZZ			06:58																					
ZZZZZZ			07:17																					
ZZZZZZ			07:23																					
ZZZZZZ			07:34																					
ZZZZZZ			07:44																					
ZZZZZZ			08:53																					
ZZZZZZ			09:02																					
680-92626-1	1	T	10:05	X																				
ZZZZZZ			10:05																					
680-92626-1 MSD	1	T	10:19	X																				
680-92626-1 MS	1	T	10:23	X																				

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job No.: 680-92626-1

SDG No.: 680-92626-01

Instrument ID: Moisture Method: Moisture

Start Date: 07/29/2013 10:34 End Date: 07/29/2013 14:19

Lab Sample ID	D / F	Type	Time	Analytes																				
				Moist																				
ZZZZZZ			10:34																					
ZZZZZZ			10:36																					
680-92626-2	1	T	10:49	X																				
680-92626-3	1	T	10:52	X																				
680-92626-5	1	T	11:15	X																				
ZZZZZZ			11:17																					
680-92626-7	1	T	11:43	X																				
680-92626-6	1	T	11:55	X																				
680-92626-8	1	T	12:11	X																				
680-92626-4	1	T	12:22	X																				
ZZZZZZ			12:37																					
ZZZZZZ			12:47																					
ZZZZZZ			13:09																					
ZZZZZZ			13:11																					
ZZZZZZ			14:08																					
ZZZZZZ			14:09																					
ZZZZZZ			14:19																					

Prep Types
T = Total/NA

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-92626-1

SDG No.: 680-92626-01

Batch Number: 139851 Batch Start Date: 07/29/13 06:20 Batch Analyst: Galio, Andrew

Batch Method: Moisture Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	DishWeight	SampleMassWet	SampleMassDry			
LCS 660-139851/1		Moisture		0 g	10.059 g	9.014 g			
680-92626-A-1 MSD	CV0256A-VGSO-CS	Moisture		0 g	4.014 g	3.046 g			
680-92626-A-1 MS	CV0256A-VGSO-CS	Moisture		0 g	4.337 g	3.224 g			
680-92626-A-1	CV0256A-VGSO-CS	Moisture	T	0 g	4.987 g	3.766 g			
LCSD 660-139851/17		Moisture		0 g	10.048 g	9.013 g			

Batch Notes	
Oven ID	HB43-1, HB43-2

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-92626-1

SDG No.: 680-92626-01

Batch Number: 139871 Batch Start Date: 07/29/13 10:34 Batch Analyst: Galio, Andrew

Batch Method: Moisture Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	DishWeight	SampleMassWet	SampleMassDry			
680-92626-A-3	HP0306A-VGSO-CS	Moisture	T	0 g	4.77 g	3.835 g			
680-92626-A-6	CV0453A-VGSO-CS	Moisture	T	0 g	4.401 g	2.872 g			
680-92626-A-4	HP0306A-VGSO-CSD	Moisture	T	0 g	4.71 g	3.694 g			
680-92626-A-8	CV0083A-VGSO-CS	Moisture	T	0 g	4.309 g	3.578 g			
680-92626-A-7	CV0272A-VGSO-CS	Moisture	T	0 g	4.41 g	3.611 g			
680-92626-A-5	CV0827A-VGSO-CS	Moisture	T	0 g	4.641 g	3.206 g			
680-92626-A-2	CV0256A-VGSO-CSD	Moisture	T	0 g	4.581 g	3.468 g			

Batch Notes	
Oven ID	HB43-1, HB43-2

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Shipping and Receiving Documents

Serial Number 70199

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

○ TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

⊘ Alternate Laboratory Name/Location: TestAmerica Tampa
Phone: 680-92626
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
35th AVE	2005148-1356	AL

TAL (LAB) PROJECT MANAGER	P.O. NUMBER	CONTRACT NO.

CLIENT (SITE) PM	CLIENT PHONE	CLIENT FAX
Russell Henderson	678-355-5550	

CLIENT NAME	CLIENT E-MAIL
OTIE	rhenderson@otie.com

CLIENT ADDRESS: 1220 Kennestone Cir, Ste 106, Marietta, GA 30066
COMPANY CONTRACTING THIS WORK (if applicable):

PAGE 1 | 4 OF 4

STANDARD REPORT DELIVERY ⊘
DATE DUE
EXPEDITED REPORT DELIVERY (SURCHARGE) ○
DATE DUE
NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	MATRIX: COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	REQUIRED ANALYSIS: PAHs	Metals	Metals	PAHs	NUMBER OF CONTAINERS SUBMITTED: Ice	Ice	Ice	Ice	REMARKS
7/23/13	1135	CV0256A-V6S0-CS	C		Soil			X	X			3	3			
7/23/13	1135	CV0256A-V6S0-CSD	C		Soil			X	X			3	3			
7/23/13	1055	HP0306A-V6S0-CS	C		Soil			X	X			3	3			
7/23/13	1055	HP0306A-V6S0-CSD	C		Soil			X	X			3	3			
7/23/13	0945	CV0827A-V6S0-CS	C		Soil			X	X			3	3			
7/23/13	1325	CV0453A-V6S0-CS	C		Soil			X	X			3	3			
7/24/13	0940	CV0272A-V6S0-CS	C		Soil			X	X			3	3			
7/24/13	0855	CV0083A-V6S0-CS	C		Soil			X	X			3	3			
7/23/13	0948	HP0066A-WPM	G							1	[redacted]					Wipe sample
7/23/13	0950	HP0066A-WPP	G							[redacted]	1					Wipe Sample
7/23/13	1015	HP066B-WPM	G							1	[redacted]					Wipe Sample
7/23/13	1017	HP066B-WPP	G							[redacted]	1					Wipe Sample

680-92626-01 Chain of Custody

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
[signature]	7/24/13	1630						
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS
Carol McNulty	7/25/13	0855	YES ○ NO ○			5.8°C CA07

TAL-8240-680 (1008)

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08/06/2013

Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-92626-1
SDG Number: 680-92626-01

Login Number: 92626
List Source: TestAmerica Savannah
List Number: 1
Creator: Snead, Joshua

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-92626-1
SDG Number: 680-92626-01

Login Number: 92626
List Number: 1
Creator: McNulty, Carol

List Source: TestAmerica Tampa
List Creation: 07/30/13 11:07 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Tel: (912)354-7858

TestAmerica Job ID: 680-92626-1
TestAmerica Sample Delivery Group: 680-92626-01
Client Project/Site: 35th Avenue Superfund Site

For:
Oneida Total Integrated Enterprises LLC
1220 Kennestone Circle
Suite 106
Marietta, Georgia 30060

Attn: Ms. Limari F Krebs

Authorized for release by:
8/6/2013 3:27:18 PM

Lisa Harvey, Project Manager II
lisa.harvey@testamericainc.com

LINKS

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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Job ID: 680-92626-1

Laboratory: TestAmerica Savannah

Narrative

CASE NARRATIVE
Client: Oneida Total Integrated Enterprises LLC
Project: 35th Avenue Superfund Site
Report Number: 680-92626-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 07/25/2013; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 5.8 C.

SEMIVOLATILE ORGANIC COMPOUNDS BY GCMS - LOW LEVEL

Samples CV0256A-VGSO-CS (680-92626-1), CV0256A-VGSO-CSD (680-92626-2), HP0306A-VGSO-CS (680-92626-3), HP0306A-VGSO-CSD (680-92626-4), CV0827A-VGSO-CS (680-92626-5), CV0453A-VGSO-CS (680-92626-6), CV0272A-VGSO-CS (680-92626-7) and CV0083A-VGSO-CS (680-92626-8) were analyzed for Semivolatile Organic Compounds by GCMS - Low Level in accordance with EPA SW-846 Method 8270C.

Method(s) 8270C LL: The following samples were diluted due to the color of the extracts: CV0083A-VGSO-CS (680-92626-8), CV0827A-VGSO-CS (680-92626-5). Elevated reporting limits (RL) are provided. Batch: 139909.

Method(s) 8270C LL: The matrix spike / matrix spike duplicate (MS/MSD) percent recoveries and %RPD for batch 139909 were outside control limits. The recoveries were biased low. This is attributed to matrix interferences. The data has been qualified and reported.

Method(s) 8270C LL: The following sample was diluted due to the nature of the sample matrix: CV0256A-VGSO-CSD (680-92626-2). Elevated reporting limits (RLs) are provided. Batch: 139910.

Method(s) 8270C LL: Surrogate recovery for the following sample was outside control limits: CV0256A-VGSO-CSD (680-92626-2). The recovery was biased low. Evidence of matrix interference is present; therefore, re-extraction and re-analysis were not performed.

Samples CV0256A-VGSO-CSD (680-92626-2)[4X], CV0827A-VGSO-CS (680-92626-5)[4X] and CV0083A-VGSO-CS (680-92626-8)[4X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

PERCENT SOLIDS/MOISTURE

Samples CV0256A-VGSO-CS (680-92626-1), CV0256A-VGSO-CSD (680-92626-2), HP0306A-VGSO-CS (680-92626-3), HP0306A-VGSO-CSD (680-92626-4), CV0827A-VGSO-CS (680-92626-5), CV0453A-VGSO-CS (680-92626-6), CV0272A-VGSO-CS (680-92626-7) and CV0083A-VGSO-CS (680-92626-8) were analyzed for Percent Solids/Moisture in accordance with TestAmerica SOP.

Sample Summary

Client: Oneida Total Integrated Enterprises LLC
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-92626-1
SDG: 680-92626-01

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-92626-1	CV0256A-VGSO-CS	Solid	07/23/13 11:35	07/25/13 08:55
680-92626-2	CV0256A-VGSO-CSD	Solid	07/23/13 11:35	07/25/13 08:55
680-92626-3	HP0306A-VGSO-CS	Solid	07/23/13 10:55	07/25/13 08:55
680-92626-4	HP0306A-VGSO-CSD	Solid	07/23/13 10:55	07/25/13 08:55
680-92626-5	CV0827A-VGSO-CS	Solid	07/23/13 09:45	07/25/13 08:55
680-92626-6	CV0453A-VGSO-CS	Solid	07/23/13 13:25	07/25/13 08:55
680-92626-7	CV0272A-VGSO-CS	Solid	07/24/13 09:40	07/25/13 08:55
680-92626-8	CV0083A-VGSO-CS	Solid	07/24/13 08:55	07/25/13 08:55

Method Summary

Client: Oneida Total Integrated Enterprises LLC
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-92626-1
SDG: 680-92626-01

Method	Method Description	Protocol	Laboratory
8270C LL	Semivolatile Organic Compounds by GCMS - Low Levels	SW846	TAL TAM
Moisture	Percent Moisture	EPA	TAL TAM

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL TAM = TestAmerica Tampa, 6712 Benjamin Road, Suite 100, Tampa, FL 33634, TEL (813)885-7427

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
F	MS or MSD exceeds the control limits
4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
F	RPD of the MS and MSD exceeds the control limits
E	Result exceeded calibration range.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate is outside control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client: Oneida Total Integrated Enterprises LLC
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-92626-1
SDG: 680-92626-01

Client Sample ID: CV0256A-VGSO-CS

Lab Sample ID: 680-92626-1
Date Collected: 07/23/13 11:35
Matrix: Solid
Date Received: 07/25/13 08:55
Percent Solids: 75.5

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	130	U	130	26	ug/Kg	☼	07/26/13 14:59	07/29/13 13:33	1
Acenaphthylene	**56**		53	6.6	ug/Kg	☼	07/26/13 14:59	07/29/13 13:33	1
Anthracene	**210**		11	5.6	ug/Kg	☼	07/26/13 14:59	07/29/13 13:33	1
Benzo[a]anthracene	**440**		11	5.2	ug/Kg	☼	07/26/13 14:59	07/29/13 13:33	1
Benzo[a]pyrene	**160**		14	6.9	ug/Kg	☼	07/26/13 14:59	07/29/13 13:33	1
Benzo[b]fluoranthene	**440**		16	8.1	ug/Kg	☼	07/26/13 14:59	07/29/13 13:33	1
Benzo[g,h,i]perylene	**220**		26	5.8	ug/Kg	☼	07/26/13 14:59	07/29/13 13:33	1
Benzo[k]fluoranthene	**71**		11	4.8	ug/Kg	☼	07/26/13 14:59	07/29/13 13:33	1
Chrysene	**1400**		12	6.0	ug/Kg	☼	07/26/13 14:59	07/29/13 13:33	1
Dibenz(a,h)anthracene	**110**		26	5.4	ug/Kg	☼	07/26/13 14:59	07/29/13 13:33	1
Fluoranthene	**520**		26	5.3	ug/Kg	☼	07/26/13 14:59	07/29/13 13:33	1
Fluorene	**100**		26	5.4	ug/Kg	☼	07/26/13 14:59	07/29/13 13:33	1
Indeno[1,2,3-cd]pyrene	**90**		26	9.4	ug/Kg	☼	07/26/13 14:59	07/29/13 13:33	1
1-Methylnaphthalene	**910**		53	5.8	ug/Kg	☼	07/26/13 14:59	07/29/13 13:33	1
2-Methylnaphthalene	**1800**		53	9.4	ug/Kg	☼	07/26/13 14:59	07/29/13 13:33	1
Naphthalene	**1400**		53	5.8	ug/Kg	☼	07/26/13 14:59	07/29/13 13:33	1
Phenanthrene	**3700**		11	5.2	ug/Kg	☼	07/26/13 14:59	07/29/13 13:33	1
Pyrene	**630**		26	4.9	ug/Kg	☼	07/26/13 14:59	07/29/13 13:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*61*		*30 - 130*	*07/26/13 14:59*	*07/29/13 13:33*	*1*

Client Sample ID: CV0256A-VGSO-CSD

Lab Sample ID: 680-92626-2
Date Collected: 07/23/13 11:35
Matrix: Solid
Date Received: 07/25/13 08:55
Percent Solids: 75.7

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	530	U	530	110	ug/Kg	☼	07/26/13 14:59	07/30/13 22:41	4
Acenaphthylene	210	U	210	26	ug/Kg	☼	07/26/13 14:59	07/30/13 22:41	4
Anthracene	**82**		44	22	ug/Kg	☼	07/26/13 14:59	07/30/13 22:41	4
Benzo[a]anthracene	**160**		42	21	ug/Kg	☼	07/26/13 14:59	07/30/13 22:41	4
Benzo[a]pyrene	**60**		55	27	ug/Kg	☼	07/26/13 14:59	07/30/13 22:41	4
Benzo[b]fluoranthene	**140**		64	32	ug/Kg	☼	07/26/13 14:59	07/30/13 22:41	4
Benzo[g,h,i]perylene	**74**	**J**	110	23	ug/Kg	☼	07/26/13 14:59	07/30/13 22:41	4
Benzo[k]fluoranthene	**26**	**J**	42	19	ug/Kg	☼	07/26/13 14:59	07/30/13 22:41	4
Chrysene	**530**		47	24	ug/Kg	☼	07/26/13 14:59	07/30/13 22:41	4
Dibenz(a,h)anthracene	**31**	**J**	110	22	ug/Kg	☼	07/26/13 14:59	07/30/13 22:41	4
Fluoranthene	**220**		110	21	ug/Kg	☼	07/26/13 14:59	07/30/13 22:41	4
Fluorene	**26**	**J**	110	22	ug/Kg	☼	07/26/13 14:59	07/30/13 22:41	4
Indeno[1,2,3-cd]pyrene	**43**	**J**	110	37	ug/Kg	☼	07/26/13 14:59	07/30/13 22:41	4
1-Methylnaphthalene	**400**		210	23	ug/Kg	☼	07/26/13 14:59	07/30/13 22:41	4
2-Methylnaphthalene	**830**		210	37	ug/Kg	☼	07/26/13 14:59	07/30/13 22:41	4
Naphthalene	**710**		210	23	ug/Kg	☼	07/26/13 14:59	07/30/13 22:41	4
Phenanthrene	**1100**		42	21	ug/Kg	☼	07/26/13 14:59	07/30/13 22:41	4
Pyrene	**270**		110	19	ug/Kg	☼	07/26/13 14:59	07/30/13 22:41	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*23*	*X*	*30 - 130*	*07/26/13 14:59*	*07/30/13 22:41*	*4*

Client: Oneida Total Integrated Enterprises LLC
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-92626-1
SDG: 680-92626-01

Client Sample ID: HP0306A-VGSO-CS

Lab Sample ID: 680-92626-3
Date Collected: 07/23/13 10:55
Matrix: Solid
Date Received: 07/25/13 08:55
Percent Solids: 80.4

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	U	120	25	ug/Kg	☼	07/26/13 14:59	07/29/13 15:16	1
Acenaphthylene	**17**	**J**	49	6.2	ug/Kg	☼	07/26/13 14:59	07/29/13 15:16	1
Anthracene	**36**		10	5.2	ug/Kg	☼	07/26/13 14:59	07/29/13 15:16	1
Benzo[a]anthracene	**93**		9.9	4.8	ug/Kg	☼	07/26/13 14:59	07/29/13 15:16	1
Benzo[a]pyrene	**59**		13	6.4	ug/Kg	☼	07/26/13 14:59	07/29/13 15:16	1
Benzo[b]fluoranthene	**100**		15	7.5	ug/Kg	☼	07/26/13 14:59	07/29/13 15:16	1
Benzo[g,h,i]perylene	**62**		25	5.4	ug/Kg	☼	07/26/13 14:59	07/29/13 15:16	1
Benzo[k]fluoranthene	**26**		9.9	4.5	ug/Kg	☼	07/26/13 14:59	07/29/13 15:16	1
Chrysene	**130**		11	5.6	ug/Kg	☼	07/26/13 14:59	07/29/13 15:16	1
Dibenz(a,h)anthracene	**20**	**J**	25	5.1	ug/Kg	☼	07/26/13 14:59	07/29/13 15:16	1
Fluoranthene	**89**		25	4.9	ug/Kg	☼	07/26/13 14:59	07/29/13 15:16	1
Fluorene	**17**	**J**	25	5.1	ug/Kg	☼	07/26/13 14:59	07/29/13 15:16	1
Indeno[1,2,3-cd]pyrene	**52**		25	8.8	ug/Kg	☼	07/26/13 14:59	07/29/13 15:16	1
1-Methylnaphthalene	**42**	**J**	49	5.4	ug/Kg	☼	07/26/13 14:59	07/29/13 15:16	1
2-Methylnaphthalene	**58**		49	8.8	ug/Kg	☼	07/26/13 14:59	07/29/13 15:16	1
Naphthalene	**83**		49	5.4	ug/Kg	☼	07/26/13 14:59	07/29/13 15:16	1
Phenanthrene	**140**		9.9	4.8	ug/Kg	☼	07/26/13 14:59	07/29/13 15:16	1
Pyrene	**130**		25	4.6	ug/Kg	☼	07/26/13 14:59	07/29/13 15:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*60*		*30 - 130*	*07/26/13 14:59*	*07/29/13 15:16*	*1*

Client Sample ID: HP0306A-VGSO-CSD

Lab Sample ID: 680-92626-4
Date Collected: 07/23/13 10:55
Matrix: Solid
Date Received: 07/25/13 08:55
Percent Solids: 78.4

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	130	U	130	26	ug/Kg	☼	07/26/13 14:59	07/29/13 15:31	1
Acenaphthylene	**14**	**J**	51	6.4	ug/Kg	☼	07/26/13 14:59	07/29/13 15:31	1
Anthracene	**21**		11	5.4	ug/Kg	☼	07/26/13 14:59	07/29/13 15:31	1
Benzo[a]anthracene	**48**		10	5.0	ug/Kg	☼	07/26/13 14:59	07/29/13 15:31	1
Benzo[a]pyrene	**52**		13	6.6	ug/Kg	☼	07/26/13 14:59	07/29/13 15:31	1
Benzo[b]fluoranthene	**93**		16	7.8	ug/Kg	☼	07/26/13 14:59	07/29/13 15:31	1
Benzo[g,h,i]perylene	**55**		26	5.6	ug/Kg	☼	07/26/13 14:59	07/29/13 15:31	1
Benzo[k]fluoranthene	**26**		10	4.6	ug/Kg	☼	07/26/13 14:59	07/29/13 15:31	1
Chrysene	**99**		12	5.8	ug/Kg	☼	07/26/13 14:59	07/29/13 15:31	1
Dibenz(a,h)anthracene	**16**	**J**	26	5.2	ug/Kg	☼	07/26/13 14:59	07/29/13 15:31	1
Fluoranthene	**71**		26	5.1	ug/Kg	☼	07/26/13 14:59	07/29/13 15:31	1
Fluorene	**7.6**	**J**	26	5.2	ug/Kg	☼	07/26/13 14:59	07/29/13 15:31	1
Indeno[1,2,3-cd]pyrene	**46**		26	9.1	ug/Kg	☼	07/26/13 14:59	07/29/13 15:31	1
1-Methylnaphthalene	**33**	**J**	51	5.6	ug/Kg	☼	07/26/13 14:59	07/29/13 15:31	1
2-Methylnaphthalene	**49**	**J**	51	9.1	ug/Kg	☼	07/26/13 14:59	07/29/13 15:31	1
Naphthalene	**74**		51	5.6	ug/Kg	☼	07/26/13 14:59	07/29/13 15:31	1
Phenanthrene	**75**		10	5.0	ug/Kg	☼	07/26/13 14:59	07/29/13 15:31	1
Pyrene	**64**		26	4.7	ug/Kg	☼	07/26/13 14:59	07/29/13 15:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*66*		*30 - 130*	*07/26/13 14:59*	*07/29/13 15:31*	*1*

Client Sample ID: CV0827A-VGSO-CS

Lab Sample ID: 680-92626-5

Date Collected: 07/23/13 09:45
Matrix: Solid
Date Received: 07/25/13 08:55
Percent Solids: 69.1

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	580	U	580	120	ug/Kg	☼	07/26/13 14:59	07/29/13 15:46	4
Acenaphthylene	**48**	**J**	230	29	ug/Kg	☼	07/26/13 14:59	07/29/13 15:46	4
Anthracene	**52**		49	24	ug/Kg	☼	07/26/13 14:59	07/29/13 15:46	4
Benzo[a]anthracene	**140**		46	23	ug/Kg	☼	07/26/13 14:59	07/29/13 15:46	4
Benzo[a]pyrene	**120**		60	30	ug/Kg	☼	07/26/13 14:59	07/29/13 15:46	4
Benzo[b]fluoranthene	**200**		71	35	ug/Kg	☼	07/26/13 14:59	07/29/13 15:46	4
Benzo[g,h,i]perylene	**140**		120	25	ug/Kg	☼	07/26/13 14:59	07/29/13 15:46	4
Benzo[k]fluoranthene	**56**		46	21	ug/Kg	☼	07/26/13 14:59	07/29/13 15:46	4
Chrysene	**220**		52	26	ug/Kg	☼	07/26/13 14:59	07/29/13 15:46	4
Dibenz(a,h)anthracene	**39**	**J**	120	24	ug/Kg	☼	07/26/13 14:59	07/29/13 15:46	4
Fluoranthene	**240**		120	23	ug/Kg	☼	07/26/13 14:59	07/29/13 15:46	4
Fluorene	120	U	120	24	ug/Kg	☼	07/26/13 14:59	07/29/13 15:46	4
Indeno[1,2,3-cd]pyrene	**110**	**J**	120	41	ug/Kg	☼	07/26/13 14:59	07/29/13 15:46	4
1-Methylnaphthalene	**110**	**J**	230	25	ug/Kg	☼	07/26/13 14:59	07/29/13 15:46	4
2-Methylnaphthalene	**130**	**J**	230	41	ug/Kg	☼	07/26/13 14:59	07/29/13 15:46	4
Naphthalene	**99**	**J**	230	25	ug/Kg	☼	07/26/13 14:59	07/29/13 15:46	4
Phenanthrene	**240**		46	23	ug/Kg	☼	07/26/13 14:59	07/29/13 15:46	4
Pyrene	**200**		120	21	ug/Kg	☼	07/26/13 14:59	07/29/13 15:46	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*50*		*30 - 130*	*07/26/13 14:59*	*07/29/13 15:46*	*4*

Client Sample ID: CV0453A-VGSO-CS

Lab Sample ID: 680-92626-6

Date Collected: 07/23/13 13:25
Matrix: Solid
Date Received: 07/25/13 08:55
Percent Solids: 65.3

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	150	U	150	31	ug/Kg	☼	07/26/13 14:59	07/29/13 16:02	1
Acenaphthylene	**33**	**J**	61	7.7	ug/Kg	☼	07/26/13 14:59	07/29/13 16:02	1
Anthracene	**52**		13	6.4	ug/Kg	☼	07/26/13 14:59	07/29/13 16:02	1
Benzo[a]anthracene	**170**		12	6.0	ug/Kg	☼	07/26/13 14:59	07/29/13 16:02	1
Benzo[a]pyrene	**130**		16	8.0	ug/Kg	☼	07/26/13 14:59	07/29/13 16:02	1
Benzo[b]fluoranthene	**200**		19	9.4	ug/Kg	☼	07/26/13 14:59	07/29/13 16:02	1
Benzo[g,h,i]perylene	**150**		31	6.7	ug/Kg	☼	07/26/13 14:59	07/29/13 16:02	1
Benzo[k]fluoranthene	**65**		12	5.5	ug/Kg	☼	07/26/13 14:59	07/29/13 16:02	1
Chrysene	**250**		14	6.9	ug/Kg	☼	07/26/13 14:59	07/29/13 16:02	1
Dibenz(a,h)anthracene	**41**		31	6.3	ug/Kg	☼	07/26/13 14:59	07/29/13 16:02	1
Fluoranthene	**250**		31	6.1	ug/Kg	☼	07/26/13 14:59	07/29/13 16:02	1
Fluorene	**15**	**J**	31	6.3	ug/Kg	☼	07/26/13 14:59	07/29/13 16:02	1
Indeno[1,2,3-cd]pyrene	**110**		31	11	ug/Kg	☼	07/26/13 14:59	07/29/13 16:02	1
1-Methylnaphthalene	**150**		61	6.7	ug/Kg	☼	07/26/13 14:59	07/29/13 16:02	1
2-Methylnaphthalene	**190**		61	11	ug/Kg	☼	07/26/13 14:59	07/29/13 16:02	1
Naphthalene	**170**		61	6.7	ug/Kg	☼	07/26/13 14:59	07/29/13 16:02	1
Phenanthrene	**240**		12	6.0	ug/Kg	☼	07/26/13 14:59	07/29/13 16:02	1
Pyrene	**210**		31	5.7	ug/Kg	☼	07/26/13 14:59	07/29/13 16:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*59*		*30 - 130*	*07/26/13 14:59*	*07/29/13 16:02*	*1*

Client: Oneida Total Integrated Enterprises LLC
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-92626-1
SDG: 680-92626-01

Client Sample ID: CV0272A-VGSO-CS

Lab Sample ID: 680-92626-7
Date Collected: 07/24/13 09:40
Matrix: Solid
Date Received: 07/25/13 08:55
Percent Solids: 81.9

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	U	120	24	ug/Kg	☼	07/26/13 14:59	07/29/13 16:17	1
Acenaphthylene	**33**	**J**	48	6.0	ug/Kg	☼	07/26/13 14:59	07/29/13 16:17	1
Anthracene	**52**		10	5.1	ug/Kg	☼	07/26/13 14:59	07/29/13 16:17	1
Benzo[a]anthracene	**140**		9.7	4.7	ug/Kg	☼	07/26/13 14:59	07/29/13 16:17	1
Benzo[a]pyrene	**110**		13	6.3	ug/Kg	☼	07/26/13 14:59	07/29/13 16:17	1
Benzo[b]fluoranthene	**160**		15	7.4	ug/Kg	☼	07/26/13 14:59	07/29/13 16:17	1
Benzo[g,h,i]perylene	**110**		24	5.3	ug/Kg	☼	07/26/13 14:59	07/29/13 16:17	1
Benzo[k]fluoranthene	**67**		9.7	4.4	ug/Kg	☼	07/26/13 14:59	07/29/13 16:17	1
Chrysene	**160**		11	5.4	ug/Kg	☼	07/26/13 14:59	07/29/13 16:17	1
Dibenz(a,h)anthracene	**30**		24	5.0	ug/Kg	☼	07/26/13 14:59	07/29/13 16:17	1
Fluoranthene	**220**		24	4.8	ug/Kg	☼	07/26/13 14:59	07/29/13 16:17	1
Fluorene	**15**	**J**	24	5.0	ug/Kg	☼	07/26/13 14:59	07/29/13 16:17	1
Indeno[1,2,3-cd]pyrene	**95**		24	8.6	ug/Kg	☼	07/26/13 14:59	07/29/13 16:17	1
1-Methylnaphthalene	**150**		48	5.3	ug/Kg	☼	07/26/13 14:59	07/29/13 16:17	1
2-Methylnaphthalene	**110**		48	8.6	ug/Kg	☼	07/26/13 14:59	07/29/13 16:17	1
Naphthalene	**70**		48	5.3	ug/Kg	☼	07/26/13 14:59	07/29/13 16:17	1
Phenanthrene	**250**		9.7	4.7	ug/Kg	☼	07/26/13 14:59	07/29/13 16:17	1
Pyrene	**170**		24	4.5	ug/Kg	☼	07/26/13 14:59	07/29/13 16:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*58*		*30 - 130*	*07/26/13 14:59*	*07/29/13 16:17*	*1*

Client Sample ID: CV0083A-VGSO-CS

Lab Sample ID: 680-92626-8
Date Collected: 07/24/13 08:55
Matrix: Solid
Date Received: 07/25/13 08:55
Percent Solids: 83.0

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	480	U	480	96	ug/Kg	☼	07/26/13 14:59	07/29/13 16:32	4
Acenaphthylene	**74**	**J**	190	24	ug/Kg	☼	07/26/13 14:59	07/29/13 16:32	4
Anthracene	**120**		40	20	ug/Kg	☼	07/26/13 14:59	07/29/13 16:32	4
Benzo[a]anthracene	**340**		38	19	ug/Kg	☼	07/26/13 14:59	07/29/13 16:32	4
Benzo[a]pyrene	**290**		50	25	ug/Kg	☼	07/26/13 14:59	07/29/13 16:32	4
Benzo[b]fluoranthene	**470**		59	29	ug/Kg	☼	07/26/13 14:59	07/29/13 16:32	4
Benzo[g,h,i]perylene	**270**		96	21	ug/Kg	☼	07/26/13 14:59	07/29/13 16:32	4
Benzo[k]fluoranthene	**130**		38	17	ug/Kg	☼	07/26/13 14:59	07/29/13 16:32	4
Chrysene	**340**		43	22	ug/Kg	☼	07/26/13 14:59	07/29/13 16:32	4
Dibenz(a,h)anthracene	**77**	**J**	96	20	ug/Kg	☼	07/26/13 14:59	07/29/13 16:32	4
Fluoranthene	**480**		96	19	ug/Kg	☼	07/26/13 14:59	07/29/13 16:32	4
Fluorene	**28**	**J**	96	20	ug/Kg	☼	07/26/13 14:59	07/29/13 16:32	4
Indeno[1,2,3-cd]pyrene	**240**		96	34	ug/Kg	☼	07/26/13 14:59	07/29/13 16:32	4
1-Methylnaphthalene	**91**	**J**	190	21	ug/Kg	☼	07/26/13 14:59	07/29/13 16:32	4
2-Methylnaphthalene	**110**	**J**	190	34	ug/Kg	☼	07/26/13 14:59	07/29/13 16:32	4
Naphthalene	**89**	**J**	190	21	ug/Kg	☼	07/26/13 14:59	07/29/13 16:32	4
Phenanthrene	**340**		38	19	ug/Kg	☼	07/26/13 14:59	07/29/13 16:32	4
Pyrene	**370**		96	18	ug/Kg	☼	07/26/13 14:59	07/29/13 16:32	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*51*		*30 - 130*	*07/26/13 14:59*	*07/29/13 16:32*	*4*

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Lab Sample ID: MB 660-139814/1-A
Matrix: Solid
Analysis Batch: 139909

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 139814

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	99	U	99	20	ug/Kg		07/26/13 14:59	07/29/13 13:03	1
Acenaphthylene	40	U	40	5.0	ug/Kg		07/26/13 14:59	07/29/13 13:03	1
Anthracene	8.4	U	8.4	4.2	ug/Kg		07/26/13 14:59	07/29/13 13:03	1
Benzo[a]anthracene	8.0	U	8.0	3.9	ug/Kg		07/26/13 14:59	07/29/13 13:03	1
Benzo[a]pyrene	10	U	10	5.2	ug/Kg		07/26/13 14:59	07/29/13 13:03	1
Benzo[b]fluoranthene	12	U	12	6.1	ug/Kg		07/26/13 14:59	07/29/13 13:03	1
Benzo[g,h,i]perylene	20	U	20	4.4	ug/Kg		07/26/13 14:59	07/29/13 13:03	1
Benzo[k]fluoranthene	8.0	U	8.0	3.6	ug/Kg		07/26/13 14:59	07/29/13 13:03	1
Chrysene	9.0	U	9.0	4.5	ug/Kg		07/26/13 14:59	07/29/13 13:03	1
Dibenz(a,h)anthracene	20	U	20	4.1	ug/Kg		07/26/13 14:59	07/29/13 13:03	1
Fluoranthene	20	U	20	4.0	ug/Kg		07/26/13 14:59	07/29/13 13:03	1
Fluorene	20	U	20	4.1	ug/Kg		07/26/13 14:59	07/29/13 13:03	1
Indeno[1,2,3-cd]pyrene	20	U	20	7.1	ug/Kg		07/26/13 14:59	07/29/13 13:03	1
1-Methylnaphthalene	40	U	40	4.4	ug/Kg		07/26/13 14:59	07/29/13 13:03	1
2-Methylnaphthalene	40	U	40	7.1	ug/Kg		07/26/13 14:59	07/29/13 13:03	1
Naphthalene	40	U	40	4.4	ug/Kg		07/26/13 14:59	07/29/13 13:03	1
Phenanthrene	8.0	U	8.0	3.9	ug/Kg		07/26/13 14:59	07/29/13 13:03	1
Pyrene	20	U	20	3.7	ug/Kg		07/26/13 14:59	07/29/13 13:03	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*70*		*30 - 130*	*07/26/13 14:59*	*07/29/13 13:03*	*1*

Lab Sample ID: LCS 660-139814/2-A
Matrix: Solid
Analysis Batch: 139909

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 139814

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	669	386		ug/Kg		58	39 - 130
Acenaphthylene	669	383		ug/Kg		57	38 - 130
Anthracene	669	379		ug/Kg		57	37 - 130
Benzo[a]anthracene	669	364		ug/Kg		54	40 - 130
Benzo[a]pyrene	669	377		ug/Kg		56	49 - 130
Benzo[b]fluoranthene	669	381		ug/Kg		57	37 - 130
Benzo[g,h,i]perylene	669	355		ug/Kg		53	32 - 130
Benzo[k]fluoranthene	669	377		ug/Kg		56	32 - 130
Chrysene	669	359		ug/Kg		54	41 - 130
Dibenz(a,h)anthracene	669	344		ug/Kg		51	27 - 130
Fluoranthene	669	382		ug/Kg		57	40 - 130
Fluorene	669	393		ug/Kg		59	40 - 130
Indeno[1,2,3-cd]pyrene	669	352		ug/Kg		53	30 - 130
1-Methylnaphthalene	669	385		ug/Kg		58	31 - 130
2-Methylnaphthalene	669	402		ug/Kg		60	33 - 130
Naphthalene	669	379		ug/Kg		57	36 - 130
Phenanthrene	669	380		ug/Kg		57	42 - 130
Pyrene	669	359		ug/Kg		54	44 - 130

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Lab Sample ID: LCS 660-139814/2-A
Matrix: Solid
Analysis Batch: 139909

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 139814

Surrogate	LCS %Recovery	LCS Qualifier	Limits
o-Terphenyl	58		30 - 130

Lab Sample ID: 680-92626-1 MS
Matrix: Solid
Analysis Batch: 139909

Client Sample ID: CV0256A-VGSO-CS
Prep Type: Total/NA
Prep Batch: 139814

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	130	U	883	381		ug/Kg	☼	43	39 - 130
Acenaphthylene	56		883	328	F	ug/Kg	☼	31	38 - 130
Anthracene	210		883	491	F	ug/Kg	☼	32	37 - 130
Benzo[a]anthracene	440		883	561	F	ug/Kg	☼	13	40 - 130
Benzo[a]pyrene	160		883	356	F	ug/Kg	☼	23	49 - 130
Benzo[b]fluoranthene	440		883	525	F	ug/Kg	☼	10	37 - 130
Benzo[g,h,i]perylene	220		883	448	F	ug/Kg	☼	25	32 - 130
Benzo[k]fluoranthene	71		883	335	F	ug/Kg	☼	30	32 - 130
Chrysene	1400		883	1130	F	ug/Kg	☼	-34	41 - 130
Dibenz(a,h)anthracene	110		883	417		ug/Kg	☼	35	27 - 130
Fluoranthene	520		883	650	F	ug/Kg	☼	14	40 - 130
Fluorene	100		883	401	F	ug/Kg	☼	34	40 - 130
Indeno[1,2,3-cd]pyrene	90		883	403		ug/Kg	☼	35	30 - 130
1-Methylnaphthalene	910		883	832	F	ug/Kg	☼	-9	31 - 130
2-Methylnaphthalene	1800		883	1390	F	ug/Kg	☼	-45	33 - 130
Naphthalene	1400		883	1260	F	ug/Kg	☼	-15	36 - 130
Phenanthrene	3700		883	3130	4	ug/Kg	☼	-68	42 - 130
Pyrene	630		883	654	F	ug/Kg	☼	2	44 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
o-Terphenyl	46		30 - 130

Lab Sample ID: 680-92626-1 MSD
Matrix: Solid
Analysis Batch: 139909

Client Sample ID: CV0256A-VGSO-CS
Prep Type: Total/NA
Prep Batch: 139814

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene	130	U	885	492		ug/Kg	☼	56	39 - 130	25	40
Acenaphthylene	56		885	403		ug/Kg	☼	39	38 - 130	20	40
Anthracene	210		885	660		ug/Kg	☼	51	37 - 130	29	40
Benzo[a]anthracene	440		885	849	F	ug/Kg	☼	46	40 - 130	41	40
Benzo[a]pyrene	160		885	560	F	ug/Kg	☼	46	49 - 130	44	40
Benzo[b]fluoranthene	440		885	898	F	ug/Kg	☼	52	37 - 130	52	40
Benzo[g,h,i]perylene	220		885	524		ug/Kg	☼	34	32 - 130	16	40
Benzo[k]fluoranthene	71		885	489		ug/Kg	☼	47	32 - 130	37	40
Chrysene	1400		885	1800	F	ug/Kg	☼	42	41 - 130	46	40
Dibenz(a,h)anthracene	110		885	563		ug/Kg	☼	52	27 - 130	30	40
Fluoranthene	520		885	1010	F	ug/Kg	☼	55	40 - 130	43	40
Fluorene	100		885	517		ug/Kg	☼	47	40 - 130	25	40
Indeno[1,2,3-cd]pyrene	90		885	512		ug/Kg	☼	48	30 - 130	24	40
1-Methylnaphthalene	910		885	1190		ug/Kg	☼	31	31 - 130	36	40

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Lab Sample ID: 680-92626-1 MSD
Matrix: Solid
Analysis Batch: 139909

Client Sample ID: CV0256A-VGSO-CS
Prep Type: Total/NA
Prep Batch: 139814

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Methylnaphthalene	1800		885	1950	F	ug/Kg	☼	19	33 - 130	34	40
Naphthalene	1400		885	1600	F	ug/Kg	☼	24	36 - 130	24	40
Phenanthrene	3700		885	4760	E 4 F	ug/Kg	☼	116	42 - 130	41	40
Pyrene	630		885	881	F	ug/Kg	☼	28	44 - 130	29	40

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
o-Terphenyl	*58*		*30 - 130*

GC/MS Semi VOA

Prep Batch: 139814

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-92626-1	CV0256A-VGSO-CS	Total/NA	Solid	3546	
680-92626-1 MS	CV0256A-VGSO-CS	Total/NA	Solid	3546	
680-92626-1 MSD	CV0256A-VGSO-CS	Total/NA	Solid	3546	
680-92626-2	CV0256A-VGSO-CSD	Total/NA	Solid	3546	
680-92626-3	HP0306A-VGSO-CS	Total/NA	Solid	3546	
680-92626-4	HP0306A-VGSO-CSD	Total/NA	Solid	3546	
680-92626-5	CV0827A-VGSO-CS	Total/NA	Solid	3546	
680-92626-6	CV0453A-VGSO-CS	Total/NA	Solid	3546	
680-92626-7	CV0272A-VGSO-CS	Total/NA	Solid	3546	
680-92626-8	CV0083A-VGSO-CS	Total/NA	Solid	3546	
LCS 660-139814/2-A	Lab Control Sample	Total/NA	Solid	3546	
MB 660-139814/1-A	Method Blank	Total/NA	Solid	3546	

Analysis Batch: 139909

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-92626-1	CV0256A-VGSO-CS	Total/NA	Solid	8270C LL	139814
680-92626-1 MS	CV0256A-VGSO-CS	Total/NA	Solid	8270C LL	139814
680-92626-1 MSD	CV0256A-VGSO-CS	Total/NA	Solid	8270C LL	139814
680-92626-3	HP0306A-VGSO-CS	Total/NA	Solid	8270C LL	139814
680-92626-4	HP0306A-VGSO-CSD	Total/NA	Solid	8270C LL	139814
680-92626-5	CV0827A-VGSO-CS	Total/NA	Solid	8270C LL	139814
680-92626-6	CV0453A-VGSO-CS	Total/NA	Solid	8270C LL	139814
680-92626-7	CV0272A-VGSO-CS	Total/NA	Solid	8270C LL	139814
680-92626-8	CV0083A-VGSO-CS	Total/NA	Solid	8270C LL	139814
LCS 660-139814/2-A	Lab Control Sample	Total/NA	Solid	8270C LL	139814
MB 660-139814/1-A	Method Blank	Total/NA	Solid	8270C LL	139814

Analysis Batch: 139910

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-92626-2	CV0256A-VGSO-CSD	Total/NA	Solid	8270C LL	139814

General Chemistry

Analysis Batch: 139851

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-92626-1	CV0256A-VGSO-CS	Total/NA	Solid	Moisture	
680-92626-1 MS	CV0256A-VGSO-CS	Total/NA	Solid	Moisture	
680-92626-1 MSD	CV0256A-VGSO-CS	Total/NA	Solid	Moisture	
LCS 660-139851/1	Lab Control Sample	Total/NA	Solid	Moisture	
LCSD 660-139851/17	Lab Control Sample Dup	Total/NA	Solid	Moisture	

Analysis Batch: 139871

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-92626-2	CV0256A-VGSO-CSD	Total/NA	Solid	Moisture	
680-92626-3	HP0306A-VGSO-CS	Total/NA	Solid	Moisture	
680-92626-4	HP0306A-VGSO-CSD	Total/NA	Solid	Moisture	
680-92626-5	CV0827A-VGSO-CS	Total/NA	Solid	Moisture	
680-92626-6	CV0453A-VGSO-CS	Total/NA	Solid	Moisture	
680-92626-7	CV0272A-VGSO-CS	Total/NA	Solid	Moisture	
680-92626-8	CV0083A-VGSO-CS	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Oneida Total Integrated Enterprises LLC
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-92626-1
SDG: 680-92626-01

Client Sample ID: CV0256A-VGSO-CS

Lab Sample ID: 680-92626-1
Date Collected: 07/23/13 11:35
Matrix: Solid
Date Received: 07/25/13 08:55
Percent Solids: 75.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			139814	07/26/13 14:59	RSN	TAL TAM
Total/NA	Analysis	8270C LL		1	139909	07/29/13 13:33	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	139851	07/29/13 10:05	AJG	TAL TAM

Client Sample ID: CV0256A-VGSO-CSD

Lab Sample ID: 680-92626-2
Date Collected: 07/23/13 11:35
Matrix: Solid
Date Received: 07/25/13 08:55
Percent Solids: 75.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			139814	07/26/13 14:59	RSN	TAL TAM
Total/NA	Analysis	8270C LL		4	139910	07/30/13 22:41	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	139871	07/29/13 10:49	AJG	TAL TAM

Client Sample ID: HP0306A-VGSO-CS

Lab Sample ID: 680-92626-3
Date Collected: 07/23/13 10:55
Matrix: Solid
Date Received: 07/25/13 08:55
Percent Solids: 80.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			139814	07/26/13 14:59	RSN	TAL TAM
Total/NA	Analysis	8270C LL		1	139909	07/29/13 15:16	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	139871	07/29/13 10:52	AJG	TAL TAM

Client Sample ID: HP0306A-VGSO-CSD

Lab Sample ID: 680-92626-4
Date Collected: 07/23/13 10:55
Matrix: Solid
Date Received: 07/25/13 08:55
Percent Solids: 78.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			139814	07/26/13 14:59	RSN	TAL TAM
Total/NA	Analysis	8270C LL		1	139909	07/29/13 15:31	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	139871	07/29/13 12:22	AJG	TAL TAM

Client Sample ID: CV0827A-VGSO-CS

Lab Sample ID: 680-92626-5
Date Collected: 07/23/13 09:45
Matrix: Solid
Date Received: 07/25/13 08:55
Percent Solids: 69.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			139814	07/26/13 14:59	RSN	TAL TAM
Total/NA	Analysis	8270C LL		4	139909	07/29/13 15:46	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	139871	07/29/13 11:15	AJG	TAL TAM

Lab Chronicle

Client: Oneida Total Integrated Enterprises LLC
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-92626-1
SDG: 680-92626-01

Client Sample ID: CV0453A-VGSO-CS

Lab Sample ID: 680-92626-6

Date Collected: 07/23/13 13:25
Matrix: Solid
Date Received: 07/25/13 08:55
Percent Solids: 65.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			139814	07/26/13 14:59	RSN	TAL TAM
Total/NA	Analysis	8270C LL		1	139909	07/29/13 16:02	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	139871	07/29/13 11:55	AJG	TAL TAM

Client Sample ID: CV0272A-VGSO-CS

Lab Sample ID: 680-92626-7

Date Collected: 07/24/13 09:40
Matrix: Solid
Date Received: 07/25/13 08:55
Percent Solids: 81.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			139814	07/26/13 14:59	RSN	TAL TAM
Total/NA	Analysis	8270C LL		1	139909	07/29/13 16:17	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	139871	07/29/13 11:43	AJG	TAL TAM

Client Sample ID: CV0083A-VGSO-CS

Lab Sample ID: 680-92626-8

Date Collected: 07/24/13 08:55
Matrix: Solid
Date Received: 07/25/13 08:55
Percent Solids: 83.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			139814	07/26/13 14:59	RSN	TAL TAM
Total/NA	Analysis	8270C LL		4	139909	07/29/13 16:32	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	139871	07/29/13 12:11	AJG	TAL TAM

Laboratory References:

TAL TAM = TestAmerica Tampa, 6712 Benjamin Road, Suite 100, Tampa, FL 33634, TEL (813)885-7427

Serial Number 70199

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

Alternate Laboratory Name/Location: TestAmerica Tampa
Phone: 680-92626
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
35th Ave	20D5148-1356	AL
TAL (LAB) PROJECT MANAGER	P.O. NUMBER	CONTRACT NO.
CLIENT (SITE) PM	CLIENT PHONE	CLIENT FAX
Russell Henderson	678.355.5550	
CLIENT NAME	CLIENT E-MAIL	
OTIE	rhenderson@otie.com	
CLIENT ADDRESS		
1220 Kennestone Cir, Ste 106, Marietta, GA 30066		
COMPANY CONTRACTING THIS WORK (if applicable)		

PAGE 1 OF 4

STANDARD REPORT DELIVERY ...
DATE DUE
EXPEDITED REPORT DELIVERY (SURCHARGE) ○
DATE DUE
NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	PAHs	Metals	Hg Metals	PAHs	NUMBER OF CONTAINERS SUBMITTED	REMARKS
7/23/13	1135	CV0256A-V6S0-CS	C		Soil			1	1				
7/23/13	1135	CV0256A-V6S0-CSD	C		Soil			1	1				
7/23/13	1055	HP0306A-V6S0-CS	C		Soil			1	1				
7/23/13	1055	HP0306A-V6S0-CSD	C		Soil			1	1				
7/23/13	0945	CV0827A-V6S0-CS	C		Soil			1	1				
7/23/13	1325	CV0453A-V6S0-CS	C		Soil			1	1				
7/24/13	0940	CV0272A-V6S0-CS	C		Soil			1	1				
7/24/13	0855	CV0083A-V6S0-CS	C		Soil			1	1				
7/23/13	0948	HP0066A-WPM	G							1	1		Wipe sample
7/23/13	0950	HP0066A-WPP	G							1	1		Wipe Sample
7/23/13	1015	HP066B-WPM	G							1	1		Wipe Sample
7/23/13	1017	HP066B-WPP	G							1	1		Wipe Sample

680-92626-01 Chain of Custody

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
	7/24/13	1630						
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS
Carol McNulty	7/25/13	0855	YES ○ NO ○			5.8°C CW07

TAL-8240-680 (1008)

Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-92626-1
SDG Number: 680-92626-01

Login Number: 92626
List Number: 1
Creator: Snead, Joshua

List Source: TestAmerica Savannah

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-92626-1
SDG Number: 680-92626-01

Login Number: 92626
List Number: 1
Creator: McNulty, Carol

List Source: TestAmerica Tampa
List Creation: 07/30/13 11:07 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

Certification Summary

Client: Oneida Total Integrated Enterprises LLC
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-92626-1
SDG: 680-92626-01

Laboratory: TestAmerica Savannah

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
A2LA	ISO/IEC 17025		399.01	02-28-15
Alabama	State Program	4	41450	06-30-13 *
Arkansas DEQ	State Program	6	88-0692	02-01-14 *
California	NELAP	9	3217CA	07-31-13 *
Colorado	State Program	8	N/A	12-31-13
Connecticut	State Program	1	PH-0161	03-31-15
Florida	NELAP	4	E87052	06-30-14
GA Dept. of Agriculture	State Program	4	N/A	12-31-13
Georgia	State Program	4	N/A	06-30-14
Georgia	State Program	4	803	06-30-14
Guam	State Program	9	09-005r	06-17-14
Hawaii	State Program	9	N/A	06-30-14
Illinois	NELAP	5	200022	11-30-13
Iowa	State Program	7	353	07-01-15
Kentucky	State Program	4	90084	12-31-13
Kentucky (UST)	State Program	4	18	06-30-14
Louisiana	NELAP	6	30690	06-30-14
Louisiana	NELAP	6	LA100015	12-31-13
Maine	State Program	1	GA00006	08-16-14
Maryland	State Program	3	250	12-31-13
Massachusetts	State Program	1	M-GA006	06-30-14
Mississippi	State Program	4	N/A	06-30-14
Montana	State Program	8	CERT0081	01-01-14
Nebraska	State Program	7	TestAmerica-Savannah	06-30-14
New Jersey	NELAP	2	GA769	06-30-14
New Mexico	State Program	6	N/A	06-30-14
New York	NELAP	2	10842	04-01-14
North Carolina DENR	State Program	4	269	12-31-13
North Carolina DHHS	State Program	4	13701	07-31-14
Oklahoma	State Program	6	9984	08-31-13
Pennsylvania	NELAP	3	68-00474	06-30-14
Puerto Rico	State Program	2	GA00006	01-01-14
South Carolina	State Program	4	98001	06-30-13 *
Tennessee	State Program	4	TN02961	06-30-14
Texas	NELAP	6	T104704185-08-TX	11-30-13
USDA	Federal		SAV 3-04	04-07-14
Virginia	NELAP	3	460161	06-14-14
Washington	State Program	10	C1794	06-10-14
West Virginia	State Program	3	9950C	12-31-13
West Virginia DEP	State Program	3	94	09-30-13
Wisconsin	State Program	5	999819810	08-31-13
Wyoming	State Program	8	8TMS-Q	06-30-13 *

Laboratory: TestAmerica Tampa

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alabama	State Program	4	40610	06-30-14
Florida	NELAP	4	E84282	06-30-14
Georgia	State Program	4	905	06-30-13 *

* Expired certification is currently pending renewal and is considered valid.

Certification Summary

Client: Oneida Total Integrated Enterprises LLC
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-92626-1
SDG: 680-92626-01

Laboratory: TestAmerica Tampa (Continued)

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
USDA	Federal		P330-11-00177	04-20-14

Data Validation Checklist
Inorganic Analyses

Project: 35TH Avenue Superfund Site
Project No: 2005148-1356
Laboratory: Spectrum Analytical, Inc., Savannah, GA
SDG No.: 680-92626-3
Method: SW-846 6010B, 7470A, and 7471A
Associated Samples: Refer to Attachment A (Sample Summary)
Matrix: Soil
Samples Collected: 7/23/13-7/24/13
Reviewer: Renea Anglin
Date: 8/13/2013
Concurrence: Limari Krebs
Date:

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
1. Were sample preservation requirements met? If pH of aqueous sample >2 and was not adjusted by laboratory prior to analysis, J- flag positive results and R- flag non-detect results.	x			Received at 5.8°C.	
2. Were all COC records signed and integrity seals intact, indicating that COC was maintained for all samples?	x				
3. Were there any problems noted in laboratory data package concerning condition of samples upon receipt?		x			
4. Do any soil/sediment samples contain more than 50% water? If yes, then results are to be reported on a wet-weight basis.		x			
5. Have any technical holding times, determined from date of collection to date of analysis, been exceeded? (Hg: ≤28 days, other metals: ≤6 months). If not, then J- flag positive results and R- flag non-detect aqueous results.		x		Mercury extracted 7/29/13 and analyzed on 7/30/13. 6010 was extracted 7/26/13 and 7/29/13 and analyzed 7/31/13 and 8/02/13.	
6. Were results for all project-specified target analytes reported?	x				
7. Were project-specified Reporting Limits achieved for undiluted sample analyses?	x				
8. Were method blank (MB) prepared at the appropriate frequency (one per 20 samples, batch, matrix, and level)?	x				
9. Was a calibration blank (ICB/CCB) analyzed at the beginning, after every 10th sample, and at the end of each analytical run?	x				
10. Were target analytes detected in the method and/or calibration blanks?		x			
11. Were target analytes reported in equipment blank analyses above the DL?			x		
12. Were contaminants detected in samples below the blank contamination action level? o If blank result > RL,		x			

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
• Flag sample results ≤ RL with a U • Flag positive sample results > RL and ≤10x blank result , as J+ positive results o If blank result ≤RL, • Flag sample results ≤ RL with a U • Flag positive sample results > RL and ≤10x blank result , as J+ positive results		x			
13. Are there negative laboratory blank results with the absolute value ≤RL? If yes, then flag positive and non-detect sample results that are < 10x absolute blank value as J- and UJ, respectively.		x			
14. Was a field duplicate analyzed?	x			Sample CV0256A-VGSO-CS had a duplicate collected (CV0256A-VGSO-CSD). Sample HP0306A-VGSO-CS had a duplicate collected (HP0306A-VGSO-CSD)	
15. Was precision deemed acceptable as defined by the project plans?		x		RPD were within limits for sample CV0256A-VGSO-CS and it's duplicate. Sample HP0306A-VGSO-CS had Cadmium detected at 0.38 mg/Kg(between the MDL and RL) and HP0306A-VGSO-CSD had Cadmium detected at 0.64mg/Kg for an RPD of 51%.	J
16. Were initial and continuing calibration standards analyzed at the lab/project-specified frequency for each instrument? o 6010B: • ICAL: Blank and one standard • ICV initially, and CCV every 10th sample and at the end of the analytical run o 7470A/7471A: • ICAL: Blank and five standards • ICV initially, and CCV every 10th sample and at the end of the analytical run	x			• 6010B: 07/31/13 & 08/02/13. Two (2) Initial calibration standards. ICV initially, and CCV every 10 samples and at end of run • 7471B: 07/30/13. 6-Point ICAL. ICV initially, CCV every 10 samples and at end of run	

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
17. Were these results within lab/project specifications? o 6010B (ICV/CCV Criteria: 90-110%R): • If %R <75, then J- flag positive results and R-flag non-detects • If 75-89%R, then J- flag positive results and UJ flag non-detects • If 111-125%R, then J flag positive results • If >125%R, then J+ flag positive results • If >160%R, then R flag positive results o 7470A/7471A: • If correlation coefficients <0.995, then J and UJ flag positive and non-detect results. • If %R <65, then J- flag positive results and R-flag non-detects • If 65-79%R, then J- flag positive results and UJ flag non-detects • If 121-135%R, then J flag positive results • If >135%R, then J+ flag positive results • If >170%R, then R flag positive results	x x			Mercury correlation coefficients (raw data): • 7471B: ICAL of 07/30/13. 0.99983	
18. Was the interference check sample (ICS) analyzed at the beginning of each ICP analytical run?	x				
19. Are ICS recoveries within 80-120% of the true value? If not, qualify data as follows when native Al, Fe, Ca, and Mg sample concentrations are equal to or greater than the ICS spiking level: o If >120%R (or >true value plus 2x CRQL), J+ flag positive results o If 50-79%R (or less than true value – 2x the CRQL), J- flag positive results and UJ flag non-detects o If <50%R, J- flag positive results and R-flag non-detects	x				
20. Was a LCS analyzed for each preparation batch (one per 20 samples per matrix and level)?	x				

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
21. Did LCS recoveries meet laboratory/project (80-120%R) specifications? o Soil: • LCS result > Upper control limit (UCL): J+ flag positive results • LCS result < Lower control limit (LCL): J- flag positive results and UJ flag non-detects o Aqueous: • If <50%R, then J- and R flag positive and ND results, respectively • If 50-LCL%R, J- and UJ flag positive and ND results, respectively • >UCL: J+ Flag positive results • >150%R: R Flag results	x				
22. Was the RPD between LCS and LCSD results within laboratory /project control limits (≤20%RPD)? If not, J and UJ flag positive and non-detect results, respectively			x	LCS only.	
23. Was a Matrix Spike (MS) and Matrix Spike Duplicate (MSD) analyzed once per preparation batch?	x			Batch 680-286279 (6010) - MS/MSD on sample CV0256A-VGSO-CS. Batch 680-286324 (6010) – MS/MSD on Sample CV0083A-VGSO-CS. Batch 680-286694 (7471B) – MS/MSD on sample CV0256A-VGSO-CS.	
24. Is the MS and MSD parent sample a project-specific sample?	x				
25. Was a post-digestion spike (PDS) analysis conducted when MS and/or MSD results did not meet control limits (Note: PDS is not required for silver)?	x			• 6010B, Solid: 680-92626-1 (CV0256A-VGSO-CS) and 680-92626-8 (CV0083A-VGSO-CS)	

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
26. For all analytes with sample concentration < 4 x spike concentration, are spike recoveries within laboratory/project control limits (MS, MSD, and PDS: 75-125%R)? Only QC results for project samples are evaluated. If not, o 6010B: • If MS %R <30 and PDS %R <75, then J- and R Flag positive and ND results, respectively • If MS %R <30 and PDS %R >75, then J flag positive and UJ flag non-detect results • If MS and MSD %R 30-74 and PDS%R <75, then J- flag positive and UJ flag non-detect results • If MS and MSD %R 30-74 and PDS%R ≥75, then J flag positive and UJ flag non-detect results • If MS, MSD, and PDS %R >125, J+ flag positive results • If MS and MSD %R >125 and PDS %R ≤125, then J flag positive results • If MS and MSD %R <30 and no PDS, then J- flag positive and R-flag non-detect results • If MS and MSD %R 30-74 and no PDS, then J- and UJ flag positive and non-detect results, respectively • If MS and MSD %R >125 and no PDS, then J+ flag positive results o 7470A/7471A: • If MS %R <30, then J- and R Flag positive and ND results, respectively • If MS and MSD %R 30-74, then J- flag positive and UJ flag non-detect results • If MS and MSD %R >125, then J+ flag positive results				Sample CV0256A-VGSO-CS had Arsenic, Barium, and Lead detected at >4x the spike Value, therefore these analytes could not be evaluated. The MS had Chromium biased high at 149%R The MSD had Chromium biased high at 132%R Sample CV0256A-VGSO-CS, the MS Mercury biased low at 62%R. The MSD had Mercury biased low at 76%R. Sample CV0083A-VGSO-CS had Barium, Chromium and lead detected at >4x the spike value, therefore these analytes could not be evaluated. The MS had Cadmium biased low at 55%R. The MSD had Arsenic biased high at 159%R and Cadmium biased low at 59%R. Cadmium and Arsenic will be flagged J.	J J- J
27. Were laboratory/project (≤20%RPD) criteria met for precision during the MS and MSD analysis? Only QC results for project samples are evaluated. o If RPD >20%, J and UJ flag positive and non-detect results.	x				

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
28. Was a serial dilution conducted for 6010B?	x			A summary of serial dilution results were reported on Form 9 of the data package for the following samples: • 6010B: 680-92626-1(CV0256A-VGSO-CS) and 680-92626-8 (CV0083A-VGSO-CS)	
29. Is the serial dilution parent sample a project-specific sample?	x			CV0256A-VGSO-CS, CV0083A-VGSO-CS	
30. Is the percent difference between the serially diluted result and undiluted result less 10% (for those analytes with native concentrations greater than 50x the DL)? Only QC results for project samples are evaluated. o If %D >10, J and UJ flag positive and non-detect results, respectively.		x		Sample CV0083A-VGSO-CS had Lead with a %D of 11% outside QC limits.	J
31. Was a laboratory duplicate analyzed?				Laboratory duplicate sample analyses were not conducted. An evaluation of precision was based on the results of the MS and MSD results.	
32. Was the lab duplicate analysis conducted on a project-specific sample?	x				
33. Were criteria for laboratory/project precision met? Only QC results for project samples are evaluated. o If RPD values >20% (35% for soil/sediment) or absolute difference > RL (2x RL for soil/sediment), then J and UJ flag positive and non-detect results, respectively	x				
34. Were lab comments included in report? If yes, summarize contents or attach a copy of the narrative.				Refer to Attachment B (Case Narratives)	

Comments: The data review process was modeled after the USEPA Contract Laboratory Program (CLP) National Functional Guidelines (NFG) for Inorganic Data Review (EPA 540-R-04-004, October 2004). Sample results have been qualified based on the results of the data review process (Attachment D). Criteria for acceptability of data were based upon available site information, analytical method requirements, guidance documents, and professional judgment

DV Flag Definitions:

J-	The result is an estimated quantity, but the result may be biased low.
J	The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
J+	The result is an estimated quantity, but the result may be biased high.
R	The data are unusable. The sample results are rejected due to serious deficiencies in meeting Quality Control (QC) criteria. The analyte may or may not be present in the sample.
U	The analyte was analyzed for, but was not detected above the associated level; blank contamination may exist.
UJ	The analyte was analyzed for, but was not detected. The reported limit is approximate and may be inaccurate or imprecise.

ATTACHMENT A

SAMPLE SUMMARY

SAMPLE SUMMARY

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-92626-2
Sdg Number: 680-92626-02

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
680-92626-1	CV0256A-VGSO-CS	Solid	07/23/2013 1135	07/25/2013 0855
680-92626-1MS	CV0256A-VGSO-CS	Solid	07/23/2013 1135	07/25/2013 0855
680-92626-1MSD	CV0256A-VGSO-CS	Solid	07/23/2013 1135	07/25/2013 0855
680-92626-2	CV0256A-VGSO-CSD	Solid	07/23/2013 1135	07/25/2013 0855
680-92626-3	HP0306A-VGSO-CS	Solid	07/23/2013 1055	07/25/2013 0855
680-92626-4	HP0306A-VGSO-CSD	Solid	07/23/2013 1055	07/25/2013 0855
680-92626-5	CV0827A-VGSO-CS	Solid	07/23/2013 0945	07/25/2013 0855
680-92626-6	CV0453A-VGSO-CS	Solid	07/23/2013 1325	07/25/2013 0855
680-92626-7	CV0272A-VGSO-CS	Solid	07/24/2013 0940	07/25/2013 0855
680-92626-8	CV0083A-VGSO-CS	Solid	07/24/2013 0855	07/25/2013 0855

ATTACHMENT B

CASE NARRATIVE

CASE NARRATIVE
Client: Oneida Total Integrated Enterprises LLC
Project: 35th Avenue Superfund Site
Report Number: 680-92626-2

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 07/25/2013; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 5.8 C.

METALS (ICP)

Samples CV0256A-VGSO-CS (680-92626-1), CV0256A-VGSO-CSD (680-92626-2), HP0306A-VGSO-CS (680-92626-3), HP0306A-VGSO-CSD (680-92626-4), CV0827A-VGSO-CS (680-92626-5), CV0453A-VGSO-CS (680-92626-6), CV0272A-VGSO-CS (680-92626-7) and CV0083A-VGSO-CS (680-92626-8) were analyzed for Metals (ICP) in accordance with EPA SW-846 Method 6010C.

Method(s) 6010C: The serial dilution performed for the following sample(s) associated with batch 680-286324 was outside control limits for lead: (680-92626-8 SD)

Method(s) 6010C: The post digestion spike % recovery for silver associated with batch 680-286324 was outside of control limits.

Method(s) 6010C: Due to the high concentration of barium, chromium, and lead, the matrix spike / matrix spike duplicate (MS/MSD) for batch 680-286324 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria.

Method(s) 6010C: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 680-286324 were outside control limits arsenic and cadmium. The associated laboratory control sample (LCS) recovery met acceptance criteria.

Method(s) 6010C: The matrix spike / matrix spike duplicate (MS/MSD) precision for batch 680-286324 was outside control limits for barium and lead. Non-homogeneity of the sample matrix is suspected.

Method(s) 6010C: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 680-286279 were outside control limits for chromium. The associated laboratory control sample (LCS) recovery met acceptance criteria.

Method(s) 6010C: Due to the high concentration of arsenic, barium, and lead, the matrix spike / matrix spike duplicate (MS/MSD) for batch 680-286279 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria.

TOTAL MERCURY

Samples CV0256A-VGSO-CS (680-92626-1), CV0256A-VGSO-CSD (680-92626-2), HP0306A-VGSO-CS (680-92626-3), HP0306A-VGSO-CSD (680-92626-4), CV0827A-VGSO-CS (680-92626-5), CV0453A-VGSO-CS (680-92626-6), CV0272A-VGSO-CS (680-92626-7) and CV0083A-VGSO-CS (680-92626-8) were analyzed for total mercury in accordance with EPA SW-846 Method 7471B.

Method(s) 7471B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 680-286694 were outside control limits for mercury. The associated laboratory control sample (LCS) recovery met acceptance criteria.

Sample CV0453A-VGSO-CS (680-92626-6)[2X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

PERCENT SOLIDS/MOISTURE

Samples CV0256A-VGSO-CS (680-92626-1), CV0256A-VGSO-CSD (680-92626-2), HP0306A-VGSO-CS (680-92626-3), HP0306A-VGSO-CSD (680-92626-4), CV0827A-VGSO-CS (680-92626-5), CV0453A-VGSO-CS (680-92626-6), CV0272A-VGSO-CS (680-92626-7) and CV0083A-VGSO-CS (680-92626-8) were analyzed for Percent Solids/Moisture in accordance with TestAmerica SOP.

ATTACHMENT C

QUALIFIED SAMPLE RESULTS

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: CV0256A-VGSO-CS
Lab Sample ID: 680-92626-1
Lab Name: TestAmerica Savannah
Job No.: 680-92626-2
SDG ID.: 680-92626-02
Matrix: Solid
Date Sampled: 07/23/2013 11:35
Reporting Basis: DRY
Date Received: 07/25/2013 08:55
% Solids: 75.5

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	50	2.3	0.67	mg/Kg			1	6010C
7440-39-3	Barium	190	1.1	0.34	mg/Kg			1	6010C
7440-43-9	Cadmium	1.1	0.57	0.11	mg/Kg			1	6010C
7440-47-3	Chromium	24	1.1	0.57	mg/Kg	J		1	6010C
7439-92-1	Lead	130	1.1	0.60	mg/Kg			1	6010C
7782-49-2	Selenium	2.8	2.8	1.1	mg/Kg	U		1	6010C
7440-22-4	Silver	1.1	1.1	0.11	mg/Kg	U		1	6010C
7439-97-6	Mercury	0.38	0.024	0.0097	mg/Kg	J		1	7471B

8-13-13

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: CV0256A-VGSO-CSD
Lab Sample ID: 680-92626-2
Lab Name: TestAmerica Savannah
Job No.: 680-92626-2
SDG ID.: 680-92626-02
Matrix: Solid
Date Sampled: 07/23/2013 11:35
Reporting Basis: DRY
Date Received: 07/25/2013 08:55
% Solids: 75.7

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	67	2.5	0.73	mg/Kg			1	6010C
7440-39-3	Barium	220	1.2	0.37	mg/Kg			1	6010C
7440-43-9	Cadmium	1.6	0.62	0.12	mg/Kg			1	6010C
7440-47-3	Chromium	23	1.2	0.62	mg/Kg			1	6010C
7439-92-1	Lead	160	1.2	0.65	mg/Kg			1	6010C
7782-49-2	Selenium	3.1	3.1	1.2	mg/Kg	U		1	6010C
7440-22-4	Silver	0.13	1.2	0.12	mg/Kg	J		1	6010C
7439-97-6	Mercury	0.41	0.026	0.011	mg/Kg			1	7471B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: HP0306A-VGSO-CS
Lab Sample ID: 680-92626-3
Lab Name: TestAmerica Savannah
Job No.: 680-92626-2
SDG ID.: 680-92626-02
Matrix: Solid
Date Sampled: 07/23/2013 10:55
Reporting Basis: DRY
Date Received: 07/25/2013 08:55
% Solids: 80.4

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	38	2.3	0.68	mg/Kg			1	6010C
7440-39-3	Barium	190	1.2	0.35	mg/Kg			1	6010C
7440-43-9	Cadmium	0.38	0.58	0.12	mg/Kg	J		1	6010C
7440-47-3	Chromium	86	1.2	0.58	mg/Kg			1	6010C
7439-92-1	Lead	110	1.2	0.61	mg/Kg			1	6010C
7782-49-2	Selenium	2.9	2.9	1.2	mg/Kg	U		1	6010C
7440-22-4	Silver	1.2	1.2	0.11	mg/Kg	U		1	6010C
7439-97-6	Mercury	0.10	0.022	0.0089	mg/Kg			1	7471B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: HP0306A-VGSO-CSD
Lab Sample ID: 680-92626-4
Lab Name: TestAmerica Savannah
Job No.: 680-92626-2
SDG ID.: 680-92626-02
Matrix: Solid
Date Sampled: 07/23/2013 10:55
Reporting Basis: DRY
Date Received: 07/25/2013 08:55
% Solids: 78.4

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	36	2.5	0.73	mg/Kg			1	6010C
7440-39-3	Barium	180	1.2	0.37	mg/Kg			1	6010C
7440-43-9	Cadmium	0.64	0.62	0.12	mg/Kg			1	6010C
7440-47-3	Chromium	84	1.2	0.62	mg/Kg			1	6010C
7439-92-1	Lead	110	1.2	0.66	mg/Kg			1	6010C
7782-49-2	Selenium	3.1	3.1	1.2	mg/Kg	U		1	6010C
7440-22-4	Silver	1.2	1.2	0.12	mg/Kg	U		1	6010C
7439-97-6	Mercury	0.11	0.024	0.0097	mg/Kg			1	7471B

8-13-13

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: CV0827A-VGSO-CS
Lab Sample ID: 680-92626-5
Lab Name: TestAmerica Savannah
Job No.: 680-92626-2
SDG ID.: 680-92626-02
Matrix: Solid
Date Sampled: 07/23/2013 09:45
Reporting Basis: DRY
Date Received: 07/25/2013 08:55
% Solids: 69.1

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	31	2.5	0.74	mg/Kg			1	6010C
7440-39-3	Barium	630	1.3	0.38	mg/Kg			1	6010C
7440-43-9	Cadmium	2.8	0.63	0.13	mg/Kg			1	6010C
7440-47-3	Chromium	44	1.3	0.63	mg/Kg			1	6010C
7439-92-1	Lead	420	1.3	0.67	mg/Kg			1	6010C
7782-49-2	Selenium	3.1	3.1	1.3	mg/Kg	U		1	6010C
7440-22-4	Silver	0.28	1.3	0.12	mg/Kg	J		1	6010C
7439-97-6	Mercury	0.41	0.027	0.011	mg/Kg			1	7471B

8-13-13

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: CV0453A-VGSO-CS
Lab Sample ID: 680-92626-6
Lab Name: TestAmerica Savannah
Job No.: 680-92626-2
SDG ID.: 680-92626-02
Matrix: Solid
Date Sampled: 07/23/2013 13:25
Reporting Basis: DRY
Date Received: 07/25/2013 08:55
% Solids: 65.3

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	42	2.8	0.83	mg/Kg			1	6010C
7440-39-3	Barium	510	1.4	0.42	mg/Kg			1	6010C
7440-43-9	Cadmium	3.5	0.70	0.14	mg/Kg			1	6010C
7440-47-3	Chromium	45	1.4	0.70	mg/Kg			1	6010C
7439-92-1	Lead	1000	1.4	0.75	mg/Kg			1	6010C
7782-49-2	Selenium	3.5	3.5	1.4	mg/Kg	U		1	6010C
7440-22-4	Silver	1.5	1.4	0.13	mg/Kg			1	6010C
7439-97-6	Mercury	0.89	0.058	0.024	mg/Kg			2	7471B

8-13-13

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: CV0272A-VGSO-CS
Lab Sample ID: 680-92626-7
Lab Name: TestAmerica Savannah
Job No.: 680-92626-2
SDG ID.: 680-92626-02
Matrix: Solid
Date Sampled: 07/24/2013 09:40
Reporting Basis: DRY
Date Received: 07/25/2013 08:55
% Solids: 81.9

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	20	2.4	0.71	mg/Kg			1	6010C
7440-39-3	Barium	180	1.2	0.36	mg/Kg			1	6010C
7440-43-9	Cadmium	0.40	0.60	0.12	mg/Kg	J		1	6010C
7440-47-3	Chromium	64	1.2	0.60	mg/Kg			1	6010C
7439-92-1	Lead	130	1.2	0.63	mg/Kg			1	6010C
7782-49-2	Selenium	3.0	3.0	1.2	mg/Kg	U		1	6010C
7440-22-4	Silver	1.2	1.2	0.11	mg/Kg	U		1	6010C
7439-97-6	Mercury	0.25	0.022	0.0091	mg/Kg			1	7471B

8-13-13

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: CV0083A-VGSO-CS
Lab Sample ID: 680-92626-8
Lab Name: TestAmerica Savannah
Job No.: 680-92626-2
SDG ID.: 680-92626-02
Matrix: Solid
Date Sampled: 07/24/2013 08:55
Reporting Basis: DRY
Date Received: 07/25/2013 08:55
% Solids: 83.0

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	18	2.3	0.67	mg/Kg	J		1	6010C
7440-39-3	Barium	210	1.1	0.34	mg/Kg			1	6010C
7440-43-9	Cadmium	2.8	0.57	0.11	mg/Kg			1	6010C
7440-47-3	Chromium	86	1.1	0.57	mg/Kg	J		1	6010C
7439-92-1	Lead	160	1.1	0.60	mg/Kg	J		1	6010C
7782-49-2	Selenium	1.4	2.8	1.1	mg/Kg	J		1	6010C
7440-22-4	Silver	0.21	1.1	0.11	mg/Kg	J		1	6010C
7439-97-6	Mercury	0.37	0.024	0.0097	mg/Kg			1	7471B

8-13-13

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Savannah Job No.: 680-92626-2

SDG No.: 680-92626-02

Concentration Units: mg/Kg Lab Sample ID: MB 680-286324/1-A

Instrument Code: ICPE Batch No.: 287225

CAS No.	Analyte	Concentration	C	Q	Method
7440-38-2	Arsenic	2.0	U		6010C
7440-39-3	Barium	1.0	U		6010C
7440-43-9	Cadmium	0.50	U		6010C
7440-47-3	Chromium	1.0	U		6010C
7439-92-1	Lead	1.0	U		6010C
7782-49-2	Selenium	2.5	U		6010C
7440-22-4	Silver	1.0	U		6010C

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Savannah Job No.: 680-92626-2

SDG No.: 680-92626-02

Concentration Units: mg/Kg Lab Sample ID: MB 680-286279/1-A

Instrument Code: ICPE Batch No.: 287699

CAS No.	Analyte	Concentration	C	Q	Method
7440-38-2	Arsenic	2.0	U		6010C
7440-39-3	Barium	0.99	U		6010C
7440-43-9	Cadmium	0.50	U		6010C
7440-47-3	Chromium	0.99	U		6010C
7439-92-1	Lead	0.99	U		6010C
7782-49-2	Selenium	2.5	U		6010C
7440-22-4	Silver	0.99	U		6010C

8-13-13

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Savannah Job No.: 680-92626-2

SDG No.: 680-92626-02

Concentration Units: mg/Kg Lab Sample ID: MB 680-286694/1-A

Instrument Code: LEEMAN2 Batch No.: 287160

CAS No.	Analyte	Concentration	C	Q	Method
7439-97-6	Mercury	0.019	U		7471B

8-13-13

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 680-92626-2

SDG Number: 680-92626-02

Job Description: 35th Avenue Superfund Site

For:
Oneida Total Integrated Enterprises LLC
1220 Kennestone Circle
Suite 106
Marietta, GA 30060

Attention: Ms. Limari F Krebs

Approved for release.
Lisa M Harvey
Project Manager II
8/6/2013 3:34 PM

Lisa M Harvey, Project Manager II
5102 LaRoche Avenue, Savannah, GA, 31404
(912)354-7858 e.3221
lisa.harvey@testamericainc.com
08/06/2013

The test results in this report meet NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted. Results pertain only to samples listed in this report. This report may not be reproduced, except in full, without the written approval of the laboratory. Questions should be directed to the person who signed this report.

Savannah Certifications and ID #s: A2LA: 0399.01; AL: 41450; ARDEQ: 88-0692; ARDOH; AZ: AZ0741; CA: 03217CA; CO; CT: PH0161; DE; FL: E87052; GA: 803; Guam; HI; IL: 200022; IN: C-GA-02; IA: 353; KS: E-10322; KY EPPC: 90084; KY UST; LA DEQ: 30690; LA DHH: LA080008; ME: 2008022; MD: 250; MA: M-GA006; MI: 9925; MS; NFESC: 249; NV: GA00006; NJ: GA769; NM; NY: 10842; NC DWQ: 269; NC DHHS: 13701; PA: 68-00474; PR: GA00006; RI: LAO00244; SC: 98001001; TN: TN0296; TX: T104704185; USEPA: GA00006; VT: VT-87052; VA: 00302; WA; WV DEP: 094; WV DHHR: 9950 C; WI DNR: 999819810; WY/EPAR8: 8TMS-Q

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CASE NARRATIVE
Client: Oneida Total Integrated Enterprises LLC
Project: 35th Avenue Superfund Site
Report Number: 680-92626-2

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 07/25/2013; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 5.8 C.

METALS (ICP)

Samples CV0256A-VGSO-CS (680-92626-1), CV0256A-VGSO-CSD (680-92626-2), HP0306A-VGSO-CS (680-92626-3), HP0306A-VGSO-CSD (680-92626-4), CV0827A-VGSO-CS (680-92626-5), CV0453A-VGSO-CS (680-92626-6), CV0272A-VGSO-CS (680-92626-7) and CV0083A-VGSO-CS (680-92626-8) were analyzed for Metals (ICP) in accordance with EPA SW-846 Method 6010C.

Method(s) 6010C: The serial dilution performed for the following sample(s) associated with batch 680-286324 was outside control limits for lead: (680-92626-8 SD)

Method(s) 6010C: The post digestion spike % recovery for silver associated with batch 680-286324 was outside of control limits.

Method(s) 6010C: Due to the high concentration of barium, chromium, and lead, the matrix spike / matrix spike duplicate (MS/MSD) for batch 680-286324 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria.

Method(s) 6010C: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 680-286324 were outside control limits arsenic and cadmium. The associated laboratory control sample (LCS) recovery met acceptance criteria.

Method(s) 6010C: The matrix spike / matrix spike duplicate (MS/MSD) precision for batch 680-286324 was outside control limits for barium and lead. Non-homogeneity of the sample matrix is suspected.

Method(s) 6010C: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 680-286279 were outside control limits for chromium. The associated laboratory control sample (LCS) recovery met acceptance criteria.

Method(s) 6010C: Due to the high concentration of arsenic, barium, and lead, the matrix spike / matrix spike duplicate (MS/MSD) for batch 680-286279 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria.

TOTAL MERCURY

Samples CV0256A-VGSO-CS (680-92626-1), CV0256A-VGSO-CSD (680-92626-2), HP0306A-VGSO-CS (680-92626-3), HP0306A-VGSO-CSD (680-92626-4), CV0827A-VGSO-CS (680-92626-5), CV0453A-VGSO-CS (680-92626-6), CV0272A-VGSO-CS (680-92626-7) and CV0083A-VGSO-CS (680-92626-8) were analyzed for total mercury in accordance with EPA SW-846 Method 7471B.

Method(s) 7471B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 680-286694 were outside control limits for mercury. The associated laboratory control sample (LCS) recovery met acceptance criteria.

Sample CV0453A-VGSO-CS (680-92626-6)[2X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

PERCENT SOLIDS/MOISTURE

Samples CV0256A-VGSO-CS (680-92626-1), CV0256A-VGSO-CSD (680-92626-2), HP0306A-VGSO-CS (680-92626-3), HP0306A-VGSO-CSD (680-92626-4), CV0827A-VGSO-CS (680-92626-5), CV0453A-VGSO-CS (680-92626-6), CV0272A-VGSO-CS (680-92626-7) and CV0083A-VGSO-CS (680-92626-8) were analyzed for Percent Solids/Moisture in accordance with TestAmerica SOP.

SAMPLE SUMMARY

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-92626-2
Sdg Number: 680-92626-02

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
680-92626-1	CV0256A-VGSO-CS	Solid	07/23/2013 1135	07/25/2013 0855
680-92626-1MS	CV0256A-VGSO-CS	Solid	07/23/2013 1135	07/25/2013 0855
680-92626-1MSD	CV0256A-VGSO-CS	Solid	07/23/2013 1135	07/25/2013 0855
680-92626-2	CV0256A-VGSO-CSD	Solid	07/23/2013 1135	07/25/2013 0855
680-92626-3	HP0306A-VGSO-CS	Solid	07/23/2013 1055	07/25/2013 0855
680-92626-4	HP0306A-VGSO-CSD	Solid	07/23/2013 1055	07/25/2013 0855
680-92626-5	CV0827A-VGSO-CS	Solid	07/23/2013 0945	07/25/2013 0855
680-92626-6	CV0453A-VGSO-CS	Solid	07/23/2013 1325	07/25/2013 0855
680-92626-7	CV0272A-VGSO-CS	Solid	07/24/2013 0940	07/25/2013 0855
680-92626-8	CV0083A-VGSO-CS	Solid	07/24/2013 0855	07/25/2013 0855

METHOD SUMMARY

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-92626-2
Sdg Number: 680-92626-02

Description	Lab Location	Method	Preparation Method
Matrix: Solid			
Metals (ICP)	TAL SAV	SW846 6010C	
Preparation, Metals	TAL SAV		SW846 3050B
Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)	TAL SAV	SW846 7471B	
Preparation, Mercury	TAL SAV		SW846 7471B
Percent Moisture	TAL TAM	EPA Moisture	

Lab References:

TAL SAV = TestAmerica Savannah

TAL TAM = TestAmerica Tampa

Method References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-92626-2
Sdg Number: 680-92626-02

Method	Analyst	Analyst ID
SW846 6010C	Bland, Brian C	BCB
SW846 7471B	Bland, Brian C	BCB
EPA Moisture	Galio, Andrew	AJG

DATA REPORTING QUALIFIERS

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-92626-2
Sdg Number: 680-92626-02

Lab Section	Qualifier	Description
Metals		
	U	Indicates the analyte was analyzed for but not detected.
	F	MS or MSD exceeds the control limits
	4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
	W	PS: Post-digestion spike was outside control limits
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
	F	RPD of the MS and MSD exceeds the control limits
	V	Serial Dilution exceeds the control limits

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-92626-2
Sdg Number: 680-92626-02

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 680-286279					
LCS 680-286279/2-A	Lab Control Sample	T	Solid	3050B	
MB 680-286279/1-A	Method Blank	T	Solid	3050B	
680-92626-1	CV0256A-VGSO-CS	T	Solid	3050B	
680-92626-1MS	Matrix Spike	T	Solid	3050B	
680-92626-1MSD	Matrix Spike Duplicate	T	Solid	3050B	
680-92626-2	CV0256A-VGSO-CSD	T	Solid	3050B	
680-92626-3	HP0306A-VGSO-CS	T	Solid	3050B	
680-92626-4	HP0306A-VGSO-CSD	T	Solid	3050B	
680-92626-5	CV0827A-VGSO-CS	T	Solid	3050B	
680-92626-6	CV0453A-VGSO-CS	T	Solid	3050B	
680-92626-7	CV0272A-VGSO-CS	T	Solid	3050B	
Prep Batch: 680-286324					
LCS 680-286324/2-A	Lab Control Sample	T	Solid	3050B	
MB 680-286324/1-A	Method Blank	T	Solid	3050B	
680-92626-8	CV0083A-VGSO-CS	T	Solid	3050B	
680-92626-8MS	Matrix Spike	T	Solid	3050B	
680-92626-8MSD	Matrix Spike Duplicate	T	Solid	3050B	
Prep Batch: 680-286694					
LCS 680-286694/2-A	Lab Control Sample	T	Solid	7471B	
MB 680-286694/1-A	Method Blank	T	Solid	7471B	
680-92626-1	CV0256A-VGSO-CS	T	Solid	7471B	
680-92626-1MS	Matrix Spike	T	Solid	7471B	
680-92626-1MSD	Matrix Spike Duplicate	T	Solid	7471B	
680-92626-2	CV0256A-VGSO-CSD	T	Solid	7471B	
680-92626-3	HP0306A-VGSO-CS	T	Solid	7471B	
680-92626-4	HP0306A-VGSO-CSD	T	Solid	7471B	
680-92626-5	CV0827A-VGSO-CS	T	Solid	7471B	
680-92626-6	CV0453A-VGSO-CS	T	Solid	7471B	
680-92626-7	CV0272A-VGSO-CS	T	Solid	7471B	
680-92626-8	CV0083A-VGSO-CS	T	Solid	7471B	

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-92626-2
Sdg Number: 680-92626-02

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Analysis Batch:680-287160					
LCS 680-286694/2-A	Lab Control Sample	T	Solid	7471B	680-286694
MB 680-286694/1-A	Method Blank	T	Solid	7471B	680-286694
680-92626-1	CV0256A-VGSO-CS	T	Solid	7471B	680-286694
680-92626-1MS	Matrix Spike	T	Solid	7471B	680-286694
680-92626-1MSD	Matrix Spike Duplicate	T	Solid	7471B	680-286694
680-92626-2	CV0256A-VGSO-CSD	T	Solid	7471B	680-286694
680-92626-3	HP0306A-VGSO-CS	T	Solid	7471B	680-286694
680-92626-4	HP0306A-VGSO-CSD	T	Solid	7471B	680-286694
680-92626-5	CV0827A-VGSO-CS	T	Solid	7471B	680-286694
680-92626-6	CV0453A-VGSO-CS	T	Solid	7471B	680-286694
680-92626-7	CV0272A-VGSO-CS	T	Solid	7471B	680-286694
680-92626-8	CV0083A-VGSO-CS	T	Solid	7471B	680-286694
Analysis Batch:680-287225					
LCS 680-286324/2-A	Lab Control Sample	T	Solid	6010C	680-286324
MB 680-286324/1-A	Method Blank	T	Solid	6010C	680-286324
680-92626-8	CV0083A-VGSO-CS	T	Solid	6010C	680-286324
680-92626-8MS	Matrix Spike	T	Solid	6010C	680-286324
680-92626-8MSD	Matrix Spike Duplicate	T	Solid	6010C	680-286324
Analysis Batch:680-287699					
LCS 680-286279/2-A	Lab Control Sample	T	Solid	6010C	680-286279
MB 680-286279/1-A	Method Blank	T	Solid	6010C	680-286279
680-92626-1	CV0256A-VGSO-CS	T	Solid	6010C	680-286279
680-92626-1MS	Matrix Spike	T	Solid	6010C	680-286279
680-92626-1MSD	Matrix Spike Duplicate	T	Solid	6010C	680-286279
680-92626-2	CV0256A-VGSO-CSD	T	Solid	6010C	680-286279
680-92626-3	HP0306A-VGSO-CS	T	Solid	6010C	680-286279
680-92626-4	HP0306A-VGSO-CSD	T	Solid	6010C	680-286279
680-92626-5	CV0827A-VGSO-CS	T	Solid	6010C	680-286279
680-92626-6	CV0453A-VGSO-CS	T	Solid	6010C	680-286279
680-92626-7	CV0272A-VGSO-CS	T	Solid	6010C	680-286279

Report Basis
T = Total

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-92626-2
Sdg Number: 680-92626-02

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:660-139851					
LCS 660-139851/1	Lab Control Sample	T	Solid	Moisture	
LCSD 660-139851/17	Lab Control Sample Duplicate	T	Solid	Moisture	
680-92626-1	CV0256A-VGSO-CS	T	Solid	Moisture	
680-92626-1MS	Matrix Spike	T	Solid	Moisture	
680-92626-1MSD	Matrix Spike Duplicate	T	Solid	Moisture	
Analysis Batch:660-139871					
680-92626-2	CV0256A-VGSO-CSD	T	Solid	Moisture	
680-92626-3	HP0306A-VGSO-CS	T	Solid	Moisture	
680-92626-4	HP0306A-VGSO-CSD	T	Solid	Moisture	
680-92626-5	CV0827A-VGSO-CS	T	Solid	Moisture	
680-92626-6	CV0453A-VGSO-CS	T	Solid	Moisture	
680-92626-7	CV0272A-VGSO-CS	T	Solid	Moisture	
680-92626-8	CV0083A-VGSO-CS	T	Solid	Moisture	

Report Basis
T = Total

METALS

COVER PAGE
METALS

Lab Name: TestAmerica Savannah Job Number: 680-92626-2

SDG No.: 680-92626-02

Project: 35th Avenue Superfund Site

Client Sample ID	Lab Sample ID
CV0256A-VGSO-CS	680-92626-1
CV0256A-VGSO-CSD	680-92626-2
HP0306A-VGSO-CS	680-92626-3
HP0306A-VGSO-CSD	680-92626-4
CV0827A-VGSO-CS	680-92626-5
CV0453A-VGSO-CS	680-92626-6
CV0272A-VGSO-CS	680-92626-7
CV0083A-VGSO-CS	680-92626-8

Comments:

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: CV0256A-VGSO-CS
Lab Sample ID: 680-92626-1
Lab Name: TestAmerica Savannah
Job No.: 680-92626-2
SDG ID.: 680-92626-02
Matrix: Solid
Date Sampled: 07/23/2013 11:35
Reporting Basis: DRY
Date Received: 07/25/2013 08:55
% Solids: 75.5

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	50	2.3	0.67	mg/Kg			1	6010C
7440-39-3	Barium	190	1.1	0.34	mg/Kg			1	6010C
7440-43-9	Cadmium	1.1	0.57	0.11	mg/Kg			1	6010C
7440-47-3	Chromium	24	1.1	0.57	mg/Kg			1	6010C
7439-92-1	Lead	130	1.1	0.60	mg/Kg			1	6010C
7782-49-2	Selenium	2.8	2.8	1.1	mg/Kg	U		1	6010C
7440-22-4	Silver	1.1	1.1	0.11	mg/Kg	U		1	6010C
7439-97-6	Mercury	0.38	0.024	0.0097	mg/Kg			1	7471B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: CV0256A-VGSO-CSD
Lab Sample ID: 680-92626-2
Lab Name: TestAmerica Savannah
Job No.: 680-92626-2
SDG ID.: 680-92626-02
Matrix: Solid
Date Sampled: 07/23/2013 11:35
Reporting Basis: DRY
Date Received: 07/25/2013 08:55
% Solids: 75.7

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	67	2.5	0.73	mg/Kg			1	6010C
7440-39-3	Barium	220	1.2	0.37	mg/Kg			1	6010C
7440-43-9	Cadmium	1.6	0.62	0.12	mg/Kg			1	6010C
7440-47-3	Chromium	23	1.2	0.62	mg/Kg			1	6010C
7439-92-1	Lead	160	1.2	0.65	mg/Kg			1	6010C
7782-49-2	Selenium	3.1	3.1	1.2	mg/Kg	U		1	6010C
7440-22-4	Silver	0.13	1.2	0.12	mg/Kg	J		1	6010C
7439-97-6	Mercury	0.41	0.026	0.011	mg/Kg			1	7471B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: HP0306A-VGSO-CS
Lab Sample ID: 680-92626-3
Lab Name: TestAmerica Savannah
Job No.: 680-92626-2
SDG ID.: 680-92626-02
Matrix: Solid
Date Sampled: 07/23/2013 10:55
Reporting Basis: DRY
Date Received: 07/25/2013 08:55
% Solids: 80.4

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	38	2.3	0.68	mg/Kg			1	6010C
7440-39-3	Barium	190	1.2	0.35	mg/Kg			1	6010C
7440-43-9	Cadmium	0.38	0.58	0.12	mg/Kg	J		1	6010C
7440-47-3	Chromium	86	1.2	0.58	mg/Kg			1	6010C
7439-92-1	Lead	110	1.2	0.61	mg/Kg			1	6010C
7782-49-2	Selenium	2.9	2.9	1.2	mg/Kg	U		1	6010C
7440-22-4	Silver	1.2	1.2	0.11	mg/Kg	U		1	6010C
7439-97-6	Mercury	0.10	0.022	0.0089	mg/Kg			1	7471B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: HP0306A-VGSO-CSD
Lab Sample ID: 680-92626-4
Lab Name: TestAmerica Savannah
Job No.: 680-92626-2
SDG ID.: 680-92626-02
Matrix: Solid
Date Sampled: 07/23/2013 10:55
Reporting Basis: DRY
Date Received: 07/25/2013 08:55
% Solids: 78.4

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	36	2.5	0.73	mg/Kg			1	6010C
7440-39-3	Barium	180	1.2	0.37	mg/Kg			1	6010C
7440-43-9	Cadmium	0.64	0.62	0.12	mg/Kg			1	6010C
7440-47-3	Chromium	84	1.2	0.62	mg/Kg			1	6010C
7439-92-1	Lead	110	1.2	0.66	mg/Kg			1	6010C
7782-49-2	Selenium	3.1	3.1	1.2	mg/Kg	U		1	6010C
7440-22-4	Silver	1.2	1.2	0.12	mg/Kg	U		1	6010C
7439-97-6	Mercury	0.11	0.024	0.0097	mg/Kg			1	7471B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: CV0827A-VGSO-CS
Lab Sample ID: 680-92626-5
Lab Name: TestAmerica Savannah
Job No.: 680-92626-2
SDG ID.: 680-92626-02
Matrix: Solid
Date Sampled: 07/23/2013 09:45
Reporting Basis: DRY
Date Received: 07/25/2013 08:55
% Solids: 69.1

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	31	2.5	0.74	mg/Kg			1	6010C
7440-39-3	Barium	630	1.3	0.38	mg/Kg			1	6010C
7440-43-9	Cadmium	2.8	0.63	0.13	mg/Kg			1	6010C
7440-47-3	Chromium	44	1.3	0.63	mg/Kg			1	6010C
7439-92-1	Lead	420	1.3	0.67	mg/Kg			1	6010C
7782-49-2	Selenium	3.1	3.1	1.3	mg/Kg	U		1	6010C
7440-22-4	Silver	0.28	1.3	0.12	mg/Kg	J		1	6010C
7439-97-6	Mercury	0.41	0.027	0.011	mg/Kg			1	7471B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: CV0453A-VGSO-CS
Lab Sample ID: 680-92626-6
Lab Name: TestAmerica Savannah
Job No.: 680-92626-2
SDG ID.: 680-92626-02
Matrix: Solid
Date Sampled: 07/23/2013 13:25
Reporting Basis: DRY
Date Received: 07/25/2013 08:55
% Solids: 65.3

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	42	2.8	0.83	mg/Kg			1	6010C
7440-39-3	Barium	510	1.4	0.42	mg/Kg			1	6010C
7440-43-9	Cadmium	3.5	0.70	0.14	mg/Kg			1	6010C
7440-47-3	Chromium	45	1.4	0.70	mg/Kg			1	6010C
7439-92-1	Lead	1000	1.4	0.75	mg/Kg			1	6010C
7782-49-2	Selenium	3.5	3.5	1.4	mg/Kg	U		1	6010C
7440-22-4	Silver	1.5	1.4	0.13	mg/Kg			1	6010C
7439-97-6	Mercury	0.89	0.058	0.024	mg/Kg			2	7471B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: CV0272A-VGSO-CS
Lab Sample ID: 680-92626-7
Lab Name: TestAmerica Savannah
Job No.: 680-92626-2
SDG ID.: 680-92626-02
Matrix: Solid
Date Sampled: 07/24/2013 09:40
Reporting Basis: DRY
Date Received: 07/25/2013 08:55
% Solids: 81.9

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	20	2.4	0.71	mg/Kg			1	6010C
7440-39-3	Barium	180	1.2	0.36	mg/Kg			1	6010C
7440-43-9	Cadmium	0.40	0.60	0.12	mg/Kg	J		1	6010C
7440-47-3	Chromium	64	1.2	0.60	mg/Kg			1	6010C
7439-92-1	Lead	130	1.2	0.63	mg/Kg			1	6010C
7782-49-2	Selenium	3.0	3.0	1.2	mg/Kg	U		1	6010C
7440-22-4	Silver	1.2	1.2	0.11	mg/Kg	U		1	6010C
7439-97-6	Mercury	0.25	0.022	0.0091	mg/Kg			1	7471B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: CV0083A-VGSO-CS
Lab Sample ID: 680-92626-8
Lab Name: TestAmerica Savannah
Job No.: 680-92626-2
SDG ID.: 680-92626-02
Matrix: Solid
Date Sampled: 07/24/2013 08:55
Reporting Basis: DRY
Date Received: 07/25/2013 08:55
% Solids: 83.0

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	18	2.3	0.67	mg/Kg			1	6010C
7440-39-3	Barium	210	1.1	0.34	mg/Kg			1	6010C
7440-43-9	Cadmium	2.8	0.57	0.11	mg/Kg			1	6010C
7440-47-3	Chromium	86	1.1	0.57	mg/Kg			1	6010C
7439-92-1	Lead	160	1.1	0.60	mg/Kg			1	6010C
7782-49-2	Selenium	1.4	2.8	1.1	mg/Kg	J		1	6010C
7440-22-4	Silver	0.21	1.1	0.11	mg/Kg	J		1	6010C
7439-97-6	Mercury	0.37	0.024	0.0097	mg/Kg			1	7471B

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Savannah Job No.: 680-92626-2

SDG No.: 680-92626-02

ICV Source: P_ICV_wk_00216 Concentration Units: ug/L

CCV Source: P_CCV_wk_00112

Analyte	ICV 680-287225/6 07/31/2013 14:35				CCV 680-287225/141 08/01/2013 01:17				CCV 680-287225/153 08/01/2013 02:13			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Arsenic	1010		1000	101	477		500	95	476		500	95
Barium	1020		1000	102	4910		5000	98	4910		5000	98
Cadmium	1010		1000	101	491		500	98	490		500	98
Chromium	1020		1000	102	5030		5000	101	5040		5000	101
Lead	1010		1000	101	489		500	98	493		500	99
Selenium	984		1000	98	4800		5000	96	4830		5000	97
Silver	962		1000	96	490		500	98	490		500	98

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Savannah Job No.: 680-92626-2

SDG No.: 680-92626-02

ICV Source: P_ICV_wk_00216 Concentration Units: ug/L

CCV Source: P_CCV_wk_00112

Analyte	CCV 680-287225/165 08/01/2013 03:09											
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Arsenic	497		500	99								
Barium	5130		5000	103								
Cadmium	513		500	103								
Chromium	5270		5000	105								
Lead	516		500	103								
Selenium	5050		5000	101								
Silver	518		500	104								

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Savannah Job No.: 680-92626-2

SDG No.: 680-92626-02

ICV Source: P_ICV_wk_00216 Concentration Units: ug/L

CCV Source: P_CCV_wk_00112

Analyte	ICV 680-287699/4 08/02/2013 13:23				CCV 680-287699/12 08/02/2013 14:13				CCV 680-287699/24 08/02/2013 15:08			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Arsenic	1040		1000	104	506		500	101	495		500	99
Barium	1040		1000	104	5050		5000	101	5020		5000	100
Cadmium	1030		1000	103	512		500	102	507		500	101
Chromium	1050		1000	105	5190		5000	104	5140		5000	103
Lead	1040		1000	104	510		500	102	507		500	101
Selenium	1010		1000	101	5080		5000	102	5050		5000	101
Silver	1000		1000	100	510		500	102	506		500	101

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Savannah Job No.: 680-92626-2

SDG No.: 680-92626-02

ICV Source: P_ICV_wk_00216 Concentration Units: ug/L

CCV Source: P_CCV_wk_00112

Analyte	CCV 680-287699/36 08/02/2013 16:03											
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Arsenic	503		500	101								
Barium	5020		5000	100								
Cadmium	506		500	101								
Chromium	5130		5000	103								
Lead	505		500	101								
Selenium	5060		5000	101								
Silver	509		500	102								

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Savannah Job No.: 680-92626-2

SDG No.: 680-92626-02

ICV Source: hg_icvint_00089 Concentration Units: ug/L

CCV Source: Hg_Int_Cal_00094

Analyte	ICV 680-286694/25-A 07/30/2013 17:05				CCV 680-286694/22-A 07/30/2013 17:13				CCV 680-286694/22-A 07/30/2013 17:44			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury	2.89		3.00	96	2.48		2.50	99	2.42		2.50	97

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

Lab Name: TestAmerica Savannah Job No.: 680-92626-2

SDG No.: 680-92626-02

ICV Source: hg_icvint_00089 Concentration Units: ug/L

CCV Source: Hg_Int_Cal_00094

Analyte	CCV 680-286694/22-A 07/30/2013 18:02				CCV 680-286694/22-A 07/31/2013 10:35				CCV 680-286694/22-A 07/31/2013 10:46			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury	2.50		2.50	100	2.21		2.50	88	2.44		2.50	98

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2B-IN
CRQL CHECK STANDARD
METALS

Lab Name: TestAmerica Savannah Job No.: 680-92626-2

SDG No.: 680-92626-02

Method: 6010C Instrument ID: ICPE

Lab Sample ID: CRI 680-287225/8 Concentration Units: ug/L

CRQL Check Standard Source: P_CRI_00025

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Arsenic	20.0	20.5		103	50-150
Barium	10.0	9.40	J	94	50-150
Cadmium	5.00	4.77	J	95	50-150
Chromium	10.0	9.54	J	95	50-150
Lead	10.0	8.89	J	89	50-150
Selenium	20.0	20.9	J	105	50-150
Silver	10.0	8.91	J	89	50-150

Lab Sample ID: CRI 680-287225/294 Concentration Units: ug/L

CRQL Check Standard Source: P_CRI_00025

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Arsenic	20.0	19.2	J	96	50-150
Barium	10.0	9.39	J	94	50-150
Cadmium	5.00	4.63	J	93	50-150
Chromium	10.0	9.36	J	94	50-150
Lead	10.0	8.65	J	86	50-150
Selenium	20.0	19.9	J	100	50-150
Silver	10.0	8.73	J	87	50-150

Lab Sample ID: CRI 680-287699/6 Concentration Units: ug/L

CRQL Check Standard Source: P_CRI_00025

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Arsenic	20.0	18.6	J	93	50-150
Barium	10.0	9.42	J	94	50-150
Cadmium	5.00	4.69	J	94	50-150
Chromium	10.0	9.55	J	96	50-150
Lead	10.0	8.45	J	84	50-150
Selenium	20.0	18.2	J	91	50-150
Silver	10.0	9.07	J	91	50-150

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IIB-IN

2B-IN
CRQL CHECK STANDARD
METALS

Lab Name: TestAmerica Savannah Job No.: 680-92626-2

SDG No.: 680-92626-02

Method: 6010C Instrument ID: ICPE

Lab Sample ID: CRI 680-287699/172 Concentration Units: ug/L

CRQL Check Standard Source: P_CRI_00025

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Arsenic	20.0	15.8	J	79	50-150
Barium	10.0	9.24	J	92	50-150
Cadmium	5.00	4.59	J	92	50-150
Chromium	10.0	9.43	J	94	50-150
Lead	10.0	8.95	J	90	50-150
Selenium	20.0	14.1	J	71	50-150
Silver	10.0	9.24	J	92	50-150

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IIB-IN

2B-IN
CRQL CHECK STANDARD
METALS

Lab Name: TestAmerica Savannah Job No.: 680-92626-2

SDG No.: 680-92626-02

Method: 7471B Instrument ID: LEEMAN2

Lab Sample ID: CRA 680-286694/27-A Concentration Units: ug/L

CRQL Check Standard Source: Hg_Int_Cal_00094

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Mercury	0.200	0.225		113	50-150

Lab Sample ID: CRA 680-287160/28 Concentration Units: ug/L

CRQL Check Standard Source:

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Mercury		0.206			

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IIB-IN

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Savannah Job No.: 680-92626-2

SDG No.: 680-92626-02

Concentration Units: ug/L

Analyte	RL	ICBIS 680-287225/7 07/31/2013 14:43		CCB 680-287225/142 08/01/2013 01:22		CCB 680-287225/154 08/01/2013 02:18		CCB 680-287225/166 08/01/2013 03:13	
		Found	C	Found	C	Found	C	Found	C
Arsenic	20	20	U	20	U	20	U	20	U
Barium	10	10	U	10	U	10	U	10	U
Cadmium	5.0	5.0	U	5.0	U	5.0	U	5.0	U
Chromium	10	10	U	10	U	10	U	10	U
Lead	10	10	U	10	U	10	U	10	U
Selenium	25	25	U	25	U	25	U	25	U
Silver	10	10	U	10	U	10	U	10	U

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Savannah Job No.: 680-92626-2

SDG No.: 680-92626-02

Concentration Units: ug/L

Analyte	RL	ICBIS 680-287699/5 08/02/2013 13:32		CCB 680-287699/13 08/02/2013 14:17		CCB 680-287699/25 08/02/2013 15:13		CCB 680-287699/37 08/02/2013 16:08	
		Found	C	Found	C	Found	C	Found	C
Arsenic	20	20	U	20	U	20	U	20	U
Barium	10	10	U	10	U	10	U	10	U
Cadmium	5.0	5.0	U	5.0	U	5.0	U	5.0	U
Chromium	10	10	U	10	U	10	U	10	U
Lead	10	10	U	10	U	10	U	10	U
Selenium	25	25	U	25	U	25	U	25	U
Silver	10	10	U	10	U	10	U	10	U

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Savannah Job No.: 680-92626-2

SDG No.: 680-92626-02

Concentration Units: ug/L

Analyte	RL	ICB 680-286694/26-A 07/30/2013 17:07		CCB 680-286694/23-A 07/30/2013 17:15		CCB 680-286694/23-A 07/30/2013 17:47		CCB 680-286694/23-A 07/30/2013 18:05	
		Found	C	Found	C	Found	C	Found	C
Mercury	0.20	0.20	U	0.20	U	0.20	U	0.20	U

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Savannah Job No.: 680-92626-2

SDG No.: 680-92626-02

Concentration Units: ug/L

Analyte	RL	CCB 680-286694/23-A 07/31/2013 10:38		CCB 680-286694/23-A 07/31/2013 10:48					
		Found	C	Found	C	Found	C	Found	C
Mercury	0.20	0.20	U	0.20	U				

Italicized analytes were not requested for this sequence.

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Savannah Job No.: 680-92626-2

SDG No.: 680-92626-02

Concentration Units: mg/Kg Lab Sample ID: MB 680-286324/1-A

Instrument Code: ICPE Batch No.: 287225

CAS No.	Analyte	Concentration	C	Q	Method
7440-38-2	Arsenic	2.0	U		6010C
7440-39-3	Barium	1.0	U		6010C
7440-43-9	Cadmium	0.50	U		6010C
7440-47-3	Chromium	1.0	U		6010C
7439-92-1	Lead	1.0	U		6010C
7782-49-2	Selenium	2.5	U		6010C
7440-22-4	Silver	1.0	U		6010C

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Savannah Job No.: 680-92626-2

SDG No.: 680-92626-02

Concentration Units: mg/Kg Lab Sample ID: MB 680-286279/1-A

Instrument Code: ICPE Batch No.: 287699

CAS No.	Analyte	Concentration	C	Q	Method
7440-38-2	Arsenic	2.0	U		6010C
7440-39-3	Barium	0.99	U		6010C
7440-43-9	Cadmium	0.50	U		6010C
7440-47-3	Chromium	0.99	U		6010C
7439-92-1	Lead	0.99	U		6010C
7782-49-2	Selenium	2.5	U		6010C
7440-22-4	Silver	0.99	U		6010C

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Savannah Job No.: 680-92626-2

SDG No.: 680-92626-02

Concentration Units: mg/Kg Lab Sample ID: MB 680-286694/1-A

Instrument Code: LEEMAN2 Batch No.: 287160

CAS No.	Analyte	Concentration	C	Q	Method
7439-97-6	Mercury	0.019	U		7471B

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Savannah Job No.: 680-92626-2

SDG No.: 680-92626-02

Lab Sample ID: ICSA 680-287225/9 Instrument ID: ICPE

Lab File ID: E07312013.csv ICS Source: P_ICSA_wk_00032

Concentration Units: ug/L

Analyte	True Solution A	Found Solution A	Found Percent Recovery
Arsenic		**-0.358**	
Barium		**-12.5**	
Cadmium		**-0.668**	
Chromium		**0.588**	
Lead		**3.35**	
Selenium		**17.5**	
Silver		**-0.532**	
Aluminum	*500000*	*502405*	*100*
Antimony		*5.44*	
Beryllium		*-0.0973*	
Boron		*-15.2*	
Calcium	*500000*	*478126*	*96*
Cobalt		*0.301*	
Copper		*2.02*	
Iron	*200000*	*182436*	*91*
Magnesium	*500000*	*511753*	*102*
Manganese		*0.0513*	
Molybdenum		*1.60*	
Nickel		*7.70*	
Potassium		*-1.52*	
Sodium		*-326*	
Strontium		*4.79*	
Thallium		*-13.2*	
Tin		*-3.30*	
Titanium		*1.66*	
Vanadium		*3.81*	
Zinc		*19.8*	

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IVA-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Savannah Job No.: 680-92626-2

SDG No.: 680-92626-02

Lab Sample ID: ICSAB 680-287225/10 Instrument ID: ICPE

Lab File ID: E07312013.csv ICS Source: P_ICSAB_wk_00045

Concentration Units: ug/L

Analyte	True Solution AB	Found Solution AB	Percent Recovery
Arsenic	**100**	**105**	**105**
Barium	**500**	**510**	**102**
Cadmium	**1000**	**968**	**97**
Chromium	**500**	**513**	**103**
Lead	**50.0**	**51.4**	**103**
Selenium	**50.0**	**56.6**	**113**
Silver	**200**	**222**	**111**
Aluminum	*500000*	*513478*	*103*
Antimony	*600*	*637*	*106*
Beryllium	*500*	*492*	*98*
Boron		*-15.0*	
Calcium	*500000*	*492441*	*98*
Cobalt	*500*	*490*	*98*
Copper	*500*	*577*	*115*
Iron	*200000*	*189504*	*95*
Magnesium	*500000*	*532198*	*106*
Manganese	*500*	*516*	*103*
Molybdenum	*1000*	*1099*	*110*
Nickel	*1000*	*958*	*96*
Potassium		*-0.703*	
Sodium		*-439*	
Strontium		*3.92*	
Thallium	*100*	*83.5*	*83*
Tin	*1000*	*1028*	*103*
Titanium		*1.80*	
Vanadium	*500*	*505*	*101*
Zinc	*1000*	*980*	*98*

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IVA-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Savannah Job No.: 680-92626-2

SDG No.: 680-92626-02

Lab Sample ID: ICSA 680-287699/7 Instrument ID: ICPE

Lab File ID: E08022013BF.csv ICS Source: P_ICSA_wk_00032

Concentration Units: ug/L

Analyte	True Solution A	Found Solution A	Found Percent Recovery
Arsenic		**-6.64**	
Barium		**-9.33**	
Cadmium		**1.60**	
Chromium		**0.365**	
Lead		**-0.990**	
Selenium		**-5.62**	
Silver		**-0.316**	
Aluminum	*500000*	*501941*	*100*
Antimony		*7.50*	
Beryllium		*-0.138*	
Boron		*-14.3*	
Calcium	*500000*	*477103*	*95*
Cobalt		*1.04*	
Copper		*2.20*	
Iron	*200000*	*182857*	*91*
Magnesium	*500000*	*512473*	*102*
Manganese		*-0.0974*	
Molybdenum		*0.955*	
Nickel		*6.80*	
Potassium		*1.61*	
Sodium		*-143*	
Strontium		*4.84*	
Thallium		*-10.9*	
Tin		*-3.79*	
Titanium		*1.77*	
Vanadium		*4.58*	
Zinc		*20.9*	

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IVA-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Savannah Job No.: 680-92626-2

SDG No.: 680-92626-02

Lab Sample ID: ICSAB 680-287699/8 Instrument ID: ICPE

Lab File ID: E08022013BF.csv ICS Source: P_ICSAB_wk_00045

Concentration Units: ug/L

Analyte	True Solution AB	Found Solution AB	Found Percent Recovery
Arsenic	**100**	**102**	**102**
Barium	**500**	**501**	**100**
Cadmium	**1000**	**956**	**96**
Chromium	**500**	**506**	**101**
Lead	**50.0**	**49.9**	**100**
Selenium	**50.0**	**41.3**	**83**
Silver	**200**	**219**	**109**
Aluminum	*500000*	*512077*	*102*
Antimony	*600*	*627*	*104*
Beryllium	*500*	*484*	*97*
Boron		*-14.8*	
Calcium	*500000*	*486761*	*97*
Cobalt	*500*	*482*	*96*
Copper	*500*	*565*	*113*
Iron	*200000*	*185904*	*93*
Magnesium	*500000*	*521515*	*104*
Manganese	*500*	*506*	*101*
Molybdenum	*1000*	*1085*	*108*
Nickel	*1000*	*943*	*94*
Potassium		*0.529*	
Sodium		*-112*	
Strontium		*3.93*	
Thallium	*100*	*83.5*	*83*
Tin	*1000*	*1018*	*102*
Titanium		*1.82*	
Vanadium	*500*	*497*	*99*
Zinc	*1000*	*970*	*97*

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IVA-IN

5A-IN
MATRIX SPIKE SAMPLE RECOVERY
METALS

Client ID: CV0256A-VGSO-CS MS
Lab ID: 680-92626-1 MS
Lab Name: TestAmerica Savannah
Job No.: 680-92626-2
SDG No.: 680-92626-02
Matrix: Solid
Concentration Units: mg/Kg
% Solids: 75.5

Analyte	SSR	C	Sample Result (SR)	C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Arsenic	96.5		50		11.4	406	75-125	4	6010C
Barium	241		190		11.4	433	75-125	4	6010C
Cadmium	7.19		1.1		5.71	107	75-125		6010C
Chromium	40.8		24		11.4	149	75-125	F	6010C
Lead	184		130		5.71	1022	75-125	4	6010C
Selenium	11.2		2.8	U	11.4	98	75-125		6010C
Silver	5.87		1.1	U	5.71	103	75-125		6010C
Mercury	0.464		0.38		0.127	62	80-120	F	7471B

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results.
Note - Results and Reporting Limits have been adjusted for dry weight.

FORM VA - IN

5A-IN
MATRIX SPIKE SAMPLE RECOVERY
METALS

Client ID: CV0083A-VGSO-CS MS
Lab ID: 680-92626-8 MS
Lab Name: TestAmerica Savannah
Job No.: 680-92626-2
SDG No.: 680-92626-02
Matrix: Solid
Concentration Units: mg/Kg
% Solids: 83.0

Analyte	SSR	C	Sample Result (SR)	C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Arsenic	31.4		18		11.5	120	75-125		6010C
Barium	257		210		11.5	373	75-125	4	6010C
Cadmium	5.92		2.8		5.73	55	75-125	F	6010C
Chromium	104		86		11.5	158	75-125	4	6010C
Lead	168		160		5.73	143	75-125	4	6010C
Selenium	11.5		1.4	J	11.5	88	75-125		6010C
Silver	6.53		0.21	J	5.73	110	75-125		6010C

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results.
Note - Results and Reporting Limits have been adjusted for dry weight.

FORM VA - IN

5A-IN
MATRIX SPIKE DUPLICATE SAMPLE RECOVERY
METALS

Client ID: CV0256A-VGSO-CS MSD
Lab ID: 680-92626-1 MSD
Lab Name: TestAmerica Savannah
Job No.: 680-92626-2
SDG No.: 680-92626-02
Matrix: Solid
Concentration Units: mg/Kg
% Solids: 75.5

Analyte	(SDR)	C	Spike Added (SA)	%R	Control Limit %R	RPD	RPD Limit	Q	Method
Arsenic	79.5		11.4	257	75-125	19	20	4	6010C
Barium	231		11.4	339	75-125	5	20	4	6010C
Cadmium	6.83		5.71	100	75-125	5	20		6010C
Chromium	38.8		11.4	132	75-125	5	20	F	6010C
Lead	155		5.71	507	75-125	17	20	4	6010C
Selenium	12.3		11.4	108	75-125	9	20		6010C
Silver	6.33		5.71	111	75-125	8	20		6010C
Mercury	0.476		0.120	76	80-120	2	20	F	7471B

SDR = Sample Duplicate Result

Calculations are performed before rounding to avoid round-off errors in calculated results.
Note - Results and Reporting Limits have been adjusted for dry weight.

FORM VD - IN

5A-IN
MATRIX SPIKE DUPLICATE SAMPLE RECOVERY
METALS

Client ID: CV0083A-VGSO-CS MSD
Lab ID: 680-92626-8 MSD
Lab Name: TestAmerica Savannah
Job No.: 680-92626-2
SDG No.: 680-92626-02
Matrix: Solid
Concentration Units: mg/Kg
% Solids: 83.0

Analyte	(SDR)	C	Spike Added (SA)	%R	Control Limit %R	RPD	RPD Limit	Q	Method
Arsenic	35.8		11.5	159	75-125	13	20	F	6010C
Barium	485		11.5	2364	75-125	62	20	4 F	6010C
Cadmium	6.19		5.73	59	75-125	4	20	F	6010C
Chromium	94.1		11.5	71	75-125	10	20	4	6010C
Lead	272		5.73	1966	75-125	48	20	4 F	6010C
Selenium	12.0		11.5	93	75-125	5	20		6010C
Silver	6.87		5.73	116	75-125	5	20		6010C

SDR = Sample Duplicate Result

Calculations are performed before rounding to avoid round-off errors in calculated results.
Note - Results and Reporting Limits have been adjusted for dry weight.

FORM VD - IN

5B-IN
POST DIGESTION SPIKE SAMPLE RECOVERY
METALS

Client ID: CV0256A-VGSO-CS PDS | Lab ID: 680-92626-1 PDS

Lab Name: TestAmerica Savannah | Job No.: 680-92626-2

SDG No.: 680-92626-02

Matrix: Solid | Concentration Units: mg/Kg

Analyte	SSR	C	Sample Result (SR)	C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Arsenic	71.8		50		22.6	95	75-125		6010C
Barium	212		190		22.6	87	75-125		6010C
Cadmium	6.46		1.1		5.66	95	75-125		6010C
Chromium	45.7		24		22.6	97	75-125		6010C
Lead	145		130		22.6	83	75-125		6010C
Selenium	22.3		2.8	U	22.6	98	75-125		6010C
Silver	4.24		1.1	U	5.66	75	75-125		6010C

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results.
Note - Results and Reporting Limits have been adjusted for dry weight.

FORM VB - IN

5B-IN
POST DIGESTION SPIKE SAMPLE RECOVERY
METALS

Client ID: CV0083A-VGSO-CS PDS Lab ID: 680-92626-8 PDS

Lab Name: TestAmerica Savannah Job No.: 680-92626-2

SDG No.: 680-92626-02

Matrix: Solid Concentration Units: mg/Kg

Analyte	SSR	C	Sample Result (SR)	C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Arsenic	39.8		18		22.7	98	75-125		6010C
Barium	237		210		22.7	102	75-125		6010C
Cadmium	7.79		2.8		5.68	88	75-125		6010C
Chromium	108		86		22.7	96	75-125		6010C
Lead	181		160		22.7	94	75-125		6010C
Selenium	23.2		1.4	J	22.7	96	75-125		6010C
Silver	4.07		0.21	J	5.68	68	75-125	W	6010C

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results.
Note - Results and Reporting Limits have been adjusted for dry weight.

FORM VB - IN

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 680-286324/2-A

Lab Name: TestAmerica Savannah Job No.: 680-92626-2

Sample Matrix: Solid LCS Source: MS_LCS1_WK_00005

Analyte	Solid(mg/Kg)							
	True	Found	C	%R	Limits		Q	Method
Arsenic	9.80	10.1		103	75	125		6010C
Barium	9.80	10.0		102	75	125		6010C
Cadmium	4.90	4.88		100	75	125		6010C
Chromium	9.80	10.2		104	75	125		6010C
Lead	4.90	4.91		100	75	125		6010C
Selenium	9.80	9.47		97	75	125		6010C
Silver	4.90	5.00		102	75	125		6010C

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA - IN

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 680-286279/2-A

Lab Name: TestAmerica Savannah Job No.: 680-92626-2

Sample Matrix: Solid LCS Source: MS_LCS1_WK_00005

Analyte	Solid(mg/Kg)							
	True	Found	C	%R	Limits		Q	Method
Arsenic	9.90	10.4		105	75	125		6010C
Barium	9.90	10.3		104	75	125		6010C
Cadmium	4.95	5.05		102	75	125		6010C
Chromium	9.90	10.5		106	75	125		6010C
Lead	4.95	5.05		102	75	125		6010C
Selenium	9.90	9.80		99	75	125		6010C
Silver	4.95	5.13		104	75	125		6010C

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA - IN

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 680-286694/2-A

Lab Name: TestAmerica Savannah Job No.: 680-92626-2

Sample Matrix: Solid LCS Source: Hg_Int_Cal_00094

Analyte	Solid(mg/Kg)							
	True	Found	C	%R	Limits		Q	Method
Mercury	0.250	0.244		98	80	120		7471B

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA - IN

8-IN
ICP-AES AND ICP-MS SERIAL DILUTIONS
METALS

Lab ID: 680-92626-1

SDG No: 680-92626-02

Lab Name: TestAmerica Savannah Job No: 680-92626-2

Matrix: Solid Concentration Units: mg/Kg

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	Method
Arsenic	50		52.2		4.0		6010C
Barium	190		209		8.6		6010C
Cadmium	1.1		1.22	J	NC		6010C
Chromium	24		26.0		NC		6010C
Lead	130		139		9.9		6010C
Selenium	2.8	U	14	U	NC		6010C
Silver	1.1	U	5.7	U	NC		6010C

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIII-IN

8-IN
ICP-AES AND ICP-MS SERIAL DILUTIONS
METALS

Lab ID: 680-92626-8

SDG No: 680-92626-02

Lab Name: TestAmerica Savannah Job No: 680-92626-2

Matrix: Solid Concentration Units: mg/Kg

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	Method
Arsenic	18		19.2		NC		6010C
Barium	210		229		6.8		6010C
Cadmium	2.8		3.00		NC		6010C
Chromium	86		92.7		7.9		6010C
Lead	160		177		11	V	6010C
Selenium	1.4	J	14	U	NC		6010C
Silver	0.21	J	5.7	U	NC		6010C

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIII-IN

9-IN
DETECTION LIMITS
METALS

Lab Name: TestAmerica Savannah Job Number: 680-92626-2

SDG Number: 680-92626-02

Matrix: Solid Instrument ID: ICPE

Method: 6010C MDL Date: 06/02/2009 00:00

Prep Method: 3050B

Analyte	Wavelength/ Mass	RL (mg/Kg)	MDL (mg/Kg)
Arsenic		2	0.59
Barium		1	0.3
Cadmium		0.5	0.1
Chromium		1	0.5
Lead		1	0.53
Selenium		2.5	1
Silver		1	0.096

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS

Lab Name: TestAmerica Savannah Job Number: 680-92626-2

SDG Number: 680-92626-02

Matrix: Solid Instrument ID: ICPE

Method: 6010C XMDL Date: 06/02/2009 00:00

Analyte	Wavelength/ Mass	XRL (ug/L)	XMDL (ug/L)
Arsenic		20	5.9
Barium		10	3
Cadmium		5	1
Chromium		10	5
Lead		10	5.3
Selenium		25	10
Silver		10	0.96

9-IN
DETECTION LIMITS
METALS

Lab Name: TestAmerica Savannah Job Number: 680-92626-2

SDG Number: 680-92626-02

Matrix: Solid Instrument ID: LEEMAN2

Method: 7471B MDL Date: 06/02/2009 00:00

Prep Method: 7471B

Analyte	Wavelength/ Mass	RL (mg/Kg)	MDL (mg/Kg)
Mercury		0.02	0.0082

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS

Lab Name: TestAmerica Savannah Job Number: 680-92626-2

SDG Number: 680-92626-02

Matrix: Solid Instrument ID: LEEMAN2

Method: 7471B XMDL Date: 06/01/2008 15:53

Analyte	Wavelength/ Mass	XRL (ug/L)	XMDL (ug/L)
Mercury		0.2	0.08

10-IN
ICP-AES INTERELEMENT CORRECTION FACTORS
METALS

Lab Name: TestAmerica Savannah Job Number: 680-92626-2

SDG No.: 680-92626-02

ICP-AES Instrument ID: ICPE Date: 05/23/2013

Analyte	Wave Length	Ag	Al	As	B	Ba	Be	Ca	Cd	Co	Cr	Cu	Fe	K	Mg
Aluminum	308.215									-0.007000					
Antimony	206.834						0.007900				0.008800		0.000023		
Arsenic	188.980		0.000016										-0.000016		
Barium	389.178												0.000062		0.000112
Beryllium	313.042														
Boron	249.678												-0.000141		
Cadmium	226.502												0.000078		
Calcium	370.602												-0.025390		
Chromium	267.716								-0.000200				0.000005		
Cobalt	228.615										0.000280		-0.000003		
Copper	324.754												0.000006		
Iron	271.441									0.075560	0.001160				
Lead	220.353		-0.000011							-0.000200			0.000043		
Magnesium	279.078		-0.000142										0.000087		
Manganese	257.610												0.000012		0.000035
Molybdenum	202.032												-0.000007		
Nickel	231.604									-0.000800			0.000008		
Potassium	766.491														
Selenium	196.026												0.000007		
Silver	328.068														
Sodium	330.237												-0.005902		
Strontium	216.596							0.000009					0.000084		
Thallium	190.794									0.002930			-0.000065		0.000016
Tin	189.925														
Titanium	334.941														
Vanadium	292.401										-0.001940				
Zinc	206.200										-0.002460		0.000007		

10-IN
ICP-AES INTERELEMENT CORRECTION FACTORS
METALS

Lab Name: TestAmerica Savannah Job Number: 680-92626-2

SDG No.: 680-92626-02

ICP-AES Instrument ID: ICPE Date: 05/23/2013

Analyte	Wave Length	Mn	Mo	Na	Ni	Pb	Sb	Se	Sn	Sr	Ti	Tl	V	Zn	
Aluminum	308.215		0.008600										-0.027780		
Antimony	206.834		-0.012600						0.000200						
Arsenic	188.980		-0.000430												
Barium	389.178		0.000218										0.000095		
Beryllium	313.042		-0.000082										-0.000019		
Boron	249.678														
Cadmium	226.502														
Calcium	370.602	0.008900									0.170000		0.003040		
Chromium	267.716	0.000090									0.000040		-0.000200		
Cobalt	228.615		-0.002400						-0.000060		0.001950				
Copper	324.754		0.000550										-0.000200		
Iron	271.441		0.000760										0.004220		
Lead	220.353	0.000130	-0.000800								-0.000325				
Magnesium	279.078	-0.007600													
Manganese	257.610														
Molybdenum	202.032												-0.000260		
Nickel	231.604														
Potassium	766.491														
Selenium	196.026	0.000500													
Silver	328.068	0.000061								-0.000600			0.000081		
Sodium	330.237										-0.070825			-0.285620	
Strontium	216.596		-0.001200		-0.001575										
Thallium	190.794	-0.000466	-0.000433										0.000500		
Tin	189.925														
Titanium	334.941														
Vanadium	292.401		-0.006130								0.000575				
Zinc	206.200														

X-IN

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Savannah Job No.: 680-92626-2

SDG No.: 680-92626-02

Prep Method: 3050B

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight (g)	Initial Volume	Final Volume (mL)
MB 680-286279/1-A	07/26/2013 09:22	286279	1.01		100
LCS 680-286279/2-A	07/26/2013 09:22	286279	1.01		100
680-92626-1	07/26/2013 09:22	286279	1.17		100
680-92626-1 MS	07/26/2013 09:22	286279	1.16		100
680-92626-1 MSD	07/26/2013 09:22	286279	1.16		100
680-92626-2	07/26/2013 09:22	286279	1.07		100
680-92626-3	07/26/2013 09:22	286279	1.08		100
680-92626-4	07/26/2013 09:22	286279	1.03		100
680-92626-5	07/26/2013 09:22	286279	1.15		100
680-92626-6	07/26/2013 09:22	286279	1.09		100
680-92626-7	07/26/2013 09:22	286279	1.02		100

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Savannah Job No.: 680-92626-2

SDG No.: 680-92626-02

Prep Method: 3050B

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight (g)	Initial Volume	Final Volume (mL)
MB 680-286324/1-A	07/26/2013 12:51	286324	1.00		100
LCS 680-286324/2-A	07/26/2013 12:51	286324	1.02		100
680-92626-8	07/26/2013 12:51	286324	1.06		100
680-92626-8 MS	07/26/2013 12:51	286324	1.05		100
680-92626-8 MSD	07/26/2013 12:51	286324	1.05		100

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Savannah Job No.: 680-92626-2

SDG No.: 680-92626-02

Prep Method: 7471B

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight (g)	Initial Volume	Final Volume (mL)
MB 680-286694/1-A	07/29/2013 17:00	286694	0.52		50
LCS 680-286694/2-A	07/29/2013 17:00	286694	0.50		50
680-92626-8	07/29/2013 17:00	286694	0.51		50
680-92626-7	07/29/2013 17:00	286694	0.55		50
680-92626-6	07/29/2013 17:00	286694	0.53		50
680-92626-5	07/29/2013 17:00	286694	0.53		50
680-92626-4	07/29/2013 17:00	286694	0.54		50
680-92626-3	07/29/2013 17:00	286694	0.57		50
680-92626-2	07/29/2013 17:00	286694	0.51		50
680-92626-1	07/29/2013 17:00	286694	0.56		50
680-92626-1 MS	07/29/2013 17:00	286694	0.52		50
680-92626-1 MSD	07/29/2013 17:00	286694	0.55		50

Lab Name: TestAmerica Savannah Job No.: 680-92626-2

SDG No.: 680-92626-02

Instrument ID: ICPE Method: 6010C

Start Date: 07/31/2013 14:05 End Date: 08/01/2013 13:27

Lab Sample ID	D/F	Type	Time	Analytes																			
				Ag	As	Ba	Cd	Cr	Pb	Se													
ZZZZZZ			14:05																				
ZZZZZZ			14:09																				
ZZZZZZ			14:14																				
ZZZZZZ			14:18																				
ZZZZZZ			14:23																				
ICV 680-287225/6	1		14:35	X	X	X	X	X	X	X													
ICBIS 680-287225/7	1		14:43	X	X	X	X	X	X	X													
CRI 680-287225/8	1		14:48	X	X	X	X	X	X	X													
ICSA 680-287225/9	1		14:54	X	X	X	X	X	X	X													
ICSAB 680-287225/10	1		14:58	X	X	X	X	X	X	X													
ZZZZZZ			15:03																				
ZZZZZZ			15:08																				
ZZZZZZ			15:12																				
CCV 680-287225/14			15:17																				
CCB 680-287225/15			15:21																				
ZZZZZZ			15:26																				
ZZZZZZ			15:31																				
ZZZZZZ			15:35																				
ZZZZZZ			15:40																				
ZZZZZZ			15:45																				
ZZZZZZ			15:49																				
ZZZZZZ			15:54																				
ZZZZZZ			15:58																				
ZZZZZZ			16:03																				
ZZZZZZ			16:08																				
CCV 680-287225/26			16:12																				
CCB 680-287225/27			16:17																				
ZZZZZZ			16:21																				
ZZZZZZ			16:26																				
ZZZZZZ			16:31																				
ZZZZZZ			16:35																				
ZZZZZZ			16:40																				
ZZZZZZ			16:45																				
ZZZZZZ			16:49																				
ZZZZZZ			16:54																				
ZZZZZZ			16:58																				
ZZZZZZ			17:03																				
CCV 680-287225/38			17:08																				
CCB 680-287225/39			17:12																				
ZZZZZZ			17:31																				
ZZZZZZ			17:36																				
ZZZZZZ			17:41																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Savannah Job No.: 680-92626-2

SDG No.: 680-92626-02

Instrument ID: ICPE Method: 6010C

Start Date: 07/31/2013 14:05 End Date: 08/01/2013 13:27

Lab Sample ID	D / F	Type	Time	Analytes																			
				Ag	As	Ba	Cd	Cr	Pb	Se													
ZZZZZZ			17:45																				
ZZZZZZ			17:50																				
ZZZZZZ			17:55																				
ZZZZZZ			17:59																				
ZZZZZZ			18:04																				
ZZZZZZ			18:09																				
ZZZZZZ			18:13																				
CCV 680-287225/50			18:18																				
CCB 680-287225/51			18:22																				
ZZZZZZ			18:27																				
ZZZZZZ			18:31																				
ZZZZZZ			18:36																				
ZZZZZZ			18:41																				
ZZZZZZ			18:45																				
ZZZZZZ			18:50																				
ZZZZZZ			18:55																				
ZZZZZZ			18:59																				
ZZZZZZ			19:04																				
ZZZZZZ			19:08																				
CCV 680-287225/62			19:13																				
CCB 680-287225/63			19:17																				
ZZZZZZ			19:22																				
ZZZZZZ			19:27																				
ZZZZZZ			19:31																				
ZZZZZZ			19:36																				
ZZZZZZ			19:41																				
ZZZZZZ			19:45																				
ZZZZZZ			19:50																				
CCV 680-287225/71			19:54																				
CCB 680-287225/72			19:59																				
ZZZZZZ			20:03																				
ZZZZZZ			20:08																				
ZZZZZZ			20:13																				
ZZZZZZ			20:17																				
ZZZZZZ			20:22																				
ZZZZZZ			20:26																				
ZZZZZZ			20:31																				
ZZZZZZ			20:36																				
ZZZZZZ			20:40																				
ZZZZZZ			20:45																				
CCV 680-287225/83			20:49																				
CCB 680-287225/84			20:54																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Savannah Job No.: 680-92626-2

SDG No.: 680-92626-02

Instrument ID: ICPE Method: 6010C

Start Date: 07/31/2013 14:05 End Date: 08/01/2013 13:27

Lab Sample ID	D / F	Type	Time	Analytes																			
				Ag	As	Ba	Cd	Cr	Pb	Se													
ZZZZZZ			20:59																				
ZZZZZZ			21:03																				
ZZZZZZ			21:08																				
ZZZZZZ			21:12																				
ZZZZZZ			21:17																				
ZZZZZZ			21:22																				
ZZZZZZ			21:26																				
ZZZZZZ			21:31																				
ZZZZZZ			21:35																				
ZZZZZZ			21:40																				
CCV 680-287225/95			21:45																				
CCB 680-287225/96			21:49																				
ZZZZZZ			21:54																				
ZZZZZZ			21:59																				
ZZZZZZ			22:03																				
ZZZZZZ			22:08																				
ZZZZZZ			22:12																				
ZZZZZZ			22:17																				
ZZZZZZ			22:22																				
ZZZZZZ			22:26																				
ZZZZZZ			22:31																				
ZZZZZZ			22:36																				
CCV 680-287225/107			22:40																				
CCB 680-287225/108			22:45																				
ZZZZZZ			22:49																				
ZZZZZZ			22:54																				
ZZZZZZ			22:59																				
ZZZZZZ			23:03																				
ZZZZZZ			23:08																				
ZZZZZZ			23:13																				
ZZZZZZ			23:17																				
ZZZZZZ			23:22																				
ZZZZZZ			23:26																				
ZZZZZZ			23:31																				
CCV 680-287225/119			23:36																				
CCB 680-287225/120			23:40																				
ZZZZZZ			23:45																				
ZZZZZZ			23:50																				
ZZZZZZ			23:54																				
ZZZZZZ			23:59																				
ZZZZZZ			00:04																				
ZZZZZZ			00:08																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Savannah Job No.: 680-92626-2

SDG No.: 680-92626-02

Instrument ID: ICPE Method: 6010C

Start Date: 07/31/2013 14:05 End Date: 08/01/2013 13:27

Lab Sample ID	D/F	Type	Time	Analytes																			
				Ag	As	Ba	Cd	Cr	Pb	Se													
ZZZZZZ			00:13																				
ZZZZZZ			00:17																				
CCV 680-287225/129			00:22																				
CCB 680-287225/130			00:27																				
ZZZZZZ			00:31																				
ZZZZZZ			00:36																				
ZZZZZZ			00:40																				
ZZZZZZ			00:45																				
ZZZZZZ			00:50																				
ZZZZZZ			00:54																				
ZZZZZZ			00:59																				
ZZZZZZ			01:03																				
ZZZZZZ			01:08																				
ZZZZZZ			01:13																				
CCV 680-287225/141	1		01:17	X	X	X	X	X	X	X													
CCB 680-287225/142	1		01:22	X	X	X	X	X	X	X													
ZZZZZZ			01:26																				
ZZZZZZ			01:31																				
ZZZZZZ			01:36																				
ZZZZZZ			01:40																				
ZZZZZZ			01:45																				
ZZZZZZ			01:49																				
MB 680-286324/1-A	1	T	01:54	X	X	X	X	X	X	X													
LCS 680-286324/2-A	1	T	01:59	X	X	X	X	X	X	X													
680-92626-8	1	T	02:04	X	X	X	X	X	X	X													
680-92626-8 SD	5	T	02:08	X	X	X	X	X	X	X													
CCV 680-287225/153	1		02:13	X	X	X	X	X	X	X													
CCB 680-287225/154	1		02:18	X	X	X	X	X	X	X													
680-92626-8 PDS	1	T	02:22	X	X	X	X	X	X	X													
680-92626-8 MS	1	T	02:27	X	X	X	X	X	X	X													
680-92626-8 MSD	1	T	02:32	X	X	X	X	X	X	X													
ZZZZZZ			02:36																				
ZZZZZZ			02:41																				
ZZZZZZ			02:45																				
ZZZZZZ			02:50																				
ZZZZZZ			02:55																				
ZZZZZZ			02:59																				
ZZZZZZ			03:04																				
CCV 680-287225/165	1		03:09	X	X	X	X	X	X	X													
CCB 680-287225/166	1		03:13	X	X	X	X	X	X	X													
ZZZZZZ			03:18																				
ZZZZZZ			03:23																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Savannah Job No.: 680-92626-2

SDG No.: 680-92626-02

Instrument ID: ICPE Method: 6010C

Start Date: 07/31/2013 14:05 End Date: 08/01/2013 13:27

Lab Sample ID	D / F	Type	Time	Analytes																			
				Ag	As	Ba	Cd	Cr	Pb	Se													
ZZZZZZ			03:27																				
ZZZZZZ			03:32																				
ZZZZZZ			03:36																				
ZZZZZZ			03:41																				
ZZZZZZ			03:46																				
ZZZZZZ			03:50																				
ZZZZZZ			03:55																				
ZZZZZZ			03:59																				
CCV 680-287225/177			04:04																				
CCB 680-287225/178			04:09																				
ZZZZZZ			04:13																				
ZZZZZZ			04:18																				
ZZZZZZ			04:23																				
ZZZZZZ			04:27																				
ZZZZZZ			04:32																				
ZZZZZZ			04:36																				
ZZZZZZ			04:41																				
ZZZZZZ			04:46																				
CCV 680-287225/187			04:50																				
CCB 680-287225/188			04:55																				
ZZZZZZ			05:00																				
ZZZZZZ			05:04																				
ZZZZZZ			05:09																				
ZZZZZZ			05:13																				
ZZZZZZ			05:18																				
ZZZZZZ			05:23																				
ZZZZZZ			05:27																				
ZZZZZZ			05:32																				
ZZZZZZ			05:37																				
ZZZZZZ			05:41																				
CCV 680-287225/199			05:46																				
CCB 680-287225/200			05:51																				
ZZZZZZ			05:56																				
ZZZZZZ			06:01																				
ZZZZZZ			06:05																				
ZZZZZZ			06:10																				
ZZZZZZ			06:14																				
ZZZZZZ			06:19																				
ZZZZZZ			06:24																				
ZZZZZZ			06:28																				
ZZZZZZ			06:33																				
ZZZZZZ			06:38																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Savannah Job No.: 680-92626-2

SDG No.: 680-92626-02

Instrument ID: ICPE Method: 6010C

Start Date: 07/31/2013 14:05 End Date: 08/01/2013 13:27

Lab Sample ID	D / F	Type	Time	Analytes																			
				Ag	As	Ba	Cd	Cr	Pb	Se													
CCV 680-287225/211			06:42																				
CCB 680-287225/212			06:47																				
ZZZZZZ			06:51																				
ZZZZZZ			06:56																				
ZZZZZZ			07:01																				
ZZZZZZ			07:05																				
ZZZZZZ			07:10																				
ZZZZZZ			07:15																				
ZZZZZZ			07:19																				
ZZZZZZ			07:24																				
ZZZZZZ			07:29																				
ZZZZZZ			07:34																				
CCV 680-287225/223			07:38																				
CCB 680-287225/224			07:43																				
ZZZZZZ			07:48																				
ZZZZZZ			07:52																				
ZZZZZZ			07:57																				
ZZZZZZ			08:01																				
ZZZZZZ			08:06																				
ZZZZZZ			08:11																				
ZZZZZZ			08:15																				
ZZZZZZ			08:20																				
ZZZZZZ			08:25																				
ZZZZZZ			08:29																				
CCV 680-287225/235			08:34																				
CCB 680-287225/236			08:39																				
ZZZZZZ			08:43																				
ZZZZZZ			08:48																				
ZZZZZZ			08:53																				
ZZZZZZ			08:57																				
ZZZZZZ			09:02																				
ZZZZZZ			09:07																				
ZZZZZZ			09:11																				
ZZZZZZ			09:16																				
ZZZZZZ			09:21																				
ZZZZZZ			09:25																				
CCV 680-287225/247			09:30																				
CCB 680-287225/248			09:34																				
ZZZZZZ			09:48																				
ZZZZZZ			09:53																				
ZZZZZZ			09:57																				
ZZZZZZ			10:02																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Savannah Job No.: 680-92626-2

SDG No.: 680-92626-02

Instrument ID: ICPE Method: 6010C

Start Date: 07/31/2013 14:05 End Date: 08/01/2013 13:27

Lab Sample ID	D / F	Type	Time	Analytes																			
				Ag	As	Ba	Cd	Cr	Pb	Se													
ZZZZZZ			10:06																				
ZZZZZZ			10:11																				
ZZZZZZ			10:16																				
ZZZZZZ			10:20																				
ZZZZZZ			10:25																				
ZZZZZZ			10:30																				
CCV 680-287225/259			10:34																				
CCB 680-287225/260			10:39																				
ZZZZZZ			10:43																				
ZZZZZZ			10:48																				
ZZZZZZ			10:53																				
ZZZZZZ			10:57																				
ZZZZZZ			11:02																				
ZZZZZZ			11:06																				
ZZZZZZ			11:11																				
ZZZZZZ			11:15																				
ZZZZZZ			11:20																				
ZZZZZZ			11:25																				
CCV 680-287225/271			11:29																				
CCB 680-287225/272			11:34																				
ZZZZZZ			11:39																				
ZZZZZZ			11:43																				
ZZZZZZ			11:48																				
ZZZZZZ			11:52																				
ZZZZZZ			11:57																				
ZZZZZZ			12:04																				
ZZZZZZ			12:09																				
ZZZZZZ			12:14																				
ZZZZZZ			12:18																				
ZZZZZZ			12:23																				
CCV 680-287225/283			12:27																				
CCB 680-287225/284			12:32																				
ZZZZZZ			12:37																				
ZZZZZZ			12:41																				
ZZZZZZ			12:46																				
ZZZZZZ			12:51																				
ZZZZZZ			12:55																				
ZZZZZZ			13:00																				
ZZZZZZ			13:04																				
ZZZZZZ			13:09																				
ZZZZZZ			13:13																				
CRI 680-287225/294	1		13:18	X	X	X	X	X	X	X													

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Savannah Job No.: 680-92626-2

SDG No.: 680-92626-02

Instrument ID: ICPE Method: 6010C

Start Date: 07/31/2013 14:05 End Date: 08/01/2013 13:27

Lab Sample ID	D / F	Type	Time	Analytes																		
				Ag	As	Ba	Cd	Cr	Pb	Se												
CCV 680-287225/295			13:23																			
CCB 680-287225/296			13:27																			

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Savannah Job No.: 680-92626-2

SDG No.: 680-92626-02

Instrument ID: ICPE Method: 6010C

Start Date: 08/02/2013 13:10 End Date: 08/03/2013 02:41

Lab Sample ID	D/F	Type	Time	Analytes																			
				Ag	As	Ba	Cd	Cr	Pb	Se													
ZZZZZZ			13:10																				
ZZZZZZ			13:14																				
ZZZZZZ			13:19																				
ICV 680-287699/4	1		13:23	X	X	X	X	X	X	X													
ICBIS 680-287699/5	1		13:32	X	X	X	X	X	X	X													
CRI 680-287699/6	1		13:37	X	X	X	X	X	X	X													
ICSA 680-287699/7	1		13:47	X	X	X	X	X	X	X													
ICSAB 680-287699/8	1		13:54	X	X	X	X	X	X	X													
ZZZZZZ			13:59																				
ZZZZZZ			14:04																				
ZZZZZZ			14:08																				
CCV 680-287699/12	1		14:13	X	X	X	X	X	X	X													
CCB 680-287699/13	1		14:17	X	X	X	X	X	X	X													
MB 680-286279/1-A	1	T	14:22	X	X	X	X	X	X	X													
LCS 680-286279/2-A	1	T	14:27	X	X	X	X	X	X	X													
680-92626-1	1	T	14:31	X	X	X	X	X	X	X													
680-92626-1 SD	5	T	14:36	X	X	X	X	X	X	X													
680-92626-1 PDS	1	T	14:40	X	X	X	X	X	X	X													
680-92626-1 MS	1	T	14:45	X	X	X	X	X	X	X													
680-92626-1 MSD	1	T	14:50	X	X	X	X	X	X	X													
680-92626-2	1	T	14:54	X	X	X	X	X	X	X													
680-92626-3	1	T	14:59	X	X	X	X	X	X	X													
680-92626-4	1	T	15:04	X	X	X	X	X	X	X													
CCV 680-287699/24	1		15:08	X	X	X	X	X	X	X													
CCB 680-287699/25	1		15:13	X	X	X	X	X	X	X													
680-92626-5	1	T	15:17	X	X	X	X	X	X	X													
680-92626-6	1	T	15:22	X	X	X	X	X	X	X													
680-92626-7	1	T	15:27	X	X	X	X	X	X	X													
ZZZZZZ			15:31																				
ZZZZZZ			15:36																				
ZZZZZZ			15:40																				
ZZZZZZ			15:45																				
ZZZZZZ			15:50																				
ZZZZZZ			15:54																				
ZZZZZZ			15:59																				
CCV 680-287699/36	1		16:03	X	X	X	X	X	X	X													
CCB 680-287699/37	1		16:08	X	X	X	X	X	X	X													
ZZZZZZ			16:13																				
ZZZZZZ			16:17																				
ZZZZZZ			16:22																				
ZZZZZZ			16:26																				
ZZZZZZ			16:31																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Savannah Job No.: 680-92626-2

SDG No.: 680-92626-02

Instrument ID: ICPE Method: 6010C

Start Date: 08/02/2013 13:10 End Date: 08/03/2013 02:41

Lab Sample ID	D / F	Type	Time	Analytes																			
				Ag	As	Ba	Cd	Cr	Pb	Se													
ZZZZZZ			16:36																				
CCV 680-287699/44			16:40																				
CCB 680-287699/45			16:45																				
ZZZZZZ			16:49																				
ZZZZZZ			16:54																				
ZZZZZZ			16:59																				
ZZZZZZ			17:03																				
ZZZZZZ			17:08																				
ZZZZZZ			17:12																				
ZZZZZZ			17:17																				
ZZZZZZ			17:22																				
ZZZZZZ			17:26																				
ZZZZZZ			17:31																				
CCV 680-287699/56			17:35																				
CCB 680-287699/57			17:40																				
ZZZZZZ			17:44																				
ZZZZZZ			17:49																				
ZZZZZZ			17:54																				
ZZZZZZ			17:58																				
ZZZZZZ			18:03																				
ZZZZZZ			18:08																				
ZZZZZZ			18:12																				
ZZZZZZ			18:17																				
ZZZZZZ			18:21																				
ZZZZZZ			18:26																				
CCV 680-287699/68			18:31																				
CCB 680-287699/69			18:35																				
ZZZZZZ			18:40																				
ZZZZZZ			18:44																				
ZZZZZZ			18:49																				
ZZZZZZ			18:53																				
ZZZZZZ			18:58																				
ZZZZZZ			19:03																				
ZZZZZZ			19:07																				
ZZZZZZ			19:12																				
ZZZZZZ			19:17																				
ZZZZZZ			19:21																				
CCV 680-287699/80			19:26																				
CCB 680-287699/81			19:30																				
ZZZZZZ			19:35																				
ZZZZZZ			19:40																				
ZZZZZZ			19:44																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Savannah Job No.: 680-92626-2

SDG No.: 680-92626-02

Instrument ID: ICPE Method: 6010C

Start Date: 08/02/2013 13:10 End Date: 08/03/2013 02:41

Lab Sample ID	D / F	Type	Time	Analytes																			
				Ag	As	Ba	Cd	Cr	Pb	Se													
ZZZZZZ			19:49																				
ZZZZZZ			19:53																				
ZZZZZZ			19:58																				
ZZZZZZ			20:03																				
ZZZZZZ			20:07																				
ZZZZZZ			20:12																				
ZZZZZZ			20:16																				
CCV 680-287699/92			20:21																				
CCB 680-287699/93			20:26																				
ZZZZZZ			20:30																				
ZZZZZZ			20:35																				
ZZZZZZ			20:40																				
ZZZZZZ			20:44																				
ZZZZZZ			20:49																				
ZZZZZZ			20:54																				
ZZZZZZ			20:58																				
ZZZZZZ			21:03																				
ZZZZZZ			21:07																				
ZZZZZZ			21:12																				
CCV 680-287699/104			21:17																				
CCB 680-287699/105			21:21																				
ZZZZZZ			21:26																				
ZZZZZZ			21:30																				
ZZZZZZ			21:35																				
ZZZZZZ			21:40																				
ZZZZZZ			21:44																				
ZZZZZZ			21:49																				
ZZZZZZ			21:54																				
ZZZZZZ			21:58																				
ZZZZZZ			22:03																				
ZZZZZZ			22:07																				
CCV 680-287699/116			22:12																				
CCB 680-287699/117			22:17																				
ZZZZZZ			22:21																				
ZZZZZZ			22:26																				
ZZZZZZ			22:30																				
ZZZZZZ			22:35																				
ZZZZZZ			22:40																				
ZZZZZZ			22:44																				
ZZZZZZ			22:49																				
ZZZZZZ			22:53																				
ZZZZZZ			22:58																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Savannah Job No.: 680-92626-2

SDG No.: 680-92626-02

Instrument ID: ICPE Method: 6010C

Start Date: 08/02/2013 13:10 End Date: 08/03/2013 02:41

Lab Sample ID	D / F	Type	Time	Analytes																			
				Ag	As	Ba	Cd	Cr	Pb	Se													
ZZZZZZ			23:03																				
CCV 680-287699/128			23:07																				
CCB 680-287699/129			23:12																				
ZZZZZZ			23:16																				
ZZZZZZ			23:21																				
ZZZZZZ			23:26																				
ZZZZZZ			23:31																				
ZZZZZZ			23:35																				
ZZZZZZ			23:40																				
ZZZZZZ			23:44																				
ZZZZZZ			23:49																				
ZZZZZZ			23:54																				
ZZZZZZ			23:58																				
CCV 680-287699/140			00:03																				
CCB 680-287699/141			00:07																				
ZZZZZZ			00:12																				
ZZZZZZ			00:17																				
ZZZZZZ			00:21																				
ZZZZZZ			00:26																				
ZZZZZZ			00:31																				
ZZZZZZ			00:35																				
ZZZZZZ			00:40																				
ZZZZZZ			00:45																				
ZZZZZZ			00:49																				
ZZZZZZ			00:54																				
CCV 680-287699/152			00:59																				
CCB 680-287699/153			01:03																				
ZZZZZZ			01:08																				
ZZZZZZ			01:12																				
ZZZZZZ			01:17																				
ZZZZZZ			01:22																				
ZZZZZZ			01:27																				
ZZZZZZ			01:31																				
ZZZZZZ			01:36																				
ZZZZZZ			01:40																				
ZZZZZZ			01:45																				
ZZZZZZ			01:50																				
CCV 680-287699/164			01:54																				
CCB 680-287699/165			01:59																				
ZZZZZZ			02:04																				
ZZZZZZ			02:08																				
ZZZZZZ			02:13																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Savannah Job No.: 680-92626-2

SDG No.: 680-92626-02

Instrument ID: ICPE Method: 6010C

Start Date: 08/02/2013 13:10 End Date: 08/03/2013 02:41

Lab Sample ID	D / F	Type	Time	Analytes																		
				Ag	As	Ba	Cd	Cr	Pb	Se												
ZZZZZZ			02:17																			
ZZZZZZ			02:22																			
ZZZZZZ			02:27																			
CRI 680-287699/172	1		02:31	X	X	X	X	X	X	X												
CCV 680-287699/173			02:36																			
CCB 680-287699/174			02:41																			

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Savannah Job No.: 680-92626-2

SDG No.: 680-92626-02

Instrument ID: LEEMAN2 Method: 7471B

Start Date: 07/30/2013 16:49 End Date: 07/31/2013 10:48

Lab Sample ID	D / F	Type	Time	Analytes																			
				Hg																			
IC 680-286694/15-A			16:49	X																			
IC 680-286694/16-A			16:52	X																			
IC 680-286694/17-A			16:54	X																			
IC 680-286694/18-A			16:57	X																			
IC 680-286694/19-A			17:00	X																			
IC 680-286694/20-A			17:02	X																			
ICV 680-286694/25-A	1		17:05	X																			
ICB 680-286694/26-A	1		17:07	X																			
CRA 680-286694/27-A	1		17:10	X																			
CCV 680-286694/22-A	1		17:13	X																			
CCB 680-286694/23-A	1		17:15	X																			
MB 680-286694/1-A	1	T	17:18	X																			
LCS 680-286694/2-A	1	T	17:20	X																			
ZZZZZZ			17:23																				
ZZZZZZ			17:26																				
680-92626-8	1	T	17:28	X																			
680-92626-7	1	T	17:31	X																			
ZZZZZZ			17:33																				
680-92626-5	1	T	17:36	X																			
680-92626-4	1	T	17:39	X																			
680-92626-3	1	T	17:41	X																			
CCV 680-286694/22-A	1		17:44	X																			
CCB 680-286694/23-A	1		17:47	X																			
680-92626-2	1	T	17:49	X																			
680-92626-1	1	T	17:52	X																			
680-92626-1 MS	1	T	17:54	X																			
680-92626-1 MSD	1	T	17:57	X																			
CRA 680-287160/28	1		18:00	X																			
CCV 680-286694/22-A	1		18:02	X																			
CCB 680-286694/23-A	1		18:05	X																			
CCV 680-286694/22-A	1		10:35	X																			
CCB 680-286694/23-A	1		10:38	X																			
680-92626-6	2	T	10:41	X																			
ZZZZZZ			10:43																				
CCV 680-286694/22-A	1		10:46	X																			
CCB 680-286694/23-A	1		10:48	X																			

Prep Types

T = Total/NA

Blank (Blk) **7/31/2013, 2:05:07 PM** **Rack S, Tube 1**

Label	Replicates	Concentration	
Ag 328.068	-0.0831	0.1154	-0.0323
Al 308.215	0.2018	0.8946	-1.0965
As 188.980	1.4166	-1.0801	-0.3365
B 249.678	-0.1338	0.1775	-0.0438
Ba 389.178	-0.1388	-0.0019	0.1407
Be 313.042	-0.0034	0.0010	0.0024
Ca 370.602	-0.0196	-2.355	2.375
Cd 226.502	0.0412	0.1261	-0.1673
Co 228.615	-0.2116	0.3201	-0.1085
Cr 267.716	0.1338	-0.0995	-0.0344
Cu 324.754	-0.1814	0.0776	0.1038
Fe 271.441	4.4181	-1.0306	-3.3875
K 766.491	-0.2555	0.1300	0.1255
Mg 279.078	-1.2341	0.8849	0.3492
Mn 257.610	0.0590	0.0028	-0.0618
Mo 202.032	0.1069	-0.2532	0.1464
Na 330.237	-105.296	84.0510	21.2450
Ni 231.604	0.6690	-0.2685	-0.4005
Pb 220.353	-0.3272	2.6878	-2.3606
Sb 206.834	0.2801	0.2323	-0.5123
Se 196.026	-2.4401	-2.1080	4.5481
Sn 189.925	0.1873	1.5713	-1.7586
Sr 216.596	-0.0002	0.2201	-0.2199
Ti 334.941	0.0057	0.0192	-0.0250
Tl 190.794	2.5124	-2.3292	-0.1832
V 292.401	-0.1061	-0.0944	0.2006
Zn 206.200	0.2335	-0.5822	0.3486

Label	Sol'n Conc.	Units	SD(Int)	%RSD(Int)	Int. (c/s)
Ag 328.068	0.0000	ppb	8.896	168.0	-5.2946
Al 308.215	0.0000	ppb	2.982	8.9	33.5174
As 188.980	0.0000	ppb	1.157	12.9	-8.9875
B 249.678	0.0000	ppb	2.754	2.5	111.282
Ba 389.178	0.0000	ppb	3.671	18.9	-19.3893
Be 313.042	0.0000	ppb	6.135	2.2	-283.419
Ca 370.602	0.0000	ppb	7.504	350.9	2.138
Cd 226.502	0.0000	ppb	8.131	115.1	7.0673
Co 228.615	0.0000	ppb	4.022	28.4	-14.1812
Cr 267.716	0.0000	ppb	7.602	31.5	24.1428
Cu 324.754	0.0000	ppb	10.013	4.0	251.844
Fe 271.441	0.0000	ppb	7.669	49.9	15.3742
K 766.491	0.0000	ppb	7.441	4.0	185.029
Mg 279.078	0.0000	ppb	3.146	9.6	32.7475
Mn 257.610	0.0000	ppb	16.323	19.8	82.3011
Mo 202.032	0.0000	ppb	1.883	31.9	5.9126
Na 330.237	0.0000	ppb	4.854	10.8	45.0296
Ni 231.604	0.0000	ppb	2.273	44.8	-5.0702
Pb 220.353	0.0000	ppb	5.223	35.0	14.9436
Sb 206.834	0.0000	ppb	0.733	13.4	5.4866
Se 196.026	0.0000	ppb	2.323	716.4	0.3242
Sn 189.925	0.0000	ppb	1.867	24.8	-7.5414
Sr 216.596	0.0000	ppb	3.673	42.5	8.6423
Ti 334.941	0.0000	ppb	7.229	12.9	-55.9255
Tl 190.794	0.0000	ppb	3.544	34.6	-10.2356
V 292.401	0.0000	ppb	5.243	170.3	-3.0797
Zn 206.200	0.0000	ppb	0.884	14.6	6.0441

HIGH STD (Std) **7/31/2013, 2:09:42 PM** **Rack S, Tube 2**

Label	Replicates		Concentration
Ag 328.068	988.349	1008.12	1003.53
Al 308.215	10013.8	10016.5	9969.69
As 188.980	991.437	1005.92	1002.64
B 249.678	998.485	997.354	1004.16
Ba 389.178	10003.3	9990.37	10006.4
Be 313.042	998.233	1000.57	1001.20
Ca 370.602	9991	10023	9986
Cd 226.502	999.456	997.628	1002.92
Co 228.615	999.697	998.110	1002.19
Cr 267.716	10011.5	9996.70	9991.83
Cu 324.754	10026.3	9986.93	9986.79
Fe 271.441	9999.80	9987.41	10012.8
K 766.491	19971.8	19997.4	20030.8
Mg 279.078	10000.2	9979.58	10020.2
Mn 257.610	9999.28	9978.99	10021.7
Mo 202.032	999.541	1000.000	1000.46
Na 330.237	15123.5	14999.7	14876.9
Ni 231.604	5009.09	4988.92	5001.99
Pb 220.353	1001.86	996.314	1001.83
Sb 206.834	1997.61	1993.62	2008.77
Se 196.026	10012.7	9985.95	10001.4
Sn 189.925	10039.8	9913.70	10046.5
Sr 216.596	4996.30	5001.17	5002.53
Ti 334.941	999.212	998.692	1002.10
Tl 190.794	9987.46	9995.04	10017.5
V 292.401	9994.89	9998.67	10006.4
Zn 206.200	5008.38	4987.89	5003.72

Label	Sol'n Conc.	Units	SD(Int)	%RSD(Int)	Int. (c/s)
Ag 328.068	1000.00	ppb	892.997	1.0	86296.9
Al 308.215	10000.0	ppb	77.521	0.3	29532.4
As 188.980	1000.00	ppb	6.857	0.8	893.892
B 249.678	1000.00	ppb	62.699	0.4	17301.8
Ba 389.178	10000.0	ppb	222.749	0.1	262660
Be 313.042	1000.00	ppb	3160.383	0.2	2021268
Ca 370.602	10000	ppb	63.921	0.2	31728
Cd 226.502	1000.00	ppb	144.656	0.3	53870.8
Co 228.615	1000.00	ppb	29.370	0.2	14251.6
Cr 267.716	10000.0	ppb	645.488	0.1	631488
Cu 324.754	10000.0	ppb	1445.439	0.2	635388
Fe 271.441	10000.0	ppb	24.298	0.1	19169.5
K 766.491	20000.0	ppb	993.839	0.1	672754
Mg 279.078	10000.0	ppb	57.949	0.2	28588.0
Mn 257.610	10000.0	ppb	5775.932	0.2	2701314
Mo 202.032	1000.00	ppb	3.932	0.0	8558.99
Na 330.237	15000.0	ppb	6.206	0.8	799.976
Ni 231.604	5000.00	ppb	39.868	0.2	19482.2
Pb 220.353	1000.00	ppb	6.564	0.3	2071.39
Sb 206.834	2000.00	ppb	12.962	0.4	3306.61
Se 196.026	10000.0	ppb	7.910	0.1	5891.77
Sn 189.925	10000.0	ppb	83.515	0.7	11155.1
Sr 216.596	5000.00	ppb	54.709	0.1	83491.8
Ti 334.941	1000.00	ppb	585.063	0.2	319064
Tl 190.794	10000.0	ppb	22.814	0.2	14597.3
V 292.401	10000.0	ppb	177.569	0.1	301663
Zn 206.200	5000.00	ppb	18.715	0.2	8719.48

Ag 328.068 Calibration (ppb) **7/31/2013, 2:09:42 PM** **Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-5.2946	0.0000	0.0000	-	-
HIGH STD		86296.9	1000.00	1000.00	0.0000	0.0

Curve Type: Linear Equation: y = 86.3 x + -5.3

Al 308.215 Calibration (ppb) **7/31/2013, 2:09:42 PM** **Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		33.5174	0.0000	0.0000	-	-
HIGH STD		29532.4	10000.0	10000.0	0.0000	0.0

Curve Type: Linear Equation: y = 2.9 x + 33.5

As 188.980 Calibration (ppb) **7/31/2013, 2:09:42 PM** **Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-8.9875	0.0000	0.0000	-	-
HIGH STD		893.892	1000.00	1000.00	0.0000	0.0

Curve Type: Linear Equation: y = 0.9 x + -9.0

B 249.678 Calibration (ppb) **7/31/2013, 2:09:42 PM** **Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		111.282	0.0000	0.0000	-	-
HIGH STD		17301.8	1000.00	1000.000	-0.0001	0.0

Curve Type: Linear Equation: y = 17.2 x + 111.3

Ba 389.178 Calibration (ppb) **7/31/2013, 2:09:42 PM** **Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-19.3893	0.0000	0.0000	-	-
HIGH STD		262660	10000.0	10000.0	0.0000	0.0

Curve Type: Linear Equation: y = 26.3 x + -19.4

Be 313.042 Calibration (ppb) **7/31/2013, 2:09:42 PM** **Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-283.419	0.0000	0.0000	-	-
HIGH STD		2021268	1000.00	1000.00	0.0000	0.0

Curve Type: Linear Equation: y = 2021.6 x + -283.4

Ca 370.602 Calibration (ppb) **7/31/2013, 2:09:42 PM** **Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		2.138	0.0000	0.0000	-	-
HIGH STD		31728	10000	10000	0.0000	0.0

Curve Type: Linear Equation: y = 3.2 x + 2.1

Cd 226.502 Calibration (ppb) **7/31/2013, 2:09:42 PM** **Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		7.0673	0.0000	0.0000	-	-
HIGH STD		53870.8	1000.00	1000.00	0.0000	0.0

Curve Type: Linear Equation: y = 53.9 x + 7.1

Co 228.615 Calibration (ppb) **7/31/2013, 2:09:42 PM** **Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-14.1812	0.0000	0.0000	-	-
HIGH STD		14251.6	1000.00	1000.00	0.0002	0.0

Curve Type: Linear Equation: y = 14.3 x + -14.2

Cr 267.716 Calibration (ppb) **7/31/2013, 2:09:42 PM** **Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		24.1428	0.0000	0.0000	-	-
HIGH STD		631488	10000.0	10000.0	0.0000	0.0

Curve Type: Linear Equation: y = 63.1 x + 24.1

Cu 324.754 Calibration (ppb) **7/31/2013, 2:09:42 PM** **Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		251.844	0.0000	0.0000	-	-
HIGH STD		635388	10000.0	10000.00	-0.0010	0.0

Curve Type: Linear Equation: y = 63.5 x + 251.8

Fe 271.441 Calibration (ppb) **7/31/2013, 2:09:42 PM** **Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		15.3742	0.0000	0.0000	-	-
HIGH STD		19169.5	10000.0	10000.0	0.0000	0.0

Curve Type: Linear Equation: y = 1.9 x + 15.4

K 766.491 Calibration (ppb) **7/31/2013, 2:09:42 PM** **Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		185.029	0.0000	0.0000	-	-
HIGH STD		672754	20000.0	20000.0	0.0000	0.0

Curve Type: Linear Equation: y = 33.6 x + 185.0

Mg 279.078 Calibration (ppb) **7/31/2013, 2:09:42 PM** **Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		32.7475	0.0000	0.0000	-	-
HIGH STD		28588.0	10000.0	10000.00	-0.0010	0.0

Curve Type: Linear Equation: y = 2.9 x + 32.7

Mn 257.610 Calibration (ppb) **7/31/2013, 2:09:42 PM** **Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		82.3011	0.0000	0.0000	-	-
HIGH STD		2701314	10000.0	10000.0	0.0000	0.0

Curve Type: Linear Equation: y = 270.1 x + 82.3

Mo 202.032 Calibration (ppb) **7/31/2013, 2:09:42 PM** **Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		5.9126	0.0000	0.0000	-	-
HIGH STD		8558.99	1000.00	1000.00	0.0001	0.0

Curve Type: Linear Equation: y = 8.6 x + 5.9

Na 330.237 Calibration (ppb) **7/31/2013, 2:09:42 PM** **Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		45.0296	0.0000	0.0000	-	-
HIGH STD		799.976	15000.0	15000.0	0.0000	0.0

Curve Type: Linear Equation: y = 0.1 x + 45.0

Ni 231.604 Calibration (ppb) **7/31/2013, 2:09:42 PM** **Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-5.0702	0.0000	0.0000	-	-
HIGH STD		19482.2	5000.00	5000.00	0.0000	0.0

Curve Type: Linear Equation: y = 3.9 x + -5.1

Pb 220.353 Calibration (ppb) **7/31/2013, 2:09:42 PM** **Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		14.9436	0.0000	0.0000	-	-
HIGH STD		2071.39	1000.00	1000.00	0.0001	0.0

Curve Type: Linear Equation: y = 2.1 x + 14.9

Sb 206.834 Calibration (ppb) **7/31/2013, 2:09:42 PM** **Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		5.4866	0.0000	0.0000	-	-
HIGH STD		3306.61	2000.00	2000.00	0.0000	0.0

Curve Type: Linear Equation: y = 1.7 x + 5.5

Se 196.026 Calibration (ppb) **7/31/2013, 2:09:42 PM** **Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		0.3242	0.0000	0.0000	-	-
HIGH STD		5891.77	10000.0	10000.0	0.0010	0.0

Curve Type: Linear Equation: y = 0.6 x + 0.3

Sn 189.925 Calibration (ppb) **7/31/2013, 2:09:42 PM** **Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-7.5414	0.0000	0.0000	-	-
HIGH STD		11155.1	10000.0	10000.0	0.0000	0.0

Curve Type: Linear Equation: y = 1.1 x + -7.5

Sr 216.596 Calibration (ppb) **7/31/2013, 2:09:42 PM** **Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		8.6423	0.0000	0.0000	-	-
HIGH STD		83491.8	5000.00	5000.00	0.0000	0.0

Curve Type: Linear Equation: y = 16.7 x + 8.6

Ti 334.941 Calibration (ppb) **7/31/2013, 2:09:42 PM** **Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-55.9255	0.0000	0.0000	-	-
HIGH STD		319064	1000.00	1000.00	0.0000	0.0

Curve Type: Linear Equation: y = 319.1 x + -55.9

Tl 190.794 Calibration (ppb) **7/31/2013, 2:09:42 PM** **Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-10.2356	0.0000	0.0000	-	-
HIGH STD		14597.3	10000.0	10000.0	0.0000	0.0

Curve Type: Linear Equation: y = 1.5 x + -10.2

V 292.401 Calibration (ppb) **7/31/2013, 2:09:42 PM** **Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-3.0797	0.0000	0.0000	-	-
HIGH STD		301663	10000.0	10000.0	0.0000	0.0

Curve Type: Linear Equation: y = 30.2 x + -3.1

Zn 206.200 Calibration (ppb) **7/31/2013, 2:09:42 PM** **Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		6.0441	0.0000	0.0000	-	-
HIGH STD		8719.48	5000.00	5000.00	0.0000	0.0

Curve Type: Linear Equation: y = 1.7 x + 6.0

LRA1 (Samp) **7/31/2013, 3:03:32 PM** **Rack S, Tube 7**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	-0.9268	-1.7346u	-1.8553u
Al 308.215	118.835	128.761	128.790
As 188.980	21536.3x	21698.8x	21706.5x
B 249.678	4954.53	4973.64	4963.30
Ba 389.178	-1.7521u	-0.0831u	-0.5602u

Label	Replicates Concentration		
Be 313.042	0.1312	0.1470	0.1314
Ca 370.602	242.4	271.8	258.8
Cd 226.502	-1.1719u	-1.4287u	-1.2648u
Co 228.615	10318.1	10320.1	10303.9
Cr 267.716	-1.5344	-1.4296	-1.6467
Cu 324.754	-0.3476u	-0.4136u	-0.3715u
Fe 271.441	-14.7646	-14.7716	-14.5871
K 766.491	8.6176	8.9312	9.0398
Mg 279.078	3.4851u	15.9269u	14.5565u
Mn 257.610	27566.6x	27628.5x	27486.5x
Mo 202.032	0.6000	0.9711	0.7225
Na 330.237	110748x	110370x	110591x
Ni 231.604	10263.8x	10287.9x	10231.5x
Pb 220.353	20735.8x	20816.8x	20678.0x
Sb 206.834	6.6117	6.7162	2.6208
Se 196.026	-1.3022	-1.8683	-1.5301
Sn 189.925	2.1522	3.4827	3.4259
Sr 216.596	-12.5978u	-12.8905u	-13.1652u
Ti 334.941	26770.5	26778.9	26697.1
Tl 190.794	58.8176	57.9651	53.9990
V 292.401	-2.5714	-2.1088	-2.1904
Zn 206.200	-0.5934u	-1.0000u	-0.8777u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.5056b	ppb	0.5048	33.5	11.7660
Al 308.215	125.462b	ppb	5.7392	4.6	188.946
As 188.980	21647.2xb	ppb	96.1256	0.4	19535.8
B 249.678	4963.82b	ppb	9.5657	0.2	85440.2
Ba 389.178	-0.7985b	ppb	0.8597	107.7	-39.6968
Be 313.042	0.1366b	ppb	0.0091	6.7	-40.0352
Ca 370.602	257.6b	ppb	14.75	5.7	15996
Cd 226.502	-1.2885b	ppb	0.1300	10.1	-59.7031
Co 228.615	10314.0b	ppb	8.8424	0.1	147869
Cr 267.716	-1.5369b	ppb	0.1085	7.1	153.418
Cu 324.754	-0.3776b	ppb	0.0335	8.9	227.786
Fe 271.441	-14.7078b	ppb	0.1046	0.7	1484.09
K 766.491	8.8629b	ppb	0.2192	2.5	483.074
Mg 279.078	11.3228b	ppb	6.8222	60.3	-530.699
Mn 257.610	27560.5xb	ppb	71.1614	0.3	7444816
Mo 202.032	0.7645b	ppb	0.1891	24.7	12.3779
Na 330.237	110570xb	ppb	189.987	0.2	5514.20
Ni 231.604	10261.1xb	ppb	28.3095	0.3	39954.7
Pb 220.353	20743.5xb	ppb	69.6826	0.3	42658.2
Sb 206.834	5.3162b	ppb	2.3349	43.9	14.2856
Se 196.026	-1.5669b	ppb	0.2848	18.2	7.4930
Sn 189.925	3.0203b	ppb	0.7523	24.9	-4.1191
Sr 216.596	-12.8845b	ppb	0.2838	2.2	-475.796
Ti 334.941	26748.8b	ppb	45.0045	0.2	8536029
Tl 190.794	56.9272b	ppb	2.5715	4.5	98.4339
V 292.401	-2.2902b	ppb	0.2469	10.8	391.716
Zn 206.200	-0.8237b	ppb	0.2086	25.3	4.6122

LRA2 (Samp) **7/31/2013, 3:08:10 PM** **Rack S, Tube 8**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-1.2801u	-2.2858u	-2.6322u
Al 308.215	807093	794223	799572

Label	Replicates Concentration		
As 188.980	26.8992	33.5754	27.0849
B 249.678	-69.6741u	-67.2483u	-71.5537u
Ba 389.178	-20.2016	-20.9184	-23.8320
Be 313.042	-0.0390	-0.0306	-0.0399
Ca 370.602	799894	792871	788301
Cd 226.502	-4.8015	-4.6506	-5.7578
Co 228.615	6.2887	6.8115	6.6542
Cr 267.716	8.4013	8.3516	8.3852
Cu 324.754	5.2647	5.6361	3.9213
Fe 271.441	917238	908241	903906
K 766.491	72940.9x	72268.8x	72272.7x
Mg 279.078	847474	842452	834643
Mn 257.610	7.5884	7.2371	7.0570
Mo 202.032	3.1727u	4.9000u	4.6041u
Na 330.237	-5403.79u	-5229.46u	-5586.78u
Ni 231.604	18.1399	14.2759	15.3239
Pb 220.353	2.1482	5.4434	2.5772
Sb 206.834	-0.1707	-0.7791	15.5464
Se 196.026	11.9664	16.8752	-0.7463
Sn 189.925	2.4800	2.4390	2.3286
Sr 216.596	32.7008	32.0561	31.6190
Ti 334.941	5.5555	5.0567	4.8320
Tl 190.794	-64.2968u	-54.5997u	-57.6019u
V 292.401	13.5815	14.3371	14.7863
Zn 206.200	27368.6	27172.1	27197.3

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-2.0660b	ppb	0.7024	34.0	-205.123
Al 308.215	800296b	ppb	6465.08	0.8	2360817
As 188.980	29.1865b	ppb	3.8020	13.0	16.1077
B 249.678	-69.4920b	ppb	2.1585	3.1	-3251.18
Ba 389.178	-21.6507b	ppb	1.9228	8.9	3374.12
Be 313.042	-0.0365b	ppb	0.0051	14.0	-40.2485
Ca 370.602	793689b	ppb	5840	0.7	2445986
Cd 226.502	-5.0700b	ppb	0.6004	11.8	3507.43
Co 228.615	6.5848b	ppb	0.2683	4.1	118.769
Cr 267.716	8.3794b	ppb	0.0254	0.3	844.468
Cu 324.754	4.9407b	ppb	0.9022	18.3	906.215
Fe 271.441	909795b	ppb	6800.72	0.7	1742652
K 766.491	72494.1xb	ppb	386.963	0.5	2438050
Mg 279.078	841523b	ppb	6465.61	0.8	2402914
Mn 257.610	7.2941b	ppb	0.2703	3.7	13014.7
Mo 202.032	4.2256b	ppb	0.9238	21.9	-11.5363
Na 330.237	-5406.67b	ppb	178.678	3.3	-887.027
Ni 231.604	15.9132b	ppb	1.9983	12.6	85.2986
Pb 220.353	3.3896b	ppb	1.7915	52.9	82.7454
Sb 206.834	4.8655b	ppb	9.2549	190.2	47.7074
Se 196.026	9.3651b	ppb	9.0942	97.1	9.5445
Sn 189.925	2.4159b	ppb	0.0783	3.2	-4.4416
Sr 216.596	32.1253b	ppb	0.5442	1.7	1913.52
Ti 334.941	5.1481b	ppb	0.3703	7.2	6099.61
Tl 190.794	-58.8328b	ppb	4.9644	8.4	-181.085
V 292.401	14.2350b	ppb	0.6088	4.3	431.375
Zn 206.200	27246.0b	ppb	106.896	0.4	47498.2

K NA ZN (Samp) **7/31/2013, 3:12:48 PM** **Rack S, Tube 9**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.0400u	0.0671	0.0019
Al 308.215	17.9524	30.1289	27.7528
As 188.980	0.3629	6.9285	1.4657
B 249.678	6.6892	6.3264	5.6900
Ba 389.178	-0.6078u	0.0702	0.4029
Be 313.042	0.0178	0.0178	0.0167
Ca 370.602	19.22	32.81	29.55
Cd 226.502	0.1469	0.0624	0.1588
Co 228.615	0.5753	0.7456	0.3158
Cr 267.716	0.0430	-0.0533u	-0.1216u
Cu 324.754	0.2776	-0.2286u	0.1690
Fe 271.441	21.3557	26.9461	32.9646
K 766.491	43156.2x	42811.2x	43311.9x
Mg 279.078	19.8642	30.7782	29.8046
Mn 257.610	0.0236	0.0435	0.0311
Mo 202.032	-0.1645u	0.6385	-0.1841u
Na 330.237	103194x	103535x	104855x
Ni 231.604	-1.1478u	1.1920	0.2958
Pb 220.353	1.5656	-0.5500u	1.3969
Sb 206.834	0.4007	0.4798	2.6962
Se 196.026	0.1514	-0.2071u	3.0417
Sn 189.925	-0.0338	-1.5881u	0.4107
Sr 216.596	-0.2866u	-0.0876u	-0.1941u
Ti 334.941	0.3063	0.2391	0.2476
Tl 190.794	-1.6105u	-0.5425u	-0.7488u
V 292.401	-0.1625u	-0.1540u	-0.0104u
Zn 206.200	30236.8x	30052.9x	30315.8x

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0097b	ppb	0.0540	558.1	-4.4611
Al 308.215	25.2780b	ppb	6.4545	25.5	108.085
As 188.980	2.9190b	ppb	3.5158	120.4	-6.3521
B 249.678	6.2352b	ppb	0.5058	8.1	218.533
Ba 389.178	-0.0449b	ppb	0.5151	1147.8	-20.4441
Be 313.042	0.0174b	ppb	0.0006	3.5	-260.948
Ca 370.602	27.19b	ppb	7.094	26.1	86.36
Cd 226.502	0.1227b	ppb	0.0525	42.8	12.9714
Co 228.615	0.5456b	ppb	0.2164	39.7	-6.3535
Cr 267.716	-0.0439b	ppb	0.0827	188.2	23.0646
Cu 324.754	0.0727b	ppb	0.2665	366.8	256.472
Fe 271.441	27.0888b	ppb	5.8058	21.4	67.3408
K 766.491	43093.1xb	ppb	256.250	0.6	1449339
Mg 279.078	26.8157b	ppb	6.0398	22.5	109.318
Mn 257.610	0.0327b	ppb	0.0100	30.7	90.8351
Mo 202.032	0.0967b	ppb	0.4694	485.5	6.7381
Na 330.237	103862xb	ppb	877.426	0.8	4835.43
Ni 231.604	0.1133b	ppb	1.1805	1041.7	-4.5867
Pb 220.353	0.8042b	ppb	1.1757	146.2	16.5988
Sb 206.834	1.1922b	ppb	1.3031	109.3	7.4551
Se 196.026	0.9953b	ppb	1.7812	179.0	0.9107
Sn 189.925	-0.4037b	ppb	1.0495	260.0	-7.9437
Sr 216.596	-0.1894b	ppb	0.0996	52.6	5.5140
Ti 334.941	0.2643b	ppb	0.0366	13.8	19.5612
Tl 190.794	-0.9673b	ppb	0.5665	58.6	-11.6489
V 292.401	-0.1089b	ppb	0.0855	78.5	-7.2485
Zn 206.200	30201.9xb	ppb	134.915	0.4	52638.4

640-44431-s-3-d^10 (Samp) **7/31/2013, 3:26:31 PM** **Rack 1, Tube 3**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	-0.0449u	-0.2975u	0.0017u
Al 308.215	44.5633	46.5376	46.8703
As 188.980	7.9003	0.5876	7.7222
B 249.678	180.801	204.696	202.556
Ba 389.178	4.6795	4.3996	3.8981
Be 313.042	0.0243	0.0240	0.0212
Ca 370.602	2720	3063	3045
Cd 226.502	0.0999	0.0766	0.1118
Co 228.615	1.6094	1.3988	1.2971
Cr 267.716	6.2423	7.2251	7.1373
Cu 324.754	0.3130	0.3063	0.1425
Fe 271.441	1190.79	1345.08	1331.66
K 766.491	14311.1	15929.4	15752.1
Mg 279.078	1294.88	1474.93	1450.42
Mn 257.610	19.0048	21.4138	21.1844
Mo 202.032	0.6854	0.1921	0.6375
Na 330.237	47866.7	54331.4	53552.9
Ni 231.604	6.4263	6.7563	6.3832
Pb 220.353	-0.0899u	2.4347	-1.7177u
Sb 206.834	-0.0619	1.6061	1.7675
Se 196.026	7.2109	0.7240	3.1453
Sn 189.925	1.1384	0.2759	4.3451
Sr 216.596	11.9729	13.3954	13.1523
Ti 334.941	4.1519	4.6241	4.6191
Tl 190.794	-1.6530u	-3.7983u	1.2061
V 292.401	2.0183	2.1655	2.3932
Zn 206.200	24.0827	25.6336	26.2326

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1136	ppb	0.1610	141.8	-15.6906
Al 308.215	45.9904	ppb	1.2471	2.7	168.985
As 188.980	5.4034	ppb	4.1715	77.2	-4.1267
B 249.678	196.017	ppb	13.2214	6.7	3477.90
Ba 389.178	4.3257	ppb	0.3959	9.2	100.501
Be 313.042	0.0232	ppb	0.0017	7.5	-242.857
Ca 370.602	2942	ppb	192.9	6.6	9238
Cd 226.502	0.0961	ppb	0.0179	18.6	17.1812
Co 228.615	1.4351	ppb	0.1593	11.1	6.4969
Cr 267.716	6.8682	ppb	0.5438	7.9	459.538
Cu 324.754	0.2539	ppb	0.0966	38.0	268.440
Fe 271.441	1289.18	ppb	85.4728	6.6	2484.93
K 766.491	15330.9	ppb	887.634	5.8	515739
Mg 279.078	1406.74	ppb	97.6484	6.9	4049.58
Mn 257.610	20.5343	ppb	1.3296	6.5	5646.40
Mo 202.032	0.5050	ppb	0.2720	53.9	10.1512
Na 330.237	51917.0	ppb	3529.20	6.8	2657.24
Ni 231.604	6.5219	ppb	0.2041	3.1	20.3837
Pb 220.353	0.2090	ppb	2.0923	1001.0	15.4857
Sb 206.834	1.1039	ppb	1.0129	91.8	7.4492
Se 196.026	3.6934	ppb	3.2780	88.8	2.5114
Sn 189.925	1.9198	ppb	2.1442	111.7	-5.3725
Sr 216.596	12.8402	ppb	0.7608	5.9	225.087
Ti 334.941	4.4650	ppb	0.2712	6.1	1371.88
Tl 190.794	-1.4151	ppb	2.5107	177.4	-12.4294
V 292.401	2.1923	ppb	0.1888	8.6	62.2274
Zn 206.200	25.3163	ppb	1.1095	5174	50.1484

640-44431-s-3-dSD^50 (Samp) **7/31/2013, 3:31:06 PM** **Rack 1, Tube 4**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	-0.0256u	0.1535	0.1915
Al 308.215	8.8104	8.8043	5.6924
As 188.980	0.4945	1.8114	-1.5043u
B 249.678	34.2334	36.4361	36.3403
Ba 389.178	1.3842	0.7717	0.7193
Be 313.042	0.0024	0.0118	0.0171
Ca 370.602	504.9	540.9	527.9
Cd 226.502	0.0362	0.0662	0.1719
Co 228.615	1.1238	1.1878	0.6984
Cr 267.716	1.1301	1.2291	1.2292
Cu 324.754	0.0994	0.3701	-0.0844u
Fe 271.441	220.654	236.139	231.494
K 766.491	2466.11	2610.21	2605.42
Mg 279.078	236.611	252.996	249.601
Mn 257.610	3.4509	3.5703	3.6094
Mo 202.032	0.3251	0.6157	0.6829
Na 330.237	8453.12	8919.49	9107.86
Ni 231.604	1.8337	1.2052	2.2171
Pb 220.353	0.3362	1.6308	-0.1709u
Sb 206.834	-0.1201u	-0.8511u	0.5442
Se 196.026	4.0156	-1.5971u	0.0431
Sn 189.925	1.1953	1.8826	1.4117
Sr 216.596	2.5513	2.6543	2.3826
Ti 334.941	0.6969	0.7690	0.7918
Tl 190.794	0.1750	-1.2563u	0.4857
V 292.401	0.3070	0.3826	0.3751
Zn 206.200	4.9765	5.4804	4.3631

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1065	ppb	0.1159	108.9	3.7671
Al 308.215	7.7690	ppb	1.7984	23.1	56.3992
As 188.980	0.2672	ppb	1.6695	624.8	-8.7497
B 249.678	35.6699	ppb	1.2450	3.5	723.935
Ba 389.178	0.9584	ppb	0.3697	38.6	6.8860
Be 313.042	0.0105	ppb	0.0074	71.1	-263.415
Ca 370.602	524.6	ppb	18.23	3.5	1649
Cd 226.502	0.0915	ppb	0.0713	77.9	12.8626
Co 228.615	1.0033	ppb	0.2660	26.5	0.1501
Cr 267.716	1.1961	ppb	0.0572	4.8	99.9615
Cu 324.754	0.1284	ppb	0.2286	178.1	260.096
Fe 271.441	229.429	ppb	7.9464	3.5	454.981
K 766.491	2560.58	ppb	81.8471	3.2	86293.4
Mg 279.078	246.403	ppb	8.6483	3.5	736.334
Mn 257.610	3.5435	ppb	0.0826	2.3	1042.52
Mo 202.032	0.5412	ppb	0.1902	35.1	10.5278
Na 330.237	8826.82	ppb	337.061	3.8	489.137
Ni 231.604	1.7520	ppb	0.5109	29.2	1.7619
Pb 220.353	0.5987	ppb	0.9291	155.2	16.1935
Sb 206.834	-0.1423	ppb	0.6979	490.4	5.2682
Se 196.026	0.8205	ppb	2.8859	351.7	0.8096
Sn 189.925	1.4965	ppb	0.3514	23.5	-5.8665
Sr 216.596	2.5294	ppb	0.1372	5.4	51.2033
Ti 334.941	0.7525	ppb	0.0495	6.6	184.768
Tl 190.794	-0.1985	ppb	0.9291	468.0	-10.5449
V 292.401	0.3549	ppb	0.0416	11.7	7.3960
Zn 206.200	4.9400	ppb	0.5596	11.3	14.6506

mb 680-287011/1-a (Samp) **7/31/2013, 3:35:40 PM** **Rack 1, Tube 5**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.1947u	-0.2669u	0.3860
Al 308.215	-1.5813u	3.8139	-5.4813u
As 188.980	0.6488	0.7368	-0.0675u
B 249.678	4.6412	4.0173	2.8118
Ba 389.178	-0.3754u	0.0439	0.2462
Be 313.042	0.0201	0.0056	0.0018
Ca 370.602	-4.092u	-7.017u	2.919
Cd 226.502	0.0604	0.0675	0.0791
Co 228.615	0.5649	0.7624	0.4560
Cr 267.716	-0.0793u	0.1762	-0.0305u
Cu 324.754	0.1746	0.6333	-0.1917u
Fe 271.441	-0.7072u	-0.8814u	-0.7910u
K 766.491	0.1125	0.3774	-0.5883u
Mg 279.078	-0.1701u	-1.3442u	-1.9484u
Mn 257.610	-0.1105u	-0.0515u	-0.0752u
Mo 202.032	0.9023	0.6398	0.0142
Na 330.237	-5.0480u	-121.551u	-360.790u
Ni 231.604	0.6089	1.0082	1.0316
Pb 220.353	-1.6842u	0.8002	-1.7309u
Sb 206.834	-1.0363u	0.3217	-0.4927u
Se 196.026	-0.8399u	-4.1529u	5.2048
Sn 189.925	-2.7794u	-1.3486u	-0.9156u
Sr 216.596	-0.0437u	0.1346	-0.3405u
Ti 334.941	0.0253	0.0107	-0.0299u
Tl 190.794	1.6286	-3.1911u	1.6210
V 292.401	0.1298	-0.3436u	-0.1095u
Zn 206.200	-0.4551u	-1.6437u	-0.8294u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0252	ppb	0.3580	1420.4	-7.4722
Al 308.215	-1.0829	ppb	4.6676	431.0	30.3305
As 188.980	0.4394	ppb	0.4411	100.4	-8.5911
B 249.678	3.8235	ppb	0.9300	24.3	177.017
Ba 389.178	-0.0284	ppb	0.3170	1116.2	-20.1421
Be 313.042	0.0092	ppb	0.0097	105.2	-264.907
Ca 370.602	-2.730	ppb	5.106	187.0	-6.271
Cd 226.502	0.0690	ppb	0.0094	13.7	10.7716
Co 228.615	0.5944	ppb	0.1553	26.1	-5.7158
Cr 267.716	0.0221	ppb	0.1356	613.4	25.5349
Cu 324.754	0.2054	ppb	0.4134	201.2	264.908
Fe 271.441	-0.7932	ppb	0.0871	11.0	13.9411
K 766.491	-0.0328	ppb	0.4990	1520.0	183.925
Mg 279.078	-1.1542	ppb	0.9042	78.3	29.4563
Mn 257.610	-0.0790	ppb	0.0297	37.6	60.9273
Mo 202.032	0.5188	ppb	0.4563	88.0	10.3500
Na 330.237	-162.463	ppb	181.366	111.6	36.8612
Ni 231.604	0.8829	ppb	0.2376	26.9	-1.6312
Pb 220.353	-0.8716	ppb	1.4480	166.1	13.1500
Sb 206.834	-0.4024	ppb	0.6835	169.8	4.8144
Se 196.026	0.0707	ppb	4.7449	6714.7	0.3658
Sn 189.925	-1.6812	ppb	0.9754	58.0	-9.4182
Sr 216.596	-0.0832	ppb	0.2400	288.5	7.2134
Ti 334.941	0.0020	ppb	0.0286	1406.5	-55.2717
Tl 190.794	0.0195	ppb	2.7805	14244.0	-10.2046
V 292.401	-0.1078	ppb	0.2367	219.7	-6.4218
Zn 206.200	-0.9761	ppb	0.6077	62.3	-4.3429

lcs 680-287011/2-a (Samp) **7/31/2013, 3:40:27 PM** **Rack 1, Tube 6**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	52.6814	54.2085	53.0545
Al 308.215	4664.36	4904.34	4745.64
As 188.980	107.482	111.409	104.056
B 249.678	192.558	201.652	195.145
Ba 389.178	102.075	106.627	103.394
Be 313.042	49.9275	52.2476	50.6745
Ca 370.602	4955	5173	5023
Cd 226.502	50.4803	52.8929	51.2225
Co 228.615	51.0353	53.5195	52.2132
Cr 267.716	103.690	108.832	105.319
Cu 324.754	103.461	107.077	104.225
Fe 271.441	4912.91	5139.31	4967.95
K 766.491	4897.25	5111.69	4985.29
Mg 279.078	4914.28	5149.02	4984.60
Mn 257.610	519.681	544.145	527.281
Mo 202.032	101.221	106.716	102.378
Na 330.237	4873.22	5112.36	4893.27
Ni 231.604	100.408	105.692	101.788
Pb 220.353	52.4101	52.6366	51.0510
Sb 206.834	48.7871	54.9637	49.4684
Se 196.026	98.4342	110.885	99.4546
Sn 189.925	197.225	207.742	201.859
Sr 216.596	102.628	108.894	104.249
Ti 334.941	97.6566	102.045	98.8860
Tl 190.794	42.2816	40.2928	41.0566
V 292.401	100.906	105.667	102.085
Zn 206.200	100.476	104.501	102.003

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	53.3148	ppb	0.7961	1.5	4593.85
Al 308.215	4771.45	ppb	122.055	2.6	14101.9
As 188.980	107.649	ppb	3.6794	3.4	88.1643
B 249.678	196.452	ppb	4.6858	2.4	3476.48
Ba 389.178	104.032	ppb	2.3423	2.3	2737.13
Be 313.042	50.9499	ppb	1.1843	2.3	102694
Ca 370.602	5050	ppb	111.6	2.2	15697
Cd 226.502	51.5319	ppb	1.2357	2.4	2803.48
Co 228.615	52.2560	ppb	1.2427	2.4	730.974
Cr 267.716	105.947	ppb	2.6279	2.5	6717.32
Cu 324.754	104.921	ppb	1.9056	1.8	6919.98
Fe 271.441	5006.72	ppb	118.076	2.4	9614.09
K 766.491	4998.08	ppb	107.792	2.2	168263
Mg 279.078	5015.97	ppb	120.474	2.4	14343.8
Mn 257.610	530.369	ppb	12.5206	2.4	143411
Mo 202.032	103.438	ppb	2.8972	2.8	890.106
Na 330.237	4959.62	ppb	132.656	2.7	291.348
Ni 231.604	102.629	ppb	2.7407	2.7	394.915
Pb 220.353	52.0326	ppb	0.8576	1.6	122.154
Sb 206.834	51.0731	ppb	3.3865	6.6	90.0799
Se 196.026	102.925	ppb	6.9130	6.7	61.1378
Sn 189.925	202.275	ppb	5.2706	2.6	218.257
Sr 216.596	105.257	ppb	3.2524	3.1	1768.94
Ti 334.941	99.5291	ppb	2.2637	2.3	31732.3
Tl 190.794	41.2104	ppb	1.0033	2.4	49.3681
V 292.401	102.886	ppb	2.4797	2.4	3076.95
Zn 206.200	102.327	ppb	2.0320	2.0	183.974

680-92558-d-8-d (Samp) **7/31/2013, 3:45:02 PM** **Rack 1, Tube 7**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.0330u	-0.3320u	0.0418
Al 308.215	46.9423	45.7319	42.0220
As 188.980	1.9250	1.1890	2.0708
B 249.678	36.7083	36.1582	35.3639
Ba 389.178	23.5633	23.6337	23.1647
Be 313.042	0.0629	0.0363	0.0289
Ca 370.602	12127	12067	12004
Cd 226.502	0.2563	0.2374	0.2624
Co 228.615	1.3136	0.6505	1.0414
Cr 267.716	0.3275	0.1864	0.1816
Cu 324.754	2.1835	2.8819	1.6142
Fe 271.441	376.580	376.369	370.854
K 766.491	1213.73	1200.62	1193.86
Mg 279.078	1634.87	1607.50	1600.81
Mn 257.610	15.6117	15.1395	14.9772
Mo 202.032	0.3653	0.4834	0.1636
Na 330.237	14377.1	14286.6	14325.7
Ni 231.604	1.0937	2.1778	1.3052
Pb 220.353	0.8884	0.6842	-0.0336u
Sb 206.834	3.8163	-1.4928u	2.3830
Se 196.026	6.8915	-1.7749u	3.4872
Sn 189.925	-2.2406u	-0.2721u	1.3715
Sr 216.596	51.3548	50.2503	50.5479
Ti 334.941	0.4947	0.3622	0.4265
Tl 190.794	0.5383	-0.5792u	-0.1059u
V 292.401	0.2036	-0.0942u	0.2100
Zn 206.200	3.5746	2.4519	2.2492

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1077	ppb	0.1978	183.6	-17.1926
Al 308.215	44.8988	ppb	2.5638	5.7	165.941
As 188.980	1.7283	ppb	0.4727	27.3	-7.4319
B 249.678	36.0768	ppb	0.6759	1.9	730.574
Ba 389.178	23.4539	ppb	0.2529	1.1	602.110
Be 313.042	0.0427	ppb	0.0179	41.9	-194.477
Ca 370.602	12066	ppb	61.48	0.5	38253
Cd 226.502	0.2520	ppb	0.0130	5.2	22.1000
Co 228.615	1.0018	ppb	0.3333	33.3	0.1315
Cr 267.716	0.2318	ppb	0.0829	35.8	39.3119
Cu 324.754	2.2265	ppb	0.6349	28.5	393.407
Fe 271.441	374.601	ppb	3.2467	0.9	733.040
K 766.491	1202.74	ppb	10.0996	0.8	40631.2
Mg 279.078	1614.39	ppb	18.0442	1.1	4642.43
Mn 257.610	15.2428	ppb	0.3296	2.2	4216.49
Mo 202.032	0.3374	ppb	0.1617	47.9	8.7761
Na 330.237	14329.8	ppb	45.3916	0.3	766.086
Ni 231.604	1.5255	ppb	0.5747	37.7	0.8839
Pb 220.353	0.5130	ppb	0.4843	94.4	16.0331
Sb 206.834	1.5688	ppb	2.7466	175.1	8.0885
Se 196.026	2.8679	ppb	4.3663	152.2	2.0198
Sn 189.925	-0.3804	ppb	1.8085	475.4	-7.9524
Sr 216.596	50.7177	ppb	0.5715	1.1	857.859
Ti 334.941	0.4278	ppb	0.0662	15.5	87.7615
Tl 190.794	-0.0489	ppb	0.5609	1146.1	-10.3481
V 292.401	0.1064	ppb	0.1738	163.3	-0.0278
Zn 206.200	2.7586	ppb	0.7139	25.9	10.8550

680-92558-d-8-e ms (Samp) **7/31/2013, 3:49:38 PM** **Rack 1, Tube 8**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	55.2996	54.6927	55.8733
Al 308.215	5013.22	4972.83	5010.15
As 188.980	111.970	113.916	115.430
B 249.678	234.245	232.978	233.357
Ba 389.178	130.726	130.124	130.463
Be 313.042	52.4708	52.1531	52.3665
Ca 370.602	17187	17089	17162
Cd 226.502	53.0516	52.4353	52.2419
Co 228.615	53.7219	53.6730	53.4884
Cr 267.716	108.987	108.360	108.450
Cu 324.754	110.272	109.402	110.521
Fe 271.441	5331.73	5301.16	5329.62
K 766.491	6464.19	6443.95	6477.14
Mg 279.078	6760.25	6720.40	6744.41
Mn 257.610	560.397	557.278	559.169
Mo 202.032	106.777	106.324	106.999
Na 330.237	19765.5	19383.4	19518.6
Ni 231.604	105.554	107.299	105.341
Pb 220.353	52.3400	53.3756	52.4933
Sb 206.834	48.5210	50.7051	47.7381
Se 196.026	108.555	103.916	103.923
Sn 189.925	207.293	214.870	206.659
Sr 216.596	158.191	156.798	157.852
Ti 334.941	102.693	102.194	102.554
Tl 190.794	41.3438	41.7212	43.0671
V 292.401	106.015	105.458	106.093
Zn 206.200	107.836	106.450	108.368

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	55.2885	ppb	0.5904	1.1	4761.59
Al 308.215	4998.73	ppb	22.4890	0.4	14772.2
As 188.980	113.772	ppb	1.7345	1.5	93.6899
B 249.678	233.526	ppb	0.6502	0.3	4113.07
Ba 389.178	130.438	ppb	0.3014	0.2	3436.45
Be 313.042	52.3301	ppb	0.1620	0.3	105486
Ca 370.602	17146	ppb	51.32	0.3	54050
Cd 226.502	52.5763	ppb	0.4229	0.8	2860.96
Co 228.615	53.6278	ppb	0.1231	0.2	750.531
Cr 267.716	108.599	ppb	0.3391	0.3	6885.35
Cu 324.754	110.065	ppb	0.5874	0.5	7246.88
Fe 271.441	5320.84	ppb	17.0711	0.3	10216.0
K 766.491	6461.76	ppb	16.7319	0.3	217484
Mg 279.078	6741.69	ppb	20.0595	0.3	19271.0
Mn 257.610	558.948	ppb	1.5714	0.3	151149
Mo 202.032	106.700	ppb	0.3441	0.3	917.978
Na 330.237	19555.8	ppb	193.779	1.0	1025.80
Ni 231.604	106.065	ppb	1.0740	1.0	408.311
Pb 220.353	52.7363	ppb	0.5589	1.1	123.624
Sb 206.834	48.9881	ppb	1.5376	3.1	86.6381
Se 196.026	105.465	ppb	2.6764	2.5	62.6438
Sn 189.925	209.607	ppb	4.5683	2.2	226.455
Sr 216.596	157.613	ppb	0.7266	0.5	2645.32
Ti 334.941	102.480	ppb	0.2576	0.3	32681.8
Tl 190.794	42.0440	ppb	0.9059	2.2	50.5431
V 292.401	105.855	ppb	0.3466	0.3	3165.71
Zn 206.200	107.551	ppb	0.9905	0.9	193.072

680-92558-d-8-f msd (Samp) **7/31/2013, 3:54:14 PM** **Rack 1, Tube 9**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	55.0653	55.8054	55.3288
Al 308.215	4948.57	4972.85	4987.10
As 188.980	111.560	112.687	111.760
B 249.678	235.431	236.335	236.410
Ba 389.178	130.633	131.426	131.151
Be 313.042	52.7294	52.7724	52.7100
Ca 370.602	17228	17281	17314
Cd 226.502	53.0365	52.8893	52.9942
Co 228.615	54.8355	54.8343	54.9005
Cr 267.716	108.975	109.019	109.267
Cu 324.754	111.551	111.421	110.186
Fe 271.441	5346.55	5343.68	5351.66
K 766.491	6483.29	6486.26	6499.52
Mg 279.078	6822.79	6821.40	6815.98
Mn 257.610	560.581	561.895	561.720
Mo 202.032	107.000	107.327	107.277
Na 330.237	19752.6	19909.0	19850.0
Ni 231.604	106.655	107.238	106.852
Pb 220.353	54.8035	54.8447	53.9602
Sb 206.834	52.4052	47.8960	47.1082
Se 196.026	106.634	113.110	102.538
Sn 189.925	213.153	213.210	206.846
Sr 216.596	159.209	159.076	159.006
Ti 334.941	102.819	102.926	102.680
Tl 190.794	42.2459	47.1077	42.3927
V 292.401	105.781	106.195	106.098
Zn 206.200	108.683	106.348	108.930

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	55.3998	ppb	0.3751	0.7	4771.10
Al 308.215	4969.51	ppb	19.4819	0.4	14686.0
As 188.980	112.002	ppb	0.6017	0.5	92.0919
B 249.678	236.059	ppb	0.5452	0.2	4156.53
Ba 389.178	131.070	ppb	0.4026	0.3	3453.33
Be 313.042	52.7373	ppb	0.0320	0.1	106309
Ca 370.602	17275	ppb	43.50	0.3	54456
Cd 226.502	52.9733	ppb	0.0758	0.1	2882.46
Co 228.615	54.8567	ppb	0.0379	0.1	768.058
Cr 267.716	109.087	ppb	0.1576	0.1	6916.22
Cu 324.754	111.052	ppb	0.7531	0.7	7309.61
Fe 271.441	5347.29	ppb	4.0424	0.1	10266.8
K 766.491	6489.69	ppb	8.6405	0.1	218423
Mg 279.078	6820.06	ppb	3.5967	0.1	19494.7
Mn 257.610	561.399	ppb	0.7139	0.1	151812
Mo 202.032	107.201	ppb	0.1762	0.2	922.264
Na 330.237	19837.2	ppb	78.9925	0.4	1039.93
Ni 231.604	106.915	ppb	0.2963	0.3	411.622
Pb 220.353	54.5361	ppb	0.4992	0.9	127.326
Sb 206.834	49.1364	ppb	2.8581	5.8	86.8888
Se 196.026	107.427	ppb	5.3307	5.0	63.8011
Sn 189.925	211.070	ppb	3.6578	1.7	228.088
Sr 216.596	159.097	ppb	0.1030	0.1	2670.14
Ti 334.941	102.808	ppb	0.1235	0.1	32786.8
Tl 190.794	43.9154	ppb	2.7655	6.3	53.2771
V 292.401	106.024	ppb	0.2164	0.2	3170.67
Zn 206.200	107.987	ppb	1.4345	1.3	193.829

LEEMAN (Samp) **7/31/2013, 3:58:50 PM** **Rack 1, Tube 10**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	21.5992	21.9781	22.0557
Al 308.215	3192.79	3194.14	3183.00
As 188.980	-3.0010u	-11.2423u	-4.8366u
B 249.678	-29.9828u	-30.7780u	-30.1089u
Ba 389.178	27.0230	27.0228	25.5378
Be 313.042	0.2609	0.2601	0.2654
Ca 370.602	15834	15838	15846
Cd 226.502	-0.9784u	-0.8484u	-0.9402u
Co 228.615	-30.3129u	-31.0257u	-31.4777u
Cr 267.716	31.4550	32.0424	32.1955
Cu 324.754	73.4558	73.1790	73.9697
Fe 271.441	9153.52	9170.29	9195.68
K 766.491	615616o	616425o	615742x
Mg 279.078	-3771.64u	-3769.57u	-3781.99u
Mn 257.610	169729o	173559o	166894o
Mo 202.032	6.9732	6.3384	6.2303
Na 330.237	1216529x	1221148x	1224020x
Ni 231.604	-43.7761u	-37.5640u	-43.2045u
Pb 220.353	455.630	454.187	455.555
Sb 206.834	473.858	473.596	463.517
Se 196.026	243.400	235.680	230.110
Sn 189.925	1398333x	1370116x	1394237x
Sr 216.596	22.0668	23.1267	23.0303
Ti 334.941	47.4309	47.5157	47.5029
Tl 190.794	677.511	671.392	666.052
V 292.401	-19.6584u	-20.3692u	-20.3335u
Zn 206.200	123.319	122.637	120.836

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	21.8776b	ppb	0.2443	1.1	2791.05
Al 308.215	3189.98b	ppb	6.0796	0.2	9447.74
As 188.980	-6.3600b	ppb	4.3267	68.0	-14.8174
B 249.678	-30.2899b	ppb	0.4274	1.4	-429.091
Ba 389.178	26.5279b	ppb	0.8574	3.2	678.060
Be 313.042	0.2621b	ppb	0.0029	1.1	185.671
Ca 370.602	15839b	ppb	5.646	0.0	54442
Cd 226.502	-0.9223b	ppb	0.0668	7.2	-15.1250
Co 228.615	-30.9387b	ppb	0.5872	1.9	-1638.11
Cr 267.716	31.8976b	ppb	0.3909	1.2	3051.59
Cu 324.754	73.5349b	ppb	0.4012	0.5	4926.14
Fe 271.441	9173.16b	ppb	21.2260	0.2	17569.1
K 766.491	615928oxb	ppb	435.277	0.1	20712874
Mg 279.078	-3774.40b	ppb	6.6521	0.2	-14493.7
Mn 257.610	170061oxb	ppb	3345.13	2.0	45937556
Mo 202.032	6.5140b	ppb	0.4014	6.2	61.1405
Na 330.237	1220566xb	ppb	3779.29	0.3	61471.2
Ni 231.604	-41.5149b	ppb	3.4335	8.3	-166.236
Pb 220.353	455.124b	ppb	0.8119	0.2	997.796
Sb 206.834	470.323b	ppb	5.8963	1.3	1239.32
Se 196.026	236.397b	ppb	6.6740	2.8	190.527
Sn 189.925	1387562xb	ppb	15247.0	1.1	1548885
Sr 216.596	22.7413b	ppb	0.5861	2.6	402.527
Ti 334.941	47.4832b	ppb	0.0457	0.1	14967.7
Tl 190.794	671.651b	ppb	5.7338	0.9	851.923
V 292.401	-20.1204b	ppb	0.4004	2.0	-622.435
Zn 206.200	122.264b	ppb	1.2828	1.0	319.097

LEEMAN ^10 (Samp) **7/31/2013, 4:03:26 PM** **Rack 1, Tube 11**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.7953	-0.8497	-0.9582
Al 308.215	345.227	339.745	329.166
As 188.980	1.4434	3.5384	-0.3919u
B 249.678	-3.2765u	-3.2281u	-2.8881u
Ba 389.178	3.4687	3.1926	3.2190
Be 313.042	0.0338	0.0307	0.0371
Ca 370.602	1325	1313	1257
Cd 226.502	-0.2109u	0.0200	0.1046
Co 228.615	12.7938u	13.9010u	14.1892u
Cr 267.716	-0.8188	-0.7737	-0.8183
Cu 324.754	8.2267	8.2433	7.4671
Fe 271.441	1094.92	1081.40	1050.63
K 766.491	90118.0x	88790.1x	86242.0x
Mg 279.078	-3.4579u	0.3810u	21.3318u
Mn 257.610	72548.4x	71845.4x	70504.6x
Mo 202.032	1.1988	0.7252	0.0382
Na 330.237	117577x	115539x	112446x
Ni 231.604	-3.8985u	-3.7983u	-3.3746u
Pb 220.353	48.7075	47.8918	45.4728
Sb 206.834	2.8794	4.3611	-0.6766
Se 196.026	10.3119	7.7707	-3.7942
Sn 189.925	436549x	431125x	422223x
Sr 216.596	2.8362	2.8853	2.4394
Ti 334.941	5.4570	5.3986	5.2207
Tl 190.794	105.930	106.925	99.2768
V 292.401	-2.0409u	-1.9683u	-1.9295u
Zn 206.200	13.9929	14.6392	12.3443

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.8677b	ppb	0.0829	9.6	295.857
Al 308.215	338.046b	ppb	8.1641	2.4	1031.14
As 188.980	1.5300b	ppb	1.9665	128.5	-7.6169
B 249.678	-3.1309b	ppb	0.2117	6.8	55.2087
Ba 389.178	3.2934b	ppb	0.1523	4.6	67.3534
Be 313.042	0.0339b	ppb	0.0032	9.5	-202.760
Ca 370.602	1298b	ppb	36.21	2.8	6058
Cd 226.502	-0.0288b	ppb	0.1633	567.6	8.9611
Co 228.615	13.6280b	ppb	0.7367	5.4	-185.521
Cr 267.716	-0.8036b	ppb	0.0259	3.2	382.525
Cu 324.754	7.9791b	ppb	0.4435	5.6	759.063
Fe 271.441	1075.65b	ppb	22.6984	2.1	2073.93
K 766.491	88383.4xb	ppb	1969.77	2.2	2972381
Mg 279.078	6.0850b	ppb	13.3429	219.3	-1500.52
Mn 257.610	71632.8xb	ppb	1038.38	1.4	19349806
Mo 202.032	0.6541b	ppb	0.5836	89.2	11.4492
Na 330.237	115187xb	ppb	2583.55	2.2	5841.86
Ni 231.604	-3.6905b	ppb	0.2781	7.5	-19.3833
Pb 220.353	47.3574b	ppb	1.6823	3.6	131.521
Sb 206.834	2.1880b	ppb	2.5890	118.3	150.339
Se 196.026	4.7628b	ppb	7.5187	157.9	24.1841
Sn 189.925	429966xb	ppb	7232.93	1.7	479950
Sr 216.596	2.7203b	ppb	0.2445	9.0	55.6900
Ti 334.941	5.3588b	ppb	0.1231	2.3	1641.74
Tl 190.794	104.044b	ppb	4.1582	4.0	92.9525
V 292.401	-1.9796b	ppb	0.0565	2.9	-63.9896
Zn 206.200	13.6588b	ppb	1.1834	8.7	39.8454

ICP (Samp) **7/31/2013, 4:08:03 PM** **Rack 1, Tube 12**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	21.6315	21.3751	21.8031
Al 308.215	12162.8	12119.3	12149.6
As 188.980	80.1127	78.5159	77.5398
B 249.678	70.9189	70.3696	70.7374
Ba 389.178	326.495	325.607	325.585
Be 313.042	22.6572	22.5451	22.7041
Ca 370.602	18899	18779	18829
Cd 226.502	44.4005	44.1007	44.3221
Co 228.615	54.6190	54.1610	54.3518
Cr 267.716	188.179	187.637	188.806
Cu 324.754	259.046	256.634	260.216
Fe 271.441	21468.9	21388.1	21499.5
K 766.491	3971.55	3965.56	3995.58
Mg 279.078	7776.14	7737.93	7761.64
Mn 257.610	827.902	824.957	828.786
Mo 202.032	33.3043	32.9105	32.8414
Na 330.237	8558.62	8598.58	8619.81
Ni 231.604	133.814	134.052	133.361
Pb 220.353	665.100	657.612	662.996
Sb 206.834	84.4019	81.7637	84.1424
Se 196.026	177.144	176.062	171.785
Sn 189.925	227.005	223.971	221.381
Sr 216.596	179.039	178.521	179.374
Ti 334.941	293.242	292.757	294.640
Tl 190.794	170.067	169.222	170.194
V 292.401	189.962	189.425	190.392
Zn 206.200	14509.1	14442.0	14470.4

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	21.6032	ppb	0.2154	1.0	1855.23
Al 308.215	12143.9	ppb	22.3001	0.2	35840.9
As 188.980	78.7228	ppb	1.2989	1.6	61.9499
B 249.678	70.6753	ppb	0.2799	0.4	1275.18
Ba 389.178	325.895	ppb	0.5191	0.2	8599.29
Be 313.042	22.6355	ppb	0.0817	0.4	45469.2
Ca 370.602	18835	ppb	60.22	0.3	58246
Cd 226.502	44.2745	ppb	0.1555	0.4	2480.45
Co 228.615	54.3773	ppb	0.2300	0.4	770.072
Cr 267.716	188.207	ppb	0.5852	0.3	11917.9
Cu 324.754	258.632	ppb	1.8266	0.7	16685.3
Fe 271.441	21452.1	ppb	57.5645	0.3	41115.1
K 766.491	3977.57	ppb	15.8872	0.4	133944
Mg 279.078	7758.57	ppb	19.2881	0.2	22169.9
Mn 257.610	827.215	ppb	2.0046	0.2	223675
Mo 202.032	33.0188	ppb	0.2497	0.8	286.641
Na 330.237	8592.33	ppb	31.0702	0.4	260.727
Ni 231.604	133.742	ppb	0.3507	0.3	516.697
Pb 220.353	661.902	ppb	3.8618	0.6	1377.64
Sb 206.834	83.4360	ppb	1.4541	1.7	146.428
Se 196.026	174.997	ppb	2.8341	1.6	103.753
Sn 189.925	224.119	ppb	2.8152	1.3	242.649
Sr 216.596	178.978	ppb	0.4298	0.2	3025.11
Ti 334.941	293.546	ppb	0.9776	0.3	93663.5
Tl 190.794	169.828	ppb	0.5282	0.3	235.632
V 292.401	189.926	ppb	0.4847	0.3	5714.25
Zn 206.200	14473.8	ppb	33.6634	0.2	35228.9

mb 680-286913/1-a (Samp) **7/31/2013, 4:21:56 PM** **Rack 1, Tube 15**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.0112u	-0.1520u	-0.0584u
Al 308.215	-4.2669u	-2.6733u	-0.6729u
As 188.980	0.7428	0.5916	0.0694
B 249.678	2.5566	3.6294	3.6843
Ba 389.178	0.6621	0.8604	0.4374
Be 313.042	0.0110	0.0094	0.0151
Ca 370.602	-0.6819u	0.2531	2.391
Cd 226.502	0.0052	0.0920	0.1195
Co 228.615	0.1561	0.4910	0.3133
Cr 267.716	0.0740	0.0559	0.0082
Cu 324.754	0.4123	0.1158	0.3102
Fe 271.441	-6.6000u	2.1250	1.0547
K 766.491	0.3462	0.7399	1.4131
Mg 279.078	-2.2216u	-0.9798u	0.6902
Mn 257.610	-0.1760u	-0.1118u	-0.1229u
Mo 202.032	0.2695	-0.2420u	-0.0498u
Na 330.237	64.3530	-222.908u	33.9635
Ni 231.604	0.7989	0.8568	0.8561
Pb 220.353	-2.5388u	0.4126	0.7206
Sb 206.834	1.1952	0.9920	2.3054
Se 196.026	-0.8833u	3.0512	-2.1823u
Sn 189.925	0.8265	-0.9413u	2.1740
Sr 216.596	-0.1953u	-0.1558u	-0.0964u
Ti 334.941	-0.0676u	-0.0426u	-0.0419u
Tl 190.794	1.5614	-0.8883u	1.5046
V 292.401	0.0977	-0.1687u	-0.1924u
Zn 206.200	-1.8826u	-0.1387u	-0.3168u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0738	ppb	0.0717	97.0	-11.6718
Al 308.215	-2.5377	ppb	1.8008	71.0	26.0301
As 188.980	0.4679	ppb	0.3533	75.5	-8.5651
B 249.678	3.2901	ppb	0.6358	19.3	167.849
Ba 389.178	0.6533	ppb	0.2116	32.4	-2.2373
Be 313.042	0.0118	ppb	0.0029	24.7	-259.472
Ca 370.602	0.6540	ppb	1.575	240.8	4.461
Cd 226.502	0.0722	ppb	0.0597	82.6	10.9437
Co 228.615	0.3201	ppb	0.1676	52.3	-9.6159
Cr 267.716	0.0460	ppb	0.0340	73.8	27.0451
Cu 324.754	0.2794	ppb	0.1506	53.9	269.592
Fe 271.441	-1.1401	ppb	4.7586	417.4	13.2392
K 766.491	0.8330	ppb	0.5395	64.8	213.043
Mg 279.078	-0.8371	ppb	1.4611	174.5	30.3637
Mn 257.610	-0.1369	ppb	0.0343	25.1	45.2988
Mo 202.032	-0.0074	ppb	0.2584	3478.8	5.8494
Na 330.237	-41.5308	ppb	157.811	380.0	42.9531
Ni 231.604	0.8373	ppb	0.0333	4.0	-1.8082
Pb 220.353	-0.4685	ppb	1.7995	384.1	13.9800
Sb 206.834	1.4975	ppb	0.7070	47.2	7.9613
Se 196.026	-0.0048	ppb	2.7251	56778.1	0.3213
Sn 189.925	0.6864	ppb	1.5624	227.6	-6.7752
Sr 216.596	-0.1492	ppb	0.0498	33.4	6.1320
Ti 334.941	-0.0507	ppb	0.0147	28.9	-72.0903
Tl 190.794	0.7259	ppb	1.3982	192.6	-9.1734
V 292.401	-0.0878	ppb	0.1611	183.5	-5.7291
Zn 206.200	-0.7793	ppb	0.9596	123.1	4.6859

lcs 680-286913/2-a (Samp) **7/31/2013, 4:26:30 PM** **Rack 1, Tube 16**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	56.7094	57.8365	56.7547
Al 308.215	4664.76	4708.08	4641.10
As 188.980	101.349	106.073	106.102
B 249.678	192.619	195.837	193.600
Ba 389.178	103.051	104.291	102.444
Be 313.042	50.1671	50.6733	50.2911
Ca 370.602	4933	4994	4940
Cd 226.502	50.5197	51.2984	50.5876
Co 228.615	51.9851	52.0719	51.0859
Cr 267.716	104.145	105.248	104.373
Cu 324.754	104.838	105.981	104.321
Fe 271.441	4909.82	4973.85	4944.00
K 766.491	4898.74	4943.52	4912.31
Mg 279.078	4936.09	4995.32	4948.84
Mn 257.610	521.288	526.102	521.474
Mo 202.032	101.946	102.217	102.401
Na 330.237	4754.47	4808.53	4714.25
Ni 231.604	102.204	103.936	101.999
Pb 220.353	51.4132	50.5960	50.2587
Sb 206.834	49.7427	49.3534	51.0736
Se 196.026	108.967	102.431	102.912
Sn 189.925	203.503	206.193	202.112
Sr 216.596	103.580	104.204	103.474
Ti 334.941	97.8854	99.1618	98.1888
Tl 190.794	42.0401	39.1095	40.9637
V 292.401	100.884	101.794	101.139
Zn 206.200	102.088	99.6649	100.329

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	57.1002	ppb	0.6381	1.1	4920.54
Al 308.215	4671.31	ppb	33.9690	0.7	13806.7
As 188.980	104.508	ppb	2.7358	2.6	85.3285
B 249.678	194.019	ppb	1.6495	0.9	3434.80
Ba 389.178	103.262	ppb	0.9413	0.9	2716.62
Be 313.042	50.3772	ppb	0.2638	0.5	101537
Ca 370.602	4956	ppb	33.83	0.7	15402
Cd 226.502	50.8019	ppb	0.4313	0.8	2763.92
Co 228.615	51.7143	ppb	0.5459	1.1	723.237
Cr 267.716	104.589	ppb	0.5821	0.6	6631.54
Cu 324.754	105.047	ppb	0.8492	0.8	6927.90
Fe 271.441	4942.56	ppb	32.0369	0.6	9491.09
K 766.491	4918.19	ppb	22.9613	0.5	165576
Mg 279.078	4960.09	ppb	31.1756	0.6	14184.3
Mn 257.610	522.955	ppb	2.7271	0.5	141408
Mo 202.032	102.188	ppb	0.2289	0.2	879.423
Na 330.237	4759.08	ppb	47.3072	1.0	281.302
Ni 231.604	102.713	ppb	1.0638	1.0	395.242
Pb 220.353	50.7560	ppb	0.5936	1.2	119.526
Sb 206.834	50.0566	ppb	0.9020	1.8	88.3942
Se 196.026	104.770	ppb	3.6428	3.5	62.2228
Sn 189.925	203.936	ppb	2.0748	1.0	220.111
Sr 216.596	103.752	ppb	0.3942	0.4	1743.75
Ti 334.941	98.4120	ppb	0.6668	0.7	31375.5
Tl 190.794	40.7044	ppb	1.4824	3.6	48.6359
V 292.401	101.272	ppb	0.4698	0.5	3028.47
Zn 206.200	100.694	ppb	1.2523	1.2	181.133

640-44473-h-1-a (Samp) **7/31/2013, 4:31:05 PM** **Rack 1, Tube 17**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.2246u	0.0116u	0.2765u
Al 308.215	9.7428	9.9129	6.4604
As 188.980	3.9307	5.4231	4.9613
B 249.678	1353.99	1330.18	1329.78
Ba 389.178	82.1467	79.7872	81.6076
Be 313.042	0.3135	0.3107	0.3156
Ca 370.602	47207	46272	46322
Cd 226.502	0.5678	0.6241	0.4509
Co 228.615	1.8365	2.1605	1.3409
Cr 267.716	0.5667	0.4544	0.6739
Cu 324.754	0.4585	0.6048	0.4806
Fe 271.441	5361.28	5229.25	5249.24
K 766.491	137839x	135142x	135242x
Mg 279.078	114982	112606	112532
Mn 257.610	26.4844	25.8479	25.7826
Mo 202.032	2.2586	2.1549	2.4477
Na 330.237	4667670x	4617470x	4579261x
Ni 231.604	10.9737	10.0565	9.3977
Pb 220.353	0.9100	2.7366	3.6652
Sb 206.834	3.9336	1.8901	1.5438
Se 196.026	12.9653	7.7808	16.0918
Sn 189.925	-2.4533u	-5.4456u	-1.2042
Sr 216.596	780.613	765.291	765.373
Ti 334.941	11.3231	11.0482	11.1171
Tl 190.794	-5.8429u	-5.4222u	-4.9084u
V 292.401	10.3795	10.1434	10.3760
Zn 206.200	3.6496	5.3840	3.5058

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1709b	ppb	0.1404	82.1	-32.5656
Al 308.215	8.7054b	ppb	1.9461	22.4	58.4718
As 188.980	4.7717b	ppb	0.7641	16.0	-4.7549
B 249.678	1337.98b	ppb	13.8655	1.0	23099.7
Ba 389.178	81.1805b	ppb	1.2364	1.5	2459.88
Be 313.042	0.3133b	ppb	0.0024	0.8	-208.756
Ca 370.602	46600b	ppb	526.1	1.1	147433
Cd 226.502	0.5476b	ppb	0.0883	16.1	23.8424
Co 228.615	1.7793b	ppb	0.4128	23.2	11.8029
Cr 267.716	0.5650b	ppb	0.1098	19.4	167.802
Cu 324.754	0.5146b	ppb	0.0789	15.3	286.474
Fe 271.441	5279.92b	ppb	71.1586	1.3	10129.0
K 766.491	136074xb	ppb	1529.04	1.1	4576154
Mg 279.078	113373b	ppb	1393.37	1.2	323773
Mn 257.610	26.0383b	ppb	0.3877	1.5	8191.76
Mo 202.032	2.2871b	ppb	0.1484	6.5	25.1429
Na 330.237	4621467xb	ppb	44339.8	1.0	232641
Ni 231.604	10.1426b	ppb	0.7915	7.8	34.6164
Pb 220.353	2.4373b	ppb	1.4017	57.5	20.4103
Sb 206.834	2.4558b	ppb	1.2914	52.6	9.7201
Se 196.026	12.2793b	ppb	4.1978	34.2	7.5888
Sn 189.925	-3.0343b	ppb	2.1796	71.8	-8.7381
Sr 216.596	770.425b	ppb	8.8224	1.1	12886.5
Ti 334.941	11.1628b	ppb	0.1430	1.3	3691.36
Tl 190.794	-5.3912b	ppb	0.4680	8.7	-18.6113
V 292.401	10.2997b	ppb	0.1353	1.3	269.286
Zn 206.200	4.1798b	ppb	1.0453	25.0	13.3813

640-44473-h-2-a (Samp) **7/31/2013, 4:35:39 PM** **Rack 1, Tube 18**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	-0.2659u	0.1020u	-0.0086u
Al 308.215	545.958	542.861	540.609
As 188.980	20.9269	19.9765	17.3824
B 249.678	323.778	324.037	326.534
Ba 389.178	631.779	632.245	634.809
Be 313.042	0.0965	0.1014	0.1017
Ca 370.602	118243	118520	118573
Cd 226.502	-0.1933	-0.3602	-0.4414
Co 228.615	0.9304	0.7808	1.7399
Cr 267.716	1.6082	1.5351	1.4884
Cu 324.754	0.4768	0.4865	0.5096
Fe 271.441	12449.0	12471.1	12546.4
K 766.491	16547.7	16586.0	16682.7
Mg 279.078	54848.4	54845.5	55240.7
Mn 257.610	744.661	744.764	749.178
Mo 202.032	0.8011	1.4588	0.8078
Na 330.237	361258x	363215x	362867x
Ni 231.604	7.7124	7.8973	7.8319
Pb 220.353	3.7333	4.7677	0.5355
Sb 206.834	0.8204	-0.5671u	2.7625
Se 196.026	1.4003	2.2941	3.3891
Sn 189.925	-0.8056u	-0.4570u	3.4679
Sr 216.596	823.402	821.498	828.103
Ti 334.941	6.8025	6.9478	6.9290
Tl 190.794	1.2267	-1.8637u	-1.0375u
V 292.401	2.8517	3.0682	3.2129
Zn 206.200	9.9332	10.3684	9.9119

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0575b	ppb	0.1888	328.1	-50.8143
Al 308.215	543.143b	ppb	2.6855	0.5	1635.48
As 188.980	19.4286b	ppb	1.8346	9.4	8.3845
B 249.678	324.783b	ppb	1.5223	0.5	5664.77
Ba 389.178	632.944b	ppb	1.6316	0.3	16790.5
Be 313.042	0.0999b	ppb	0.0029	2.9	-84.2219
Ca 370.602	118445b	ppb	176.9	0.1	374813
Cd 226.502	-0.3316b	ppb	0.1265	38.1	38.9019
Co 228.615	1.1504b	ppb	0.5160	44.9	2.9571
Cr 267.716	1.5439b	ppb	0.0604	3.9	138.060
Cu 324.754	0.4910b	ppb	0.0168	3.4	287.699
Fe 271.441	12488.8b	ppb	51.0261	0.4	23936.9
K 766.491	16605.5b	ppb	69.5663	0.4	558602
Mg 279.078	54978.2b	ppb	227.340	0.4	157011
Mn 257.610	746.201b	ppb	2.5787	0.3	202214
Mo 202.032	1.0226b	ppb	0.3778	36.9	13.9173
Na 330.237	362447xb	ppb	1043.89	0.3	18283.1
Ni 231.604	7.8139b	ppb	0.0938	1.2	25.7632
Pb 220.353	3.0122b	ppb	2.2063	73.2	22.4034
Sb 206.834	1.0053b	ppb	1.6725	166.4	7.6180
Se 196.026	2.3612b	ppb	0.9961	42.2	1.9862
Sn 189.925	0.7351b	ppb	2.3731	322.8	-6.4829
Sr 216.596	824.334b	ppb	3.3995	0.4	13808.5
Ti 334.941	6.8931b	ppb	0.0790	1.1	2398.07
Tl 190.794	-0.5582b	ppb	1.5999	286.6	-12.7188
V 292.401	3.0443b	ppb	0.1818	6.0	86.2405
Zn 206.200	10.0712b	ppb	0.2576	2.6	33.7372

640-44473-h-3-a (Samp) **7/31/2013, 4:40:26 PM** **Rack 1, Tube 19**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.5593u	0.3777u	0.4736u
Al 308.215	1534.80	1521.65	1535.86
As 188.980	2.1374	-3.3766u	2.8467
B 249.678	1987.13	1971.47	1986.43
Ba 389.178	653.030	649.283	653.014
Be 313.042	0.2079	0.2137	0.1989
Ca 370.602	208900	207177	208962
Cd 226.502	-0.0505	0.1169	-0.1213
Co 228.615	2.4107	2.0382	2.7223
Cr 267.716	13.7264	13.4999	13.6110
Cu 324.754	1.9612	2.0574	2.4238
Fe 271.441	12469.7	12369.7	12433.1
K 766.491	115649x	114874x	115854x
Mg 279.078	285685	283076	283968
Mn 257.610	293.103	290.484	292.153
Mo 202.032	1.6990	1.0609	0.6588
Na 330.237	2059684x	2041037x	2037327x
Ni 231.604	16.6538	16.4182	14.8124
Pb 220.353	2.0219	4.1848	5.0010
Sb 206.834	3.5763	1.0651	0.7074
Se 196.026	9.4854	12.6957	3.2278
Sn 189.925	0.3068	-0.2624	-0.2843
Sr 216.596	2038.71	2023.06	2032.27
Ti 334.941	40.1712	37.0469	37.5919
Tl 190.794	-5.0973u	-0.5271u	-2.7466u
V 292.401	6.1036	5.8679	6.0144
Zn 206.200	11.1671	13.0352	10.7490

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.4702b	ppb	0.0909	19.3	-74.6057
Al 308.215	1530.77b	ppb	7.9156	0.5	4548.63
As 188.980	0.5358b	ppb	3.4068	635.8	-8.6579
B 249.678	1981.67b	ppb	8.8439	0.4	34148.0
Ba 389.178	651.776b	ppb	2.1588	0.3	17968.5
Be 313.042	0.2068b	ppb	0.0075	3.6	-54.0212
Ca 370.602	208346b	ppb	1013	0.5	660040
Cd 226.502	-0.0183b	ppb	0.1223	669.0	46.4003
Co 228.615	2.3904b	ppb	0.3425	14.3	21.7477
Cr 267.716	13.6124b	ppb	0.1133	0.8	936.374
Cu 324.754	2.1475b	ppb	0.2441	11.4	392.857
Fe 271.441	12424.2b	ppb	50.5763	0.4	23813.3
K 766.491	115459xb	ppb	516.455	0.4	3882890
Mg 279.078	284243b	ppb	1326.03	0.5	811690
Mn 257.610	291.913b	ppb	1.3258	0.5	81687.6
Mo 202.032	1.1396b	ppb	0.5245	46.0	14.9153
Na 330.237	2046016xb	ppb	11981.2	0.6	103017
Ni 231.604	15.9614b	ppb	1.0021	6.3	57.5128
Pb 220.353	3.7359b	ppb	1.5394	41.2	23.7209
Sb 206.834	1.7829b	ppb	1.5634	87.7	9.0814
Se 196.026	8.4696b	ppb	4.8150	56.8	5.4532
Sn 189.925	-0.0800b	ppb	0.3351	419.0	-6.5531
Sr 216.596	2031.35b	ppb	7.8649	0.4	33975.6
Ti 334.941	38.2700b	ppb	1.6689	4.4	13450.6
Tl 190.794	-2.7903b	ppb	2.2855	81.9	-15.6629
V 292.401	5.9953b	ppb	0.1190	2.0	163.787
Zn 206.200	11.6504b	ppb	1.2173	10.4	36.4343

640-44473-h-4-a (Samp) **7/31/2013, 4:45:02 PM** **Rack 1, Tube 20**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	-0.2507u	0.0557u	0.1984u
Al 308.215	989.679	975.956	948.921
As 188.980	11.9944	8.9289	9.7472
B 249.678	194.351	191.274	187.806
Ba 389.178	489.068	487.091	478.288
Be 313.042	0.1848	0.1729	0.1700
Ca 370.602	99865	98560	96796
Cd 226.502	-0.0934	-0.0722	0.0191
Co 228.615	1.4028	1.9453	1.7067
Cr 267.716	3.5790	3.7216	3.3599
Cu 324.754	1.3140	1.1021	1.0917
Fe 271.441	7209.03	7152.02	7052.04
K 766.491	7116.13	7069.00	6941.97
Mg 279.078	28817.9	28631.8	28348.8
Mn 257.610	1115.85	1105.70	1090.28
Mo 202.032	2.8191	2.2158	2.8373
Na 330.237	151614x	150908x	148239x
Ni 231.604	10.3975	9.5682	10.2491
Pb 220.353	5.8500	5.3162	6.0454
Sb 206.834	-0.7611u	-2.5347u	-0.2988u
Se 196.026	5.9772	-0.6735u	-6.0720u
Sn 189.925	0.9549	0.5859	1.6239
Sr 216.596	463.454	460.207	454.896
Ti 334.941	12.2831	12.1108	12.0306
Tl 190.794	-1.1892u	0.7719u	-4.1046u
V 292.401	5.1406	5.2199	5.1975
Zn 206.200	19.9020	20.9923	18.3617

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0012b	ppb	0.2295	19724.5	-24.2074
Al 308.215	971.518b	ppb	20.7381	2.1	2898.99
As 188.980	10.2235b	ppb	1.5873	15.5	0.1551
B 249.678	191.144b	ppb	3.2746	1.7	3380.15
Ba 389.178	484.816b	ppb	5.7389	1.2	12812.3
Be 313.042	0.1759b	ppb	0.0078	4.4	89.0141
Ca 370.602	98407b	ppb	1540	1.6	311677
Cd 226.502	-0.0488b	ppb	0.0598	122.4	33.2635
Co 228.615	1.6850b	ppb	0.2719	16.1	10.4386
Cr 267.716	3.5535b	ppb	0.1822	5.1	260.431
Cu 324.754	1.1693b	ppb	0.1254	10.7	328.806
Fe 271.441	7137.70b	ppb	79.4655	1.1	13687.3
K 766.491	7042.37b	ppb	90.0819	1.3	237009
Mg 279.078	28599.5b	ppb	236.208	0.8	81676.6
Mn 257.610	1103.95b	ppb	12.8755	1.2	298581
Mo 202.032	2.6241b	ppb	0.3537	13.5	27.9245
Na 330.237	150254xb	ppb	1779.84	1.2	7604.83
Ni 231.604	10.0716b	ppb	0.4422	4.4	34.3976
Pb 220.353	5.7372b	ppb	0.3775	6.6	27.6218
Sb 206.834	-1.1982b	ppb	1.1803	98.5	3.7782
Se 196.026	-0.2561b	ppb	6.0354	2356.8	0.5275
Sn 189.925	1.0549b	ppb	0.5262	49.9	-6.2368
Sr 216.596	459.519b	ppb	4.3203	0.9	7706.59
Ti 334.941	12.1415b	ppb	0.1290	1.1	3954.35
Tl 190.794	-1.5073b	ppb	2.4538	162.8	-13.8459
V 292.401	5.1860b	ppb	0.0409	0.8	151.981
Zn 206.200	19.7520b	ppb	1.3217	6.7	40.5353

640-44473-h-4-a SD^5 (Samp) **7/31/2013, 4:49:37 PM** **Rack 1, Tube 21**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.2072u	-0.0104u	0.0347u
Al 308.215	212.045	221.686	213.489
As 188.980	0.4788	4.8037	2.5883
B 249.678	43.7137	45.1611	42.9717
Ba 389.178	108.535	110.424	106.700
Be 313.042	0.0547	0.0480	0.0484
Ca 370.602	21721	22244	21372
Cd 226.502	0.2180	0.1227	0.0191
Co 228.615	0.4681	0.6608	0.9356
Cr 267.716	0.7282	0.7198	0.7958
Cu 324.754	0.2918	-0.2141u	0.2900
Fe 271.441	1624.81	1667.82	1599.10
K 766.491	1354.83	1374.27	1327.36
Mg 279.078	6384.21	6527.39	6287.84
Mn 257.610	251.173	257.551	247.309
Mo 202.032	0.8288	0.6028	0.3234
Na 330.237	31165.9	31769.8	30292.3
Ni 231.604	2.5124	1.9213	1.9043
Pb 220.353	2.4980	2.1597	2.0629
Sb 206.834	-2.2007u	4.3594	-1.3878u
Se 196.026	5.6485	1.7171	0.8429
Sn 189.925	0.6306	-0.9872u	-1.3420u
Sr 216.596	105.258	107.319	103.641
Ti 334.941	2.7258	2.7702	2.6517
Tl 190.794	-0.1331u	1.7922	1.0156
V 292.401	0.9552	0.9260	1.2290
Zn 206.200	4.1281	4.1197	4.5842

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0609	ppb	0.1286	211.0	-14.8976
Al 308.215	215.740	ppb	5.1998	2.4	669.840
As 188.980	2.6236	ppb	2.1627	82.4	-6.6390
B 249.678	43.9489	ppb	1.1134	2.5	862.899
Ba 389.178	108.553	ppb	1.8618	1.7	2853.75
Be 313.042	0.0504	ppb	0.0038	7.5	-177.688
Ca 370.602	21779	ppb	439.1	2.0	68977
Cd 226.502	0.1199	ppb	0.0995	82.9	20.1408
Co 228.615	0.6882	ppb	0.2349	34.1	-4.2320
Cr 267.716	0.7479	ppb	0.0417	5.6	74.0168
Cu 324.754	0.1226	ppb	0.2915	237.8	260.248
Fe 271.441	1630.58	ppb	34.7208	2.1	3138.72
K 766.491	1352.15	ppb	23.5704	1.7	45655.9
Mg 279.078	6399.82	ppb	120.533	1.9	18302.4
Mn 257.610	252.011	ppb	5.1722	2.1	68222.9
Mo 202.032	0.5850	ppb	0.2532	43.3	10.8178
Na 330.237	31076.0	ppb	742.826	2.4	1608.52
Ni 231.604	2.1127	ppb	0.3463	16.4	3.2118
Pb 220.353	2.2402	ppb	0.2285	10.2	19.7517
Sb 206.834	0.2570	ppb	3.5760	1391.6	5.9725
Se 196.026	2.7362	ppb	2.5598	93.6	2.0170
Sn 189.925	-0.5662	ppb	1.0515	185.7	-8.1464
Sr 216.596	105.406	ppb	1.8436	1.7	1774.26
Ti 334.941	2.7159	ppb	0.0599	2.2	841.383
Tl 190.794	0.8916	ppb	0.9686	108.6	-9.2536
V 292.401	1.0368	ppb	0.1672	16.1	27.9078
Zn 206.200	4.2773	ppb	0.2658	6.2	13.5144

640-44473-h-4-a PDS (Samp) **7/31/2013, 4:54:13 PM** **Rack 1, Tube 22**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	35.8171	35.5673	35.2852
Al 308.215	2890.53	2871.07	2855.72
As 188.980	212.352	214.844	219.417
B 249.678	656.411	656.660	657.026
Ba 389.178	687.865	686.270	684.971
Be 313.042	49.9303	49.9699	49.9312
Ca 370.602	101169	100761	100439
Cd 226.502	48.9178	49.0857	49.2326
Co 228.615	198.930	198.279	198.349
Cr 267.716	202.982	202.279	202.171
Cu 324.754	209.054	208.800	208.657
Fe 271.441	9053.12	9044.79	9042.67
K 766.491	9508.47	9489.03	9482.77
Mg 279.078	30251.2	30273.4	30277.3
Mn 257.610	1308.29	1307.28	1306.18
Mo 202.032	202.397	202.841	203.572
Na 330.237	152196x	152511x	152964x
Ni 231.604	202.337	202.652	202.627
Pb 220.353	194.748	199.492	196.920
Sb 206.834	196.984	190.897	194.362
Se 196.026	191.409	206.563	198.123
Sn 189.925	201.232	202.829	199.284
Sr 216.596	658.916	658.487	656.788
Ti 334.941	207.118	207.162	207.159
Tl 190.794	187.202	185.307	190.692
V 292.401	203.810	204.302	203.741
Zn 206.200	211.375	210.618	214.790

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	35.5565b	ppb	0.2661	0.7	3036.41
Al 308.215	2872.44b	ppb	17.4438	0.6	8491.37
As 188.980	215.537b	ppb	3.5831	1.7	185.451
B 249.678	656.699b	ppb	0.3096	0.0	11378.7
Ba 389.178	686.369b	ppb	1.4491	0.2	18116.4
Be 313.042	49.9438b	ppb	0.0226	0.0	100656
Ca 370.602	100790b	ppb	365.8	0.4	319196
Cd 226.502	49.0787b	ppb	0.1575	0.3	2687.40
Co 228.615	198.520b	ppb	0.3575	0.2	2817.67
Cr 267.716	202.477b	ppb	0.4404	0.2	12821.0
Cu 324.754	208.837b	ppb	0.2012	0.1	13523.8
Fe 271.441	9046.86b	ppb	5.5244	0.1	17374.9
K 766.491	9493.42b	ppb	13.3991	0.1	319434
Mg 279.078	30267.3b	ppb	14.0409	0.0	86434.4
Mn 257.610	1307.25b	ppb	1.0553	0.1	353520
Mo 202.032	202.937b	ppb	0.5933	0.3	1740.66
Na 330.237	152557xb	ppb	386.210	0.3	7716.74
Ni 231.604	202.539b	ppb	0.1748	0.1	783.978
Pb 220.353	197.054b	ppb	2.3748	1.2	420.687
Sb 206.834	194.081b	ppb	3.0531	1.6	325.579
Se 196.026	198.698b	ppb	7.5932	3.8	117.808
Sn 189.925	201.115b	ppb	1.7758	0.9	217.086
Sr 216.596	658.064b	ppb	1.1252	0.2	11015.4
Ti 334.941	207.146b	ppb	0.0246	0.0	66193.0
Tl 190.794	187.733b	ppb	2.7315	1.5	263.128
V 292.401	203.951b	ppb	0.3056	0.1	6102.34
Zn 206.200	212.261b	ppb	2.2224	1.0	375.186

640-44473-h-4-b ms (Samp) **7/31/2013, 4:58:49 PM** **Rack 1, Tube 23**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	58.0426	54.1408	53.3595
Al 308.215	5143.47	4823.73	4730.27
As 188.980	125.035	115.902	116.146
B 249.678	377.217	353.315	348.621
Ba 389.178	530.028	494.841	489.081
Be 313.042	51.1960	48.2454	47.3050
Ca 370.602	94318	89282	87193
Cd 226.502	50.6359	47.3473	46.5325
Co 228.615	51.4843	47.7277	47.8677
Cr 267.716	106.576	99.6208	98.4384
Cu 324.754	106.785	100.335	98.9438
Fe 271.441	9482.95	8914.72	8761.64
K 766.491	12575.3	11832.0	11637.6
Mg 279.078	30540.7	28479.6	28479.8
Mn 257.610	1462.24	1373.48	1350.73
Mo 202.032	106.137	99.6731	98.0436
Na 330.237	147503x	138119x	136324x
Ni 231.604	104.627	97.8312	97.3536
Pb 220.353	48.7923	48.4151	49.0607
Sb 206.834	49.8531	46.5534	48.4059
Se 196.026	102.788	99.0853	94.9617
Sn 189.925	206.183	187.395	188.418
Sr 216.596	536.652	503.194	496.237
Ti 334.941	105.302	99.0544	97.7860
Tl 190.794	38.7347	39.1893	35.3963
V 292.401	103.132	97.5213	95.8611
Zn 206.200	106.678	101.019	97.7244

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	55.1810b	ppb	2.5088	4.5	4737.46
Al 308.215	4899.16b	ppb	216.682	4.4	14479.0
As 188.980	119.028b	ppb	5.2036	4.4	98.3846
B 249.678	359.717b	ppb	15.3356	4.3	6273.47
Ba 389.178	504.650b	ppb	22.1658	4.4	13338.9
Be 313.042	48.9155b	ppb	2.0302	4.2	98596.4
Ca 370.602	90264b	ppb	3663	4.1	285749
Cd 226.502	48.1719b	ppb	2.1725	4.5	2638.60
Co 228.615	49.0266b	ppb	2.1296	4.3	685.177
Cr 267.716	101.545b	ppb	4.3967	4.3	6448.76
Cu 324.754	102.021b	ppb	4.1836	4.1	6737.30
Fe 271.441	9053.11b	ppb	380.043	4.2	17364.1
K 766.491	12015.0b	ppb	494.923	4.1	404230
Mg 279.078	29166.7b	ppb	1189.94	4.1	83288.8
Mn 257.610	1395.48b	ppb	58.9244	4.2	377343
Mo 202.032	101.285b	ppb	4.2807	4.2	871.457
Na 330.237	140649xb	ppb	6003.10	4.3	7119.36
Ni 231.604	99.9372b	ppb	4.0683	4.1	384.558
Pb 220.353	48.7560b	ppb	0.3243	0.7	115.998
Sb 206.834	48.2708b	ppb	1.6540	3.4	85.5582
Se 196.026	98.9450b	ppb	3.9150	4.0	59.0646
Sn 189.925	193.999b	ppb	10.5642	5.4	209.131
Sr 216.596	512.027b	ppb	21.6070	4.2	8580.19
Ti 334.941	100.714b	ppb	4.0236	4.0	32224.0
Tl 190.794	37.7735b	ppb	2.0712	5.5	43.3643
V 292.401	98.8380b	ppb	3.8099	3.9	2954.57
Zn 206.200	101.807b	ppb	4.5284	4.4	183.134

640-44473-h-4-c msd (Samp) **7/31/2013, 5:03:25 PM** **Rack 1, Tube 24**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	59.9390	59.2860	58.6438
Al 308.215	5156.87	5055.03	5034.20
As 188.980	125.173	123.697	127.533
B 249.678	387.298	383.922	384.482
Ba 389.178	548.325	540.385	540.498
Be 313.042	53.0970	52.4367	52.4817
Ca 370.602	98735	96607	96903
Cd 226.502	51.5906	51.3398	51.5948
Co 228.615	53.3829	52.7398	52.5149
Cr 267.716	109.527	107.699	108.286
Cu 324.754	110.257	109.210	108.767
Fe 271.441	9472.60	9325.65	9348.22
K 766.491	13215.1	13107.8	13017.1
Mg 279.078	31920.1	31503.6	31648.6
Mn 257.610	1513.34	1489.55	1494.20
Mo 202.032	109.118	108.166	109.270
Na 330.237	156170x	154624x	154402x
Ni 231.604	107.042	105.879	105.088
Pb 220.353	53.0542	52.0022	52.7150
Sb 206.834	50.4191	50.9894	50.8988
Se 196.026	111.366	106.590	103.268
Sn 189.925	212.083	201.940	206.697
Sr 216.596	562.618	553.185	557.287
Ti 334.941	106.494	105.148	104.870
Tl 190.794	42.1662	41.4892	42.9136
V 292.401	106.416	105.216	104.813
Zn 206.200	108.236	103.852	104.732

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	59.2896b	ppb	0.6476	1.1	5090.05
Al 308.215	5082.03b	ppb	65.6410	1.3	15018.1
As 188.980	125.468b	ppb	1.9350	1.5	104.195
B 249.678	385.234b	ppb	1.8091	0.5	6711.30
Ba 389.178	543.069b	ppb	4.5517	0.8	14356.0
Be 313.042	52.6718b	ppb	0.3689	0.7	106189
Ca 370.602	97415b	ppb	1153	1.2	308412
Cd 226.502	51.5084b	ppb	0.1461	0.3	2819.67
Co 228.615	52.8792b	ppb	0.4505	0.9	740.045
Cr 267.716	108.504b	ppb	0.9332	0.9	6889.11
Cu 324.754	109.411b	ppb	0.7653	0.7	7206.97
Fe 271.441	9382.16b	ppb	79.1314	0.8	17995.0
K 766.491	13113.3b	ppb	99.1317	0.8	441166
Mg 279.078	31690.8b	ppb	211.393	0.7	90494.1
Mn 257.610	1499.03b	ppb	12.6068	0.8	405338
Mo 202.032	108.851b	ppb	0.5986	0.5	936.140
Na 330.237	155065xb	ppb	962.822	0.6	7844.78
Ni 231.604	106.003b	ppb	0.9828	0.9	408.197
Pb 220.353	52.5905b	ppb	0.5369	1.0	123.918
Sb 206.834	50.7691b	ppb	0.3064	0.6	89.6941
Se 196.026	107.075b	ppb	4.0707	3.8	63.8866
Sn 189.925	206.907b	ppb	5.0749	2.5	223.551
Sr 216.596	557.697b	ppb	4.7299	0.8	9344.09
Ti 334.941	105.504b	ppb	0.8683	0.8	33764.0
Tl 190.794	42.1897b	ppb	0.7125	1.7	49.7280
V 292.401	105.482b	ppb	0.8341	0.8	3153.12
Zn 206.200	105.607b	ppb	2.3189	2.2	189.728

640-44473-h-5-a (Samp) **7/31/2013, 5:31:57 PM** **Rack 1, Tube 27**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.5840u	0.6909u	0.6852u
Al 308.215	602.342	589.074	601.708
As 188.980	2.4102	1.4028	-5.8828u
B 249.678	1970.67	1917.14	1966.18
Ba 389.178	642.516	624.118	638.959
Be 313.042	0.1785	0.1801	0.1869
Ca 370.602	208015	203391	207619
Cd 226.502	-0.0384	-0.0776	-0.1053
Co 228.615	1.8320	2.0068	1.6949
Cr 267.716	3.2930	3.2131	2.9337
Cu 324.754	1.5127	1.4639	1.0839
Fe 271.441	11545.7	11234.6	11477.0
K 766.491	116701x	113394x	115810x
Mg 279.078	285080	276839	282467
Mn 257.610	284.723	276.611	282.790
Mo 202.032	-0.4483u	0.1358	-0.7959u
Na 330.237	2054282x	1997990x	2011357x
Ni 231.604	9.0641	9.8416	10.5833
Pb 220.353	2.2902	-0.0494	1.2855
Sb 206.834	-1.2490u	-2.5663u	2.6917
Se 196.026	9.6093	9.3897	0.1134
Sn 189.925	-2.8460u	-2.0502u	-5.2014u
Sr 216.596	2020.39	1963.62	2006.07
Ti 334.941	5.1421	5.4167	5.2727
Tl 190.794	-4.9270u	-0.2557u	-1.2188u
V 292.401	3.6693	3.3307	3.6192
Zn 206.200	11.7361	9.2939	8.8952

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.6534b	ppb	0.0601	9.2	-56.7701
Al 308.215	597.708b	ppb	7.4840	1.3	1796.38
As 188.980	-0.6899b	ppb	4.5253	655.9	-9.7642
B 249.678	1951.33b	ppb	29.6980	1.5	33628.7
Ba 389.178	635.198b	ppb	9.7586	1.5	17519.8
Be 313.042	0.1818b	ppb	0.0044	2.4	-101.971
Ca 370.602	206341b	ppb	2563	1.2	653738
Cd 226.502	-0.0737b	ppb	0.0336	45.6	39.5377
Co 228.615	1.8446b	ppb	0.1563	8.5	13.0072
Cr 267.716	3.1466b	ppb	0.1887	6.0	274.425
Cu 324.754	1.3535b	ppb	0.2348	17.3	342.047
Fe 271.441	11419.1b	ppb	163.393	1.4	21888.0
K 766.491	115302xb	ppb	1710.77	1.5	3877599
Mg 279.078	281462b	ppb	4211.39	1.5	803750
Mn 257.610	281.374b	ppb	4.2371	1.5	78800.0
Mo 202.032	-0.3695b	ppb	0.4708	127.4	2.0713
Na 330.237	2021209xb	ppb	29411.0	1.5	101768
Ni 231.604	9.8297b	ppb	0.7597	7.7	33.5860
Pb 220.353	1.1754b	ppb	1.1737	99.9	18.4146
Sb 206.834	-0.3745b	ppb	2.7359	730.4	5.3600
Se 196.026	6.3708b	ppb	5.4201	85.1	4.2098
Sn 189.925	-3.3659b	ppb	1.6387	48.7	-10.2360
Sr 216.596	1996.69b	ppb	29.5261	1.5	33395.3
Ti 334.941	5.2772b	ppb	0.1374	2.6	2903.77
Tl 190.794	-2.1339b	ppb	2.4664	115.6	-14.6095
V 292.401	3.5397b	ppb	0.1828	5.2	90.2062
Zn 206.200	9.9751b	ppb	1.5281	15.4	23.5480

640-44473-h-6-a (Samp) **7/31/2013, 5:36:31 PM** **Rack 1, Tube 28**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.1025u	-0.3484u	-0.3648u
Al 308.215	-0.4665u	0.6954	0.9487
As 188.980	-0.3329u	0.9714	0.2507
B 249.678	5.6587	6.0040	4.8692
Ba 389.178	0.5953	0.2047	0.9631
Be 313.042	0.0103	0.0109	0.0117
Ca 370.602	8.504	7.366	8.945
Cd 226.502	0.0383	0.0671	0.1564
Co 228.615	0.4900	0.3429	0.2155
Cr 267.716	0.0789	0.1987	0.0050
Cu 324.754	0.4039	0.3882	-0.2459u
Fe 271.441	3.5170	5.7748	6.6867
K 766.491	4.2911	4.3395	4.3250
Mg 279.078	3.7995	1.4326	4.1988
Mn 257.610	0.1386	0.1191	0.1168
Mo 202.032	-0.0600u	-0.1486u	0.2004
Na 330.237	-61.8855u	-44.2722u	118.396
Ni 231.604	-0.3299u	0.2092	0.8814
Pb 220.353	0.1320	3.0999	-2.1735u
Sb 206.834	0.6352	-3.3272u	0.7148
Se 196.026	-1.6439u	-3.4445u	4.7195
Sn 189.925	0.5246	-2.0371u	-0.2054u
Sr 216.596	-0.1607u	0.1282	0.2977
Ti 334.941	0.3132	0.2825	0.3298
Tl 190.794	0.7362	0.3512	-0.1855u
V 292.401	-0.2985u	-0.0064u	0.2455
Zn 206.200	-0.7031u	-0.6737u	-0.0664u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.2719	ppb	0.1469	54.0	-28.7657
Al 308.215	0.3925	ppb	0.7546	192.2	34.6692
As 188.980	0.2964	ppb	0.6533	220.4	-8.7200
B 249.678	5.5106	ppb	0.5817	10.6	206.000
Ba 389.178	0.5877	ppb	0.3793	64.5	-3.9353
Be 313.042	0.0110	ppb	0.0007	6.5	-261.223
Ca 370.602	8.272	ppb	0.8146	9.8	28.13
Cd 226.502	0.0873	ppb	0.0616	70.6	11.7882
Co 228.615	0.3494	ppb	0.1374	39.3	-9.1866
Cr 267.716	0.0942	ppb	0.0978	103.8	30.0934
Cu 324.754	0.1821	ppb	0.3707	203.6	263.409
Fe 271.441	5.3262	ppb	1.6318	30.6	25.6292
K 766.491	4.3185	ppb	0.0248	0.6	330.255
Mg 279.078	3.1436	ppb	1.4952	47.6	41.7255
Mn 257.610	0.1248	ppb	0.0120	9.6	116.064
Mo 202.032	-0.0027	ppb	0.1814	6616.8	5.8888
Na 330.237	4.0793	ppb	99.3918	2436.5	45.2358
Ni 231.604	0.2536	ppb	0.6069	239.3	-4.0829
Pb 220.353	0.3528	ppb	2.6436	749.3	15.6694
Sb 206.834	-0.6591	ppb	2.3110	350.6	4.4003
Se 196.026	-0.1229	ppb	4.2893	3488.7	0.2518
Sn 189.925	-0.5726	ppb	1.3198	230.5	-8.1806
Sr 216.596	0.0884	ppb	0.2318	262.2	10.1199
Ti 334.941	0.3085	ppb	0.0240	7.8	42.5347
Tl 190.794	0.3006	ppb	0.4629	154.0	-9.7955
V 292.401	-0.0198	ppb	0.2723	1374.3	-3.6768
Zn 206.200	-0.4811	ppb	0.3594	5387	5.2056

640-44473-h-7-a (Samp) **7/31/2013, 5:41:17 PM** **Rack 1, Tube 29**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	0.5902u	0.4861u	0.2469u
Al 308.215	27.8803	27.2669	25.6283
As 188.980	-2.0942u	1.4511	1.5600
B 249.678	1983.87	1981.91	1965.74
Ba 389.178	434.497	434.246	430.409
Be 313.042	0.1179	0.1162	0.1115
Ca 370.602	113878	113513	112602
Cd 226.502	-0.1334	0.0041	0.1396
Co 228.615	1.0027	1.2336	1.2414
Cr 267.716	-0.4489	-0.5598	-0.5986
Cu 324.754	-0.0790u	-0.5351u	-0.6246u
Fe 271.441	7042.64	7037.00	6968.82
K 766.491	96247.2x	96128.4x	95560.0x
Mg 279.078	189336	189382	187521
Mn 257.610	258.313	257.611	255.941
Mo 202.032	-0.4631u	-0.3059u	-0.2578u
Na 330.237	1722175x	1718189x	1703083x
Ni 231.604	6.6483	6.8014	6.0415
Pb 220.353	-2.1584u	0.2209	2.5310
Sb 206.834	-1.6305u	1.7943	3.0016
Se 196.026	0.3659	8.5644	2.2331
Sn 189.925	-1.4057u	-2.5889u	-0.7785
Sr 216.596	1213.38	1212.43	1199.01
Ti 334.941	-1.9758	-2.0001	-1.9984
Tl 190.794	-1.5537u	-2.3835u	-0.3328u
V 292.401	1.4928	1.2696	1.3638
Zn 206.200	1.2584	0.0786	0.3547

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.4411b	ppb	0.1760	39.9	-31.6712
Al 308.215	26.9252b	ppb	1.1642	4.3	112.825
As 188.980	0.3057b	ppb	2.0790	680.2	-8.8109
B 249.678	1977.17b	ppb	9.9515	0.5	34083.4
Ba 389.178	433.051b	ppb	2.2911	0.5	11927.5
Be 313.042	0.1152b	ppb	0.0033	2.9	-231.103
Ca 370.602	113331b	ppb	657.3	0.6	359002
Cd 226.502	0.0034b	ppb	0.1365	3987.4	26.1281
Co 228.615	1.1592b	ppb	0.1356	11.7	2.7654
Cr 267.716	-0.5358b	ppb	0.0777	14.5	33.5305
Cu 324.754	-0.4129b	ppb	0.2926	70.9	228.230
Fe 271.441	7016.15b	ppb	41.0898	0.6	13454.4
K 766.491	95978.5xb	ppb	367.302	0.4	3227794
Mg 279.078	188746b	ppb	1061.44	0.6	538998
Mn 257.610	257.288b	ppb	1.2186	0.5	71395.9
Mo 202.032	-0.3423b	ppb	0.1074	31.4	2.5686
Na 330.237	1714482xb	ppb	10071.1	0.6	86332.4
Ni 231.604	6.4971b	ppb	0.4019	6.2	20.4639
Pb 220.353	0.1978b	ppb	2.3448	1185.2	16.0320
Sb 206.834	1.0551b	ppb	2.4029	227.7	7.4965
Se 196.026	3.7211b	ppb	4.2971	115.5	2.6228
Sn 189.925	-1.5910b	ppb	0.9194	57.8	-8.4482
Sr 216.596	1208.27b	ppb	8.0362	0.7	20210.1
Ti 334.941	-1.9915b	ppb	0.0136	0.7	131.994
Tl 190.794	-1.4233b	ppb	1.0316	72.5	-13.1454
V 292.401	1.3754b	ppb	0.1120	8.1	26.2912
Zn 206.200	0.5639b	ppb	0.6171	109.4	7.1108

640-44473-h-9-a (Samp) **7/31/2013, 5:45:53 PM** **Rack 1, Tube 30**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.2080u	0.1815u	-0.0221u
Al 308.215	835.174	764.812	787.364
As 188.980	-2.5862u	0.6847	-1.2308u
B 249.678	2234.20	2068.09	2123.03
Ba 389.178	415.911	382.980	392.840
Be 313.042	0.2626	0.2516	0.2410
Ca 370.602	141784	131089	134434
Cd 226.502	-0.1855	0.1820	-0.0410
Co 228.615	2.7895	3.5336	2.8264
Cr 267.716	1.2903	1.0421	1.3463
Cu 324.754	1.6883	1.4681	1.5853
Fe 271.441	12035.2	11166.1	11430.4
K 766.491	106138x	97122.6x	99700.1x
Mg 279.078	213569	197782	202285
Mn 257.610	499.037	461.806	473.083
Mo 202.032	-0.3501u	-0.0870u	-0.7040u
Na 330.237	2067927x	1926179x	1969737x
Ni 231.604	9.4094	8.5741	11.3093
Pb 220.353	4.8218	4.8432	2.5361
Sb 206.834	4.0762	-2.2896u	1.0504
Se 196.026	12.3261	6.6356	4.1049
Sn 189.925	-3.0447u	1.8057	0.8816
Sr 216.596	1377.41	1278.20	1308.03
Ti 334.941	3.5470	3.1016	3.1654
Tl 190.794	-1.3346u	-2.7961u	-0.8153u
V 292.401	4.7438	4.5684	4.5846
Zn 206.200	19.8378	19.1502	18.4522

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1225b	ppb	0.1259	102.8	-64.3848
Al 308.215	795.783b	ppb	35.9284	4.5	2380.57
As 188.980	-1.0441b	ppb	1.6434	157.4	-10.0830
B 249.678	2141.78b	ppb	84.6244	4.0	36902.2
Ba 389.178	397.244b	ppb	16.9013	4.3	11040.9
Be 313.042	0.2517b	ppb	0.0108	4.3	18.8878
Ca 370.602	135769b	ppb	5471	4.0	429837
Cd 226.502	-0.0149b	ppb	0.1851	1246.1	42.0207
Co 228.615	3.0498b	ppb	0.4194	13.8	30.0934
Cr 267.716	1.2263b	ppb	0.1619	13.2	153.756
Cu 324.754	1.5806b	ppb	0.1102	7.0	356.501
Fe 271.441	11543.9b	ppb	445.494	3.9	22127.2
K 766.491	100987xb	ppb	4643.63	4.6	3396223
Mg 279.078	204545b	ppb	8132.79	4.0	584109
Mn 257.610	477.975b	ppb	19.0914	4.0	131171
Mo 202.032	-0.3803b	ppb	0.3096	81.4	1.9683
Na 330.237	1987948xb	ppb	72607.2	3.7	100094
Ni 231.604	9.7642b	ppb	1.4017	14.4	33.3313
Pb 220.353	4.0670b	ppb	1.3259	32.6	24.4217
Sb 206.834	0.9457b	ppb	3.1842	336.7	7.5172
Se 196.026	7.6889b	ppb	4.2106	54.8	5.0441
Sn 189.925	-0.1191b	ppb	2.5754	2162.1	-6.6637
Sr 216.596	1321.21b	ppb	50.9007	3.9	22105.6
Ti 334.941	3.2714b	ppb	0.2408	7.4	1869.07
Tl 190.794	-1.6487b	ppb	1.0271	62.3	-14.0392
V 292.401	4.6323b	ppb	0.0969	2.1	122.407
Zn 206.200	19.1467b	ppb	0.6928	3.6	39.5414

mb 680-286845/1-a (Samp) **7/31/2013, 5:50:27 PM** **Rack 1, Tube 31**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.0987u	-0.0611u	0.2379
Al 308.215	-4.3137u	0.6333	-0.4989u
As 188.980	3.4787	1.6803	-0.8590u
B 249.678	10.9639	10.0823	9.3396
Ba 389.178	0.2821	0.2389	0.0539
Be 313.042	0.0028	0.0131	0.0118
Ca 370.602	5.698	2.410	6.564
Cd 226.502	0.1277	0.0444	0.0408
Co 228.615	0.2378	0.4485	0.6260
Cr 267.716	-0.0531u	-0.0137u	-0.0086u
Cu 324.754	0.0692	0.0336	-0.0144u
Fe 271.441	-0.5732u	-3.1308u	-5.0913u
K 766.491	5.7421	5.7904	5.3066
Mg 279.078	10.3589	9.0946	5.3237
Mn 257.610	-0.0267u	-0.0407u	-0.0497u
Mo 202.032	0.4912	0.3634	-0.1120u
Na 330.237	95.2089	38.7571	13.0915
Ni 231.604	0.5314	0.3326	0.6387
Pb 220.353	-0.1155u	-2.1838u	0.3332
Sb 206.834	-1.4091u	0.6246	0.2346
Se 196.026	1.6557	2.1454	5.1158
Sn 189.925	0.7365	-0.4067u	3.2029
Sr 216.596	-0.0312u	-0.3493u	0.1319
Ti 334.941	-0.0678u	-0.0756u	-0.0424u
Tl 190.794	1.1675	-0.1530u	1.6657
V 292.401	-0.2934u	-0.1476u	-0.1116u
Zn 206.200	1.0289	-0.9127u	-1.7504u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0260	ppb	0.1844	708.8	-3.0585
Al 308.215	-1.3931	ppb	2.5919	186.1	29.4153
As 188.980	1.4333	ppb	2.1793	152.0	-7.6935
B 249.678	10.1286	ppb	0.8132	8.0	285.404
Ba 389.178	0.1917	ppb	0.1212	63.2	-14.3315
Be 313.042	0.0092	ppb	0.0056	60.6	-264.750
Ca 370.602	4.891	ppb	2.191	44.8	17.81
Cd 226.502	0.0709	ppb	0.0492	69.3	10.8774
Co 228.615	0.4374	ppb	0.1943	44.4	-7.9488
Cr 267.716	-0.0251	ppb	0.0244	97.0	22.5578
Cu 324.754	0.0295	ppb	0.0420	142.4	253.722
Fe 271.441	-2.9317	ppb	2.2656	77.3	9.8239
K 766.491	5.6130	ppb	0.2664	4.7	373.787
Mg 279.078	8.2591	ppb	2.6195	31.7	56.3347
Mn 257.610	-0.0390	ppb	0.0116	29.7	71.8353
Mo 202.032	0.2476	ppb	0.3178	128.4	8.0304
Na 330.237	49.0192	ppb	42.0095	85.7	47.5014
Ni 231.604	0.5009	ppb	0.1553	31.0	-3.1194
Pb 220.353	-0.6554	ppb	1.3425	204.8	13.5954
Sb 206.834	-0.1833	ppb	1.0793	588.9	5.1817
Se 196.026	2.9723	ppb	1.8724	63.0	2.0753
Sn 189.925	1.1776	ppb	1.8447	156.7	-6.2269
Sr 216.596	-0.0829	ppb	0.2447	295.3	7.2413
Ti 334.941	-0.0619	ppb	0.0173	28.0	-75.6468
Tl 190.794	0.8934	ppb	0.9398	105.2	-8.9286
V 292.401	-0.1842	ppb	0.0963	52.3	-8.6653
Zn 206.200	-0.5447	ppb	1.4257	261.7	5.0950

llcs 680-286845/2-a (Samp) **7/31/2013, 5:55:02 PM** **Rack 1, Tube 32**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	9.7299	10.0794	10.2218
Al 308.215	188.845	196.145	199.517
As 188.980	23.4893	19.4532	22.6882
B 249.678	100.149	105.051	103.695
Ba 389.178	10.6927	10.9511	10.5651
Be 313.042	3.9826	4.1489	4.1268
Ca 370.602	490.6	514.8	518.6
Cd 226.502	5.0664	5.4083	5.3332
Co 228.615	10.6001	10.9890	10.9245
Cr 267.716	10.5027	10.7103	10.8265
Cu 324.754	20.3947	21.5529	21.0636
Fe 271.441	48.2952	48.7628	45.4014
K 766.491	991.462	1034.72	1031.48
Mg 279.078	499.639	522.696	522.207
Mn 257.610	10.3561	10.8514	10.8203
Mo 202.032	9.7996	10.2413	10.3172
Na 330.237	982.065	902.920	870.672
Ni 231.604	40.5953	41.2330	41.8682
Pb 220.353	9.5904	9.5012	10.7974
Sb 206.834	21.6745	18.6195	18.2312
Se 196.026	18.8635	19.3874	13.8898
Sn 189.925	48.8657	50.0561	52.5378
Sr 216.596	10.2753	10.8594	10.4016
Ti 334.941	9.9619	10.3570	10.3356
Tl 190.794	26.7970	30.5910	32.2843
V 292.401	9.5717	10.3336	10.1679
Zn 206.200	19.2549	22.2341	20.4231

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	10.0104	ppb	0.2531	2.5	858.198
Al 308.215	194.835	ppb	5.4552	2.8	607.477
As 188.980	21.8769	ppb	2.1369	9.8	10.7628
B 249.678	102.965	ppb	2.5313	2.5	1881.19
Ba 389.178	10.7363	ppb	0.1966	1.8	264.319
Be 313.042	4.0861	ppb	0.0903	2.2	7974.84
Ca 370.602	508.0	ppb	15.18	3.0	1616
Cd 226.502	5.2693	ppb	0.1797	3.4	291.093
Co 228.615	10.8379	ppb	0.2084	1.9	140.367
Cr 267.716	10.6798	ppb	0.1640	1.5	698.468
Cu 324.754	21.0037	ppb	0.5814	2.8	1586.11
Fe 271.441	47.4865	ppb	1.8208	3.8	108.016
K 766.491	1019.22	ppb	24.0943	2.4	34459.9
Mg 279.078	514.847	ppb	13.1730	2.6	1502.61
Mn 257.610	10.6759	ppb	0.2774	2.6	2971.18
Mo 202.032	10.1193	ppb	0.2795	2.8	92.4391
Na 330.237	918.553	ppb	57.3183	6.2	90.9082
Ni 231.604	41.2322	ppb	0.6364	1.5	155.598
Pb 220.353	9.9630	ppb	0.7240	7.3	35.4068
Sb 206.834	19.5084	ppb	1.8859	9.7	37.7029
Se 196.026	17.3802	ppb	3.0341	17.5	10.5670
Sn 189.925	50.4865	ppb	1.8735	3.7	48.8158
Sr 216.596	10.5121	ppb	0.3073	2.9	183.003
Ti 334.941	10.2182	ppb	0.2222	2.2	3207.48
Tl 190.794	29.8908	ppb	2.8098	9.4	33.4629
V 292.401	10.0244	ppb	0.4007	4.0	296.987
Zn 206.200	20.6374	ppb	1.5011	7.3	41.9634

lcs 680-286845/3-a (Samp) **7/31/2013, 5:59:38 PM** **Rack 1, Tube 33**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	23.4796	23.4806	23.3974
Al 308.215	2020.71	2012.96	2018.88
As 188.980	43.5678	51.1785	47.9189
B 249.678	86.6499	87.1915	86.8715
Ba 389.178	44.4706	44.2348	44.1024
Be 313.042	21.7310	21.6989	21.6687
Ca 370.602	2134	2140	2125
Cd 226.502	21.9726	21.9651	22.0057
Co 228.615	22.6292	22.2359	22.6228
Cr 267.716	45.4554	45.3993	45.3820
Cu 324.754	44.3807	44.7414	44.4546
Fe 271.441	2129.14	2141.84	2133.68
K 766.491	2111.62	2112.58	2106.98
Mg 279.078	2158.12	2151.85	2149.32
Mn 257.610	226.270	225.684	225.345
Mo 202.032	43.5191	44.8586	43.7766
Na 330.237	1941.30	2003.49	1742.72
Ni 231.604	43.3929	43.7218	42.9579
Pb 220.353	21.8035	21.4529	21.2408
Sb 206.834	23.8988	22.8686	20.7779
Se 196.026	45.6734	42.5262	49.7599
Sn 189.925	89.4298	83.2220	87.0066
Sr 216.596	44.4956	44.3707	44.3768
Ti 334.941	42.8337	42.7046	42.5901
Tl 190.794	20.0503	16.8902	16.1867
V 292.401	43.6204	43.7693	43.9704
Zn 206.200	42.0201	42.7204	42.4845

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	23.4525	ppb	0.0478	0.2	2017.84
Al 308.215	2017.52	ppb	4.0516	0.2	5982.06
As 188.980	47.5551	ppb	3.8184	8.0	33.9307
B 249.678	86.9043	ppb	0.2723	0.3	1600.12
Ba 389.178	44.2692	ppb	0.1865	0.4	1153.64
Be 313.042	21.6995	ppb	0.0312	0.1	43574.8
Ca 370.602	2133	ppb	7.293	0.3	6630
Cd 226.502	21.9811	ppb	0.0216	0.1	1199.91
Co 228.615	22.4959	ppb	0.2252	1.0	306.620
Cr 267.716	45.4122	ppb	0.0384	0.1	2893.06
Cu 324.754	44.5256	ppb	0.1905	0.4	3081.61
Fe 271.441	2134.89	ppb	6.4388	0.3	4108.33
K 766.491	2110.39	ppb	2.9973	0.1	71154.2
Mg 279.078	2153.09	ppb	4.5311	0.2	6175.75
Mn 257.610	225.766	ppb	0.4682	0.2	61094.3
Mo 202.032	44.0514	ppb	0.7108	1.6	382.465
Na 330.237	1895.84	ppb	136.202	7.2	139.058
Ni 231.604	43.3575	ppb	0.3831	0.9	163.911
Pb 220.353	21.4991	ppb	0.2842	1.3	59.2460
Sb 206.834	22.5151	ppb	1.5902	7.1	42.7847
Se 196.026	45.9865	ppb	3.6270	7.9	27.4922
Sn 189.925	86.5528	ppb	3.1287	3.6	89.0768
Sr 216.596	44.4143	ppb	0.0704	0.2	751.448
Ti 334.941	42.7095	ppb	0.1219	0.3	13584.8
Tl 190.794	17.7091	ppb	2.0578	11.6	15.3794
V 292.401	43.7867	ppb	0.1757	0.4	1307.76
Zn 206.200	42.4083	ppb	0.3563	0.8	79.7799

680-92631-a-1-a (Samp) **7/31/2013, 6:04:14 PM** **Rack 1, Tube 34**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	-0.1003u	-0.6082u	0.2323
Al 308.215	2.9057	4.6646	2.8273
As 188.980	0.6713	1.4193	-0.4700u
B 249.678	19.8438	19.5372	19.2298
Ba 389.178	272.992	272.447	272.591
Be 313.042	0.0108	0.0068	0.0162
Ca 370.602	35383	35340	35526
Cd 226.502	-0.0499u	0.0048	0.0334
Co 228.615	0.9693	1.4179	0.7321
Cr 267.716	0.1158	-0.1119	0.1168
Cu 324.754	2.2523	2.3948	2.0485
Fe 271.441	12.8140	14.4966	16.2657
K 766.491	4125.08	4100.17	4127.49
Mg 279.078	12511.3	12459.3	12464.1
Mn 257.610	1186.04	1181.43	1186.09
Mo 202.032	0.5459	0.6503	0.4155
Na 330.237	32491.3	32688.7	32294.3
Ni 231.604	3.3640	3.5728	3.7878
Pb 220.353	4.6185	2.1023	3.5952
Sb 206.834	0.7827	-4.1512u	1.1787
Se 196.026	-4.0618u	-6.9787u	2.7830
Sn 189.925	3.5838	5.2041	4.8874
Sr 216.596	310.607	307.535	310.370
Ti 334.941	-0.1557	-0.1469	-0.1288
Tl 190.794	1.6170	0.0744u	2.1288
V 292.401	2.8020	2.5486	2.8855
Zn 206.200	33.3067	34.3840	34.8003

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1587	ppb	0.4233	266.7	-29.1111
Al 308.215	3.4659	ppb	1.0389	30.0	43.5064
As 188.980	0.5402	ppb	0.9514	176.1	-8.5003
B 249.678	19.5369	ppb	0.3070	1.6	447.111
Ba 389.178	272.677	ppb	0.2824	0.1	7180.26
Be 313.042	0.0113	ppb	0.0047	41.9	-252.471
Ca 370.602	35416	ppb	97.56	0.3	112395
Cd 226.502	-0.0039	ppb	0.0423	1087.9	6.8836
Co 228.615	1.0398	ppb	0.3483	33.5	0.6359
Cr 267.716	0.0402	ppb	0.1318	327.6	34.1459
Cu 324.754	2.2319	ppb	0.1740	7.8	393.588
Fe 271.441	14.5254	ppb	1.7260	11.9	43.3716
K 766.491	4117.58	ppb	15.1250	0.4	138653
Mg 279.078	12478.2	ppb	28.7347	0.2	35638.8
Mn 257.610	1184.52	ppb	2.6769	0.2	320168
Mo 202.032	0.5372	ppb	0.1176	21.9	10.5005
Na 330.237	32491.4	ppb	197.224	0.6	1679.82
Ni 231.604	3.5749	ppb	0.2119	5.9	8.8599
Pb 220.353	3.4387	ppb	1.2654	36.8	22.3324
Sb 206.834	-0.7299	ppb	2.9695	406.8	4.2750
Se 196.026	-2.7525	ppb	5.0108	182.0	-0.9476
Sn 189.925	4.5584	ppb	0.8588	18.8	-2.4173
Sr 216.596	309.504	ppb	1.7092	0.6	5181.96
Ti 334.941	-0.1438	ppb	0.0137	9.6	-40.4837
Tl 190.794	1.2734	ppb	1.0694	84.0	-9.1788
V 292.401	2.7454	ppb	0.1754	6.4	79.5198
Zn 206.200	34.1637	ppb	0.7708	2.3	65.5804

680-92631-a-2-a (Samp) **7/31/2013, 6:09:01 PM** **Rack 1, Tube 35**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.1083u	-0.0150u	-0.0915u
Al 308.215	-0.1389u	-0.2557u	0.5783
As 188.980	2.3381	4.1580	2.4894
B 249.678	20.0437	19.8088	20.3527
Ba 389.178	286.048	284.373	285.827
Be 313.042	0.0041	0.0106	0.0065
Ca 370.602	37522	37393	37281
Cd 226.502	-0.1644u	-0.1081u	-0.1889u
Co 228.615	1.1176	1.7772	1.4568
Cr 267.716	-0.0433	0.1420	0.1424
Cu 324.754	1.2735	1.4377	1.3125
Fe 271.441	12.5648	16.2554	12.8903
K 766.491	4409.18	4406.15	4409.17
Mg 279.078	13113.0	13049.0	13109.1
Mn 257.610	1251.68	1246.41	1248.72
Mo 202.032	0.4427	1.1070	0.5410
Na 330.237	34120.8	34313.7	34272.3
Ni 231.604	3.6869	3.8162	3.2093
Pb 220.353	1.2595	0.6196	2.0418
Sb 206.834	0.2764	1.9496	0.9303
Se 196.026	-0.4100	5.7599	-0.0318
Sn 189.925	2.5671	4.2677	3.9411
Sr 216.596	327.092	326.135	326.584
Ti 334.941	-0.2012	-0.1695	-0.1655
Tl 190.794	1.8613	-0.8639u	0.5262u
V 292.401	2.5634	2.5702	2.9190
Zn 206.200	41.6612	37.9841	39.9382

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0006	ppb	0.1008	17215.0	-15.9279
Al 308.215	0.0613	ppb	0.4516	737.2	33.4636
As 188.980	2.9952	ppb	1.0099	33.7	-6.2838
B 249.678	20.0684	ppb	0.2728	1.4	456.245
Ba 389.178	285.416	ppb	0.9097	0.3	7516.71
Be 313.042	0.0071	ppb	0.0033	46.9	-260.587
Ca 370.602	37399	ppb	120.2	0.3	118686
Cd 226.502	-0.1538	ppb	0.0414	26.9	-1.1883
Co 228.615	1.4505	ppb	0.3298	22.7	6.4912
Cr 267.716	0.0804	ppb	0.1071	133.2	37.0913
Cu 324.754	1.3412	ppb	0.0858	6.4	337.026
Fe 271.441	13.9035	ppb	2.0433	14.7	42.2386
K 766.491	4408.17	ppb	1.7476	0.0	148425
Mg 279.078	13090.4	ppb	35.9007	0.3	37385.4
Mn 257.610	1248.94	ppb	2.6377	0.2	337574
Mo 202.032	0.6969	ppb	0.3586	51.5	11.8663
Na 330.237	34235.6	ppb	101.558	0.3	1767.51
Ni 231.604	3.5708	ppb	0.3197	9.0	8.8429
Pb 220.353	1.3070	ppb	0.7123	54.5	17.9656
Sb 206.834	1.0521	ppb	0.8432	80.1	7.2141
Se 196.026	1.7727	ppb	3.4582	195.1	1.7373
Sn 189.925	3.5920	ppb	0.9024	25.1	-3.4942
Sr 216.596	326.604	ppb	0.4786	0.1	5467.78
Ti 334.941	-0.1787	ppb	0.0195	10.9	-48.6306
Tl 190.794	0.5079	ppb	1.3627	268.3	-10.3394
V 292.401	2.6842	ppb	0.2034	7.6	77.6370
Zn 206.200	39.8612	ppb	1.8398	4.6	75.5091

680-92611-a-1-a (Samp) **7/31/2013, 6:13:38 PM** **Rack 1, Tube 36**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.0532u	0.2030	-0.0742u
Al 308.215	128.160	135.029	133.157
As 188.980	-3.2601u	2.1190	-5.1453u
B 249.678	366.010	377.946	378.698
Ba 389.178	15.0540	15.7254	16.4775
Be 313.042	0.0251	0.0241	0.0203
Ca 370.602	23696	24421	24457
Cd 226.502	-0.1573u	-0.0553u	-0.0887u
Co 228.615	0.1334	0.8303	1.0858
Cr 267.716	0.2772	0.2975	0.3054
Cu 324.754	10.3092	10.7643	11.0195
Fe 271.441	294.425	305.211	313.190
K 766.491	31098.5	31966.0	31970.3
Mg 279.078	13924.5	14394.4	14366.0
Mn 257.610	23.5948	24.4899	24.4046
Mo 202.032	4.0520	3.1693	4.3916
Na 330.237	171906x	176846x	176226x
Ni 231.604	4.1545	4.1994	3.6949
Pb 220.353	0.1508	0.8451	3.5411
Sb 206.834	-1.8858u	0.4847	2.1917
Se 196.026	1.9299	4.1757	-3.5119u
Sn 189.925	0.0067	0.7196	1.3190
Sr 216.596	139.652	144.019	144.207
Ti 334.941	6.1395	6.3843	6.3659
Tl 190.794	0.1506	-2.5672u	0.0561
V 292.401	2.6555	2.5087	2.6222
Zn 206.200	12.0029	13.0739	12.9661

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0607b	ppb	0.1388	228.8	-7.6199
Al 308.215	132.115b	ppb	3.5507	2.7	423.117
As 188.980	-2.0955b	ppb	3.7696	179.9	-10.8834
B 249.678	374.218b	ppb	7.1184	1.9	6543.66
Ba 389.178	15.7523b	ppb	0.7121	4.5	437.125
Be 313.042	0.0232b	ppb	0.0025	10.9	-251.754
Ca 370.602	24191b	ppb	429.1	1.8	76731
Cd 226.502	-0.1004b	ppb	0.0520	51.8	1.7792
Co 228.615	0.6832b	ppb	0.4930	72.2	-4.3466
Cr 267.716	0.2934b	ppb	0.0146	5.0	46.9126
Cu 324.754	10.6977b	ppb	0.3598	3.4	931.508
Fe 271.441	304.275b	ppb	9.4172	3.1	598.316
K 766.491	31678.3b	ppb	502.125	1.6	1065476
Mg 279.078	14228.3b	ppb	263.492	1.9	40661.5
Mn 257.610	24.1631b	ppb	0.4940	2.0	6745.25
Mo 202.032	3.8710b	ppb	0.6310	16.3	38.9978
Na 330.237	174993xb	ppb	2691.51	1.5	8852.08
Ni 231.604	4.0163b	ppb	0.2792	7.0	10.5903
Pb 220.353	1.5123b	ppb	1.7909	118.4	18.0727
Sb 206.834	0.2635b	ppb	2.0477	777.0	5.8580
Se 196.026	0.8645b	ppb	3.9530	457.2	0.8421
Sn 189.925	0.6818b	ppb	0.6570	96.4	-6.6845
Sr 216.596	142.626b	ppb	2.5772	1.8	2394.15
Ti 334.941	6.2966b	ppb	0.1363	2.2	2011.51
Tl 190.794	-0.7868b	ppb	1.5426	196.1	-11.4276
V 292.401	2.5955b	ppb	0.0770	3.0	73.2857
Zn 206.200	12.6810b	ppb	0.5897	4.7	28.1453

280-44877-a-1-a (Samp) **7/31/2013, 6:27:21 PM** **Rack 1, Tube 39**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	-0.0930u	0.0008u	0.0534u
Al 308.215	30.8357	35.9250	35.9307
As 188.980	-3.8717u	1.2532	-1.5801u
B 249.678	9.9063	9.3700	8.3788
Ba 389.178	36.0828	34.5328	33.6712
Be 313.042	0.0137	0.0048	0.0035
Ca 370.602	18636	18053	17837
Cd 226.502	1.2062	1.0147	1.1761
Co 228.615	1.2542	1.8099	1.3797
Cr 267.716	0.3618	0.1004	0.1282
Cu 324.754	435.923	422.147	416.133
Fe 271.441	6.4304	6.8353	15.8570
K 766.491	1103.50	1063.28	1048.08
Mg 279.078	3819.84	3701.26	3650.10
Mn 257.610	5.4247	5.2684	5.1953
Mo 202.032	4.2174	3.3012	3.8733
Na 330.237	9056.52	8583.52	8484.46
Ni 231.604	126.020	120.247	118.997
Pb 220.353	20.0825	18.7737	18.6798
Sb 206.834	-0.2022u	0.8817	4.3155
Se 196.026	6.0647	6.9172	2.8898
Sn 189.925	-1.0597u	0.1419	3.2392
Sr 216.596	130.895	127.669	126.358
Ti 334.941	-0.0154	-0.0543	-0.0703u
Tl 190.794	-0.7692u	1.7677	-2.1381u
V 292.401	-0.0846u	0.0430	-0.0978u
Zn 206.200	833.533	814.153	804.146

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0129	ppb	0.0742	572.9	-13.1558
Al 308.215	34.2305	ppb	2.9399	8.6	134.562
As 188.980	-1.3995	ppb	2.5673	183.4	-10.2523
B 249.678	9.2184	ppb	0.7750	8.4	269.735
Ba 389.178	34.7623	ppb	1.2221	3.5	904.819
Be 313.042	0.0073	ppb	0.0056	76.0	-263.496
Ca 370.602	18176	ppb	413.0	2.3	57665
Cd 226.502	1.1323	ppb	0.1030	9.1	68.0891
Co 228.615	1.4813	ppb	0.2914	19.7	6.8249
Cr 267.716	0.1968	ppb	0.1435	72.9	36.7716
Cu 324.754	424.734	ppb	10.1454	2.4	27228.4
Fe 271.441	9.7076	ppb	5.3294	54.9	34.1895
K 766.491	1071.62	ppb	28.6359	2.7	36221.9
Mg 279.078	3723.74	ppb	87.0730	2.3	10665.8
Mn 257.610	5.2961	ppb	0.1172	2.2	1548.64
Mo 202.032	3.7973	ppb	0.4628	12.2	38.3907
Na 330.237	8708.17	ppb	305.724	3.5	471.460
Ni 231.604	121.754	ppb	3.7466	3.1	469.459
Pb 220.353	19.1787	ppb	0.7841	4.1	54.3783
Sb 206.834	1.6650	ppb	2.3585	141.6	8.1608
Se 196.026	5.2906	ppb	2.1224	40.1	3.4427
Sn 189.925	0.7738	ppb	2.2181	286.7	-6.6631
Sr 216.596	128.307	ppb	2.3344	1.8	2150.61
Ti 334.941	-0.0467	ppb	0.0282	60.4	-52.4055
Tl 190.794	-0.3799	ppb	1.9818	521.7	-10.7910
V 292.401	-0.0465	ppb	0.0778	167.4	-5.2075
Zn 206.200	817.277	ppb	14.9402	547.8	1430.30

280-44877-a-1-b ms (Samp) **7/31/2013, 6:31:55 PM** **Rack 1, Tube 40**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	23.2819	23.6670	22.9518
Al 308.215	2048.59	2052.33	2032.89
As 188.980	47.5840	45.0364	46.5760
B 249.678	90.1100	90.6687	89.6709
Ba 389.178	78.6096	79.3327	76.5983
Be 313.042	21.8806	21.9506	21.7036
Ca 370.602	19804	19824	19693
Cd 226.502	23.0552	23.0336	22.7462
Co 228.615	23.3128	23.1522	22.6757
Cr 267.716	45.3468	45.5131	45.1232
Cu 324.754	453.654	459.317	450.235
Fe 271.441	2156.11	2156.35	2139.23
K 766.491	3225.10	3237.52	3210.40
Mg 279.078	5773.10	5797.05	5721.63
Mn 257.610	231.839	232.253	230.148
Mo 202.032	47.0587	47.9459	46.7119
Na 330.237	10723.1	10678.4	10381.0
Ni 231.604	162.053	162.771	161.462
Pb 220.353	39.9322	43.2779	36.8624
Sb 206.834	21.1333	22.0716	19.6449
Se 196.026	44.1954	47.2217	32.2136
Sn 189.925	88.0779	85.9895	86.0661
Sr 216.596	168.949	168.018	167.370
Ti 334.941	42.7530	42.9212	42.3819
Tl 190.794	15.7679	18.1239	18.4056
V 292.401	43.7652	43.6510	43.5295
Zn 206.200	840.415	843.219	834.020

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	23.3003	ppb	0.3580	1.5	1998.23
Al 308.215	2044.60	ppb	10.3172	0.5	6062.04
As 188.980	46.3988	ppb	1.2830	2.8	32.8859
B 249.678	90.1499	ppb	0.5001	0.6	1655.88
Ba 389.178	78.1802	ppb	1.4168	1.8	2055.16
Be 313.042	21.8450	ppb	0.1273	0.6	43873.8
Ca 370.602	19774	ppb	70.56	0.4	62595
Cd 226.502	22.9450	ppb	0.1725	0.8	1251.89
Co 228.615	23.0469	ppb	0.3314	1.4	314.369
Cr 267.716	45.3277	ppb	0.1956	0.4	2887.93
Cu 324.754	454.402	ppb	4.5865	1.0	29114.5
Fe 271.441	2150.56	ppb	9.8162	0.5	4138.44
K 766.491	3224.34	ppb	13.5771	0.4	108615
Mg 279.078	5763.93	ppb	38.5410	0.7	16486.4
Mn 257.610	231.413	ppb	1.1152	0.5	62654.4
Mo 202.032	47.2388	ppb	0.6364	1.3	409.727
Na 330.237	10594.2	ppb	185.965	1.8	565.308
Ni 231.604	162.095	ppb	0.6555	0.4	626.685
Pb 220.353	40.0242	ppb	3.2087	8.0	97.3378
Sb 206.834	20.9499	ppb	1.2237	5.8	40.1343
Se 196.026	41.2102	ppb	7.9369	19.3	24.6800
Sn 189.925	86.7112	ppb	1.1842	1.4	89.2677
Sr 216.596	168.112	ppb	0.7940	0.5	2816.49
Ti 334.941	42.6854	ppb	0.2760	0.6	13595.0
Tl 190.794	17.4325	ppb	1.4484	8.3	14.9703
V 292.401	43.6486	ppb	0.1179	0.3	1302.96
Zn 206.200	839.218	ppb	4.7149	0.6	1468.37

280-44877-a-1-c msd (Samp) **7/31/2013, 6:36:41 PM** **Rack 1, Tube 41**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	23.3050	23.4193	23.5422
Al 308.215	2049.24	2064.84	2070.01
As 188.980	46.7284	45.5503	43.3360
B 249.678	91.3978	90.7984	91.0699
Ba 389.178	78.4856	77.3649	78.5639
Be 313.042	22.0768	22.0316	22.0208
Ca 370.602	19228	19297	19280
Cd 226.502	22.9008	23.1539	23.0725
Co 228.615	23.3777	24.0143	23.2319
Cr 267.716	45.7157	45.7657	45.6969
Cu 324.754	441.447	436.372	443.119
Fe 271.441	2171.16	2161.40	2173.18
K 766.491	3208.94	3209.31	3208.57
Mg 279.078	5707.86	5713.51	5701.48
Mn 257.610	232.612	232.638	232.880
Mo 202.032	47.6510	48.0386	46.5810
Na 330.237	10658.1	10798.8	10483.5
Ni 231.604	158.519	158.126	159.325
Pb 220.353	41.3814	39.1866	40.2726
Sb 206.834	22.8282	19.8476	21.6573
Se 196.026	48.5269	37.7130	48.5509
Sn 189.925	87.9325	88.5796	83.7199
Sr 216.596	164.959	165.226	165.080
Ti 334.941	42.8605	42.6735	42.7996
Tl 190.794	18.1760	16.2606	19.4271
V 292.401	43.7416	44.0573	43.4158
Zn 206.200	817.862	817.054	819.868

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	23.4222	ppb	0.1187	0.5	2008.88
Al 308.215	2061.36	ppb	10.8140	0.5	6111.47
As 188.980	45.2049	ppb	1.7224	3.8	31.8078
B 249.678	91.0887	ppb	0.3001	0.3	1671.97
Ba 389.178	78.1381	ppb	0.6708	0.9	2053.93
Be 313.042	22.0431	ppb	0.0297	0.1	44274.0
Ca 370.602	19268	ppb	35.99	0.2	60989
Cd 226.502	23.0424	ppb	0.1292	0.6	1257.22
Co 228.615	23.5413	ppb	0.4160	1.8	321.420
Cr 267.716	45.7261	ppb	0.0355	0.1	2913.10
Cu 324.754	440.312	ppb	3.5138	0.8	28219.6
Fe 271.441	2168.58	ppb	6.3020	0.3	4173.02
K 766.491	3208.94	ppb	0.3705	0.0	108097
Mg 279.078	5707.62	ppb	6.0203	0.1	16325.6
Mn 257.610	232.710	ppb	0.1478	0.1	63004.3
Mo 202.032	47.4235	ppb	0.7549	1.6	411.305
Na 330.237	10646.8	ppb	157.981	1.5	568.243
Ni 231.604	158.656	ppb	0.6112	0.4	613.282
Pb 220.353	40.2802	ppb	1.0974	2.7	97.8653
Sb 206.834	21.4444	ppb	1.5017	7.0	40.9557
Se 196.026	44.9303	ppb	6.2504	13.9	26.8721
Sn 189.925	86.7440	ppb	2.6388	3.0	89.3041
Sr 216.596	165.089	ppb	0.1334	0.1	2766.03
Ti 334.941	42.7779	ppb	0.0954	0.2	13624.2
Tl 190.794	17.9546	ppb	1.5948	8.9	15.7321
V 292.401	43.7382	ppb	0.3208	0.7	1305.58
Zn 206.200	818.261	ppb	1.4490	549.3	1431.85

280-44877-a-2-a (Samp) **7/31/2013, 6:41:16 PM** **Rack 1, Tube 42**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.2936	-0.1914u	-0.0135u
Al 308.215	14.6705	13.3063	10.3666
As 188.980	3.0367	-0.8634u	0.3031
B 249.678	6.2931	6.3271	6.1441
Ba 389.178	26.2769	27.3591	26.8631
Be 313.042	0.0064	0.0008	0.0136
Ca 370.602	15148	15493	15203
Cd 226.502	0.2237	0.2709	0.2397
Co 228.615	1.9643	1.4691	1.4844
Cr 267.716	-0.0271u	0.1614	0.0961
Cu 324.754	206.202	211.952	213.492
Fe 271.441	18.5570	23.0635	21.5762
K 766.491	850.914	872.189	857.428
Mg 279.078	2448.26	2517.54	2481.20
Mn 257.610	8.5747	8.7763	8.6173
Mo 202.032	3.3276	2.4246	2.6466
Na 330.237	6449.39	6783.17	6782.34
Ni 231.604	45.7317	45.1844	44.5893
Pb 220.353	20.1120	20.6289	19.9118
Sb 206.834	-1.1133u	-2.4901u	1.8038
Se 196.026	4.3420	-2.7218u	5.9240
Sn 189.925	-1.2502u	0.7191	-0.3211u
Sr 216.596	80.7682	83.2563	81.8854
Ti 334.941	-0.1001u	-0.0679u	-0.0543u
Tl 190.794	0.2060	-1.1001u	2.4386
V 292.401	0.3412	-0.1299u	-0.1998u
Zn 206.200	700.866	716.564	707.932

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0296	ppb	0.2453	828.7	-7.0555
Al 308.215	12.7811	ppb	2.1995	17.2	71.2561
As 188.980	0.8254	ppb	2.0019	242.5	-8.2435
B 249.678	6.2548	ppb	0.0974	1.6	218.763
Ba 389.178	26.8330	ppb	0.5417	2.0	692.862
Be 313.042	0.0069	ppb	0.0064	92.8	-264.898
Ca 370.602	15281	ppb	185.3	1.2	48481
Cd 226.502	0.2448	ppb	0.0240	9.8	20.3219
Co 228.615	1.6393	ppb	0.2816	17.2	9.1117
Cr 267.716	0.0768	ppb	0.0957	124.6	29.1818
Cu 324.754	210.549	ppb	3.8421	1.8	13624.7
Fe 271.441	21.0656	ppb	2.2962	10.9	55.9659
K 766.491	860.177	ppb	10.9009	1.3	29111.5
Mg 279.078	2482.34	ppb	34.6552	1.4	7120.92
Mn 257.610	8.6561	ppb	0.1063	1.2	2444.42
Mo 202.032	2.7996	ppb	0.4705	16.8	29.8567
Na 330.237	6671.64	ppb	192.469	2.9	370.530
Ni 231.604	45.1684	ppb	0.5713	1.3	170.968
Pb 220.353	20.2175	ppb	0.3700	1.8	56.5187
Sb 206.834	-0.5999	ppb	2.1925	365.5	4.4426
Se 196.026	2.5147	ppb	4.6034	183.1	1.8084
Sn 189.925	-0.2841	ppb	0.9851	346.8	-7.8465
Sr 216.596	81.9700	ppb	1.2462	1.5	1378.55
Ti 334.941	-0.0741	ppb	0.0235	31.7	-67.3800
Tl 190.794	0.5149	ppb	1.7894	347.6	-9.4859
V 292.401	0.0038	ppb	0.2942	7724.2	-3.4993
Zn 206.200	708.454	ppb	7.8618	1.1	1240.66

280-44877-a-3-a (Samp) **7/31/2013, 6:45:51 PM** **Rack 1, Tube 43**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	-0.3564u	0.1767	-0.1534u
Al 308.215	16.4977	17.6227	18.4300
As 188.980	-1.1090u	0.0579	-0.8143u
B 249.678	5.2453	5.6326	6.3552
Ba 389.178	23.9808	23.9954	26.2830
Be 313.042	0.0043	0.0043	0.0063
Ca 370.602	14633	14565	16056
Cd 226.502	0.5254	0.5138	0.4956
Co 228.615	0.4863	0.7101	0.3292
Cr 267.716	0.3403	0.3536	0.2992
Cu 324.754	215.123	215.465	238.746
Fe 271.441	142.796	141.012	157.518
K 766.491	782.103	778.121	850.442
Mg 279.078	2095.98	2088.45	2309.80
Mn 257.610	8.9028	8.9093	9.8115
Mo 202.032	1.5911	2.3654	2.2997
Na 330.237	5771.86	6063.38	6821.24
Ni 231.604	10.3826	10.9957	10.8042
Pb 220.353	15.5965	16.2655	20.9795
Sb 206.834	2.6558	-1.1212u	1.3532
Se 196.026	-3.5312u	-3.5388u	-7.8914u
Sn 189.925	-0.1061u	-0.8378u	0.5052
Sr 216.596	66.0597	65.5820	73.1291
Ti 334.941	-0.0982u	-0.0520u	-0.0335u
Tl 190.794	0.5998	1.7814	1.9762
V 292.401	-0.2353u	0.0729	-0.2480u
Zn 206.200	528.712	524.055	576.604

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1110	ppb	0.2691	242.3	-18.4466
Al 308.215	17.5168	ppb	0.9705	5.5	85.2427
As 188.980	-0.6218	ppb	0.6068	97.6	-9.5517
B 249.678	5.7444	ppb	0.5633	9.8	209.686
Ba 389.178	24.7531	ppb	1.3250	5.4	637.490
Be 313.042	0.0050	ppb	0.0012	23.7	-268.856
Ca 370.602	15085	ppb	842.0	5.6	47848
Cd 226.502	0.5116	ppb	0.0151	2.9	35.2154
Co 228.615	0.5085	ppb	0.1914	37.6	-6.9899
Cr 267.716	0.3310	ppb	0.0284	8.6	45.2715
Cu 324.754	223.111	ppb	13.5410	6.1	14422.6
Fe 271.441	147.108	ppb	9.0586	6.2	297.226
K 766.491	803.555	ppb	40.6538	5.1	27207.4
Mg 279.078	2164.74	ppb	125.681	5.8	6214.05
Mn 257.610	9.2079	ppb	0.5228	5.7	2590.86
Mo 202.032	2.0854	ppb	0.4294	20.6	23.7411
Na 330.237	6218.83	ppb	541.687	8.7	350.115
Ni 231.604	10.7275	ppb	0.3137	2.9	36.7434
Pb 220.353	17.6138	ppb	2.9339	16.7	51.1769
Sb 206.834	0.9626	ppb	1.9185	199.3	7.0431
Se 196.026	-4.9871	ppb	2.5152	50.4	-2.6106
Sn 189.925	-0.1463	ppb	0.6724	459.7	-7.6931
Sr 216.596	68.2569	ppb	4.2261	6.2	1150.61
Ti 334.941	-0.0612	ppb	0.0334	54.5	-64.8431
Tl 190.794	1.4525	ppb	0.7448	51.3	-8.1330
V 292.401	-0.1368	ppb	0.1817	132.8	-7.6353
Zn 206.200	543.124	ppb	29.0882	5.4	952.540

280-44877-a-4-a (Samp) **7/31/2013, 6:50:26 PM** **Rack 1, Tube 44**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	-0.1766u	0.1426	-0.3078u
Al 308.215	14.2595	14.3398	15.2231
As 188.980	0.7135	3.4953	0.1895
B 249.678	4.9755	4.4430	5.1237
Ba 389.178	17.3333	17.4369	17.9077
Be 313.042	-0.0002	0.0103	0.0083
Ca 370.602	14239	14211	14186
Cd 226.502	0.0871	0.1979	0.1240
Co 228.615	0.7267	1.0955	0.8195
Cr 267.716	0.1939	0.2135	0.1721
Cu 324.754	532.389	535.008	537.312
Fe 271.441	37.6933	37.2461	32.2516
K 766.491	774.604	767.411	764.678
Mg 279.078	2078.90	2080.97	2080.09
Mn 257.610	7.3148	7.2393	7.2769
Mo 202.032	2.1375	2.4626	2.6267
Na 330.237	6101.40	5939.07	6061.60
Ni 231.604	4.3286	4.2993	4.7615
Pb 220.353	-1.0663u	0.8865	1.8960
Sb 206.834	1.8680	2.4486	0.8671
Se 196.026	2.9754	4.8153	-2.6333u
Sn 189.925	-3.4501u	1.4847	0.6134
Sr 216.596	65.4197	65.3832	65.2214
Ti 334.941	-0.0541u	-0.0325u	-0.0456u
Tl 190.794	1.1221	2.3370	-2.0922u
V 292.401	-0.2200u	-0.4031u	-0.1245u
Zn 206.200	111.875	114.332	111.663

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1139	ppb	0.2316	203.3	-18.5688
Al 308.215	14.6075	ppb	0.5347	3.7	76.6726
As 188.980	1.4661	ppb	1.7768	121.2	-7.6650
B 249.678	4.8474	ppb	0.3580	7.4	194.538
Ba 389.178	17.5593	ppb	0.3061	1.7	448.088
Be 313.042	0.0061	ppb	0.0056	91.1	-266.786
Ca 370.602	14212	ppb	26.49	0.2	45087
Cd 226.502	0.1363	ppb	0.0564	41.4	14.5328
Co 228.615	0.8806	ppb	0.1918	21.8	-1.6975
Cr 267.716	0.1932	ppb	0.0207	10.7	36.5300
Cu 324.754	534.903	ppb	2.4633	0.5	34225.6
Fe 271.441	35.7303	ppb	3.0210	8.5	83.9427
K 766.491	768.898	ppb	5.1275	0.7	26041.9
Mg 279.078	2079.99	ppb	1.0368	0.0	5972.04
Mn 257.610	7.2770	ppb	0.0378	0.5	2068.08
Mo 202.032	2.4089	ppb	0.2490	10.3	26.5151
Na 330.237	6034.02	ppb	84.6086	1.4	347.078
Ni 231.604	4.4631	ppb	0.2588	5.8	12.3230
Pb 220.353	0.5721	ppb	1.5060	263.2	16.1203
Sb 206.834	1.7279	ppb	0.8000	46.3	8.2941
Se 196.026	1.7192	ppb	3.8800	225.7	1.3393
Sn 189.925	-0.4507	ppb	2.6339	584.4	-8.0335
Sr 216.596	65.3414	ppb	0.1055	0.2	1101.80
Ti 334.941	-0.0440	ppb	0.0109	24.7	-59.7938
Tl 190.794	0.4556	ppb	2.2886	502.3	-9.5760
V 292.401	-0.2492	ppb	0.1416	56.8	-11.0745
Zn 206.200	112.623	ppb	1.4832	552.3	202.311

280-44877-a-5-a (Samp) **7/31/2013, 6:55:02 PM** **Rack 1, Tube 45**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	-0.2699u	-0.0593u	-0.1507u
Al 308.215	13.4280	10.0704	14.8069
As 188.980	0.9663	-0.9183u	-0.6129u
B 249.678	4.3418	4.9619	4.9741
Ba 389.178	17.6268	17.7941	18.1254
Be 313.042	0.0008	0.0049	0.0005
Ca 370.602	14130	14283	14402
Cd 226.502	0.0647	0.0846	0.0989
Co 228.615	0.7117	0.7765	0.4541
Cr 267.716	0.1314	0.1113	0.0381
Cu 324.754	420.937	424.276	428.630
Fe 271.441	42.8758	47.6775	46.9237
K 766.491	768.337	783.307	794.017
Mg 279.078	1978.53	2010.04	2022.74
Mn 257.610	8.4098	8.5057	8.5657
Mo 202.032	1.2246	1.5719	1.6282
Na 330.237	5850.60	6082.24	6202.72
Ni 231.604	15.7916	16.3080	17.5676
Pb 220.353	0.8666	1.6914	1.2739
Sb 206.834	-0.8275u	-0.4757u	-4.0373u
Se 196.026	-4.5723u	-0.6906u	1.2714
Sn 189.925	1.4613	0.3477	-1.3227u
Sr 216.596	60.2933	61.9347	62.1740
Ti 334.941	-0.0470u	-0.0032	-0.1062u
Tl 190.794	-1.6248u	0.5172	-1.3766u
V 292.401	-0.0798u	-0.2448u	-0.2286u
Zn 206.200	40.1752	41.1523	37.6394

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1600	ppb	0.1056	66.0	-22.3247
Al 308.215	12.7684	ppb	2.4361	19.1	71.2194
As 188.980	-0.1883	ppb	1.0115	537.3	-9.1586
B 249.678	4.7592	ppb	0.3616	7.6	192.989
Ba 389.178	17.8488	ppb	0.2537	1.4	455.493
Be 313.042	0.0021	ppb	0.0025	119.9	-274.887
Ca 370.602	14272	ppb	136.2	1.0	45276
Cd 226.502	0.0828	ppb	0.0172	20.7	11.7022
Co 228.615	0.6474	ppb	0.1705	26.3	-4.9920
Cr 267.716	0.0936	ppb	0.0491	52.4	30.2564
Cu 324.754	424.614	ppb	3.8575	0.9	27220.7
Fe 271.441	45.8257	ppb	2.5823	5.6	103.244
K 766.491	781.887	ppb	12.8989	1.6	26478.7
Mg 279.078	2003.77	ppb	22.7624	1.1	5754.39
Mn 257.610	8.4937	ppb	0.0786	0.9	2396.10
Mo 202.032	1.4749	ppb	0.2186	14.8	18.5252
Na 330.237	6045.18	ppb	178.960	3.0	348.690
Ni 231.604	16.5557	ppb	0.9136	5.5	59.4544
Pb 220.353	1.2773	ppb	0.4124	32.3	17.5739
Sb 206.834	-1.7802	ppb	1.9626	110.2	2.5226
Se 196.026	-1.3305	ppb	2.9740	223.5	-0.4569
Sn 189.925	0.1621	ppb	1.4013	864.4	-7.3494
Sr 216.596	61.4673	ppb	1.0238	1.7	1036.83
Ti 334.941	-0.0521	ppb	0.0517	99.1	-62.7605
Tl 190.794	-0.8281	ppb	1.1717	141.5	-11.4536
V 292.401	-0.1844	ppb	0.0909	49.3	-8.9385
Zn 206.200	39.6557	ppb	1.8133	4.6	75.1519

280-44877-a-6-a (Samp) **7/31/2013, 6:59:38 PM** **Rack 1, Tube 46**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	-0.2844u	-0.0722u	0.2744
Al 308.215	4.0360	4.5381	6.6307
As 188.980	-0.2547u	-5.7504u	-2.6911u
B 249.678	4.6757	5.1671	5.0330
Ba 389.178	17.9022	18.2534	18.0120
Be 313.042	0.0062	0.0003	-0.0005
Ca 370.602	14574	15073	14494
Cd 226.502	0.1186	0.2695	0.0375
Co 228.615	0.8530	0.5540	0.5231
Cr 267.716	0.2781	0.2194	-0.0422u
Cu 324.754	361.756	374.387	359.575
Fe 271.441	61.6411	60.2667	61.0527
K 766.491	815.498	841.090	804.939
Mg 279.078	2196.66	2251.09	2160.31
Mn 257.610	8.4821	8.7306	8.3500
Mo 202.032	2.0165	2.6945	2.1413
Na 330.237	6536.46	6694.85	6192.93
Ni 231.604	8.6636	8.6439	9.3376
Pb 220.353	1.2450	1.5935	2.2472
Sb 206.834	-1.5047u	-1.1722u	3.9626
Se 196.026	-3.8590u	1.6475	3.1666
Sn 189.925	0.7993	-0.8116u	0.3184
Sr 216.596	67.6430	70.4552	67.1159
Ti 334.941	-0.0414u	0.0087	-0.0875u
Tl 190.794	-0.1069u	0.2059	-0.4064u
V 292.401	0.4323	-0.1482u	-0.1498u
Zn 206.200	413.037	422.713	407.581

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0274	ppb	0.2821	1030.3	-11.2359
Al 308.215	5.0683	ppb	1.3762	27.2	48.5078
As 188.980	-2.8987	ppb	2.7537	95.0	-11.6064
B 249.678	4.9586	ppb	0.2540	5.1	196.390
Ba 389.178	18.0559	ppb	0.1796	1.0	461.538
Be 313.042	0.0020	ppb	0.0037	184.8	-275.041
Ca 370.602	14714	ppb	314.1	2.1	46678
Cd 226.502	0.1419	ppb	0.1177	83.0	14.9318
Co 228.615	0.6434	ppb	0.1822	28.3	-5.0749
Cr 267.716	0.1517	ppb	0.1705	112.4	33.9296
Cu 324.754	365.239	ppb	7.9966	2.2	23449.6
Fe 271.441	60.9868	ppb	0.6896	1.1	132.288
K 766.491	820.509	ppb	18.5891	2.3	27777.5
Mg 279.078	2202.69	ppb	45.6887	2.1	6322.40
Mn 257.610	8.5209	ppb	0.1932	2.3	2405.36
Mo 202.032	2.2841	ppb	0.3608	15.8	25.4453
Na 330.237	6474.75	ppb	256.590	4.0	364.888
Ni 231.604	8.8817	ppb	0.3949	4.4	29.5461
Pb 220.353	1.6952	ppb	0.5088	30.0	18.4332
Sb 206.834	0.4286	ppb	3.0651	715.2	6.1543
Se 196.026	0.3183	ppb	3.6966	1161.2	0.5145
Sn 189.925	0.1020	ppb	0.8270	810.6	-7.4160
Sr 216.596	68.4047	ppb	1.7952	2.6	1152.94
Ti 334.941	-0.0401	ppb	0.0482	120.2	-57.9319
Tl 190.794	-0.1025	ppb	0.3062	298.8	-10.3951
V 292.401	0.0448	ppb	0.3356	749.5	-2.1719
Zn 206.200	414.444	ppb	7.6632	1.8	728.290

280-44877-a-7-a (Samp) **7/31/2013, 7:04:14 PM** **Rack 1, Tube 47**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	-0.3683u	-0.0810u	-0.1103u
Al 308.215	13.7116	11.9496	6.1005
As 188.980	-3.5027u	-2.8972u	0.1698
B 249.678	9.5917	7.8133	5.0762
Ba 389.178	30.9368	26.4560	21.1677
Be 313.042	0.0183	-0.0016	-0.0220u
Ca 370.602	21651	18548	15036
Cd 226.502	0.6079	0.5476	0.4744
Co 228.615	1.2105	0.9427	0.7844
Cr 267.716	0.4691	0.3827	0.1610
Cu 324.754	490.587	389.538	319.490
Fe 271.441	59.3721	54.2965	39.7232
K 766.491	1181.12	1015.61	826.964
Mg 279.078	4454.96	3802.71	3034.56
Mn 257.610	18.2616	15.5881	12.4273
Mo 202.032	3.4803	2.9311	2.8183
Na 330.237	9751.47	8483.40	6353.34
Ni 231.604	19.0781	17.1615	12.7985
Pb 220.353	26.6150	21.6675	16.5476
Sb 206.834	3.3448	-3.4346u	-0.4627u
Se 196.026	0.4804	-1.4725u	-2.8466u
Sn 189.925	0.5100	-0.1947u	1.1543
Sr 216.596	153.936	132.703	106.866
Ti 334.941	-0.0643u	-0.0677u	-0.1095u
Tl 190.794	-0.7794u	1.1532	-1.9925u
V 292.401	-0.1422u	-0.2024u	-0.1902u
Zn 206.200	858.191	729.657	586.534

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1866	ppb	0.1581	84.7	-28.2414
Al 308.215	10.5872	ppb	3.9843	37.6	64.8190
As 188.980	-2.0767	ppb	1.9689	94.8	-10.8644
B 249.678	7.4937	ppb	2.2746	30.4	239.986
Ba 389.178	26.1868	ppb	4.8901	18.7	679.748
Be 313.042	-0.0017	ppb	0.0202	1159.0	-281.550
Ca 370.602	18412	ppb	3310	18.0	58410
Cd 226.502	0.5433	ppb	0.0669	12.3	36.5443
Co 228.615	0.9792	ppb	0.2154	22.0	-0.3137
Cr 267.716	0.3376	ppb	0.1589	47.1	45.7331
Cu 324.754	399.871	ppb	86.0153	21.5	25649.3
Fe 271.441	51.1306	ppb	10.1999	19.9	113.457
K 766.491	1007.90	ppb	177.204	17.6	34079.1
Mg 279.078	3764.08	ppb	710.990	18.9	10780.8
Mn 257.610	15.4257	ppb	2.9206	18.9	4285.41
Mo 202.032	3.0766	ppb	0.3541	11.5	32.2241
Na 330.237	8196.07	ppb	1717.19	21.0	447.038
Ni 231.604	16.3460	ppb	3.2182	19.7	58.6372
Pb 220.353	21.6100	ppb	5.0339	23.3	59.3866
Sb 206.834	-0.1842	ppb	3.3982	1845.0	5.1275
Se 196.026	-1.2795	ppb	1.6719	130.7	-0.4248
Sn 189.925	0.4899	ppb	0.6747	137.7	-6.9802
Sr 216.596	131.168	ppb	23.5727	18.0	2201.26
Ti 334.941	-0.0805	ppb	0.0252	31.3	-62.9411
Tl 190.794	-0.5395	ppb	1.5865	294.1	-11.0369
V 292.401	-0.1783	ppb	0.0318	17.8	-9.0630
Zn 206.200	724.794	ppb	135.894	18.7	1269.13

280-44877-a-8-a (Samp) **7/31/2013, 7:08:50 PM** **Rack 1, Tube 48**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	-0.1607u	-0.0867u	-0.1089u
Al 308.215	6.7422	12.0777	4.0134
As 188.980	1.7555	0.1104	-1.2960u
B 249.678	5.0884	4.6198	5.0914
Ba 389.178	17.1114	18.0447	17.2071
Be 313.042	0.0032	0.0004	0.0120
Ca 370.602	14562	14553	14478
Cd 226.502	0.2256	0.2951	0.0939
Co 228.615	0.5203	0.5341	0.0685
Cr 267.716	0.3095	0.0330	-0.0242u
Cu 324.754	516.846	524.709	526.816
Fe 271.441	135.297	127.082	131.138
K 766.491	767.449	773.752	770.797
Mg 279.078	2075.89	2071.10	2074.19
Mn 257.610	7.1526	7.1402	7.1031
Mo 202.032	2.3102	1.8039	1.9616
Na 330.237	5900.63	6380.31	5906.67
Ni 231.604	2.6800	2.3756	2.1647
Pb 220.353	6.6449	5.3426	3.7866
Sb 206.834	-2.3585u	-3.1010u	2.7672
Se 196.026	-6.8377u	-0.8848u	-3.9891u
Sn 189.925	-0.1778u	2.3234	0.1180
Sr 216.596	65.0829	64.6457	64.2200
Ti 334.941	-0.0637u	-0.0494u	-0.0433u
Tl 190.794	-1.8064u	2.0181	1.7237
V 292.401	0.0413	-0.2911u	-0.1763u
Zn 206.200	185.781	185.124	183.030

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1188	ppb	0.0380	32.0	-18.9423
Al 308.215	7.6111	ppb	4.1018	53.9	56.0213
As 188.980	0.1900	ppb	1.5273	804.0	-8.8186
B 249.678	4.9332	ppb	0.2714	5.5	195.778
Ba 389.178	17.4544	ppb	0.5134	2.9	445.476
Be 313.042	0.0052	ppb	0.0061	117.4	-268.518
Ca 370.602	14531	ppb	46.14	0.3	46093
Cd 226.502	0.2049	ppb	0.1022	49.9	18.6322
Co 228.615	0.3743	ppb	0.2649	70.8	-8.9017
Cr 267.716	0.1061	ppb	0.1785	168.2	31.0573
Cu 324.754	522.790	ppb	5.2550	1.0	33456.3
Fe 271.441	131.173	ppb	4.1074	3.1	266.685
K 766.491	770.666	ppb	3.1536	0.4	26101.3
Mg 279.078	2073.73	ppb	2.4267	0.1	5954.19
Mn 257.610	7.1320	ppb	0.0257	0.4	2029.19
Mo 202.032	2.0252	ppb	0.2591	12.8	23.2272
Na 330.237	6062.54	ppb	275.214	4.5	347.445
Ni 231.604	2.4068	ppb	0.2591	10.8	4.3130
Pb 220.353	5.2581	ppb	1.4310	27.2	25.7665
Sb 206.834	-0.8975	ppb	3.1953	356.0	3.9741
Se 196.026	-3.9038	ppb	2.9774	76.3	-1.9731
Sn 189.925	0.7546	ppb	1.3667	181.1	-6.6880
Sr 216.596	64.6495	ppb	0.4315	0.7	1090.50
Ti 334.941	-0.0521	ppb	0.0105	20.1	-62.3792
Tl 190.794	0.6451	ppb	2.1281	329.9	-9.3099
V 292.401	-0.1420	ppb	0.1688	118.8	-7.7544
Zn 206.200	184.645	ppb	1.4367	0.8	327.824

280-44877-a-8-a SD^5 (Samp) **7/31/2013, 7:22:44 PM** **Rack 1, Tube 51**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	0.0249	0.1399	0.0885
Al 308.215	4.0083	2.5744	1.0584
As 188.980	-1.1470u	-1.3884u	-1.7698u
B 249.678	2.1251	1.6276	1.6544
Ba 389.178	4.4046	3.2534	3.8010
Be 313.042	0.0144	0.0165	0.0139
Ca 370.602	3180	3141	3068
Cd 226.502	0.1255	0.1632	0.1601
Co 228.615	0.3631	0.0982	0.2297
Cr 267.716	-0.0815u	-0.0232u	0.0084
Cu 324.754	114.549	114.665	112.080
Fe 271.441	29.4767	23.0366	26.0925
K 766.491	166.123	161.994	157.627
Mg 279.078	462.986	452.258	442.288
Mn 257.610	1.5651	1.4832	1.4203
Mo 202.032	0.6992	0.8707	0.8265
Na 330.237	1243.08	1379.41	1340.61
Ni 231.604	1.9821	0.6583	1.1556
Pb 220.353	1.6855	2.8850	1.3109
Sb 206.834	0.6326	3.1184	-0.7520u
Se 196.026	2.0389	-0.1299u	-3.1485u
Sn 189.925	2.0642	1.3655	-0.8273u
Sr 216.596	14.4078	13.8310	13.2962
Ti 334.941	0.0145	-0.0602u	-0.0374u
Tl 190.794	-1.9455u	0.7621	-1.9875u
V 292.401	-0.4246u	-0.2607u	-0.3358u
Zn 206.200	39.6693	38.8003	38.4746

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0844	ppb	0.0576	68.3	1.2463
Al 308.215	2.5471	ppb	1.4752	57.9	41.0699
As 188.980	-1.4351	ppb	0.3140	21.9	-10.2839
B 249.678	1.8024	ppb	0.2798	15.5	142.203
Ba 389.178	3.8197	ppb	0.5758	15.1	82.3335
Be 313.042	0.0149	ppb	0.0014	9.3	-252.359
Ca 370.602	3130	ppb	56.67	1.8	9929
Cd 226.502	0.1496	ppb	0.0210	14.0	15.2319
Co 228.615	0.2303	ppb	0.1325	57.5	-10.9207
Cr 267.716	-0.0321	ppb	0.0456	142.1	22.1632
Cu 324.754	113.765	ppb	1.4605	1.3	7477.48
Fe 271.441	26.2019	ppb	3.2215	12.3	65.5969
K 766.491	161.914	ppb	4.2487	2.6	5629.96
Mg 279.078	452.511	ppb	10.3512	2.3	1324.88
Mn 257.610	1.4895	ppb	0.0726	4.9	489.094
Mo 202.032	0.7988	ppb	0.0890	11.1	12.7439
Na 330.237	1321.03	ppb	70.2424	5.3	110.942
Ni 231.604	1.2653	ppb	0.6687	52.8	-0.1386
Pb 220.353	1.9604	ppb	0.8223	41.9	18.9766
Sb 206.834	0.9997	ppb	1.9611	196.2	7.1225
Se 196.026	-0.4132	ppb	2.6053	630.6	0.0814
Sn 189.925	0.8675	ppb	1.5087	173.9	-6.5707
Sr 216.596	13.8450	ppb	0.5559	4.0	240.305
Ti 334.941	-0.0277	ppb	0.0383	138.4	-62.5374
Tl 190.794	-1.0569	ppb	1.5755	149.1	-11.7827
V 292.401	-0.3403	ppb	0.0821	24.1	-13.4862
Zn 206.200	38.9814	ppb	0.6176	557.6	73.9771

280-44877-a-8-a PDS (Samp) **7/31/2013, 7:27:19 PM** **Rack 1, Tube 52**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	34.9833	35.2855	35.4478
Al 308.215	1864.68	1836.41	1838.75
As 188.980	196.931	192.487	195.009
B 249.678	461.876	458.038	464.576
Ba 389.178	219.638	216.139	219.085
Be 313.042	49.2658	48.8228	49.4475
Ca 370.602	16480	16226	16350
Cd 226.502	49.9489	49.2085	49.8001
Co 228.615	200.979	200.474	200.190
Cr 267.716	202.379	200.323	202.122
Cu 324.754	723.967	720.725	717.632
Fe 271.441	2072.88	2046.56	2076.79
K 766.491	2743.07	2740.71	2768.59
Mg 279.078	4022.03	3984.31	4035.83
Mn 257.610	211.844	209.345	211.536
Mo 202.032	203.732	201.727	204.056
Na 330.237	7912.12	7934.05	7987.89
Ni 231.604	198.151	196.859	197.995
Pb 220.353	199.536	202.150	203.474
Sb 206.834	187.040	184.460	189.405
Se 196.026	191.728	191.994	196.323
Sn 189.925	201.189	198.467	203.472
Sr 216.596	266.287	263.532	266.812
Ti 334.941	197.025	195.269	197.692
Tl 190.794	197.302	195.713	193.171
V 292.401	198.117	195.651	198.873
Zn 206.200	384.189	378.281	383.758

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	35.2388	ppb	0.2357	0.7	3024.54
Al 308.215	1846.61	ppb	15.6940	0.8	5465.73
As 188.980	194.809	ppb	2.2289	1.1	166.820
B 249.678	461.497	ppb	3.2853	0.7	8039.70
Ba 389.178	218.287	ppb	1.8811	0.9	5731.45
Be 313.042	49.1787	ppb	0.3214	0.7	99097.5
Ca 370.602	16352	ppb	126.9	0.8	51829
Cd 226.502	49.6525	ppb	0.3917	0.8	2690.15
Co 228.615	200.548	ppb	0.3997	0.2	2846.02
Cr 267.716	201.608	ppb	1.1202	0.6	12754.4
Cu 324.754	720.775	ppb	3.1682	0.4	46036.2
Fe 271.441	2065.41	ppb	16.4414	0.8	4002.77
K 766.491	2750.79	ppb	15.4591	0.6	92689.9
Mg 279.078	4014.06	ppb	26.6697	0.7	11490.1
Mn 257.610	210.908	ppb	1.3628	0.6	57098.6
Mo 202.032	203.172	ppb	1.2619	0.6	1743.10
Na 330.237	7944.69	ppb	38.9904	0.5	438.059
Ni 231.604	197.669	ppb	0.7053	0.4	764.776
Pb 220.353	201.720	ppb	2.0035	1.0	429.419
Sb 206.834	186.968	ppb	2.4732	1.3	313.576
Se 196.026	193.348	ppb	2.5795	1.3	114.305
Sn 189.925	201.043	ppb	2.5057	1.2	216.889
Sr 216.596	265.544	ppb	1.7622	0.7	4438.52
Ti 334.941	196.662	ppb	1.2512	0.6	62723.2
Tl 190.794	195.395	ppb	2.0839	1.1	275.722
V 292.401	197.547	ppb	1.6850	0.9	5910.30
Zn 206.200	382.076	ppb	3.2939	0.9	671.046

280-44877-a-8-b ms (Samp) **7/31/2013, 7:31:53 PM** **Rack 1, Tube 53**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	23.6535	23.6477	24.1034
Al 308.215	2021.54	2012.41	2016.14
As 188.980	44.7481	43.7494	47.1524
B 249.678	85.9098	86.6050	87.6736
Ba 389.178	60.5992	61.6066	62.0609
Be 313.042	21.4385	21.5184	21.5594
Ca 370.602	16877	16722	16878
Cd 226.502	21.5085	21.6612	21.6311
Co 228.615	22.1849	22.6204	22.6150
Cr 267.716	44.9102	45.1658	45.1531
Cu 324.754	561.663	570.326	560.205
Fe 271.441	2244.82	2244.51	2259.90
K 766.491	2871.22	2889.80	2878.67
Mg 279.078	4166.32	4183.96	4187.77
Mn 257.610	230.204	230.690	230.868
Mo 202.032	46.2774	45.6308	45.7234
Na 330.237	8146.68	8266.72	8251.77
Ni 231.604	45.3942	43.9853	44.7646
Pb 220.353	26.3721	24.4996	26.4838
Sb 206.834	21.4651	24.3759	25.7624
Se 196.026	46.0472	45.5281	43.6726
Sn 189.925	85.4093	86.8122	86.7777
Sr 216.596	108.999	109.416	109.138
Ti 334.941	41.8364	42.0279	42.0581
Tl 190.794	18.5515	15.1298	14.4663
V 292.401	42.8809	43.1421	43.4662
Zn 206.200	225.690	230.602	228.932

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	23.8015	ppb	0.2614	1.1	2044.59
Al 308.215	2016.70	ppb	4.5912	0.2	5979.73
As 188.980	45.2166	ppb	1.7492	3.9	31.8168
B 249.678	86.7295	ppb	0.8884	1.0	1596.85
Ba 389.178	61.4222	ppb	0.7481	1.2	1610.43
Be 313.042	21.5054	ppb	0.0614	0.3	43186.8
Ca 370.602	16826	ppb	89.75	0.5	53233
Cd 226.502	21.6003	ppb	0.0809	0.4	1179.86
Co 228.615	22.4734	ppb	0.2499	1.1	306.218
Cr 267.716	45.0764	ppb	0.1441	0.3	2872.06
Cu 324.754	564.065	ppb	5.4710	1.0	36079.5
Fe 271.441	2249.74	ppb	8.8010	0.4	4328.33
K 766.491	2879.89	ppb	9.3512	0.3	97031.4
Mg 279.078	4179.35	ppb	11.4436	0.3	11961.7
Mn 257.610	230.588	ppb	0.3437	0.1	62416.6
Mo 202.032	45.8772	ppb	0.3497	0.8	398.076
Na 330.237	8221.72	ppb	65.4187	0.8	454.720
Ni 231.604	44.7147	ppb	0.7058	1.6	169.204
Pb 220.353	25.7852	ppb	1.1147	4.3	68.0691
Sb 206.834	23.8678	ppb	2.1933	9.2	44.9741
Se 196.026	45.0826	ppb	1.2484	2.8	26.9615
Sn 189.925	86.3331	ppb	0.8002	0.9	88.8428
Sr 216.596	109.184	ppb	0.2121	0.2	1835.33
Ti 334.941	41.9742	ppb	0.1202	0.3	13360.1
Tl 190.794	16.0492	ppb	2.1923	13.7	12.9393
V 292.401	43.1631	ppb	0.2932	0.7	1288.60
Zn 206.200	228.408	ppb	2.4978	1.1	403.923

280-44877-a-8-c msd (Samp) **7/31/2013, 7:36:28 PM** **Rack 1, Tube 54**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	23.4756	22.9950	23.0020
Al 308.215	2025.51	2006.38	2008.85
As 188.980	45.0990	43.4224	45.6001
B 249.678	85.4073	85.3685	85.4050
Ba 389.178	61.1247	60.9724	60.4177
Be 313.042	21.5938	21.6540	21.5143
Ca 370.602	16464	16364	16369
Cd 226.502	21.6333	21.8459	21.5560
Co 228.615	22.6087	22.1423	22.4615
Cr 267.716	45.3034	45.1195	44.9251
Cu 324.754	556.089	561.273	560.511
Fe 271.441	2258.60	2250.14	2248.64
K 766.491	2900.55	2874.63	2846.04
Mg 279.078	4120.51	4134.19	4115.85
Mn 257.610	231.154	230.750	230.252
Mo 202.032	45.4799	45.2128	46.0456
Na 330.237	7940.28	7736.62	8010.29
Ni 231.604	46.0235	44.7834	45.9998
Pb 220.353	25.1821	27.2427	24.3331
Sb 206.834	20.0889	19.8444	19.5583
Se 196.026	37.9330	42.2580	42.9747
Sn 189.925	86.0771	86.4174	88.7566
Sr 216.596	107.803	107.552	107.231
Ti 334.941	42.1815	42.2510	42.0337
Tl 190.794	21.1817	16.2297	15.6985
V 292.401	43.2902	43.5124	42.7977
Zn 206.200	222.100	222.589	221.559

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	23.1575	ppb	0.2755	1.2	1989.09
Al 308.215	2013.58	ppb	10.4093	0.5	5970.53
As 188.980	44.7072	ppb	1.1405	2.6	31.3571
B 249.678	85.3936	ppb	0.0217	0.0	1573.88
Ba 389.178	60.8383	ppb	0.3721	0.6	1594.91
Be 313.042	21.5874	ppb	0.0701	0.3	43352.4
Ca 370.602	16399	ppb	56.35	0.3	51881
Cd 226.502	21.6784	ppb	0.1501	0.7	1184.07
Co 228.615	22.4042	ppb	0.2384	1.1	305.243
Cr 267.716	45.1160	ppb	0.1892	0.4	2874.56
Cu 324.754	559.291	ppb	2.7995	0.5	35776.3
Fe 271.441	2252.46	ppb	5.3699	0.2	4333.52
K 766.491	2873.74	ppb	27.2678	0.9	96824.4
Mg 279.078	4123.52	ppb	9.5335	0.2	11802.3
Mn 257.610	230.719	ppb	0.4520	0.2	62451.4
Mo 202.032	45.5794	ppb	0.4252	0.9	395.529
Na 330.237	7895.73	ppb	142.168	1.8	438.399
Ni 231.604	45.6022	ppb	0.7092	1.6	172.663
Pb 220.353	25.5860	ppb	1.4962	5.8	67.6596
Sb 206.834	19.8305	ppb	0.2656	1.3	38.3188
Se 196.026	41.0552	ppb	2.7276	6.6	24.5889
Sn 189.925	87.0837	ppb	1.4587	1.7	89.6804
Sr 216.596	107.529	ppb	0.2867	0.3	1807.62
Ti 334.941	42.1554	ppb	0.1110	0.3	13417.7
Tl 190.794	17.7033	ppb	3.0241	17.1	15.3551
V 292.401	43.2001	ppb	0.3658	0.8	1289.75
Zn 206.200	222.083	ppb	0.5155	0.2	392.899

640-44494-a-1-a (Samp) **7/31/2013, 7:41:03 PM** **Rack 1, Tube 55**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.3565	-0.0320u	0.1876
Al 308.215	52296.4	48425.5	49049.6
As 188.980	-1.0327u	0.3045	-4.5426u
B 249.678	26.9837	24.0302	25.0031
Ba 389.178	7.3784	6.6905	7.2257
Be 313.042	0.0661	0.0286u	0.0427
Ca 370.602	4306	3986	4032
Cd 226.502	0.6713	0.5550	0.4782
Co 228.615	0.8697	0.5847	1.3529
Cr 267.716	37.4922	34.8115	34.9990
Cu 324.754	236.935	219.496	222.374
Fe 271.441	307.164	296.137	290.457
K 766.491	4232.23	3891.09	3985.34
Mg 279.078	909.112	839.865	850.891
Mn 257.610	35.7024	33.0068	33.3693
Mo 202.032	3.7728	4.0436	3.3975
Na 330.237	647088x	602518x	606744x
Ni 231.604	10.3164	9.5273	9.3862
Pb 220.353	370.901	344.967	346.456
Sb 206.834	1.8380	3.9584	0.6397
Se 196.026	2.3355	8.6027	1.3218
Sn 189.925	-1.5853u	-0.2579	-1.6876u
Sr 216.596	19.8445	18.1114	18.5174
Ti 334.941	3.3600	3.0558	3.1459
Tl 190.794	-1.0952u	-1.7203u	-1.3140u
V 292.401	5.4595	4.5913	4.9176
Zn 206.200	27.5199	25.3381	24.1396

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1707b	ppb	0.1948	114.1	8.9425
Al 308.215	49923.8b	ppb	2078.23	4.2	147303
As 188.980	-1.7569b	ppb	2.5034	142.5	-9.8602
B 249.678	25.3390b	ppb	1.5051	5.9	546.170
Ba 389.178	7.0982b	ppb	0.3612	5.1	170.134
Be 313.042	0.0458b	ppb	0.0189	41.3	-260.959
Ca 370.602	4108b	ppb	173.2	4.2	13015
Cd 226.502	0.5682b	ppb	0.0972	17.1	34.0105
Co 228.615	0.9358b	ppb	0.3883	41.5	-0.7140
Cr 267.716	35.7676b	ppb	1.4965	4.2	2297.89
Cu 324.754	226.269b	ppb	9.3491	4.1	14623.2
Fe 271.441	297.919b	ppb	8.4951	2.9	586.276
K 766.491	4036.22b	ppb	176.170	4.4	135917
Mg 279.078	866.622b	ppb	37.2076	4.3	2486.55
Mn 257.610	34.0261b	ppb	1.4629	4.3	9278.89
Mo 202.032	3.7380b	ppb	0.3245	8.7	37.8558
Na 330.237	618783xb	ppb	24603.6	4.0	31187.8
Ni 231.604	9.7433b	ppb	0.5013	5.1	32.9377
Pb 220.353	354.108b	ppb	14.5622	4.1	742.048
Sb 206.834	2.1453b	ppb	1.6806	78.3	9.4813
Se 196.026	4.0866b	ppb	3.9437	96.5	2.7431
Sn 189.925	-1.1769b	ppb	0.7975	67.8	-8.5620
Sr 216.596	18.8244b	ppb	0.9064	4.8	323.660
Ti 334.941	3.1872b	ppb	0.1563	4.9	914.345
Tl 190.794	-1.3765b	ppb	0.3172	23.0	-12.2923
V 292.401	4.9895b	ppb	0.4385	8.8	139.020
Zn 206.200	25.6659b	ppb	1.7138	6.7	50.6219

X (Samp) **7/31/2013, 7:45:38 PM** **Rack 1, Tube 56**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.1089u	-0.2916u	0.0293
Al 308.215	0.0688	0.0635	-3.1582u
As 188.980	-4.8588u	1.2632	1.5476
B 249.678	-0.0585u	0.1607	0.1879
Ba 389.178	0.5617	0.5078	0.9628
Be 313.042	0.0061	0.0090	0.0103
Ca 370.602	-0.3844u	1.431	-0.7646u
Cd 226.502	0.0743	0.1708	0.0643
Co 228.615	0.9114	-0.0449u	0.8728
Cr 267.716	-0.0109u	0.0860	0.0122
Cu 324.754	-0.3006u	-0.2711u	0.0204
Fe 271.441	-5.5758u	2.1944	-4.1300u
K 766.491	-0.0586u	0.2068	0.5317
Mg 279.078	-1.9178u	-0.3689u	-0.5984u
Mn 257.610	-0.1071u	-0.1705u	-0.1196u
Mo 202.032	0.2518	-0.0495u	0.2864
Na 330.237	-103.679u	-40.9581u	15.7315
Ni 231.604	-0.9288u	1.6109	1.1681
Pb 220.353	-0.3472u	3.1647	-0.5900u
Sb 206.834	1.3509	-1.4909u	2.7744
Se 196.026	4.3901	4.7466	-0.1529u
Sn 189.925	0.3263	-0.3846u	-1.0823u
Sr 216.596	-0.1524u	0.1065	-0.1971u
Ti 334.941	-0.0311u	-0.0695u	-0.0658u
Tl 190.794	2.0277	-0.1866u	-0.0406u
V 292.401	-0.3450u	-0.0192u	-0.2672u
Zn 206.200	-1.6480u	-0.7152u	-1.3670u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1237	ppb	0.1610	130.1	-15.9834
Al 308.215	-1.0086	ppb	1.8615	184.6	30.5486
As 188.980	-0.6827	ppb	3.6194	530.2	-9.6040
B 249.678	0.0967	ppb	0.1351	139.7	112.951
Ba 389.178	0.6774	ppb	0.2486	36.7	-1.6008
Be 313.042	0.0085	ppb	0.0021	25.2	-266.260
Ca 370.602	0.0942	ppb	1.174	1246.5	2.642
Cd 226.502	0.1031	ppb	0.0588	57.0	12.6109
Co 228.615	0.5798	ppb	0.5413	93.4	-5.9162
Cr 267.716	0.0291	ppb	0.0506	174.0	25.9775
Cu 324.754	-0.1837	ppb	0.1774	96.6	240.180
Fe 271.441	-2.5038	ppb	4.1325	165.0	10.6639
K 766.491	0.2266	ppb	0.2956	130.4	192.651
Mg 279.078	-0.9617	ppb	0.8359	86.9	30.0064
Mn 257.610	-0.1324	ppb	0.0336	25.4	46.5209
Mo 202.032	0.1629	ppb	0.1847	113.4	7.3067
Na 330.237	-42.9684	ppb	59.7306	139.0	42.8783
Ni 231.604	0.6167	ppb	1.3567	220.0	-2.6685
Pb 220.353	0.7425	ppb	2.1012	283.0	16.4699
Sb 206.834	0.8781	ppb	2.1716	247.3	6.9346
Se 196.026	2.9946	ppb	2.7316	91.2	2.0884
Sn 189.925	-0.3802	ppb	0.7043	185.3	-7.9658
Sr 216.596	-0.0810	ppb	0.1639	202.3	7.2720
Ti 334.941	-0.0555	ppb	0.0212	38.2	-73.6227
Tl 190.794	0.6002	ppb	1.2384	206.3	-9.3562
V 292.401	-0.2104	ppb	0.1702	80.9	-9.4586
Zn 206.200	-1.2434	ppb	0.4785	38.5	3.8772

CRI (Samp) **7/31/2013, 7:50:13 PM** **Rack 1, Tube 57**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	9.5240	8.4606	8.4616
Al 308.215	177.176	170.124	171.318
As 188.980	18.8745	16.6905	20.8692
B 249.678	88.4526	83.3925	85.5950
Ba 389.178	10.5034	9.8206	9.0108
Be 313.042	3.7632	3.5595	3.6461
Ca 370.602	458.8	431.4	438.1
Cd 226.502	4.7881	4.4476	4.6358
Co 228.615	9.6074	9.0883	9.1700
Cr 267.716	9.7242	9.1672	9.4489
Cu 324.754	19.3983	17.5518	18.2650
Fe 271.441	41.2369	45.3036	45.2968
K 766.491	892.744	856.794	872.448
Mg 279.078	459.111	435.381	444.073
Mn 257.610	9.6206	9.1534	9.2569
Mo 202.032	9.9386	8.6372	9.1517
Na 330.237	828.947	726.508	903.090
Ni 231.604	37.9451	35.1540	36.2156
Pb 220.353	10.8316	8.8635	10.7657
Sb 206.834	21.6673	18.4754	17.5587
Se 196.026	23.5402	13.3259	11.9445
Sn 189.925	47.3611	43.0507	43.6074
Sr 216.596	9.1404	9.2988	8.7364
Ti 334.941	9.1432	8.6757	8.9273
Tl 190.794	22.9905	22.1362	23.4587
V 292.401	9.3106	8.5280	8.7716
Zn 206.200	19.1461	15.7665	16.5712

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	8.8154	ppb	0.6137	7.0	755.120
Al 308.215	172.873	ppb	3.7744	2.2	542.792
As 188.980	18.8114	ppb	2.0900	11.1	7.9951
B 249.678	85.8133	ppb	2.5371	3.0	1586.36
Ba 389.178	9.7782	ppb	0.7472	7.6	238.936
Be 313.042	3.6563	ppb	0.1023	2.8	7106.01
Ca 370.602	442.8	ppb	14.28	3.2	1409
Cd 226.502	4.6238	ppb	0.1705	3.7	256.302
Co 228.615	9.2885	ppb	0.2791	3.0	118.260
Cr 267.716	9.4468	ppb	0.2785	2.9	620.611
Cu 324.754	18.4050	ppb	0.9312	5.1	1421.04
Fe 271.441	43.9457	ppb	2.3459	5.3	100.996
K 766.491	873.996	ppb	18.0252	2.1	29576.1
Mg 279.078	446.188	ppb	12.0057	2.7	1306.59
Mn 257.610	9.3436	ppb	0.2454	2.6	2610.64
Mo 202.032	9.2425	ppb	0.6555	7.1	84.9423
Na 330.237	819.515	ppb	88.6683	10.8	85.9770
Ni 231.604	36.4382	ppb	1.4088	3.9	136.919
Pb 220.353	10.1536	ppb	1.1177	11.0	35.8014
Sb 206.834	19.2338	ppb	2.1568	11.2	37.2416
Se 196.026	16.2702	ppb	6.3338	38.9	9.9126
Sn 189.925	44.6730	ppb	2.3445	5.2	42.3263
Sr 216.596	9.0585	ppb	0.2900	3.2	158.876
Ti 334.941	8.9154	ppb	0.2340	2.6	2791.41
Tl 190.794	22.8618	ppb	0.6706	2.9	23.1898
V 292.401	8.8701	ppb	0.4005	4.5	262.386
Zn 206.200	17.1613	ppb	1.7654	10.3	35.9112

mb 680-286873/1-a (Samp) **7/31/2013, 8:03:58 PM** **Rack 2, Tube 3**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.1256u	0.3668	0.0319
Al 308.215	-0.8954u	-2.2992u	-4.8414u
As 188.980	-3.6336u	-2.9698u	3.1456
B 249.678	3.2569	3.7768	3.1943
Ba 389.178	-0.2030u	-0.3354u	-0.1804u
Be 313.042	0.0044	0.0195	0.0055
Ca 370.602	2.889	-0.2403u	1.626
Cd 226.502	0.2957	0.0618	0.2092
Co 228.615	0.2154	0.6898	0.7436
Cr 267.716	0.1412	-0.0056u	-0.0874u
Cu 324.754	-0.1048u	-0.0171u	0.1829
Fe 271.441	-1.5981u	-1.5011u	-4.4227u
K 766.491	0.5575	0.9287	0.4558
Mg 279.078	-0.2802u	0.9159	-1.4594u
Mn 257.610	0.2039	0.1969	0.1794
Mo 202.032	0.2036	0.0207	0.2620
Na 330.237	-23.5138u	9.2852	5.6296
Ni 231.604	0.6996	-0.4472u	0.2364
Pb 220.353	1.0899	1.1751	3.9213
Sb 206.834	0.9434	1.3632	2.0635
Se 196.026	-0.2249u	7.6297	-1.6901u
Sn 189.925	-0.7927u	-2.2415u	-2.0576u
Sr 216.596	-0.4277u	0.2783	-0.2743u
Ti 334.941	-0.0340u	-0.0714u	-0.0337u
Tl 190.794	-0.5566u	0.7259	-1.5721u
V 292.401	-0.3705u	-0.1698u	-0.3734u
Zn 206.200	-0.9496u	-0.9501u	-0.6660u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0910	ppb	0.2514	276.2	2.5614
Al 308.215	-2.6787	ppb	2.0002	74.7	25.6313
As 188.980	-1.1526	ppb	3.7371	324.2	-10.0283
B 249.678	3.4093	ppb	0.3198	9.4	169.894
Ba 389.178	-0.2396	ppb	0.0837	34.9	-25.6865
Be 313.042	0.0098	ppb	0.0084	85.8	-263.607
Ca 370.602	1.425	ppb	1.574	110.5	6.777
Cd 226.502	0.1889	ppb	0.1183	62.6	17.2370
Co 228.615	0.5496	ppb	0.2906	52.9	-6.3457
Cr 267.716	0.0161	ppb	0.1158	720.1	25.1586
Cu 324.754	0.0203	ppb	0.1475	725.6	253.144
Fe 271.441	-2.5073	ppb	1.6595	66.2	10.6512
K 766.491	0.6473	ppb	0.2489	38.5	206.798
Mg 279.078	-0.2746	ppb	1.1876	432.6	31.9617
Mn 257.610	0.1934	ppb	0.0126	6.5	134.536
Mo 202.032	0.1621	ppb	0.1259	77.7	7.2997
Na 330.237	-2.8664	ppb	17.9744	627.1	44.8928
Ni 231.604	0.1629	ppb	0.5769	354.1	-4.4371
Pb 220.353	2.0621	ppb	1.6106	78.1	19.1838
Sb 206.834	1.4567	ppb	0.5659	38.8	7.8887
Se 196.026	1.9049	ppb	5.0117	263.1	1.4465
Sn 189.925	-1.6973	ppb	0.7887	46.5	-9.4360
Sr 216.596	-0.1412	ppb	0.3713	262.9	6.2794
Ti 334.941	-0.0464	ppb	0.0217	46.8	-70.7164
Tl 190.794	-0.4676	ppb	1.1516	246.3	-10.9165
V 292.401	-0.3046	ppb	0.1167	38.3	-12.2991
Zn 206.200	-0.8552	ppb	0.1639	19.2	4.5536

lcs 680-286873/2-a (Samp) **7/31/2013, 8:08:33 PM** **Rack 2, Tube 4**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	55.5227	52.6649	52.8742
Al 308.215	4866.01	4723.04	4746.44
As 188.980	105.704	103.580	106.860
B 249.678	199.507	191.938	193.531
Ba 389.178	107.118	103.469	103.379
Be 313.042	52.6584	50.3394	50.6028
Ca 370.602	5173	5005	5032
Cd 226.502	52.3633	50.2316	50.5123
Co 228.615	53.7571	51.0960	51.9117
Cr 267.716	109.103	104.630	105.345
Cu 324.754	106.510	101.785	104.362
Fe 271.441	5131.87	4916.19	4937.12
K 766.491	5043.74	4863.73	4917.71
Mg 279.078	5150.38	4921.34	4962.35
Mn 257.610	542.947	522.155	525.274
Mo 202.032	105.956	102.294	103.031
Na 330.237	4729.47	4621.82	4706.30
Ni 231.604	105.237	100.599	101.971
Pb 220.353	50.1587	49.6982	51.4877
Sb 206.834	49.9100	51.1430	49.2796
Se 196.026	105.245	100.428	100.724
Sn 189.925	211.580	199.599	203.284
Sr 216.596	108.254	103.142	104.394
Ti 334.941	102.770	98.1893	98.7077
Tl 190.794	42.9072	40.2766	39.3177
V 292.401	105.129	101.010	101.032
Zn 206.200	102.967	102.465	101.810

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	53.6873	ppb	1.5930	3.0	4626.01
Al 308.215	4778.49	ppb	76.6853	1.6	14122.8
As 188.980	105.381	ppb	1.6634	1.6	86.1168
B 249.678	194.992	ppb	3.9901	2.0	3451.40
Ba 389.178	104.655	ppb	2.1332	2.0	2753.44
Be 313.042	51.2002	ppb	1.2697	2.5	103200
Ca 370.602	5070	ppb	90.27	1.8	15762
Cd 226.502	51.0357	ppb	1.1582	2.3	2776.75
Co 228.615	52.2550	ppb	1.3634	2.6	730.975
Cr 267.716	106.359	ppb	2.4031	2.3	6743.40
Cu 324.754	104.219	ppb	2.3656	2.3	6875.36
Fe 271.441	4995.06	ppb	118.943	2.4	9591.75
K 766.491	4941.73	ppb	92.3775	1.9	166368
Mg 279.078	5011.36	ppb	122.136	2.4	14330.6
Mn 257.610	530.125	ppb	11.2128	2.1	143345
Mo 202.032	103.760	ppb	1.9369	1.9	892.862
Na 330.237	4685.86	ppb	56.6627	1.2	277.571
Ni 231.604	102.602	ppb	2.3825	2.3	394.812
Pb 220.353	50.4482	ppb	0.9292	1.8	118.897
Sb 206.834	50.1109	ppb	0.9478	1.9	88.5042
Se 196.026	102.132	ppb	2.6996	2.6	60.6711
Sn 189.925	204.821	ppb	6.1366	3.0	221.099
Sr 216.596	105.263	ppb	2.6648	2.5	1769.06
Ti 334.941	99.8891	ppb	2.5085	2.5	31847.1
Tl 190.794	40.8338	ppb	1.8585	4.6	48.8179
V 292.401	102.390	ppb	2.3717	2.3	3062.03
Zn 206.200	102.414	ppb	0.5805	0.6	184.125

640-44502-g-2-d (Samp) **7/31/2013, 8:13:07 PM** **Rack 2, Tube 5**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	2.9503u	3.2163u	3.0000u
Al 308.215	2117.59	2103.28	2106.89
As 188.980	75.9233	69.4249	77.0926
B 249.678	385.411	382.997	384.581
Ba 389.178	35.6602	34.8624	34.6915
Be 313.042	0.3149	0.3137	0.3086
Ca 370.602	217633	217684	217179
Cd 226.502	0.2113	0.3108	0.3374
Co 228.615	3.2891	4.0991	4.0475
Cr 267.716	113.539	113.083	113.280
Cu 324.754	0.5493	0.4989	0.6082
Fe 271.441	384.342	393.023	391.564
K 766.491	1098545o	1119346o	1192746o
Mg 279.078	11344.3	11341.7	11341.4
Mn 257.610	7.6436	7.6148	7.5882
Mo 202.032	1414.12x	1413.39x	1416.51x
Na 330.237	1322266x	1328390x	1338096x
Ni 231.604	97.9274	98.0078	93.8790
Pb 220.353	1.7505	0.7014u	1.2256
Sb 206.834	1.0184u	5.3561u	0.8024u
Se 196.026	105.639	103.405	115.379
Sn 189.925	0.7220	0.1653	1.7476
Sr 216.596	8291.52x	8273.18x	8271.76x
Ti 334.941	179.014	178.713	179.192
Tl 190.794	-8.4837u	-5.8207u	-3.1236u
V 292.401	617.320	617.467	617.793
Zn 206.200	8.4717	7.9148	7.1269

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	3.0555b	ppb	0.1414	4.6	-165.740
Al 308.215	2109.26b	ppb	7.4427	0.4	6241.54
As 188.980	74.1469b	ppb	4.1310	5.6	57.4321
B 249.678	384.330b	ppb	1.2265	0.3	6720.71
Ba 389.178	35.0713b	ppb	0.5171	1.5	945.895
Be 313.042	0.3124b	ppb	0.0033	1.1	-54.5381
Ca 370.602	217499b	ppb	278.3	0.1	690100
Cd 226.502	0.2865b	ppb	0.0664	23.2	13.7683
Co 228.615	3.8119b	ppb	0.4535	11.9	-1.8653
Cr 267.716	113.301b	ppb	0.2289	0.2	7202.30
Cu 324.754	0.5522b	ppb	0.0547	9.9	328.820
Fe 271.441	389.643b	ppb	4.6483	1.2	769.071
K 766.491	1136879oxb	ppb	49487.4	4.4	38231652
Mg 279.078	11342.5b	ppb	1.5949	0.0	32420.5
Mn 257.610	7.6156b	ppb	0.0277	0.4	2244.23
Mo 202.032	1414.67xb	ppb	1.6312	0.1	12104.4
Na 330.237	1329584xb	ppb	7982.63	0.6	66961.8
Ni 231.604	96.6047b	ppb	2.3609	2.4	371.453
Pb 220.353	1.2258b	ppb	0.5246	42.8	15.0031
Sb 206.834	2.3923b	ppb	2.5690	107.4	-18.3815
Se 196.026	108.141b	ppb	6.3668	5.9	64.0390
Sn 189.925	0.8783b	ppb	0.8027	91.4	-5.8123
Sr 216.596	8278.82xb	ppb	11.0247	0.1	138241
Ti 334.941	178.973b	ppb	0.2421	0.1	57000.4
Tl 190.794	-5.8094b	ppb	2.6800	46.1	-19.2112
V 292.401	617.527b	ppb	0.2419	0.0	18348.7
Zn 206.200	7.8378b	ppb	0.6757	8.6	19.2228

640-44502-g-2-e ms (Samp) **7/31/2013, 8:17:42 PM** **Rack 2, Tube 6**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	62.3972	62.6180	80.7186
Al 308.215	7498.60	7515.07	9825.43
As 188.980	192.355	192.503	252.527
B 249.678	586.625	589.190	772.125
Ba 389.178	135.666	136.932	180.354
Be 313.042	51.1091	51.1263	66.7563
Ca 370.602	224061	223190	289175
Cd 226.502	49.9133	49.8674	65.5382
Co 228.615	53.5747	53.6771	68.5401
Cr 267.716	217.442	217.831	284.176
Cu 324.754	109.758	110.402	143.259
Fe 271.441	5183.55	5186.13	6774.29
K 766.491	1203101o	1209529o	1476578o
Mg 279.078	16181.3	16198.7	21184.8
Mn 257.610	519.716	520.776	677.601
Mo 202.032	1521.79x	1525.31x	1992.19x
Na 330.237	1345934x	1342504x	1765013x
Ni 231.604	196.200	197.472	256.842
Pb 220.353	50.6499	49.1249	65.2404
Sb 206.834	55.0538	58.1562	76.6476
Se 196.026	215.823	212.623	292.011
Sn 189.925	201.474	201.466	256.811
Sr 216.596	8422.95x	8447.43x	11052.0x
Ti 334.941	274.590	273.699	357.979
Tl 190.794	33.3645	33.6652	38.7355
V 292.401	722.634	724.136	942.918
Zn 206.200	109.785	112.837	147.294

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	68.5779b	ppb	10.5147	15.3	5439.50
Al 308.215	8279.70b	ppb	1338.67	16.2	24434.8
As 188.980	212.461b	ppb	34.6975	16.3	182.223
B 249.678	649.314b	ppb	106.366	16.4	11263.7
Ba 389.178	150.984b	ppb	25.4432	16.9	4020.59
Be 313.042	56.3306b	ppb	9.0289	16.0	113121
Ca 370.602	245475b	ppb	37848	15.4	778519
Cd 226.502	55.1063b	ppb	9.0343	16.4	2987.51
Co 228.615	58.5973b	ppb	8.6109	14.7	774.677
Cr 267.716	239.816b	ppb	38.4172	16.0	15197.2
Cu 324.754	121.140b	ppb	19.1584	15.8	7996.83
Fe 271.441	5714.66b	ppb	917.666	16.1	10978.6
K 766.491	1296402oxb	ppb	156070	12.0	43596180
Mg 279.078	17854.9b	ppb	2883.71	16.2	51003.6
Mn 257.610	572.698b	ppb	90.8505	15.9	154965
Mo 202.032	1679.76xb	ppb	270.578	16.1	14371.0
Na 330.237	1484484xb	ppb	242951	16.4	74754.2
Ni 231.604	216.838b	ppb	34.6502	16.0	840.055
Pb 220.353	55.0050b	ppb	8.8968	16.2	125.530
Sb 206.834	63.2859b	ppb	11.6751	18.4	79.4154
Se 196.026	240.152b	ppb	44.9394	18.7	142.000
Sn 189.925	219.917b	ppb	31.9514	14.5	238.782
Sr 216.596	9307.46xb	ppb	1510.87	16.2	155419
Ti 334.941	302.089b	ppb	48.4042	16.0	96310.6
Tl 190.794	35.2551b	ppb	3.0179	8.6	40.0855
V 292.401	796.563b	ppb	126.750	15.9	23693.8
Zn 206.200	123.305b	ppb	20.8306	16.9	219.969

640-44502-g-2-f msd (Samp) **7/31/2013, 8:22:17 PM** **Rack 2, Tube 7**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	63.2276	63.1475	63.3334
Al 308.215	7698.58	7641.97	7620.10
As 188.980	197.536	203.275	196.441
B 249.678	596.153	596.488	598.924
Ba 389.178	140.750	139.733	140.113
Be 313.042	53.0631	52.9749	53.1275
Ca 370.602	224124	222785	223084
Cd 226.502	51.6408	51.5467	51.9665
Co 228.615	54.7614	54.4381	54.4741
Cr 267.716	221.757	221.178	222.096
Cu 324.754	114.594	114.168	114.144
Fe 271.441	5363.87	5347.41	5371.89
K 766.491	1203265o	1200309o	1209449o
Mg 279.078	16313.2	16319.2	16375.8
Mn 257.610	539.324	538.486	539.757
Mo 202.032	1528.72x	1529.30x	1530.65x
Na 330.237	1344016x	1344920x	1347242x
Ni 231.604	198.830	198.538	199.889
Pb 220.353	51.3649	52.9638	51.4145
Sb 206.834	58.4965	60.4380	55.5747
Se 196.026	217.871	221.681	230.834
Sn 189.925	203.394	203.741	207.615
Sr 216.596	8419.33x	8421.88x	8452.20x
Ti 334.941	278.562	278.062	278.617
Tl 190.794	33.0289	34.6972	35.3713
V 292.401	727.874	725.876	729.296
Zn 206.200	111.833	112.091	114.356

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	63.2362b	ppb	0.0932	0.1	5023.39
Al 308.215	7653.55b	ppb	40.4995	0.5	22589.5
As 188.980	199.084b	ppb	3.6708	1.8	170.200
B 249.678	597.188b	ppb	1.5126	0.3	10368.2
Ba 389.178	140.199b	ppb	0.5136	0.4	3731.12
Be 313.042	53.0552b	ppb	0.0766	0.1	106542
Ca 370.602	223331b	ppb	702.9	0.3	708279
Cd 226.502	51.7180b	ppb	0.2203	0.4	2804.62
Co 228.615	54.5579b	ppb	0.1772	0.3	721.427
Cr 267.716	221.677b	ppb	0.4641	0.2	14049.0
Cu 324.754	114.302b	ppb	0.2531	0.2	7557.96
Fe 271.441	5361.06b	ppb	12.4807	0.2	10300.0
K 766.491	1204341oxb	ppb	4664.00	0.4	40500304
Mg 279.078	16336.1b	ppb	34.5468	0.2	46667.3
Mn 257.610	539.189b	ppb	0.6463	0.1	145898
Mo 202.032	1529.56xb	ppb	0.9911	0.1	13086.4
Na 330.237	1345393xb	ppb	1664.23	0.1	67754.1
Ni 231.604	199.086b	ppb	0.7111	0.4	770.866
Pb 220.353	51.9144b	ppb	0.9092	1.8	119.414
Sb 206.834	58.1698b	ppb	2.4481	4.2	73.8051
Se 196.026	223.462b	ppb	6.6624	3.0	132.156
Sn 189.925	204.917b	ppb	2.3432	1.1	221.959
Sr 216.596	8431.14xb	ppb	18.2868	0.2	140787
Ti 334.941	278.414b	ppb	0.3055	0.1	88759.4
Tl 190.794	34.3658b	ppb	1.2059	3.5	38.8725
V 292.401	727.682b	ppb	1.7178	0.2	21645.8
Zn 206.200	112.760b	ppb	1.3884	1.2	201.665

640-44506-d-1-b (Samp) **7/31/2013, 8:26:52 PM** **Rack 2, Tube 8**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.0059u	-0.0436u	0.0951
Al 308.215	-2.1144u	-5.3091u	4.1388
As 188.980	1.7911	3.6185	3.3454
B 249.678	7.8131	8.1563	7.7522
Ba 389.178	0.9697	0.1191	0.3283
Be 313.042	0.0102	0.0083	0.0149
Ca 370.602	41.89	43.60	44.73
Cd 226.502	-0.0367u	0.1094	0.1617
Co 228.615	0.3422	0.5341	0.7334
Cr 267.716	0.0996	0.0694	0.1091
Cu 324.754	0.1811	0.2796	0.8477
Fe 271.441	-5.5270u	1.3376	3.4072
K 766.491	22.7281	22.3685	21.6477
Mg 279.078	5.1013	2.7720	3.7471
Mn 257.610	-0.0888u	-0.0873u	-0.0837u
Mo 202.032	2.2829	1.8483	1.4845
Na 330.237	-180.707u	-85.7439u	237.014
Ni 231.604	-0.0654u	-0.2770u	0.1385
Pb 220.353	-0.0693u	-1.7782u	0.3432
Sb 206.834	1.5395	1.2061	1.2205
Se 196.026	-6.4863u	-2.2118u	-0.4565u
Sn 189.925	0.5674	1.9929	-1.1450u
Sr 216.596	0.0671	0.1512	-0.1277u
Ti 334.941	-0.0257u	-0.0118u	-0.0475u
Tl 190.794	0.8594	1.7599	-2.1810u
V 292.401	-0.2265u	0.1247	0.1995
Zn 206.200	-0.6409u	-0.5817u	-0.2469u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0152	ppb	0.0717	471.5	-3.9895
Al 308.215	-1.0949	ppb	4.8057	438.9	30.3200
As 188.980	2.9183	ppb	0.9858	33.8	-6.3534
B 249.678	7.9072	ppb	0.2179	2.8	247.212
Ba 389.178	0.4724	ppb	0.4432	93.8	-6.9592
Be 313.042	0.0112	ppb	0.0034	30.5	-261.154
Ca 370.602	43.41	ppb	1.432	3.3	139.9
Cd 226.502	0.0781	ppb	0.1028	131.6	11.2748
Co 228.615	0.5366	ppb	0.1956	36.5	-6.5903
Cr 267.716	0.0927	ppb	0.0208	22.4	29.9955
Cu 324.754	0.4361	ppb	0.3598	82.5	279.607
Fe 271.441	-0.2607	ppb	4.6767	1793.6	14.9576
K 766.491	22.2481	ppb	0.5502	2.5	933.199
Mg 279.078	3.8735	ppb	1.1698	30.2	43.8130
Mn 257.610	-0.0866	ppb	0.0027	3.1	58.9422
Mo 202.032	1.8719	ppb	0.3997	21.4	21.9229
Na 330.237	-9.8126	ppb	218.968	2231.5	44.5356
Ni 231.604	-0.0680	ppb	0.2077	305.7	-5.3368
Pb 220.353	-0.5014	ppb	1.1248	224.3	13.9093
Sb 206.834	1.3220	ppb	0.1885	14.3	7.6333
Se 196.026	-3.0515	ppb	3.1013	101.6	-1.4736
Sn 189.925	0.4718	ppb	1.5711	333.0	-7.0147
Sr 216.596	0.0302	ppb	0.1430	473.2	9.1116
Ti 334.941	-0.0283	ppb	0.0180	63.7	-64.9470
Tl 190.794	0.1461	ppb	2.0650	1413.5	-10.0209
V 292.401	0.0325	ppb	0.2275	698.9	-2.4433
Zn 206.200	-0.4898	ppb	0.2125	43.4	5.1902

640-44506-d-1-b (Samp) **7/31/2013, 8:31:27 PM** **Rack 2, Tube 9**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	0.0361	-0.1976u	0.1425
Al 308.215	-3.6373u	0.6439	0.2685
As 188.980	2.2285	-1.0838u	0.7978
B 249.678	2.3295	2.3908	1.8392
Ba 389.178	0.3834	0.0727	-0.0057u
Be 313.042	0.0166	0.0088	0.0145
Ca 370.602	13.73	11.91	14.42
Cd 226.502	-0.0439u	0.1329	-0.0083u
Co 228.615	0.9197	0.0653	0.6482
Cr 267.716	0.0567	-0.0695u	0.0102
Cu 324.754	0.0940	-0.1924u	-0.3908u
Fe 271.441	-1.9580u	1.7042	-3.7620u
K 766.491	15.4549	15.9865	15.3835
Mg 279.078	-3.4468u	0.8923	0.9620
Mn 257.610	0.4828	0.5823	0.5398
Mo 202.032	0.4427	0.9745	0.5734
Na 330.237	-48.5983u	32.9600	64.6649
Ni 231.604	-0.6370u	1.4537	0.0835
Pb 220.353	-0.1660u	1.2891	-1.6242u
Sb 206.834	-2.7881u	-1.4522u	0.6894
Se 196.026	-0.2539u	-0.3929u	-2.1008u
Sn 189.925	-1.6469u	1.6027	0.4122
Sr 216.596	-0.1040u	0.3857	-0.0600u
Ti 334.941	-0.0424u	-0.0111u	-0.0277u
Tl 190.794	1.1810	0.1868	-2.1732u
V 292.401	-0.0985u	-0.4223u	-0.3692u
Zn 206.200	0.4283	-0.6050u	-0.8213u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0063	ppb	0.1740	2751.7	-5.8558
Al 308.215	-0.9083	ppb	2.3708	261.0	30.8650
As 188.980	0.6475	ppb	1.6612	256.6	-8.4032
B 249.678	2.1865	ppb	0.3023	13.8	148.872
Ba 389.178	0.1501	ppb	0.2058	137.1	-15.4458
Be 313.042	0.0133	ppb	0.0041	30.6	-256.653
Ca 370.602	13.35	ppb	1.294	9.7	44.60
Cd 226.502	0.0269	ppb	0.0935	347.7	8.5098
Co 228.615	0.5444	ppb	0.4365	80.2	-6.4371
Cr 267.716	-0.0009	ppb	0.0638	7196.7	24.0936
Cu 324.754	-0.1630	ppb	0.2437	149.5	241.513
Fe 271.441	-1.3386	ppb	2.7853	208.1	12.8903
K 766.491	15.6083	ppb	0.3295	2.1	709.912
Mg 279.078	-0.5308	ppb	2.5255	475.8	31.2233
Mn 257.610	0.5350	ppb	0.0499	9.3	226.805
Mo 202.032	0.6635	ppb	0.2771	41.8	11.5885
Na 330.237	16.3423	ppb	58.4316	357.5	45.8574
Ni 231.604	0.3000	ppb	1.0620	354.0	-3.9027
Pb 220.353	-0.1670	ppb	1.4567	872.1	14.5991
Sb 206.834	-1.1836	ppb	1.7542	148.2	3.5219
Se 196.026	-0.9159	ppb	1.0285	112.3	-0.2152
Sn 189.925	0.1227	ppb	1.6440	1340.2	-7.4045
Sr 216.596	0.0739	ppb	0.2709	366.6	9.8461
Ti 334.941	-0.0271	ppb	0.0157	57.9	-64.5721
Tl 190.794	-0.2685	ppb	1.7228	641.6	-10.6263
V 292.401	-0.2966	ppb	0.1737	58.5	-12.1460
Zn 206.200	-0.3327	ppb	0.6679	200.8	-5.4643

640-44506-d-1-b (Samp) **7/31/2013, 8:36:03 PM** **Rack 2, Tube 10**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	17.6612	17.0227	17.0895
Al 308.215	1809.66	1802.06	1779.23
As 188.980	182.946	179.412	183.868
B 249.678	452.316	452.656	451.672
Ba 389.178	197.728	197.857	196.876
Be 313.042	48.2225	48.2587	48.1270
Ca 370.602	1835	1828	1810
Cd 226.502	48.0517	48.3371	48.0158
Co 228.615	195.117	197.284	193.908
Cr 267.716	196.699	196.922	195.980
Cu 324.754	197.026	198.035	198.447
Fe 271.441	1891.86	1888.15	1880.76
K 766.491	1866.81	1858.47	1859.16
Mg 279.078	1916.93	1916.90	1913.28
Mn 257.610	200.304	200.136	199.396
Mo 202.032	196.746	198.651	196.277
Na 330.237	1599.43	1879.58	1813.72
Ni 231.604	190.859	190.722	190.912
Pb 220.353	192.695	193.569	194.936
Sb 206.834	177.656	185.835	179.813
Se 196.026	190.481	191.620	185.940
Sn 189.925	196.249	197.798	196.323
Sr 216.596	195.167	196.433	194.596
Ti 334.941	191.802	191.933	191.662
Tl 190.794	188.493	192.356	190.291
V 292.401	193.687	193.496	192.556
Zn 206.200	194.117	190.879	190.914

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	17.2578	ppb	0.3509	2.0	1476.38
Al 308.215	1796.98	ppb	15.8354	0.9	5319.65
As 188.980	182.075	ppb	2.3518	1.3	155.326
B 249.678	452.214	ppb	0.4998	0.1	7880.55
Ba 389.178	197.487	ppb	0.5331	0.3	5178.54
Be 313.042	48.2028	ppb	0.0680	0.1	97120.9
Ca 370.602	1824	ppb	12.95	0.7	5750
Cd 226.502	48.1349	ppb	0.1761	0.4	2607.67
Co 228.615	195.436	ppb	1.7103	0.9	2773.15
Cr 267.716	196.534	ppb	0.4922	0.3	12433.8
Cu 324.754	197.836	ppb	0.7310	0.4	12822.3
Fe 271.441	1886.92	ppb	5.6496	0.3	3660.11
K 766.491	1861.48	ppb	4.6259	0.2	62783.7
Mg 279.078	1915.70	ppb	2.0963	0.1	5498.50
Mn 257.610	199.945	ppb	0.4834	0.2	54116.6
Mo 202.032	197.225	ppb	1.2570	0.6	1692.25
Na 330.237	1764.24	ppb	146.481	8.3	129.817
Ni 231.604	190.831	ppb	0.0982	0.1	738.136
Pb 220.353	193.733	ppb	1.1296	0.6	412.991
Sb 206.834	181.101	ppb	4.2393	2.3	303.909
Se 196.026	189.347	ppb	3.0047	1.6	111.944
Sn 189.925	196.790	ppb	0.8740	0.4	212.131
Sr 216.596	195.398	ppb	0.9401	0.5	3265.05
Ti 334.941	191.799	ppb	0.1356	0.1	61161.0
Tl 190.794	190.380	ppb	1.9328	1.0	268.400
V 292.401	193.246	ppb	0.6055	0.3	5781.84
Zn 206.200	191.970	ppb	1.8595	1.0	339.771

640-44506-d-2-b (Samp) **7/31/2013, 8:40:39 PM** **Rack 2, Tube 11**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	-0.3617u	-0.0241u	-0.1136u
Al 308.215	100.582	100.149	108.686
As 188.980	1.6004	3.8125	-2.4529u
B 249.678	59.3077	59.0221	62.7441
Ba 389.178	12.7132	12.1460	12.9675
Be 313.042	-0.0000	0.0019	0.0020
Ca 370.602	79611	79907	84144
Cd 226.502	0.0067	0.2174	0.0674
Co 228.615	0.7426	0.3466	0.7753
Cr 267.716	0.9725	0.7802	0.9419
Cu 324.754	-0.1591u	-0.1704u	-0.5769u
Fe 271.441	50.4311	54.7643	51.0316
K 766.491	695.290	693.572	731.808
Mg 279.078	22450.6	22408.2	23642.7
Mn 257.610	84.4788	84.4365	88.8486
Mo 202.032	1.2642	0.8477	1.5003
Na 330.237	11278.1	11087.0	11947.7
Ni 231.604	5.0565	4.7159	5.4579
Pb 220.353	2.3602	1.1525	-0.6820u
Sb 206.834	-2.0261u	-1.5750u	-2.1518u
Se 196.026	6.4327	3.4623	0.1906
Sn 189.925	-2.3114u	2.5981	2.4218
Sr 216.596	104.349	103.199	108.771
Ti 334.941	1.2938	1.2490	1.4248
Tl 190.794	0.7140	0.4577	2.0329
V 292.401	3.4247	3.4602	3.4963
Zn 206.200	2.6371	2.1697	1.4820

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1665	ppb	0.1749	105.0	-25.2455
Al 308.215	103.139	ppb	4.8089	4.7	337.497
As 188.980	0.9867	ppb	3.1775	322.0	-8.0964
B 249.678	60.3580	ppb	2.0713	3.4	1148.75
Ba 389.178	12.6089	ppb	0.4206	3.3	379.922
Be 313.042	0.0013	ppb	0.0011	86.8	-252.688
Ca 370.602	81221	ppb	2536	3.1	257679
Cd 226.502	0.0972	ppb	0.1085	111.6	12.8341
Co 228.615	0.6215	ppb	0.2386	38.4	-5.3004
Cr 267.716	0.8982	ppb	0.1033	11.5	81.5908
Cu 324.754	-0.3021	ppb	0.2380	78.8	232.668
Fe 271.441	52.0756	ppb	2.3477	4.5	115.243
K 766.491	706.890	ppb	21.5965	3.1	23956.6
Mg 279.078	22833.8	ppb	700.830	3.1	65233.4
Mn 257.610	85.9213	ppb	2.5352	3.0	23511.5
Mo 202.032	1.2041	ppb	0.3305	27.4	16.2003
Na 330.237	11437.6	ppb	451.991	4.0	620.625
Ni 231.604	5.0768	ppb	0.3714	7.3	14.7159
Pb 220.353	0.9436	ppb	1.5318	162.3	16.9061
Sb 206.834	-1.9176	ppb	0.3033	15.8	2.3136
Se 196.026	3.3618	ppb	3.1223	92.9	2.3305
Sn 189.925	0.9029	ppb	2.7850	308.5	-6.4816
Sr 216.596	105.439	ppb	2.9420	2.8	1782.11
Ti 334.941	1.3225	ppb	0.0914	6.9	483.155
Tl 190.794	1.0682	ppb	0.8452	79.1	-8.7343
V 292.401	3.4604	ppb	0.0358	1.0	101.283
Zn 206.200	2.0963	ppb	0.5810	27.7	0.6942

640-44506-d-4-b (Samp) **7/31/2013, 8:45:16 PM** **Rack 2, Tube 12**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	-0.0744u	0.1540	0.0665u
Al 308.215	15.6578	18.9595	18.1739
As 188.980	4.3505	0.8344	1.4436
B 249.678	19.1664	20.1992	19.1611
Ba 389.178	23.4332	23.8305	22.8798
Be 313.042	-0.0148	-0.0117	-0.0130
Ca 370.602	105685	105137	104765
Cd 226.502	0.0867	0.0958	0.0665
Co 228.615	1.3883	1.3334	1.1956
Cr 267.716	0.4377	0.3015	0.5125
Cu 324.754	-0.9250u	0.0662	-0.6552u
Fe 271.441	159.875	159.438	157.611
K 766.491	1150.79	1145.91	1134.15
Mg 279.078	27293.1	27091.9	27083.3
Mn 257.610	274.772	275.190	273.999
Mo 202.032	1.0915	0.6046	1.2352
Na 330.237	4917.12	4818.42	4790.32
Ni 231.604	5.1171	6.0158	5.7514
Pb 220.353	-0.2812u	0.2911	-0.0120
Sb 206.834	-0.1550u	1.6156	-1.9265u
Se 196.026	8.7078	0.4550	2.8752
Sn 189.925	1.9880	-1.9906u	-1.3390u
Sr 216.596	163.008	162.575	163.959
Ti 334.941	0.0830	0.0637	0.0422
Tl 190.794	1.3537	-2.2549u	-3.2966u
V 292.401	8.9610	8.8461	9.2517
Zn 206.200	3.1548	2.4153	1.8481

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0487	ppb	0.1152	236.7	-8.7737
Al 308.215	17.5971	ppb	1.7248	9.8	84.6802
As 188.980	2.2095	ppb	1.8790	85.0	-6.9951
B 249.678	19.5089	ppb	0.5978	3.1	446.264
Ba 389.178	23.3812	ppb	0.4775	2.0	675.869
Be 313.042	-0.0132	ppb	0.0016	12.0	-272.337
Ca 370.602	105196	ppb	462.9	0.4	333736
Cd 226.502	0.0830	ppb	0.0150	18.0	12.6675
Co 228.615	1.3058	ppb	0.0993	7.6	4.4368
Cr 267.716	0.4172	ppb	0.1070	25.6	52.1018
Cu 324.754	-0.5047	ppb	0.5125	101.6	219.772
Fe 271.441	158.975	ppb	1.2014	0.8	320.145
K 766.491	1143.61	ppb	8.5514	0.7	38643.0
Mg 279.078	27156.1	ppb	118.743	0.4	77571.7
Mn 257.610	274.654	ppb	0.6039	0.2	74534.4
Mo 202.032	0.9771	ppb	0.3305	33.8	14.2396
Na 330.237	4841.95	ppb	66.5951	1.4	288.639
Ni 231.604	5.6281	ppb	0.4619	8.2	16.8659
Pb 220.353	-0.0007	ppb	0.2863	41218.0	15.0271
Sb 206.834	-0.1553	ppb	1.7710	1140.1	5.2222
Se 196.026	4.0126	ppb	4.2423	105.7	2.7699
Sn 189.925	-0.4472	ppb	2.1340	477.2	-7.9776
Sr 216.596	163.181	ppb	0.7077	0.4	2750.29
Ti 334.941	0.0630	ppb	0.0204	32.4	103.978
Tl 190.794	-1.3993	ppb	2.4404	174.4	-12.4703
V 292.401	9.0196	ppb	0.2090	2.3	269.135
Zn 206.200	2.4727	ppb	0.6552	26.5	10.3537

640-44506-b-7-b (Samp) **7/31/2013, 8:59:01 PM** **Rack 2, Tube 15**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.0074	-0.0731u	-0.0458
Al 308.215	4.2683	8.9837	1.4905
As 188.980	0.6520	4.0479	2.8825
B 249.678	12.7321	12.1737	12.6822
Ba 389.178	95.1644	95.9174	95.6335
Be 313.042	0.0073	0.0040	0.0095
Ca 370.602	59137	59043	59140
Cd 226.502	0.2930	-0.0075	0.0307
Co 228.615	5.0534	4.4473	4.6320
Cr 267.716	0.4472	0.5570	0.4590
Cu 324.754	-0.9234u	-0.0186u	-0.4572u
Fe 271.441	311.121	306.285	314.540
K 766.491	478.680	475.603	478.124
Mg 279.078	3536.13	3539.05	3534.52
Mn 257.610	1642.96	1640.33	1644.30
Mo 202.032	0.5296	0.1615	0.9224
Na 330.237	2277.38	2403.26	2340.82
Ni 231.604	11.9772	10.8790	11.9552
Pb 220.353	-0.2025	-0.6974u	-0.8960u
Sb 206.834	0.5754	-1.0785u	-0.2367u
Se 196.026	2.2200	-3.9961u	4.3455
Sn 189.925	-0.0153	2.1906	-1.4956u
Sr 216.596	52.9948	52.7059	52.7215
Ti 334.941	0.1018	0.0532	0.0809
Tl 190.794	0.0813u	3.2633	2.7285
V 292.401	0.1512	0.1303	-0.1671u
Zn 206.200	1.6654	2.4183	0.8033

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0421	ppb	0.0330	78.4	-3.2504
Al 308.215	4.9142	ppb	3.7881	77.1	47.9247
As 188.980	2.5275	ppb	1.7255	68.3	-6.7102
B 249.678	12.5294	ppb	0.3090	2.5	325.932
Ba 389.178	95.5718	ppb	0.3803	0.4	2502.08
Be 313.042	0.0069	ppb	0.0027	39.7	-248.117
Ca 370.602	59107	ppb	54.98	0.1	187543
Cd 226.502	0.1054	ppb	0.1636	155.2	14.0689
Co 228.615	4.7109	ppb	0.3107	6.6	53.0246
Cr 267.716	0.4877	ppb	0.0603	12.4	64.3872
Cu 324.754	-0.4664	ppb	0.4525	97.0	222.357
Fe 271.441	310.649	ppb	4.1475	1.3	611.080
K 766.491	477.469	ppb	1.6400	0.3	16241.6
Mg 279.078	3536.57	ppb	2.3001	0.1	10096.1
Mn 257.610	1642.53	ppb	2.0179	0.1	443803
Mo 202.032	0.5378	ppb	0.3805	70.8	10.4943
Na 330.237	2340.48	ppb	62.9421	2.7	162.704
Ni 231.604	11.6038	ppb	0.6278	5.4	40.1498
Pb 220.353	-0.5986	ppb	0.3572	59.7	14.1740
Sb 206.834	-0.2466	ppb	0.8270	335.4	5.0893
Se 196.026	0.8565	ppb	4.3347	506.1	1.3120
Sn 189.925	0.2266	ppb	1.8550	818.6	-7.2535
Sr 216.596	52.8074	ppb	0.1625	0.3	899.966
Ti 334.941	0.0787	ppb	0.0244	31.0	-12.7664
Tl 190.794	2.0244	ppb	1.7039	84.2	-8.4013
V 292.401	0.0381	ppb	0.1780	466.9	-2.0364
Zn 206.200	1.6290	ppb	0.8081	49.6	8.8842

640-44506-g-8-b (Samp) **7/31/2013, 9:03:35 PM** **Rack 2, Tube 16**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.2742u	0.0306u	0.0098u
Al 308.215	96.7900	101.875	98.7606
As 188.980	-4.0104u	-0.2285u	2.8308
B 249.678	59.4650	59.6178	59.3992
Ba 389.178	12.1128	12.0995	12.9720
Be 313.042	0.0012	-0.0004	-0.0036
Ca 370.602	81541	82007	82007
Cd 226.502	0.0529	0.0547	0.1801
Co 228.615	0.6342	0.3647	0.8166
Cr 267.716	0.7496	0.8396	0.9242
Cu 324.754	-0.0709u	-0.6117u	-0.2994u
Fe 271.441	58.5714	56.6171	47.6794
K 766.491	730.175	734.647	734.095
Mg 279.078	22833.5	22868.4	22816.6
Mn 257.610	86.2593	86.4938	86.4392
Mo 202.032	0.9697	0.4840	0.5870
Na 330.237	11358.8	11211.0	11365.2
Ni 231.604	3.5216	3.7913	4.6702
Pb 220.353	1.9475	0.4628	1.9428
Sb 206.834	0.8503	-0.0045u	-3.0205u
Se 196.026	1.1646	-2.4464u	1.6066
Sn 189.925	0.0564	0.0926	1.4553
Sr 216.596	106.116	106.527	107.760
Ti 334.941	1.3595	1.2569	1.2697
Tl 190.794	-0.0309u	-1.2320u	0.1498
V 292.401	3.1815	3.3912	3.7781
Zn 206.200	12.5823	12.5799	13.7988

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0780	ppb	0.1703	218.5	-17.6569
Al 308.215	99.1420	ppb	2.5640	2.6	325.691
As 188.980	-0.4694	ppb	3.4270	730.1	-9.4109
B 249.678	59.4940	ppb	0.1121	0.2	1133.90
Ba 389.178	12.3947	ppb	0.4999	4.0	374.262
Be 313.042	-0.0009	ppb	0.0025	262.1	-256.803
Ca 370.602	81852	ppb	269.0	0.3	259680
Cd 226.502	0.0959	ppb	0.0729	76.0	12.7682
Co 228.615	0.6052	ppb	0.2274	37.6	-5.5176
Cr 267.716	0.8378	ppb	0.0873	10.4	77.7771
Cu 324.754	-0.3273	ppb	0.2715	82.9	231.051
Fe 271.441	54.2893	ppb	5.8071	10.7	119.481
K 766.491	732.972	ppb	2.4377	0.3	24833.8
Mg 279.078	22839.5	ppb	26.4202	0.1	65249.6
Mn 257.610	86.3974	ppb	0.1227	0.1	23640.1
Mo 202.032	0.6802	ppb	0.2559	37.6	11.7200
Na 330.237	11311.6	ppb	87.2107	0.8	614.130
Ni 231.604	3.9944	ppb	0.6006	15.0	10.4975
Pb 220.353	1.4510	ppb	0.8558	59.0	17.9507
Sb 206.834	-0.7249	ppb	2.0335	280.5	4.2921
Se 196.026	0.1082	ppb	2.2234	2054.0	0.4138
Sn 189.925	0.5348	ppb	0.7974	149.1	-6.8921
Sr 216.596	106.801	ppb	0.8554	0.8	1805.02
Ti 334.941	1.2954	ppb	0.0559	4.3	474.450
Tl 190.794	-0.3710	ppb	0.7511	202.4	-10.8367
V 292.401	3.4503	ppb	0.3026	8.8	101.072
Zn 206.200	12.9870	ppb	0.7030	5.4	28.6734

mb 680-286780/1-a (Samp) **7/31/2013, 9:08:22 PM** **Rack 2, Tube 17**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.2905	-0.2159u	0.5839
Al 308.215	15.1152	14.4264	11.2275
As 188.980	-4.7684u	3.9667	0.7623
B 249.678	2.0385	1.7880	1.6682
Ba 389.178	0.3297	0.2141	-0.0541u
Be 313.042	0.0128	0.0101	0.0164
Ca 370.602	58.17	59.93	58.88
Cd 226.502	0.1792	0.1032	0.0690
Co 228.615	0.7878	0.7146	0.7009
Cr 267.716	0.2605	0.4669	0.4123
Cu 324.754	0.2131	-0.0186u	-0.1121u
Fe 271.441	15.6352	19.4010	18.0734
K 766.491	14.6497	15.2444	14.2006
Mg 279.078	54.9060	53.1449	50.0941
Mn 257.610	0.3905	0.3890	0.3536
Mo 202.032	0.0228	0.4363	0.5699
Na 330.237	-7.3926u	42.2909	-49.3871u
Ni 231.604	0.8082	0.4708	0.5593
Pb 220.353	1.0165	-0.1373u	1.1970
Sb 206.834	0.3851	-0.8139u	2.2044
Se 196.026	-2.1027u	1.0810	5.9349
Sn 189.925	8.4530	13.1451	12.1498
Sr 216.596	0.4373	-0.0405u	0.1652
Ti 334.941	0.1882	0.1518	0.2832
Tl 190.794	0.0707	2.5119	0.7307
V 292.401	0.0720	0.0101	-0.0629u
Zn 206.200	-0.3349u	-0.3280u	0.8842

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.2195	ppb	0.4046	184.3	13.6377
Al 308.215	13.5897	ppb	2.0745	15.3	73.5949
As 188.980	-0.0131	ppb	4.4189	33621.1	-8.9996
B 249.678	1.8316	ppb	0.1889	10.3	142.734
Ba 389.178	0.1632	ppb	0.1969	120.6	-14.9207
Be 313.042	0.0131	ppb	0.0032	24.3	-256.929
Ca 370.602	58.99	ppb	0.8855	1.5	188.3
Cd 226.502	0.1171	ppb	0.0564	48.2	13.4372
Co 228.615	0.7345	ppb	0.0467	6.4	-3.7150
Cr 267.716	0.3799	ppb	0.1069	28.1	48.1345
Cu 324.754	0.0275	ppb	0.1675	609.8	253.604
Fe 271.441	17.7032	ppb	1.9100	10.8	49.3935
K 766.491	14.6983	ppb	0.5236	3.6	679.309
Mg 279.078	52.7150	ppb	2.4346	4.6	183.269
Mn 257.610	0.3777	ppb	0.0209	5.5	184.878
Mo 202.032	0.3430	ppb	0.2853	83.2	8.8453
Na 330.237	-4.8296	ppb	45.8927	950.2	44.7747
Ni 231.604	0.6128	ppb	0.1750	28.6	-2.6838
Pb 220.353	0.6920	ppb	0.7239	104.6	16.3671
Sb 206.834	0.5919	ppb	1.5198	256.8	6.4683
Se 196.026	1.6377	ppb	4.0476	247.2	1.2892
Sn 189.925	11.2493	ppb	2.4723	22.0	5.0158
Sr 216.596	0.1873	ppb	0.2397	127.9	11.7775
Ti 334.941	0.2077	ppb	0.0678	32.7	10.6464
Tl 190.794	1.1044	ppb	1.2628	114.3	-8.6209
V 292.401	0.0064	ppb	0.0675	1049.9	-2.9569
Zn 206.200	0.0738	ppb	0.7019	951.3	6.1714

lcs 680-286780/2-a (Samp) **7/31/2013, 9:12:57 PM** **Rack 2, Tube 18**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	52.2201	52.6297	52.1632
Al 308.215	4711.99	4760.46	4729.94
As 188.980	110.521	104.047	103.244
B 249.678	185.761	187.710	187.167
Ba 389.178	104.166	104.214	103.400
Be 313.042	50.4316	51.0419	50.8104
Ca 370.602	5065	5126	5082
Cd 226.502	51.0030	51.3670	50.9463
Co 228.615	52.0602	52.6333	52.8549
Cr 267.716	105.700	106.803	106.065
Cu 324.754	104.178	105.290	105.772
Fe 271.441	4971.51	5013.52	5002.39
K 766.491	4828.54	4908.37	4861.58
Mg 279.078	4945.64	5014.00	4980.42
Mn 257.610	527.225	532.567	529.668
Mo 202.032	102.313	103.112	104.328
Na 330.237	4604.87	4843.95	4817.08
Ni 231.604	100.940	103.519	101.047
Pb 220.353	52.1789	52.5754	53.0342
Sb 206.834	49.4610	49.7441	52.4503
Se 196.026	93.1887	98.9233	100.822
Sn 189.925	210.483	218.235	213.422
Sr 216.596	104.294	105.564	104.195
Ti 334.941	99.2410	100.670	100.124
Tl 190.794	37.6898	41.4805	40.6622
V 292.401	101.118	102.546	102.380
Zn 206.200	100.454	104.199	102.996

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	52.3376	ppb	0.2545	0.5	4509.53
Al 308.215	4734.13	ppb	24.5039	0.5	13991.9
As 188.980	105.937	ppb	3.9900	3.8	86.6184
B 249.678	186.879	ppb	1.0060	0.5	3311.95
Ba 389.178	103.927	ppb	0.4568	0.4	2734.21
Be 313.042	50.7613	ppb	0.3081	0.6	102313
Ca 370.602	5091	ppb	31.54	0.6	15828
Cd 226.502	51.1054	ppb	0.2283	0.4	2780.49
Co 228.615	52.5162	ppb	0.4101	0.8	734.703
Cr 267.716	106.189	ppb	0.5621	0.5	6732.65
Cu 324.754	105.080	ppb	0.8175	0.8	6930.07
Fe 271.441	4995.81	ppb	21.7615	0.4	9593.20
K 766.491	4866.16	ppb	40.1108	0.8	163826
Mg 279.078	4980.02	ppb	34.1819	0.7	14241.1
Mn 257.610	529.820	ppb	2.6744	0.5	143263
Mo 202.032	103.251	ppb	1.0145	1.0	888.508
Na 330.237	4755.30	ppb	130.967	2.8	281.067
Ni 231.604	101.835	ppb	1.4593	1.4	391.821
Pb 220.353	52.5962	ppb	0.4280	0.8	123.314
Sb 206.834	50.5518	ppb	1.6503	3.3	89.2309
Se 196.026	97.6447	ppb	3.9741	4.1	58.0269
Sn 189.925	214.047	ppb	3.9131	1.8	231.397
Sr 216.596	104.684	ppb	0.7637	0.7	1759.40
Ti 334.941	100.012	ppb	0.7211	0.7	31886.0
Tl 190.794	39.9442	ppb	1.9947	5.0	47.5200
V 292.401	102.015	ppb	0.7810	0.8	3050.72
Zn 206.200	102.550	ppb	1.9131	5779	184.362

680-92687-a-1-a (Samp) **7/31/2013, 9:17:32 PM** **Rack 2, Tube 19**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	-1.0446u	-1.5766u	-1.6304u
Al 308.215	84450.0	85047.2	86433.3
As 188.980	139.136	128.578	131.652
B 249.678	16.4898u	15.8673u	14.2227u
Ba 389.178	943.760	949.008	957.890
Be 313.042	3.8815	3.9186	3.9339
Ca 370.602	564698	565814	575808
Cd 226.502	10.7579	11.0922	11.0011
Co 228.615	56.9580	59.3497	59.0674
Cr 267.716	737.644	744.505	749.786
Cu 324.754	726.653	735.856	743.420
Fe 271.441	288435	290908	292851
K 766.491	29281.1	29145.1	29230.3
Mg 279.078	211928	213313	214533
Mn 257.610	3055.35	3080.55	3106.58
Mo 202.032	14.3877	15.7553	15.1777
Na 330.237	1036.38u	735.350u	1154.73u
Ni 231.604	282.978	288.099	286.818
Pb 220.353	2257.77	2278.31	2302.49
Sb 206.834	49.4538	55.5914	58.5630
Se 196.026	7.6126	11.0045	12.9570
Sn 189.925	88.2395	88.3856	91.0846
Sr 216.596	759.507	767.822	774.479
Ti 334.941	5187.33	5206.98	5220.83
Tl 190.794	-4.9378u	-9.4334u	-5.3362u
V 292.401	196.024	198.041	198.879
Zn 206.200	3084.93	3128.28	3145.24

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.4172	ppb	0.3238	22.8	-156.994
Al 308.215	85310.2	ppb	1017.45	1.2	251672
As 188.980	133.122	ppb	5.4302	4.1	108.334
B 249.678	15.5266	ppb	1.1713	7.5	-314.864
Ba 389.178	950.219	ppb	7.1426	0.8	26041.2
Be 313.042	3.9113	ppb	0.0269	0.7	7819.04
Ca 370.602	568773	ppb	6118	1.1	1784340
Cd 226.502	10.9504	ppb	0.1728	1.6	1802.30
Co 228.615	58.4584	ppb	1.3070	2.2	979.879
Cr 267.716	743.978	ppb	6.0880	0.8	47122.7
Cu 324.754	735.309	ppb	8.3966	1.1	47060.9
Fe 271.441	290731	ppb	2213.58	0.8	556900
K 766.491	29218.9	ppb	68.7329	0.2	982770
Mg 279.078	213258	ppb	1303.23	0.6	608964
Mn 257.610	3080.83	ppb	25.6157	0.8	835258
Mo 202.032	15.1069	ppb	0.6865	4.5	117.556
Na 330.237	975.487	ppb	216.220	22.2	-54.6386
Ni 231.604	285.965	ppb	2.6648	0.9	1118.22
Pb 220.353	2279.52	ppb	22.3863	1.0	4723.26
Sb 206.834	54.5361	ppb	4.6454	8.5	117.011
Se 196.026	10.5247	ppb	2.7043	25.7	8.6126
Sn 189.925	89.2366	ppb	1.6021	1.8	92.3857
Sr 216.596	767.269	ppb	7.5015	1.0	13301.2
Ti 334.941	5205.05	ppb	16.8326	0.3	1662124
Tl 190.794	-6.5691	ppb	2.4885	37.9	-48.6480
V 292.401	197.648	ppb	1.4676	0.7	6005.99
Zn 206.200	3119.48	ppb	31.1033	1.0	5442.61

680-92687-a-1-a SD^5 (Samp) **7/31/2013, 9:22:07 PM** **Rack 2, Tube 20**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	-0.1356u	-0.3360u	-0.5676u
Al 308.215	18353.8	17630.7	17166.0
As 188.980	33.9465	25.2408	27.5174
B 249.678	3.1074u	2.8847u	3.6978u
Ba 389.178	212.425	203.058	198.376
Be 313.042	0.8904	0.8461	0.8204
Ca 370.602	126336	121279	118502
Cd 226.502	2.5825	2.4303	2.1530
Co 228.615	14.2182	13.3540	12.5217
Cr 267.716	169.113	162.221	158.027
Cu 324.754	156.796	150.788	146.888
Fe 271.441	66147.4	63514.3	61931.3
K 766.491	5092.51	4920.84	4806.89
Mg 279.078	46898.3	44934.6	43735.2
Mn 257.610	714.298	686.683	669.326
Mo 202.032	3.0925	2.7911	3.5394
Na 330.237	191.362u	246.172u	197.516u
Ni 231.604	68.7806	66.1986	63.6568
Pb 220.353	529.438	504.398	490.773
Sb 206.834	12.6142	15.8034	13.9586
Se 196.026	-0.1484	2.2502	0.1320
Sn 189.925	21.2593	16.7349	16.4703
Sr 216.596	175.633	168.665	163.946
Ti 334.941	1194.04	1146.37	1118.14
Tl 190.794	0.6282u	0.9257u	-0.8618u
V 292.401	43.8357	42.7660	41.5070
Zn 206.200	728.383	693.313	675.105

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.3464	ppb	0.2162	62.4	-41.5660
Al 308.215	17716.8	ppb	598.569	3.4	52292.4
As 188.980	28.9016	ppb	4.5149	15.6	16.4574
B 249.678	3.2300	ppb	0.4202	13.0	14.6282
Ba 389.178	204.620	ppb	7.1535	3.5	5592.40
Be 313.042	0.8523	ppb	0.0354	4.2	1481.32
Ca 370.602	122039	ppb	3972	3.3	382764
Cd 226.502	2.3886	ppb	0.2177	9.1	400.367
Co 228.615	13.3646	ppb	0.8483	6.3	211.889
Cr 267.716	163.120	ppb	5.5978	3.4	10350.8
Cu 324.754	151.490	ppb	4.9915	3.3	9897.02
Fe 271.441	63864.4	ppb	2129.71	3.3	122345
K 766.491	4940.08	ppb	143.776	2.9	166312
Mg 279.078	45189.4	ppb	1596.89	3.5	129065
Mn 257.610	690.103	ppb	22.6801	3.3	187132
Mo 202.032	3.1410	ppb	0.3765	12.0	28.9219
Na 330.237	211.684	ppb	30.0261	14.2	22.7920
Ni 231.604	66.2120	ppb	2.5620	3.9	254.908
Pb 220.353	508.203	ppb	19.6116	3.9	1064.59
Sb 206.834	14.1254	ppb	1.6011	11.3	33.5206
Se 196.026	0.7446	ppb	1.3114	176.1	1.2251
Sn 189.925	18.1548	ppb	2.6918	14.8	12.7916
Sr 216.596	169.414	ppb	5.8796	3.5	2942.46
Ti 334.941	1152.85	ppb	38.3604	3.3	368084
Tl 190.794	0.2307	ppb	0.9577	415.1	-16.2326
V 292.401	42.7029	ppb	1.1656	2.7	1295.59
Zn 206.200	698.933	ppb	27.0799	3.9	1224.13

680-92687-a-1-a PDS (Samp) **7/31/2013, 9:26:42 PM** **Rack 2, Tube 21**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	16.7701	17.1086	16.6790
Al 308.215	85497.2	88439.6	86418.2
As 188.980	330.931	342.719	331.880
B 249.678	465.352	480.328	471.136
Ba 389.178	1112.75	1150.00	1123.13
Be 313.042	49.7839	51.3287	50.2367
Ca 370.602	556349	575103	560822
Cd 226.502	54.9389	56.7674	55.7557
Co 228.615	237.300	245.050	237.534
Cr 267.716	909.902	942.240	921.693
Cu 324.754	912.701	942.918	926.242
Fe 271.441	284565	293948	287527
K 766.491	31011.5	31708.4	31364.5
Mg 279.078	209347	215507	210800
Mn 257.610	3181.71	3290.50	3218.40
Mo 202.032	202.692	208.395	202.798
Na 330.237	2971.45u	2910.95u	2973.48u
Ni 231.604	457.416	466.919	458.186
Pb 220.353	2398.68	2477.68	2426.30
Sb 206.834	241.093	245.669	244.634
Se 196.026	193.266	198.562	197.111
Sn 189.925	271.107	276.412	278.676
Sr 216.596	928.817	960.825	937.928
Ti 334.941	5223.15	5400.78	5284.92
Tl 190.794	168.898	170.160	165.544
V 292.401	375.040	388.374	380.467
Zn 206.200	3210.60	3302.01	3244.53

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	16.8526	ppb	0.2264	1.3	1412.91
Al 308.215	86785.0	ppb	1505.11	1.7	256008
As 188.980	335.177	ppb	6.5490	2.0	290.731
B 249.678	472.272	ppb	7.5523	1.6	7542.10
Ba 389.178	1128.63	ppb	19.2222	1.7	30722.3
Be 313.042	50.4498	ppb	0.7941	1.6	101857
Ca 370.602	564091	ppb	9795	1.7	1769719
Cd 226.502	55.8207	ppb	0.9160	1.6	4210.01
Co 228.615	239.962	ppb	4.4085	1.8	3565.76
Cr 267.716	924.612	ppb	16.3651	1.8	58526.6
Cu 324.754	927.287	ppb	15.1354	1.6	59257.6
Fe 271.441	288680	ppb	4796.79	1.7	553000
K 766.491	31361.5	ppb	348.504	1.1	1054823
Mg 279.078	211885	ppb	3220.12	1.5	605040
Mn 257.610	3230.20	ppb	55.3516	1.7	875590
Mo 202.032	204.628	ppb	3.2625	1.6	1738.27
Na 330.237	2951.96	ppb	35.5294	1.2	43.2815
Ni 231.604	460.840	ppb	5.2785	1.1	1799.16
Pb 220.353	2434.22	ppb	40.0884	1.6	5040.76
Sb 206.834	243.798	ppb	2.3997	1.0	428.615
Se 196.026	196.313	ppb	2.7366	1.4	118.103
Sn 189.925	275.399	ppb	3.8849	1.4	300.189
Sr 216.596	942.523	ppb	16.4912	1.7	16214.7
Ti 334.941	5302.95	ppb	90.1759	1.7	1693359
Tl 190.794	168.201	ppb	2.3857	1.4	207.543
V 292.401	381.294	ppb	6.7049	1.8	11501.9
Zn 206.200	3252.38	ppb	46.2061	1.4	5673.42

680-92687-a-1-b ms (Samp) **7/31/2013, 9:31:18 PM** **Rack 2, Tube 22**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	52.4441	51.9936	51.9598
Al 308.215	101384	101170	100765
As 188.980	231.818	230.798	223.928
B 249.678	191.039	192.690	191.737
Ba 389.178	1787.59	1789.64	1784.45
Be 313.042	53.3554	53.4210	53.2248
Ca 370.602	405397	409430	403611
Cd 226.502	60.0828	59.7936	59.3729
Co 228.615	114.468	114.420	115.588
Cr 267.716	585.727	585.784	583.237
Cu 324.754	1022.46	1039.01	1008.45
Fe 271.441	301450	301463	300741
K 766.491	34042.9	34113.5	34032.0
Mg 279.078	110694	110797	110603
Mn 257.610	5040.13	5019.73	5006.05
Mo 202.032	112.600	113.981	113.806
Na 330.237	5946.40	6300.60	6417.86
Ni 231.604	256.297	259.654	257.306
Pb 220.353	2028.49	2031.55	2019.52
Sb 206.834	70.9965	63.6774	80.2581
Se 196.026	98.4801	115.140	105.483
Sn 189.925	280.825	274.316	269.548
Sr 216.596	826.733	829.358	824.995
Ti 334.941	5614.01	5624.02	5594.32
Tl 190.794	30.8569	36.8969	34.2335
V 292.401	303.109	303.760	302.540
Zn 206.200	3523.08	3534.04	3522.86

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	52.1325	ppb	0.2704	0.5	4474.53
Al 308.215	101106	ppb	314.335	0.3	298261
As 188.980	228.848	ppb	4.2912	1.9	194.793
B 249.678	191.822	ppb	0.8287	0.4	2690.78
Ba 389.178	1787.23	ppb	2.6144	0.1	47740.3
Be 313.042	53.3337	ppb	0.0999	0.2	107650
Ca 370.602	406146	ppb	2981	0.7	1267839
Cd 226.502	59.7498	ppb	0.3569	0.6	4472.21
Co 228.615	114.826	ppb	0.6612	0.6	1791.49
Cr 267.716	584.916	ppb	1.4545	0.2	37092.1
Cu 324.754	1023.31	ppb	15.2985	1.5	65358.6
Fe 271.441	301218	ppb	412.831	0.1	576995
K 766.491	34062.8	ppb	44.2630	0.1	1145665
Mg 279.078	110698	ppb	96.8547	0.1	316057
Mn 257.610	5021.97	ppb	17.1523	0.3	1358657
Mo 202.032	113.462	ppb	0.7517	0.7	957.946
Na 330.237	6221.62	ppb	245.454	3.9	199.083
Ni 231.604	257.752	ppb	1.7224	0.7	1008.41
Pb 220.353	2026.52	ppb	6.2518	0.3	4203.59
Sb 206.834	71.6440	ppb	8.3093	11.6	141.981
Se 196.026	106.368	ppb	8.3649	7.9	65.6898
Sn 189.925	274.896	ppb	5.6611	2.1	299.539
Sr 216.596	827.029	ppb	2.1965	0.3	14285.7
Ti 334.941	5610.78	ppb	15.1134	0.3	1791074
Tl 190.794	33.9958	ppb	3.0270	8.9	8.5708
V 292.401	303.137	ppb	0.6102	0.2	9184.73
Zn 206.200	3526.66	ppb	6.3957	581.2	6153.01

680-92687-a-1-c msd (Samp) **7/31/2013, 9:35:54 PM** **Rack 2, Tube 23**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	54.8863	54.2099	54.8046
Al 308.215	93356.7	93110.9	93296.8
As 188.980	284.068	275.976	284.526
B 249.678	196.903	197.806	196.289
Ba 389.178	1019.92	1019.80	1021.43
Be 313.042	52.2738	52.0940	52.1387
Ca 370.602	725617	725861	722944
Cd 226.502	54.8906	54.8042	54.6914
Co 228.615	103.050	103.628	103.777
Cr 267.716	625.501	622.392	624.266
Cu 324.754	818.771	820.628	817.634
Fe 271.441	257990	257048	257302
K 766.491	37982.3	37651.1	37630.7
Mg 279.078	248136	247211	247133
Mn 257.610	3465.94	3455.13	3453.17
Mo 202.032	108.138	107.129	109.211
Na 330.237	6439.77	6369.54	6507.17
Ni 231.604	290.631	290.636	290.180
Pb 220.353	1986.78	1975.51	1984.58
Sb 206.834	81.0604	77.8539	77.5194
Se 196.026	90.8667	98.8897	96.3288
Sn 189.925	251.445	246.534	249.318
Sr 216.596	950.072	947.252	943.971
Ti 334.941	5031.21	5013.90	5025.27
Tl 190.794	33.8808	27.3919	29.6546
V 292.401	285.622	284.330	285.338
Zn 206.200	2870.96	2847.32	2862.73

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	54.6336	ppb	0.3692	0.7	4672.95
Al 308.215	93254.8	ppb	128.137	0.1	275102
As 188.980	281.523	ppb	4.8097	1.7	242.865
B 249.678	196.999	ppb	0.7634	0.4	2884.30
Ba 389.178	1020.39	ppb	0.9079	0.1	27933.7
Be 313.042	52.1688	ppb	0.0936	0.2	105414
Ca 370.602	724807	ppb	1618	0.2	2281921
Cd 226.502	54.7954	ppb	0.0999	0.2	4026.67
Co 228.615	103.485	ppb	0.3841	0.4	1611.86
Cr 267.716	624.053	ppb	1.5653	0.3	39539.8
Cu 324.754	819.011	ppb	1.5113	0.2	52366.7
Fe 271.441	257447	ppb	487.074	0.2	493153
K 766.491	37754.7	ppb	197.358	0.5	1269816
Mg 279.078	247493	ppb	558.069	0.2	706704
Mn 257.610	3458.08	ppb	6.8775	0.2	937387
Mo 202.032	108.159	ppb	1.0412	1.0	915.213
Na 330.237	6438.83	ppb	68.8165	1.1	234.530
Ni 231.604	290.482	ppb	0.2619	0.1	1134.67
Pb 220.353	1982.29	ppb	5.9708	0.3	4108.99
Sb 206.834	78.8112	ppb	1.9550	2.5	152.809
Se 196.026	95.3617	ppb	4.0980	4.3	58.5693
Sn 189.925	249.099	ppb	2.4628	1.0	270.929
Sr 216.596	947.098	ppb	3.0532	0.3	16281.4
Ti 334.941	5023.46	ppb	8.7967	0.2	1604348
Tl 190.794	30.3091	ppb	3.2936	10.9	8.2753
V 292.401	285.097	ppb	0.6787	0.2	8630.91
Zn 206.200	2860.34	ppb	11.9991	0.4	4991.13

680-92687-a-2-a (Samp) **7/31/2013, 9:40:30 PM** **Rack 2, Tube 24**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.1971	-0.6189u	0.1121
Al 308.215	75827.1	75413.1	76389.2
As 188.980	199.157	204.263	209.923
B 249.678	90.1775	91.4484	91.4926
Ba 389.178	1833.08	1828.71	1841.52
Be 313.042	8.8180	8.8094	8.8503
Ca 370.602	233153	234260	235632
Cd 226.502	13.0524	12.9310	13.0469
Co 228.615	117.837	115.521	117.278
Cr 267.716	951.437	949.890	956.519
Cu 324.754	3796.72	3824.50	3807.13
Fe 271.441	321018	318407	320385
K 766.491	14890.3	14883.9	14935.3
Mg 279.078	95086.0	95089.7	95699.6
Mn 257.610	8179.02	8155.97	8209.86
Mo 202.032	28.7662	29.0389	29.4503
Na 330.237	-107.125u	33.8757u	-49.1030u
Ni 231.604	217.340	218.973	220.515
Pb 220.353	7172.34	7170.27	7234.10
Sb 206.834	198.488	201.449	196.762
Se 196.026	14.6754	13.1065	20.0689
Sn 189.925	366.817	367.751	371.710
Sr 216.596	350.706	350.812	354.375
Ti 334.941	1941.08	1936.59	1945.29
Tl 190.794	-0.7071u	-1.3294u	-4.1135u
V 292.401	271.941	270.983	272.363
Zn 206.200	6438.60	6430.38	6503.45

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.2347	ppb	0.3669	156.4	-3.3908
Al 308.215	75876.5	ppb	489.960	0.6	223837
As 188.980	204.447	ppb	5.3854	2.6	172.171
B 249.678	91.0395	ppb	0.7469	0.8	913.311
Ba 389.178	1834.44	ppb	6.5110	0.4	48964.1
Be 313.042	8.8259	ppb	0.0215	0.2	17622.6
Ca 370.602	234348	ppb	1242	0.5	719412
Cd 226.502	13.0101	ppb	0.0686	0.5	2032.35
Co 228.615	116.879	ppb	1.2086	1.0	1723.47
Cr 267.716	952.615	ppb	3.4680	0.4	60325.9
Cu 324.754	3809.45	ppb	14.0337	0.4	242321
Fe 271.441	319937	ppb	1362.34	0.4	612850
K 766.491	14903.2	ppb	28.0482	0.2	501355
Mg 279.078	95291.8	ppb	353.190	0.4	272010
Mn 257.610	8181.62	ppb	27.0360	0.3	2212059
Mo 202.032	29.0851	ppb	0.3444	1.2	235.227
Na 330.237	-40.7838	ppb	70.8673	173.8	-150.919
Ni 231.604	218.943	ppb	1.5876	0.7	857.739
Pb 220.353	7192.24	ppb	36.2695	0.5	14832.3
Sb 206.834	198.899	ppb	2.3705	1.2	359.284
Se 196.026	15.9503	ppb	3.6521	22.9	13.4269
Sn 189.925	368.759	ppb	2.5977	0.7	404.213
Sr 216.596	351.964	ppb	2.0883	0.6	6354.36
Ti 334.941	1940.99	ppb	4.3474	0.2	619890
Tl 190.794	-2.0500	ppb	1.8139	88.5	-47.9822
V 292.401	271.762	ppb	0.7074	0.3	8168.66
Zn 206.200	6457.48	ppb	40.0238	0.6	11259.2

680-92687-a-3-a (Samp) **7/31/2013, 9:54:29 PM** **Rack 2, Tube 27**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-1.7303u	-2.0143u	-0.8752u
Al 308.215	132884	132884	131813
As 188.980	179.670	180.965	181.244
B 249.678	36.5519u	36.7290u	37.6221u
Ba 389.178	1475.20	1472.08	1472.05
Be 313.042	5.8119	5.8032	5.8117
Ca 370.602	217662	217238	218176
Cd 226.502	8.0391	8.0073	8.2011
Co 228.615	137.705	135.642	136.292
Cr 267.716	383.049	382.729	382.136
Cu 324.754	815.847	811.639	821.479
Fe 271.441	303297	303274	302127
K 766.491	20142.9	19989.4	19780.7
Mg 279.078	45659.0	45536.1	45622.2
Mn 257.610	9251.68	9287.78	9302.63
Mo 202.032	19.2524	17.7381	18.3406
Na 330.237	-12.7104u	353.703u	99.7090u
Ni 231.604	147.685	149.111	150.271
Pb 220.353	2850.22	2840.40	2850.79
Sb 206.834	28.8619	33.8973	38.7448
Se 196.026	10.6180	7.7207	16.5100
Sn 189.925	107.904	104.446	107.068
Sr 216.596	286.938	286.137	285.986
Ti 334.941	1438.75	1436.07	1435.89
Tl 190.794	0.2107u	3.2667u	0.5179u
V 292.401	273.445	272.925	273.021
Zn 206.200	3542.78	3550.16	3550.27

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.5400	ppb	0.5930	38.5	-105.480
Al 308.215	132527	ppb	618.392	0.5	390948
As 188.980	180.627	ppb	0.8400	0.5	151.762
B 249.678	36.9676	ppb	0.5737	1.6	24.2247
Ba 389.178	1473.11	ppb	1.8073	0.1	39297.7
Be 313.042	5.8089	ppb	0.0050	0.1	11527.9
Ca 370.602	217692	ppb	469.5	0.2	667671
Cd 226.502	8.0825	ppb	0.1039	1.3	1695.86
Co 228.615	136.547	ppb	1.0546	0.8	1987.58
Cr 267.716	382.638	ppb	0.4635	0.1	24334.6
Cu 324.754	816.322	ppb	4.9371	0.6	52210.1
Fe 271.441	302900	ppb	668.789	0.2	580217
K 766.491	19971.0	ppb	181.798	0.9	671779
Mg 279.078	45605.8	ppb	63.0559	0.1	130078
Mn 257.610	9280.69	ppb	26.2029	0.3	2508416
Mo 202.032	18.4437	ppb	0.7624	4.1	145.203
Na 330.237	146.901	ppb	187.710	127.8	-92.6615
Ni 231.604	149.022	ppb	1.2953	0.9	584.677
Pb 220.353	2847.14	ppb	5.8434	0.2	5894.63
Sb 206.834	33.8347	ppb	4.9418	14.6	78.0244
Se 196.026	11.6162	ppb	4.4789	38.6	11.1290
Sn 189.925	106.473	ppb	1.8042	1.7	111.422
Sr 216.596	286.353	ppb	0.5119	0.2	5235.16
Ti 334.941	1436.90	ppb	1.6040	0.1	458771
Tl 190.794	1.3318	ppb	1.6827	126.4	-42.1209
V 292.401	273.130	ppb	0.2766	0.1	8235.26
Zn 206.200	3547.74	ppb	4.2947	0.1	6190.62

680-92687-a-4-a (Samp) **7/31/2013, 9:59:04 PM** **Rack 2, Tube 28**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-3.0408u	-3.5547u	-2.9227u
Al 308.215	151555	151106	150771
As 188.980	104.952	112.202	104.392
B 249.678	6.6349u	7.0531u	6.3468u
Ba 389.178	1598.93	1602.70	1601.54
Be 313.042	5.3337	5.3537	5.3500
Ca 370.602	38705	38723	38703
Cd 226.502	-4.2023	-4.1046	-4.2239
Co 228.615	356.228	355.160	356.364
Cr 267.716	399.854	400.324	399.804
Cu 324.754	213.609	213.802	215.484
Fe 271.441	275311	275677	275591
K 766.491	11375.8	11467.0	11468.0
Mg 279.078	12951.9	12970.2	12961.8
Mn 257.610	30505.0x	30685.2x	30642.5x
Mo 202.032	22.4056	23.5057	24.1303
Na 330.237	971.396u	1067.91u	1139.62u
Ni 231.604	108.295	106.843	105.892
Pb 220.353	653.733	657.204	650.716
Sb 206.834	7.2945	9.2641	5.6372
Se 196.026	2.5308	-3.9860	0.8951
Sn 189.925	34.5798	33.9269	34.4547
Sr 216.596	164.244	163.964	163.644
Ti 334.941	1194.93	1199.05	1198.98
Tl 190.794	38.5403	41.6169	40.4102
V 292.401	359.693	359.304	358.870
Zn 206.200	435.323	434.117	437.476

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-3.1727b	ppb	0.3360	10.6	-125.913
Al 308.215	151144b	ppb	393.510	0.3	445855
As 188.980	107.182b	ppb	4.3562	4.1	86.0810
B 249.678	6.6783b	ppb	0.3551	5.3	-430.768
Ba 389.178	1601.06b	ppb	1.9319	0.1	42517.4
Be 313.042	5.3458b	ppb	0.0106	0.2	10516.8
Ca 370.602	38710b	ppb	10.97	0.0	102497
Cd 226.502	-4.1769b	ppb	0.0636	1.5	920.949
Co 228.615	355.917b	ppb	0.6591	0.2	5109.16
Cr 267.716	399.994b	ppb	0.2869	0.1	25541.7
Cu 324.754	214.298b	ppb	1.0318	0.5	13962.1
Fe 271.441	275526b	ppb	191.093	0.1	527819
K 766.491	11436.9b	ppb	52.9276	0.5	384790
Mg 279.078	12961.3b	ppb	9.1814	0.1	36386.0
Mn 257.610	30610.9xb	ppb	94.1881	0.3	8269794
Mo 202.032	23.3472b	ppb	0.8732	3.7	188.576
Na 330.237	1059.64b	ppb	84.4150	8.0	7.2632
Ni 231.604	107.010b	ppb	1.2102	1.1	419.415
Pb 220.353	653.885b	ppb	3.2465	0.5	1387.30
Sb 206.834	7.3986b	ppb	1.8157	24.5	33.4821
Se 196.026	-0.1867b	ppb	3.3904	1816.0	10.3315
Sn 189.925	34.3204b	ppb	0.3465	1.0	30.7787
Sr 216.596	163.951b	ppb	0.3001	0.2	3125.54
Ti 334.941	1197.66b	ppb	2.3564	0.2	382250
Tl 190.794	40.1891b	ppb	1.5501	3.9	3.7246
V 292.401	359.289b	ppb	0.4116	0.1	10827.7
Zn 206.200	435.638b	ppb	1.7017	0.4	766.802

680-92687-a-5-a (Samp) **7/31/2013, 10:03:39 PM** **Rack 2, Tube 29**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	-1.7001u	-2.0922u	-1.5103u
Al 308.215	178796	179662	168661
As 188.980	93.9608	90.4223	90.8244
B 249.678	23.5020u	22.9971u	24.2440u
Ba 389.178	742.620	742.378	698.951
Be 313.042	6.8023	6.7876	6.3481
Ca 370.602	61458	61698	58738
Cd 226.502	53.9680	53.8926	49.4099
Co 228.615	63.2473	64.0043	60.4672
Cr 267.716	340.078	340.616	320.223
Cu 324.754	497.820	493.016	473.244
Fe 271.441	337586	338450	317984
K 766.491	21379.6	21329.3	20230.4
Mg 279.078	17797.5	17811.7	16696.5
Mn 257.610	3667.35	3673.75	3462.49
Mo 202.032	12.9944	13.7448	11.5859
Na 330.237	-1120.18u	-1185.49u	-856.313u
Ni 231.604	180.233	181.303	172.991
Pb 220.353	1168.03	1174.74	1099.00
Sb 206.834	4.1319	11.2682	4.6724
Se 196.026	14.9056	1.4208	5.7762
Sn 189.925	53.5664	47.8969	45.1840
Sr 216.596	157.937	158.078	147.373
Ti 334.941	941.317	939.608	883.524
Tl 190.794	-6.0291u	-8.0632u	-6.3235u
V 292.401	306.927	307.403	288.379
Zn 206.200	12693.5	12746.9	11985.5

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.7675	ppb	0.2967	16.8	-146.936
Al 308.215	175706	ppb	6116.73	3.5	518321
As 188.980	91.7358	ppb	1.9373	2.1	71.7188
B 249.678	23.5810	ppb	0.6272	2.7	-273.502
Ba 389.178	727.983	ppb	25.1425	3.5	19686.7
Be 313.042	6.6460	ppb	0.2581	3.9	13167.4
Ca 370.602	60631	ppb	1644	2.7	166701
Cd 226.502	52.4235	ppb	2.6101	5.0	4200.89
Co 228.615	62.5729	ppb	1.8625	3.0	919.121
Cr 267.716	333.639	ppb	11.6220	3.5	21215.1
Cu 324.754	488.027	ppb	13.0254	2.7	31368.9
Fe 271.441	331340	ppb	11574.9	3.5	634682
K 766.491	20979.8	ppb	649.426	3.1	705702
Mg 279.078	17435.2	ppb	639.832	3.7	49749.5
Mn 257.610	3601.20	ppb	120.168	3.3	974073
Mo 202.032	12.7750	ppb	1.0960	8.6	94.9874
Na 330.237	-1053.99	ppb	174.283	16.5	-288.743
Ni 231.604	178.176	ppb	4.5220	2.5	699.442
Pb 220.353	1147.26	ppb	41.9287	3.7	2399.28
Sb 206.834	6.6908	ppb	3.9733	59.4	33.6721
Se 196.026	7.3675	ppb	6.8818	93.4	7.0694
Sn 189.925	48.8825	ppb	4.2772	8.7	47.0424
Sr 216.596	154.463	ppb	6.1400	4.0	3045.44
Ti 334.941	921.483	ppb	32.8845	3.6	294151
Tl 190.794	-6.8053	ppb	1.0993	16.2	-53.0882
V 292.401	300.903	ppb	10.8486	3.6	9067.48
Zn 206.200	12475.3	ppb	425.022	3.4	21749.1

680-92687-a-6-a (Samp) **7/31/2013, 10:08:14 PM** **Rack 2, Tube 30**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-1.5749u	-2.0127u	-2.0463u
Al 308.215	92729.2	93687.1	93979.8
As 188.980	211.347	209.536	213.500
B 249.678	-5.1802u	-4.8828u	-6.1593u
Ba 389.178	1208.29	1222.91	1225.12
Be 313.042	4.8145	4.8746	4.8862
Ca 370.602	518858	525665	526918
Cd 226.502	11.7854	11.8063	12.1813
Co 228.615	166.572	170.490	171.216
Cr 267.716	308.241	311.679	312.172
Cu 324.754	634.197	638.574	641.858
Fe 271.441	517915	525410	525418
K 766.491	13266.1	13318.2	13379.1
Mg 279.078	242023	245067	245088
Mn 257.610	11605.4	11760.4	11737.7
Mo 202.032	20.6905	22.3431	20.9212
Na 330.237	99.2676u	-28.9834u	-8.1641u
Ni 231.604	117.158	118.015	118.458
Pb 220.353	17545.3	17707.2	17678.7
Sb 206.834	18.8236	24.1452	29.3723
Se 196.026	15.6194	22.5252	11.2194
Sn 189.925	82.5713	84.5617	85.3651
Sr 216.596	423.178	427.664	429.353
Ti 334.941	830.795	841.423	842.700
Tl 190.794	-8.4620u	-9.3155u	-7.2492u
V 292.401	243.973	246.305	246.010
Zn 206.200	4434.08	4492.59	4476.46

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.8780	ppb	0.2630	14.0	-135.823
Al 308.215	93465.3	ppb	654.124	0.7	275723
As 188.980	211.461	ppb	1.9841	0.9	175.885
B 249.678	-5.4074	ppb	0.6679	12.4	-1228.57
Ba 389.178	1218.77	ppb	9.1475	0.8	33559.1
Be 313.042	4.8584	ppb	0.0385	0.8	9700.27
Ca 370.602	523813	ppb	4337	0.8	1621179
Cd 226.502	11.9243	ppb	0.2227	1.9	2815.61
Co 228.615	169.426	ppb	2.4984	1.5	2448.93
Cr 267.716	310.697	ppb	2.1414	0.7	19871.8
Cu 324.754	638.210	ppb	3.8434	0.6	40980.4
Fe 271.441	522914	ppb	4329.73	0.8	1001641
K 766.491	13321.1	ppb	56.5444	0.4	448153
Mg 279.078	244060	ppb	1763.64	0.7	696786
Mn 257.610	11701.2	ppb	83.7364	0.7	3164840
Mo 202.032	21.3183	ppb	0.8950	4.2	156.899
Na 330.237	20.7071	ppb	68.8275	332.4	-174.477
Ni 231.604	117.877	ppb	0.6610	0.6	469.914
Pb 220.353	17643.7	ppb	86.4693	0.5	36344.2
Sb 206.834	24.1137	ppb	5.2744	21.9	69.1063
Se 196.026	16.4546	ppb	5.6990	34.6	15.5840
Sn 189.925	84.1660	ppb	1.4383	1.7	86.6877
Sr 216.596	426.732	ppb	3.1915	0.7	7929.81
Ti 334.941	838.306	ppb	6.5359	0.8	268797
Tl 190.794	-8.3423	ppb	1.0383	12.4	-78.3204
V 292.401	245.430	ppb	1.2696	0.5	7396.19
Zn 206.200	4467.71	ppb	30.2328	587.7	7796.80

680-92687-a-7-a (Samp) **7/31/2013, 10:12:49 PM** **Rack 2, Tube 31**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-1.5911u	-1.6479u	-1.4456u
Al 308.215	157059	155298	155713
As 188.980	178.769	178.710	170.874
B 249.678	10.5797u	11.4435u	11.0528u
Ba 389.178	1098.44	1088.20	1082.25
Be 313.042	5.1283	5.0501	5.0512
Ca 370.602	155029	152556	152635
Cd 226.502	-1.2215	-1.6001	-1.8758
Co 228.615	313.364	309.437	308.645
Cr 267.716	283.704	280.511	280.633
Cu 324.754	863.804	853.188	849.184
Fe 271.441	319480	316099	314715
K 766.491	14714.3	14529.3	14449.9
Mg 279.078	68447.7	67830.9	67437.3
Mn 257.610	19144.4	19002.0	18925.9
Mo 202.032	11.4169	11.1389	11.2642
Na 330.237	169.682u	-35.9482u	-116.648u
Ni 231.604	97.9347	97.3858	96.9838
Pb 220.353	3173.18	3151.84	3134.40
Sb 206.834	38.3819	34.8546	41.1819
Se 196.026	4.9224	20.6620	0.4845
Sn 189.925	97.5296	99.1365	99.9053
Sr 216.596	222.574	220.163	219.361
Ti 334.941	917.387	908.479	903.992
Tl 190.794	11.8136u	15.3686u	16.0771u
V 292.401	350.459	346.072	345.583
Zn 206.200	1281.86	1269.33	1267.73

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.5615	ppb	0.1043	6.7	-52.4479
Al 308.215	156023	ppb	920.766	0.6	460250
As 188.980	176.117	ppb	4.5412	2.6	147.816
B 249.678	11.0253	ppb	0.4325	3.9	-454.381
Ba 389.178	1089.63	ppb	8.1885	0.8	29312.8
Be 313.042	5.0765	ppb	0.0448	0.9	10018.6
Ca 370.602	153407	ppb	1405	0.9	462627
Cd 226.502	-1.5658	ppb	0.3285	21.0	1233.14
Co 228.615	310.482	ppb	2.5268	0.8	4454.61
Cr 267.716	281.616	ppb	1.8092	0.6	18013.0
Cu 324.754	855.392	ppb	7.5551	0.9	54695.5
Fe 271.441	316765	ppb	2451.56	0.8	606800
K 766.491	14564.5	ppb	135.662	0.9	489966
Mg 279.078	67905.3	ppb	509.305	0.8	193539
Mn 257.610	19024.1	ppb	110.922	0.6	5140589
Mo 202.032	11.2733	ppb	0.1392	1.2	82.9033
Na 330.237	5.6953	ppb	147.637	2592.3	-68.9426
Ni 231.604	97.4348	ppb	0.4773	0.5	383.509
Pb 220.353	3153.14	ppb	19.4216	0.6	6527.48
Sb 206.834	38.1395	ppb	3.1706	8.3	84.3083
Se 196.026	8.6896	ppb	10.6032	122.0	12.3207
Sn 189.925	98.8571	ppb	1.2123	1.2	102.882
Sr 216.596	220.699	ppb	1.6727	0.8	4148.42
Ti 334.941	909.952	ppb	6.8179	0.7	290728
Tl 190.794	14.4198	ppb	2.2846	15.8	-30.0932
V 292.401	347.371	ppb	2.6853	0.8	10473.1
Zn 206.200	1272.97	ppb	7.7408	588.6	2227.02

680-92687-a-8-a (Samp) **7/31/2013, 10:17:36 PM** **Rack 2, Tube 32**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.8735u	-1.1162u	-0.5454u
Al 308.215	111905	111543	111951
As 188.980	225.331	218.869	231.421
B 249.678	61.1265	61.1088	60.2476
Ba 389.178	1937.34	1938.15	1935.96
Be 313.042	6.3894	6.3911	6.3753
Ca 370.602	589140	587510	588056
Cd 226.502	19.3812	19.0911	19.3235
Co 228.615	99.3149	99.1279	100.324
Cr 267.716	620.568	620.705	621.458
Cu 324.754	737.117	740.523	735.044
Fe 271.441	277117	277527	277191
K 766.491	23837.8	23916.7	23817.8
Mg 279.078	156069	156259	156162
Mn 257.610	5981.60	5993.56	6007.09
Mo 202.032	32.4092	32.6712	32.2263
Na 330.237	-98.9712u	-129.502u	-442.395u
Ni 231.604	283.226	283.274	281.171
Pb 220.353	1471.14	1474.33	1472.49
Sb 206.834	19.2002	18.5654	15.2610
Se 196.026	16.3826	4.9821	5.3758
Sn 189.925	56.6389	55.4886	49.9295
Sr 216.596	565.662	568.149	566.778
Ti 334.941	1314.90	1317.48	1313.05
Tl 190.794	-1.9482u	1.7501u	-3.7864u
V 292.401	215.238	214.941	215.443
Zn 206.200	4926.65	4932.54	4931.33

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.8450	ppb	0.2864	33.9	-80.5504
Al 308.215	111800	ppb	223.791	0.2	329811
As 188.980	225.207	ppb	6.2769	2.8	192.057
B 249.678	60.8276	ppb	0.5024	0.8	495.528
Ba 389.178	1937.15	ppb	1.1073	0.1	51774.2
Be 313.042	6.3853	ppb	0.0087	0.1	12830.9
Ca 370.602	588235	ppb	829.4	0.1	1845114
Cd 226.502	19.2652	ppb	0.1536	0.8	2194.23
Co 228.615	99.5888	ppb	0.6433	0.6	1456.43
Cr 267.716	620.910	ppb	0.4791	0.1	39354.0
Cu 324.754	737.561	ppb	2.7665	0.4	47199.3
Fe 271.441	277278	ppb	218.405	0.1	531136
K 766.491	23857.4	ppb	52.3242	0.2	802473
Mg 279.078	156163	ppb	94.8345	0.1	445851
Mn 257.610	5994.08	ppb	12.7547	0.2	1621606
Mo 202.032	32.4356	ppb	0.2236	0.7	266.517
Na 330.237	-223.623	ppb	190.076	85.0	-123.429
Ni 231.604	282.557	ppb	1.2003	0.4	1104.44
Pb 220.353	1472.66	ppb	1.6006	0.1	3065.54
Sb 206.834	17.6755	ppb	2.1150	12.0	53.5462
Se 196.026	8.9135	ppb	6.4715	72.6	8.4677
Sn 189.925	54.0190	ppb	3.5880	6.6	53.0874
Sr 216.596	566.863	ppb	1.2460	0.2	9940.53
Ti 334.941	1315.15	ppb	2.2262	0.2	420481
Tl 190.794	-1.3282	ppb	2.8199	212.3	-41.5928
V 292.401	215.207	ppb	0.2524	0.1	6470.96
Zn 206.200	4930.17	ppb	3.1122	0.1	8508.45

680-92687-a-9-a (Samp) **7/31/2013, 10:22:12 PM** **Rack 2, Tube 33**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-1.4210u	-1.6008u	-1.4432u
Al 308.215	112350	111241	113936
As 188.980	227.023	222.621	236.700
B 249.678	57.1092	56.2301	57.5009
Ba 389.178	1897.83	1888.91	1936.24
Be 313.042	6.3046	6.2612	6.4329
Ca 370.602	588020	587843	599512
Cd 226.502	18.4322	18.6443	19.6562
Co 228.615	98.2804	99.6899	101.140
Cr 267.716	616.419	613.261	629.950
Cu 324.754	728.458	709.537	756.547
Fe 271.441	275089	273760	280281
K 766.491	23524.5	23325.8	23999.3
Mg 279.078	154369	153724	157656
Mn 257.610	5971.38	5926.02	6066.90
Mo 202.032	33.5858	33.5639	34.1128
Na 330.237	3.2651u	-218.542u	-173.010u
Ni 231.604	281.672	278.002	287.074
Pb 220.353	1464.87	1453.84	1489.11
Sb 206.834	15.1376	20.4863	19.9509
Se 196.026	17.0766	15.8006	9.8363
Sn 189.925	52.8931	56.3525	60.0053
Sr 216.596	560.589	557.422	571.845
Ti 334.941	1289.09	1284.22	1318.61
Tl 190.794	-2.3568u	0.5583u	-0.1950u
V 292.401	212.912	211.967	217.491
Zn 206.200	4917.26	4880.75	4985.35

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.4883	ppb	0.0981	6.6	-135.839
Al 308.215	112509	ppb	1354.56	1.2	331904
As 188.980	228.781	ppb	7.2025	3.1	195.288
B 249.678	56.9467	ppb	0.6508	1.1	431.546
Ba 389.178	1907.66	ppb	25.1465	1.3	50995.8
Be 313.042	6.3329	ppb	0.0893	1.4	12724.2
Ca 370.602	591791	ppb	6687	1.1	1856476
Cd 226.502	18.9109	ppb	0.6541	3.5	2170.40
Co 228.615	99.7033	ppb	1.4297	1.4	1457.43
Cr 267.716	619.876	ppb	8.8658	1.4	39288.3
Cu 324.754	731.514	ppb	23.6535	3.2	46814.9
Fe 271.441	276377	ppb	3445.65	1.2	529410
K 766.491	23616.5	ppb	346.036	1.5	794372
Mg 279.078	155250	ppb	2108.76	1.4	443243
Mn 257.610	5988.10	ppb	71.9118	1.2	1619981
Mo 202.032	33.7542	ppb	0.3108	0.9	277.866
Na 330.237	-129.429	ppb	117.150	90.5	-118.098
Ni 231.604	282.249	ppb	4.5637	1.6	1103.21
Pb 220.353	1469.27	ppb	18.0456	1.2	3058.50
Sb 206.834	18.5250	ppb	2.9457	15.9	54.8343
Se 196.026	14.2378	ppb	3.8649	27.1	11.5948
Sn 189.925	56.4170	ppb	3.5566	6.3	55.7633
Sr 216.596	563.286	ppb	7.5800	1.3	9878.98
Ti 334.941	1297.31	ppb	18.6053	1.4	414785
Tl 190.794	-0.6645	ppb	1.5132	227.7	-40.5058
V 292.401	214.123	ppb	2.9546	1.4	6437.91
Zn 206.200	4927.79	ppb	53.0846	1.1	8504.29

680-92687-a-10-a (Samp) **7/31/2013, 10:26:48 PM** **Rack 2, Tube 34**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-1.6630u	-1.7157u	-2.1236u
Al 308.215	118958	119085	119641
As 188.980	153.659	143.669	147.626
B 249.678	64.8688	63.4042	63.2067
Ba 389.178	1652.13	1644.10	1644.50
Be 313.042	5.7182	5.6926	5.6756
Ca 370.602	361470	360895	362403
Cd 226.502	3.6817	3.3744	3.2853
Co 228.615	134.748	136.572	134.597
Cr 267.716	270.525	269.779	269.716
Cu 324.754	533.223	526.893	523.085
Fe 271.441	246414	245659	245719
K 766.491	21188.5	20966.6	20941.7
Mg 279.078	63083.6	62705.5	62625.5
Mn 257.610	14979.6	14974.3	14992.4
Mo 202.032	14.3262	14.9891	14.5928
Na 330.237	451.202u	-80.2773u	118.271u
Ni 231.604	133.289	130.450	130.994
Pb 220.353	1434.13	1427.09	1431.09
Sb 206.834	22.0380	25.2828	17.4700
Se 196.026	14.8855	5.7236	13.7454
Sn 189.925	51.7736	53.5903	52.2178
Sr 216.596	405.657	405.611	405.185
Ti 334.941	1028.95	1022.55	1021.93
Tl 190.794	9.9116u	13.6961u	15.1109u
V 292.401	228.935	226.561	226.921
Zn 206.200	1958.43	1953.40	1954.19

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.8341	ppb	0.2521	13.7	-107.650
Al 308.215	119228	ppb	363.522	0.3	351722
As 188.980	148.318	ppb	5.0304	3.4	123.184
B 249.678	63.8266	ppb	0.9080	1.4	622.270
Ba 389.178	1646.91	ppb	4.5280	0.3	43822.5
Be 313.042	5.6955	ppb	0.0214	0.4	11353.4
Ca 370.602	361589	ppb	761.1	0.2	1128660
Cd 226.502	3.4471	ppb	0.2080	6.0	1210.17
Co 228.615	135.306	ppb	1.0996	0.8	1955.66
Cr 267.716	270.007	ppb	0.4498	0.2	17236.3
Cu 324.754	527.734	ppb	5.1207	1.0	33859.8
Fe 271.441	245930	ppb	419.821	0.2	471097
K 766.491	21032.3	ppb	135.867	0.6	707467
Mg 279.078	62804.9	ppb	244.670	0.4	179060
Mn 257.610	14982.1	ppb	9.3192	0.1	4048489
Mo 202.032	14.6360	ppb	0.3335	2.3	116.106
Na 330.237	163.065	ppb	268.556	164.7	-50.5918
Ni 231.604	131.578	ppb	1.5070	1.1	514.931
Pb 220.353	1430.77	ppb	3.5335	0.2	2979.12
Sb 206.834	21.5969	ppb	3.9250	18.2	54.0886
Se 196.026	11.4515	ppb	4.9932	43.6	12.4729
Sn 189.925	52.5272	ppb	0.9470	1.8	51.2903
Sr 216.596	405.484	ppb	0.2602	0.1	7169.82
Ti 334.941	1024.48	ppb	3.8839	0.4	327238
Tl 190.794	12.9062	ppb	2.6881	20.8	-23.7800
V 292.401	227.472	ppb	1.2798	0.6	6858.42
Zn 206.200	1955.34	ppb	2.7033	0.1	3415.38

680-92687-a-11-a (Samp) **7/31/2013, 10:31:23 PM** **Rack 2, Tube 35**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	-1.8099u	-1.7686u	-1.3535u
Al 308.215	167863	166708	165170
As 188.980	84.7042	79.7846	85.0345
B 249.678	36.5450u	36.5724u	37.5884
Ba 389.178	1155.90	1156.49	1146.78
Be 313.042	7.9454	7.9589	7.9033
Ca 370.602	34171	34118	33883
Cd 226.502	-3.7960	-3.7995	-3.9339
Co 228.615	103.305	103.326	101.577
Cr 267.716	292.804	292.337	290.375
Cu 324.754	670.773	662.848	665.193
Fe 271.441	268514	268470	266887
K 766.491	27238.5	27290.0	27022.4
Mg 279.078	17366.0	17421.1	17323.6
Mn 257.610	4637.38	4640.75	4600.77
Mo 202.032	5.2961	5.6225	5.5459
Na 330.237	199.312u	323.791u	452.924u
Ni 231.604	120.121	120.060	119.520
Pb 220.353	2109.10	2106.05	2085.96
Sb 206.834	7.9813	15.1611	12.8923
Se 196.026	5.2588	7.9367	4.4967
Sn 189.925	55.4277	52.8293	54.7350
Sr 216.596	179.952	178.730	178.506
Ti 334.941	1128.63	1131.15	1123.69
Tl 190.794	0.1587u	-4.5738u	-1.3973u
V 292.401	262.624	262.075	261.044
Zn 206.200	574.264	572.467	570.988

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.6440	ppb	0.2524	15.4	-131.865
Al 308.215	166580	ppb	1351.22	0.8	491403
As 188.980	83.1744	ppb	2.9403	3.5	64.7702
B 249.678	36.9020	ppb	0.5947	1.6	106.697
Ba 389.178	1153.06	ppb	5.4424	0.5	30750.6
Be 313.042	7.9359	ppb	0.0290	0.4	15766.6
Ca 370.602	34057	ppb	153.2	0.4	87556
Cd 226.502	-3.8431	ppb	0.0786	2.0	908.098
Co 228.615	102.736	ppb	1.0034	1.0	1495.17
Cr 267.716	291.839	ppb	1.2891	0.4	18563.7
Cu 324.754	666.271	ppb	4.0708	0.6	42666.4
Fe 271.441	267957	ppb	926.957	0.3	513282
K 766.491	27183.6	ppb	141.978	0.5	914329
Mg 279.078	17370.2	ppb	48.9110	0.3	49529.6
Mn 257.610	4626.30	ppb	22.1717	0.5	1250774
Mo 202.032	5.4882	ppb	0.1707	3.1	36.4835
Na 330.237	325.342	ppb	126.813	39.0	-29.2346
Ni 231.604	119.900	ppb	0.3309	0.3	470.224
Pb 220.353	2100.37	ppb	12.5733	0.6	4354.12
Sb 206.834	12.0116	ppb	3.6700	30.6	39.6326
Se 196.026	5.8974	ppb	1.8068	30.6	6.2475
Sn 189.925	54.3306	ppb	1.3456	2.5	53.1129
Sr 216.596	179.063	ppb	0.7784	0.4	3366.97
Ti 334.941	1127.82	ppb	3.7951	0.3	359988
Tl 190.794	-1.9375	ppb	2.4121	124.5	-40.6035
V 292.401	261.914	ppb	0.8022	0.3	7898.64
Zn 206.200	572.573	ppb	1.6405	0.3	1005.82

460-60176-e-1-a (Samp) **7/31/2013, 10:36:00 PM** **Rack 2, Tube 36**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.5041	-0.6177u	-0.1245u
Al 308.215	19011.5	18658.9	19060.2
As 188.980	161.558	150.929	157.563
B 249.678	-54.2766u	-52.2209u	-55.1772u
Ba 389.178	7466.97	7389.28	7549.35
Be 313.042	1.2749	1.2646	1.2952
Ca 370.602	180399	177958	181306
Cd 226.502	46.3529	45.2177	48.5505
Co 228.615	145.626	146.365	149.373
Cr 267.716	744.372	736.604	752.975
Cu 324.754	1585.31	1582.55	1620.00
Fe 271.441	1142236x	1133390x	1157271x
K 766.491	5840.46	5775.18	5927.99
Mg 279.078	16751.1	16599.2	16953.0
Mn 257.610	4840.53	4787.34	4882.88
Mo 202.032	58.3467	57.2465	59.4267
Na 330.237	-675.153u	-692.513u	-623.315u
Ni 231.604	314.539	308.884	309.416
Pb 220.353	22761.9x	22563.2x	22989.0x
Sb 206.834	52.2702	45.9730	51.4880
Se 196.026	25.6303	23.8452	24.6417
Sn 189.925	130.892	125.926	129.492
Sr 216.596	510.905	504.208	515.823
Ti 334.941	1259.94	1250.59	1279.24
Tl 190.794	-41.8881u	-39.0496u	-46.9591u
V 292.401	144.978	144.484	146.616
Zn 206.200	13415.7	13297.6	13528.5

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0794b	ppb	0.5623	708.5	-22.3748
Al 308.215	18910.2b	ppb	219.026	1.2	55802.6
As 188.980	156.683b	ppb	5.3686	3.4	116.479
B 249.678	-53.8915b	ppb	1.5153	2.8	-3542.99
Ba 389.178	7468.53b	ppb	80.0456	1.1	198047
Be 313.042	1.2782b	ppb	0.0156	1.2	2309.08
Ca 370.602	179887b	ppb	1732	1.0	480873
Cd 226.502	46.7070b	ppb	1.6944	3.6	7252.12
Co 228.615	147.121b	ppb	1.9845	1.3	2169.21
Cr 267.716	744.651b	ppb	8.1892	1.1	47428.2
Cu 324.754	1595.95b	ppb	20.8694	1.3	102045
Fe 271.441	1144299xb	ppb	12073.7	1.1	2191848
K 766.491	5847.88b	ppb	76.6778	1.3	196840
Mg 279.078	16767.8b	ppb	177.500	1.1	48080.2
Mn 257.610	4836.92b	ppb	47.8705	1.0	1310456
Mo 202.032	58.3400b	ppb	1.0901	1.9	437.191
Na 330.237	-663.661b	ppb	36.0018	5.4	-521.268
Ni 231.604	310.946b	ppb	3.1225	1.0	1241.47
Pb 220.353	22771.4xb	ppb	213.063	0.9	46942.5
Sb 206.834	49.9104b	ppb	3.4323	6.9	140.477
Se 196.026	24.7057b	ppb	0.8943	3.6	20.9450
Sn 189.925	128.770b	ppb	2.5607	2.0	136.245
Sr 216.596	510.312b	ppb	5.8300	1.1	10111.9
Ti 334.941	1263.26b	ppb	14.6097	1.2	403311
Tl 190.794	-42.6322b	ppb	4.0069	9.4	-181.934
V 292.401	145.360b	ppb	1.1160	0.8	4350.88
Zn 206.200	13413.9b	ppb	115.457	0.9	23392.9

460-60176-d-2-b (Samp) **7/31/2013, 10:49:58 PM** **Rack 2, Tube 39**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	-1.3306u	-1.1009u	-1.4217u
Al 308.215	116824	117315	118351
As 188.980	60.1421	60.4633	57.0741
B 249.678	8.9257u	9.5959u	8.9626u
Ba 389.178	1656.82	1672.57	1676.47
Be 313.042	7.1099	7.1858	7.2017
Ca 370.602	128307	128545	128670
Cd 226.502	-0.8786	-0.7596	-0.9363
Co 228.615	94.4105	95.5292	96.2682
Cr 267.716	320.252	322.878	324.582
Cu 324.754	461.430	465.835	467.137
Fe 271.441	209309	211357	212329
K 766.491	33896.8	34213.7	34432.4
Mg 279.078	81439.8	82226.3	82348.5
Mn 257.610	3047.19	3077.80	3091.59
Mo 202.032	8.7776	8.8692	9.1366
Na 330.237	1143.07u	1183.37u	915.842u
Ni 231.604	230.099	228.349	228.726
Pb 220.353	893.643	895.697	898.451
Sb 206.834	0.5779	6.6268	8.1031
Se 196.026	8.3384	1.1528	9.2131
Sn 189.925	58.7141	62.4502	63.1543
Sr 216.596	413.490	416.254	417.406
Ti 334.941	7450.96	7525.24	7539.46
Tl 190.794	3.6595u	-0.4516u	3.9530u
V 292.401	360.285	362.956	364.570
Zn 206.200	1715.93	1726.74	1730.65

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.2844	ppb	0.1653	12.9	-121.766
Al 308.215	117496	ppb	779.815	0.7	346603
As 188.980	59.2265	ppb	1.8709	3.2	43.2068
B 249.678	9.1614	ppb	0.3768	4.1	-234.122
Ba 389.178	1668.62	ppb	10.4027	0.6	44394.6
Be 313.042	7.1658	ppb	0.0491	0.7	14235.2
Ca 370.602	128508	ppb	184.5	0.1	395127
Cd 226.502	-0.8582	ppb	0.0901	10.5	834.229
Co 228.615	95.4026	ppb	0.9353	1.0	1565.76
Cr 267.716	322.571	ppb	2.1812	0.7	20491.9
Cu 324.754	464.801	ppb	2.9907	0.6	29847.7
Fe 271.441	210999	ppb	1541.50	0.7	404185
K 766.491	34181.0	ppb	269.287	0.8	1149638
Mg 279.078	82004.9	ppb	493.212	0.6	234136
Mn 257.610	3072.19	ppb	22.7262	0.7	831410
Mo 202.032	8.9278	ppb	0.1865	2.1	69.0305
Na 330.237	1080.76	ppb	144.237	13.3	-13.9655
Ni 231.604	229.058	ppb	0.9210	0.4	893.866
Pb 220.353	895.930	ppb	2.4126	0.3	1868.78
Sb 206.834	5.1026	ppb	3.9875	78.1	26.4472
Se 196.026	6.2347	ppb	4.4228	70.9	5.7574
Sn 189.925	61.4395	ppb	2.3864	3.9	61.1059
Sr 216.596	415.717	ppb	2.0128	0.5	7252.68
Ti 334.941	7505.22	ppb	47.5254	0.6	2395469
Tl 190.794	2.3870	ppb	2.4626	103.2	-27.8057
V 292.401	362.604	ppb	2.1639	0.6	11045.7
Zn 206.200	1724.44	ppb	7.6274	0.4	3012.35

460-60176-e-3-a (Samp) **7/31/2013, 10:54:35 PM** **Rack 2, Tube 40**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	-3.5292u	-3.4882u	-2.9921u
Al 308.215	201511	200385	198280
As 188.980	16.9923	21.3093	25.1044
B 249.678	-10.8329u	-10.4601u	-10.6072u
Ba 389.178	1578.53	1571.44	1546.58
Be 313.042	11.9894	11.9652	11.7424
Ca 370.602	16295	16292	16093
Cd 226.502	-5.5579	-5.3564	-6.0922
Co 228.615	145.545	146.612	142.247
Cr 267.716	352.700	351.382	346.052
Cu 324.754	312.892	313.522	305.112
Fe 271.441	292393	290035	287275
K 766.491	65352.1x	64926.5x	64373.8x
Mg 279.078	76918.7	76855.1	75413.8
Mn 257.610	3048.59	3035.72	2995.41
Mo 202.032	4.0110	3.4848	4.3127
Na 330.237	1393.62u	1338.01u	1260.07u
Ni 231.604	289.701	287.556	283.730
Pb 220.353	141.914	142.298	134.565
Sb 206.834	7.1463	-0.1029	-2.7315
Se 196.026	14.8244	-2.4781	11.6092
Sn 189.925	28.8266	32.3645	28.7946
Sr 216.596	215.297	214.992	210.664
Ti 334.941	13840.5	13756.1	13504.4
Tl 190.794	1.0505u	-3.6866u	5.1530u
V 292.401	482.200	481.064	474.747
Zn 206.200	699.516	700.918	687.129

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-3.3365b	ppb	0.2990	9.0	-287.544
Al 308.215	200059b	ppb	1639.90	0.8	590141
As 188.980	21.1353b	ppb	4.0589	19.2	8.9012
B 249.678	-10.6334b	ppb	0.1878	1.8	-762.643
Ba 389.178	1565.52b	ppb	16.7756	1.1	41796.1
Be 313.042	11.8990b	ppb	0.1362	1.1	23761.9
Ca 370.602	16227b	ppb	115.7	0.7	35997
Cd 226.502	-5.6688b	ppb	0.3803	6.7	901.438
Co 228.615	144.801b	ppb	2.2754	1.6	2446.76
Cr 267.716	350.045b	ppb	3.5199	1.0	22266.3
Cu 324.754	310.509b	ppb	4.6841	1.5	20075.9
Fe 271.441	289901b	ppb	2561.60	0.9	555326
K 766.491	64884.2xb	ppb	490.535	0.8	2182139
Mg 279.078	76395.9b	ppb	851.087	1.1	218106
Mn 257.610	3026.57b	ppb	27.7426	0.9	819283
Mo 202.032	3.9362b	ppb	0.4190	10.6	21.4157
Na 330.237	1330.57b	ppb	67.0877	5.0	-31.7107
Ni 231.604	286.996b	ppb	3.0246	1.1	1121.95
Pb 220.353	139.592b	ppb	4.3580	3.1	314.212
Sb 206.834	1.4373b	ppb	5.1159	355.9	23.9258
Se 196.026	7.9852b	ppb	9.2030	115.3	7.0963
Sn 189.925	29.9952b	ppb	2.0519	6.8	25.9363
Sr 216.596	213.651b	ppb	2.5913	1.2	3967.11
Ti 334.941	13700.3b	ppb	174.820	1.3	4372442
Tl 190.794	0.8390b	ppb	4.4236	527.2	-37.0590
V 292.401	479.337b	ppb	4.0154	0.8	14673.4
Zn 206.200	695.854b	ppb	7.5888	1.1	1220.67

460-60176-e-4-a (Samp) **7/31/2013, 10:59:22 PM** **Rack 2, Tube 41**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-3.0968u	-2.5588u	-1.9782u
Al 308.215	138671	140663	137446
As 188.980	22.6243	19.1445	26.5475
B 249.678	-6.2365u	-6.2793u	-6.4647u
Ba 389.178	916.730	933.548	914.070
Be 313.042	7.8203	7.9723	7.8254
Ca 370.602	10510	10619	10481
Cd 226.502	-4.3048	-3.9873	-4.1329
Co 228.615	109.505	113.142	111.152
Cr 267.716	306.139	311.204	304.623
Cu 324.754	257.560	261.213	254.938
Fe 271.441	197687	200738	196829
K 766.491	39945.2x	40655.0x	39916.9x
Mg 279.078	53964.8	54891.5	53863.8
Mn 257.610	2090.38	2134.11	2089.22
Mo 202.032	3.7071	3.9347	4.7154
Na 330.237	708.737u	726.841u	921.944u
Ni 231.604	205.493	206.627	205.032
Pb 220.353	178.420	184.271	180.111
Sb 206.834	-1.6802	1.5286	-1.7196
Se 196.026	21.7294	6.5172	2.2480
Sn 189.925	25.1141	22.6468	27.0185
Sr 216.596	108.147	110.606	107.552
Ti 334.941	9494.30	9665.61	9499.97
Tl 190.794	3.1943u	2.6507u	1.0440u
V 292.401	283.891	288.882	282.865
Zn 206.200	512.400	518.731	509.310

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-2.5446b	ppb	0.5595	22.0	-219.207
Al 308.215	138927b	ppb	1623.55	1.2	409825
As 188.980	22.7721b	ppb	3.7037	16.3	10.7856
B 249.678	-6.3269b	ppb	0.1213	1.9	-470.228
Ba 389.178	921.450b	ppb	10.5619	1.1	24664.9
Be 313.042	7.8727b	ppb	0.0863	1.1	15627.1
Ca 370.602	10537b	ppb	72.67	0.7	22946
Cd 226.502	-4.1417b	ppb	0.1589	3.8	604.629
Co 228.615	111.266b	ppb	1.8215	1.6	1849.16
Cr 267.716	307.322b	ppb	3.4459	1.1	19526.1
Cu 324.754	257.903b	ppb	3.1515	1.2	16703.0
Fe 271.441	198418b	ppb	2054.46	1.0	380090
K 766.491	40172.4xb	ppb	418.203	1.0	1351120
Mg 279.078	54240.0b	ppb	566.477	1.0	154862
Mn 257.610	2104.57b	ppb	25.5907	1.2	569725
Mo 202.032	4.1191b	ppb	0.5288	12.8	28.8148
Na 330.237	785.840b	ppb	118.216	15.0	-14.9541
Ni 231.604	205.717b	ppb	0.8210	0.4	802.459
Pb 220.353	180.934b	ppb	3.0109	1.7	395.195
Sb 206.834	-0.6237b	ppb	1.8641	298.9	16.3908
Se 196.026	10.1648b	ppb	10.2401	100.7	7.7366
Sn 189.925	24.9265b	ppb	2.1919	8.8	20.2796
Sr 216.596	108.768b	ppb	1.6190	1.5	2091.99
Ti 334.941	9553.29b	ppb	97.3101	1.0	3048906
Tl 190.794	2.2963b	ppb	1.1181	48.7	-26.0670
V 292.401	285.213b	ppb	3.2188	1.1	8748.15
Zn 206.200	513.481b	ppb	4.8025	596.9	901.941

mb 680-286279/1-a (Samp) **7/31/2013, 11:03:59 PM** **Rack 2, Tube 42**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.0758	-0.1196u	0.2321
Al 308.215	11.2154	8.7968	12.8971
As 188.980	0.0540	-1.0141u	4.5772
B 249.678	0.9826	0.5426	0.5556
Ba 389.178	0.1511	-0.0909u	-0.2484u
Be 313.042	0.0065	0.0095	0.0086
Ca 370.602	67.05	63.94	69.12
Cd 226.502	0.1630	0.1466	0.2091
Co 228.615	0.3369	0.8581	0.3392
Cr 267.716	0.4539	0.6851	0.3759
Cu 324.754	0.1151	-0.0862u	0.1760
Fe 271.441	18.5860	17.9415	10.4243
K 766.491	9.7301	10.1817	10.7689
Mg 279.078	60.0034	59.8472	59.5712
Mn 257.610	0.3568	0.3101	0.3177
Mo 202.032	0.0669	0.4417	0.2983
Na 330.237	0.1267u	-131.588u	-157.206u
Ni 231.604	0.9465	0.0935	1.6983
Pb 220.353	0.9974	-0.9601u	0.2524
Sb 206.834	0.3944	1.6372	-1.3410u
Se 196.026	-0.0149u	4.8374	-0.0418u
Sn 189.925	10.8159	9.7102	10.3549
Sr 216.596	-0.7498u	0.2956	0.3472
Ti 334.941	1.2205	1.0727	0.9551
Tl 190.794	-0.4855u	2.7125	-0.1315u
V 292.401	-0.5098u	-0.1002u	0.1128
Zn 206.200	-1.3940u	-0.6604u	0.6855

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0628	ppb	0.1762	280.8	0.1099
Al 308.215	10.9698	ppb	2.0612	18.8	65.8822
As 188.980	1.2057	ppb	2.9682	246.2	-7.8991
B 249.678	0.6936	ppb	0.2503	36.1	123.165
Ba 389.178	-0.0627	ppb	0.2012	320.9	-20.8304
Be 313.042	0.0082	ppb	0.0015	18.8	-266.903
Ca 370.602	66.70	ppb	2.607	3.9	213.0
Cd 226.502	0.1729	ppb	0.0324	18.7	16.4521
Co 228.615	0.5114	ppb	0.3003	58.7	-6.8676
Cr 267.716	0.5050	ppb	0.1608	31.8	56.0367
Cu 324.754	0.0683	ppb	0.1372	200.9	256.197
Fe 271.441	15.6506	ppb	4.5376	29.0	45.4295
K 766.491	10.2269	ppb	0.5209	5.1	528.944
Mg 279.078	59.8073	ppb	0.2188	0.4	203.524
Mn 257.610	0.3282	ppb	0.0250	7.6	171.581
Mo 202.032	0.2690	ppb	0.1891	70.3	8.2124
Na 330.237	-96.2225	ppb	84.4182	87.7	40.1800
Ni 231.604	0.9128	ppb	0.8029	88.0	-1.5139
Pb 220.353	0.0966	ppb	0.9880	1023.0	15.1424
Sb 206.834	0.2302	ppb	1.4959	649.8	5.8758
Se 196.026	1.5936	ppb	2.8093	176.3	1.2632
Sn 189.925	10.2937	ppb	0.5554	5.4	3.9491
Sr 216.596	-0.0357	ppb	0.6190	1736.4	8.0494
Ti 334.941	1.0828	ppb	0.1330	12.3	289.930
Tl 190.794	0.6985	ppb	1.7532	251.0	-9.2150
V 292.401	-0.1657	ppb	0.3164	190.9	-8.1249
Zn 206.200	-0.4563	ppb	1.0546	231.1	5.2470

lcs 680-286279/2-a (Samp) **7/31/2013, 11:08:34 PM** **Rack 2, Tube 43**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	50.9843	50.7270	51.3653
Al 308.215	4586.80	4583.65	4619.44
As 188.980	100.196	105.894	103.768
B 249.678	181.516	183.988	182.831
Ba 389.178	102.923	102.189	103.311
Be 313.042	49.9125	50.1920	49.9343
Ca 370.602	4981	4995	5007
Cd 226.502	49.9414	50.4059	49.9380
Co 228.615	50.9232	51.2805	51.7139
Cr 267.716	104.464	104.756	104.473
Cu 324.754	102.903	102.244	102.730
Fe 271.441	4893.96	4923.40	4921.21
K 766.491	4771.37	4822.05	4802.58
Mg 279.078	4892.61	4920.91	4901.86
Mn 257.610	518.900	521.647	520.658
Mo 202.032	100.655	101.071	101.554
Na 330.237	4823.91	4775.39	4672.23
Ni 231.604	100.317	100.089	100.249
Pb 220.353	50.2882	51.9502	48.2345
Sb 206.834	44.5251	45.9907	52.0373
Se 196.026	95.7322	97.0290	99.6570
Sn 189.925	209.791	213.152	210.969
Sr 216.596	102.887	104.182	103.720
Ti 334.941	98.9748	99.3991	98.9058
Tl 190.794	38.9058	37.9114	40.7325
V 292.401	99.9020	100.289	100.206
Zn 206.200	99.2034	98.9390	100.284

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	51.0255	ppb	0.3212	0.6	4396.27
Al 308.215	4596.63	ppb	19.8192	0.4	13586.4
As 188.980	103.286	ppb	2.8795	2.8	84.2254
B 249.678	182.778	ppb	1.2368	0.7	3241.62
Ba 389.178	102.808	ppb	0.5702	0.6	2704.42
Be 313.042	50.0129	ppb	0.1555	0.3	100801
Ca 370.602	4994	ppb	13.19	0.3	15526
Cd 226.502	50.0951	ppb	0.2692	0.5	2725.76
Co 228.615	51.3059	ppb	0.3960	0.8	717.475
Cr 267.716	104.565	ppb	0.1663	0.2	6630.02
Cu 324.754	102.626	ppb	0.3419	0.3	6774.09
Fe 271.441	4912.86	ppb	16.4047	0.3	9434.13
K 766.491	4798.67	ppb	25.5683	0.5	161557
Mg 279.078	4905.12	ppb	14.4264	0.3	14027.5
Mn 257.610	520.402	ppb	1.3918	0.3	140717
Mo 202.032	101.093	ppb	0.4501	0.4	870.060
Na 330.237	4757.18	ppb	77.4634	1.6	281.219
Ni 231.604	100.219	ppb	0.1168	0.1	385.521
Pb 220.353	50.1576	ppb	1.8613	3.7	118.297
Sb 206.834	47.5177	ppb	3.9821	8.4	84.2331
Se 196.026	97.4727	ppb	1.9997	2.1	57.9228
Sn 189.925	211.304	ppb	1.7055	0.8	228.336
Sr 216.596	103.596	ppb	0.6564	0.6	1741.22
Ti 334.941	99.0932	ppb	0.2671	0.3	31592.5
Tl 190.794	39.1832	ppb	1.4309	3.7	46.4160
V 292.401	100.132	ppb	0.2038	0.2	2994.39
Zn 206.200	99.4753	ppb	0.7123	0.7	179.009

680-92626-b-1-a (Samp) **7/31/2013, 11:13:10 PM** **Rack 2, Tube 44**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.0643	-0.4015u	-0.0623
Al 308.215	78485.2	77836.6	78712.2
As 188.980	423.212	424.872	433.700
B 249.678	28.2981u	28.5886u	28.2457u
Ba 389.178	1663.44	1650.36	1707.01
Be 313.042	6.8590	6.7979	7.0306
Ca 370.602	116555	115719	118832
Cd 226.502	5.8687	5.6420	6.3685
Co 228.615	54.3337	54.6858	55.1137
Cr 267.716	203.846	201.802	208.418
Cu 324.754	476.252	478.013	493.197
Fe 271.441	275279	272719	281807
K 766.491	15082.9	14611.7	14997.2
Mg 279.078	45505.9	45111.9	46564.5
Mn 257.610	5694.13	5640.92	5817.41
Mo 202.032	16.5467	15.9394	16.6647
Na 330.237	435.759u	668.099u	746.004u
Ni 231.604	141.603	137.767	142.619
Pb 220.353	1088.73	1087.15	1105.84
Sb 206.834	6.2573	-0.1753	4.4794
Se 196.026	21.4669	14.6143	12.3586
Sn 189.925	205.537	206.890	208.736
Sr 216.596	434.140	427.920	442.556
Ti 334.941	793.469	787.021	814.118
Tl 190.794	-3.3624u	0.8070u	-0.6729u
V 292.401	168.119	167.061	172.596
Zn 206.200	4927.92	4878.58	5021.92

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1332	ppb	0.2409	180.9	-10.9621
Al 308.215	78344.7	ppb	454.382	0.6	231127
As 188.980	427.261	ppb	5.6374	1.3	373.987
B 249.678	28.3774	ppb	0.1847	0.7	-60.1098
Ba 389.178	1673.60	ppb	29.6592	1.8	44522.0
Be 313.042	6.8958	ppb	0.1207	1.7	13687.2
Ca 370.602	117036	ppb	1611	1.4	349989
Cd 226.502	5.9597	ppb	0.3717	6.2	1471.67
Co 228.615	54.7111	ppb	0.3906	0.7	800.367
Cr 267.716	204.689	ppb	3.3877	1.7	13068.2
Cu 324.754	482.487	ppb	9.3163	1.9	30998.3
Fe 271.441	276602	ppb	4685.84	1.7	529832
K 766.491	14897.3	ppb	251.011	1.7	501157
Mg 279.078	45727.5	ppb	751.233	1.6	130520
Mn 257.610	5717.48	ppb	90.5330	1.6	1545827
Mo 202.032	16.3836	ppb	0.3892	2.4	129.380
Na 330.237	616.620	ppb	161.402	26.2	-79.0877
Ni 231.604	140.663	ppb	2.5591	1.8	551.511
Pb 220.353	1093.91	ppb	10.3642	0.9	2287.71
Sb 206.834	3.5205	ppb	3.3218	94.4	24.4735
Se 196.026	16.1466	ppb	4.7435	29.4	12.6391
Sn 189.925	207.054	ppb	1.6059	0.8	223.641
Sr 216.596	434.872	ppb	7.3451	1.7	7662.41
Ti 334.941	798.203	ppb	14.1552	1.8	254943
Tl 190.794	-1.0761	ppb	2.1137	196.4	-41.1576
V 292.401	169.258	ppb	2.9381	1.7	5102.01
Zn 206.200	4942.81	ppb	72.8236	1.5	8622.25

680-92626-b-1-a SD^5 (Samp) **7/31/2013, 11:17:45 PM** **Rack 2, Tube 45**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	-0.0901u	0.1795	-0.0582u
Al 308.215	15161.2	15243.9	15395.6
As 188.980	89.1231	89.8149	89.3257
B 249.678	5.7762u	6.6728u	5.2943u
Ba 389.178	340.685	341.393	343.791
Be 313.042	1.4221	1.4160	1.4307
Ca 370.602	23447	23506	23602
Cd 226.502	1.5251	1.3130	1.2872
Co 228.615	11.2448	11.5873	11.2776
Cr 267.716	42.4263	42.2316	42.1140
Cu 324.754	95.7740	95.2108	95.4148
Fe 271.441	56563.7	56598.1	56772.6
K 766.491	2707.37	2688.05	2707.74
Mg 279.078	9416.97	9395.72	9454.19
Mn 257.610	1212.88	1213.27	1217.75
Mo 202.032	3.3678	3.3189	3.5924
Na 330.237	-34.0092u	59.4916u	113.865u
Ni 231.604	30.3018	28.7241	29.0778
Pb 220.353	225.390	229.609	228.495
Sb 206.834	3.4283	5.1942	3.4504
Se 196.026	4.0919	8.8502	2.7853
Sn 189.925	38.4193	43.0809	43.4252
Sr 216.596	91.0584	91.2335	90.9458
Ti 334.941	163.820	163.380	164.104
Tl 190.794	-2.0969u	-1.2078u	-0.8648u
V 292.401	34.2202	34.1732	34.4676
Zn 206.200	1043.82	1042.34	1043.50

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0104	ppb	0.1473	1417.4	-3.1066
Al 308.215	15266.9	ppb	118.880	0.8	45066.2
As 188.980	89.4212	ppb	0.3557	0.4	71.1665
B 249.678	5.9144	ppb	0.6996	11.8	77.9880
Ba 389.178	341.956	ppb	1.6281	0.5	9081.91
Be 313.042	1.4230	ppb	0.0074	0.5	2599.15
Ca 370.602	23519	ppb	78.29	0.3	70254
Cd 226.502	1.3751	ppb	0.1306	9.5	315.271
Co 228.615	11.3699	ppb	0.1890	1.7	155.014
Cr 267.716	42.2573	ppb	0.1578	0.4	2717.07
Cu 324.754	95.4665	ppb	0.2851	0.3	6336.15
Fe 271.441	56644.8	ppb	112.001	0.2	108516
K 766.491	2701.05	ppb	11.2666	0.4	91017.3
Mg 279.078	9422.29	ppb	29.5966	0.3	26919.6
Mn 257.610	1214.63	ppb	2.7096	0.2	328454
Mo 202.032	3.4264	ppb	0.1459	4.3	31.8078
Na 330.237	46.4490	ppb	74.7947	161.0	15.1307
Ni 231.604	29.3679	ppb	0.8279	2.8	111.099
Pb 220.353	227.831	ppb	2.1867	1.0	488.246
Sb 206.834	4.0243	ppb	1.0132	25.2	14.8342
Se 196.026	5.2425	ppb	3.1920	60.9	3.9993
Sn 189.925	41.6418	ppb	2.7960	6.7	38.9529
Sr 216.596	91.0792	ppb	0.1450	0.2	1609.70
Ti 334.941	163.768	ppb	0.3647	0.2	52262.5
Tl 190.794	-1.3898	ppb	0.6359	45.8	-18.3037
V 292.401	34.2870	ppb	0.1581	0.5	1031.08
Zn 206.200	1043.22	ppb	0.7798	0.1	1824.55

680-92626-b-1-a PDS (Samp) **7/31/2013, 11:22:21 PM** **Rack 2, Tube 46**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	17.0629	15.7565	16.1780
Al 308.215	79457.9	78682.8	79051.1
As 188.980	611.100	612.682	620.471
B 249.678	472.199	473.327	472.528
Ba 389.178	1849.12	1844.04	1839.59
Be 313.042	54.1825	54.2090	54.0655
Ca 370.602	117614	117097	117074
Cd 226.502	51.9420	51.7325	52.1617
Co 228.615	239.631	241.126	241.830
Cr 267.716	395.424	395.032	393.906
Cu 324.754	678.039	683.880	679.212
Fe 271.441	274767	274410	274902
K 766.491	16962.1	16909.5	16808.9
Mg 279.078	47012.9	46960.7	46916.9
Mn 257.610	5840.52	5816.03	5826.02
Mo 202.032	209.029	209.137	207.841
Na 330.237	2215.93u	2534.72u	2602.11u
Ni 231.604	323.388	321.878	322.288
Pb 220.353	1262.29	1254.31	1259.29
Sb 206.834	183.086	183.354	184.701
Se 196.026	193.484	205.185	206.038
Sn 189.925	399.161	393.242	390.350
Sr 216.596	618.569	616.404	615.292
Ti 334.941	976.995	978.068	975.139
Tl 190.794	176.122	180.565	180.629
V 292.401	352.273	352.441	352.784
Zn 206.200	5063.15	5030.32	5034.22

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	16.3325	ppb	0.6668	4.1	1402.57
Al 308.215	79063.9	ppb	387.729	0.5	233235
As 188.980	614.751	ppb	5.0164	0.8	543.236
B 249.678	472.685	ppb	0.5805	0.1	7582.13
Ba 389.178	1844.25	ppb	4.7686	0.3	49006.8
Be 313.042	54.1523	ppb	0.0763	0.1	109179
Ca 370.602	117262	ppb	305.3	0.3	350953
Cd 226.502	51.9454	ppb	0.2146	0.4	3941.09
Co 228.615	240.862	ppb	1.1233	0.5	3454.86
Cr 267.716	394.787	ppb	0.7883	0.2	25069.9
Cu 324.754	680.377	ppb	3.0901	0.5	43570.8
Fe 271.441	274693	ppb	254.037	0.1	526206
K 766.491	16893.5	ppb	77.8148	0.5	568288
Mg 279.078	46963.5	ppb	48.0476	0.1	134046
Mn 257.610	5827.52	ppb	12.3120	0.2	1575557
Mo 202.032	208.669	ppb	0.7187	0.3	1773.71
Na 330.237	2450.92	ppb	206.280	8.4	11.6955
Ni 231.604	322.518	ppb	0.7808	0.2	1259.65
Pb 220.353	1258.63	ppb	4.0315	0.3	2625.78
Sb 206.834	183.714	ppb	0.8654	0.5	321.247
Se 196.026	201.569	ppb	7.0151	3.5	121.906
Sn 189.925	394.251	ppb	4.4915	1.1	432.604
Sr 216.596	616.755	ppb	1.6664	0.3	10688.1
Ti 334.941	976.734	ppb	1.4820	0.2	311922
Tl 190.794	179.105	ppb	2.5839	1.4	222.942
V 292.401	352.499	ppb	0.2601	0.1	10586.1
Zn 206.200	5042.56	ppb	17.9301	0.4	8795.26

680-92626-b-1-b ms (Samp) **7/31/2013, 11:26:57 PM** **Rack 2, Tube 47**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	48.8130	50.1059	50.3243
Al 308.215	65400.8	65144.2	64786.6
As 188.980	823.792	820.663	816.330
B 249.678	186.521	185.964	185.808
Ba 389.178	2093.76	2094.54	2093.35
Be 313.042	54.5717	54.6639	54.5572
Ca 370.602	110379	110143	109698
Cd 226.502	56.0494	56.0949	55.7819
Co 228.615	108.612	108.037	108.156
Cr 267.716	356.297	356.369	355.089
Cu 324.754	849.602	866.758	847.010
Fe 271.441	388743	389235	387164
K 766.491	20096.3	20177.9	20278.4
Mg 279.078	25747.4	25754.0	25684.3
Mn 257.610	7449.96	7469.43	7429.47
Mo 202.032	123.073	124.980	123.446
Na 330.237	5461.23	5421.71	5557.73
Ni 231.604	260.748	266.545	261.111
Pb 220.353	1623.84	1612.80	1610.37
Sb 206.834	28.6174	33.9027	28.4555
Se 196.026	104.868	116.661	114.154
Sn 189.925	1238.30	1241.70	1234.12
Sr 216.596	521.602	523.267	520.864
Ti 334.941	932.158	933.315	932.586
Tl 190.794	14.2678u	12.8087u	10.5594u
V 292.401	266.149	266.061	264.643
Zn 206.200	6844.83	6845.56	6810.90

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	49.7477	ppb	0.8168	1.6	4298.51
Al 308.215	65110.5	ppb	308.494	0.5	192081
As 188.980	820.262	ppb	3.7470	0.5	727.001
B 249.678	186.098	ppb	0.3746	0.2	2384.99
Ba 389.178	2093.89	ppb	0.6056	0.0	55682.3
Be 313.042	54.5976	ppb	0.0579	0.1	110089
Ca 370.602	110074	ppb	345.9	0.3	319178
Cd 226.502	55.9754	ppb	0.1691	0.3	4626.76
Co 228.615	108.268	ppb	0.3038	0.3	1568.93
Cr 267.716	355.918	ppb	0.7188	0.2	22660.5
Cu 324.754	854.457	ppb	10.7321	1.3	54667.8
Fe 271.441	388381	ppb	1082.02	0.3	743945
K 766.491	20184.2	ppb	91.1984	0.5	678949
Mg 279.078	25728.5	ppb	38.4800	0.1	73408.0
Mn 257.610	7449.62	ppb	19.9831	0.3	2013882
Mo 202.032	123.833	ppb	1.0108	0.8	1041.61
Na 330.237	5480.22	ppb	69.9675	1.3	105.262
Ni 231.604	262.802	ppb	3.2472	1.2	1030.79
Pb 220.353	1615.67	ppb	7.1776	0.4	3370.87
Sb 206.834	30.3252	ppb	3.0993	10.2	73.8138
Se 196.026	111.894	ppb	6.2125	5.6	70.0086
Sn 189.925	1238.04	ppb	3.7965	0.3	1374.49
Sr 216.596	521.911	ppb	1.2310	0.2	9261.55
Ti 334.941	932.686	ppb	0.5850	0.1	297770
Tl 190.794	12.5453	ppb	1.8681	14.9	-32.6282
V 292.401	265.617	ppb	0.8450	0.3	7982.37
Zn 206.200	6833.76	ppb	19.8916	0.3	11018.3

680-92626-b-1-c msd (Samp) **7/31/2013, 11:31:33 PM** **Rack 2, Tube 48**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	52.2371	53.5839	52.7944
Al 308.215	65220.2	65492.8	65555.8
As 188.980	692.283	691.320	676.263
B 249.678	199.179	198.983	199.437
Ba 389.178	2012.99	2009.15	2008.17
Be 313.042	55.2789	55.0839	54.9918
Ca 370.602	258251	257566	257976
Cd 226.502	55.8712	55.4959	55.4014
Co 228.615	1448.15	1448.20	1457.08
Cr 267.716	339.191	338.240	338.790
Cu 324.754	850.478	844.108	847.546
Fe 271.441	299678	303556	300104
K 766.491	21277.6	21223.2	21171.1
Mg 279.078	123276	122904	122917
Mn 257.610	16654.9	16677.1	16634.7
Mo 202.032	123.269	123.527	122.367
Na 330.237	5933.02	5892.34	6084.43
Ni 231.604	874.720	871.778	871.473
Pb 220.353	1355.45	1353.12	1358.46
Sb 206.834	28.2668	31.0893	32.5795
Se 196.026	118.236	106.604	114.713
Sn 189.925	603.339	602.064	604.956
Sr 216.596	512.007	510.827	511.350
Ti 334.941	1086.37	1081.42	1081.59
Tl 190.794	27.6740	30.0996	27.3441
V 292.401	282.899	281.910	281.483
Zn 206.200	5627.00	5625.11	5617.91

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	52.8718	ppb	0.6768	1.3	4615.79
Al 308.215	65422.9	ppb	178.385	0.3	192974
As 188.980	686.622	ppb	8.9841	1.3	607.590
B 249.678	199.200	ppb	0.2279	0.1	2817.29
Ba 389.178	2010.11	ppb	2.5484	0.1	53631.5
Be 313.042	55.1182	ppb	0.1466	0.3	111193
Ca 370.602	257931	ppb	344.8	0.1	795489
Cd 226.502	55.5895	ppb	0.2485	0.4	4248.81
Co 228.615	1451.14	ppb	5.1432	0.4	20727.2
Cr 267.716	338.741	ppb	0.4774	0.1	21601.4
Cu 324.754	847.377	ppb	3.1886	0.4	54185.4
Fe 271.441	301113	ppb	2126.84	0.7	576984
K 766.491	21224.0	ppb	53.2561	0.3	713916
Mg 279.078	123033	ppb	211.337	0.2	351040
Mn 257.610	16655.6	ppb	21.2319	0.1	4501275
Mo 202.032	123.054	ppb	0.6089	0.5	1040.03
Na 330.237	5969.93	ppb	101.228	1.7	172.176
Ni 231.604	872.657	ppb	1.7935	0.2	3400.83
Pb 220.353	1355.68	ppb	2.6756	0.2	2830.44
Sb 206.834	30.6452	ppb	2.1903	7.1	70.6718
Se 196.026	113.184	ppb	5.9651	5.3	73.1268
Sn 189.925	603.453	ppb	1.4495	0.2	666.211
Sr 216.596	511.395	ppb	0.5916	0.1	8975.31
Ti 334.941	1083.13	ppb	2.8083	0.3	346268
Tl 190.794	28.3726	ppb	1.5047	5.3	-1.9157
V 292.401	282.097	ppb	0.7265	0.3	8484.34
Zn 206.200	5623.34	ppb	4.7949	0.1	9807.92

680-92626-b-2-a (Samp) **7/31/2013, 11:45:32 PM** **Rack 2, Tube 51**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.5932	0.2726	0.9062
Al 308.215	51180.3	51155.8	51517.4
As 188.980	521.086	527.312	524.876
B 249.678	39.1310	39.3360	38.5896
Ba 389.178	1788.35	1791.87	1789.37
Be 313.042	7.1659	7.1495	7.1446
Ca 370.602	102570	102688	103046
Cd 226.502	9.4440	9.6037	9.2031
Co 228.615	50.6650	49.5542	49.5433
Cr 267.716	186.607	186.372	186.218
Cu 324.754	510.521	504.243	503.080
Fe 271.441	230732	230963	231059
K 766.491	13897.5	13858.4	13887.0
Mg 279.078	20250.0	20324.8	20259.9
Mn 257.610	7477.68	7489.25	7482.59
Mo 202.032	18.4071	19.7647	18.9540
Na 330.237	592.268u	598.222u	676.290u
Ni 231.604	105.382	105.872	107.436
Pb 220.353	1297.53	1308.54	1308.05
Sb 206.834	5.6728	2.5726	7.2882
Se 196.026	17.9237	16.3420	18.4991
Sn 189.925	252.015	257.562	259.613
Sr 216.596	460.254	461.392	461.688
Ti 334.941	883.235	882.843	880.896
Tl 190.794	2.2574u	3.4966u	4.3365u
V 292.401	165.659	165.065	165.562
Zn 206.200	5613.12	5622.67	5635.92

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.5906	ppb	0.3168	53.6	60.0736
Al 308.215	51284.5	ppb	202.099	0.4	151303
As 188.980	524.425	ppb	3.1373	0.6	461.967
B 249.678	39.0189	ppb	0.3856	1.0	231.670
Ba 389.178	1789.87	ppb	1.8108	0.1	47427.2
Be 313.042	7.1533	ppb	0.0111	0.2	14201.0
Ca 370.602	102768	ppb	247.9	0.2	308437
Cd 226.502	9.4169	ppb	0.2017	2.1	1468.75
Co 228.615	49.9208	ppb	0.6445	1.3	732.224
Cr 267.716	186.399	ppb	0.1957	0.1	11909.0
Cu 324.754	505.948	ppb	4.0027	0.8	32471.5
Fe 271.441	230918	ppb	167.860	0.1	442328
K 766.491	13881.0	ppb	20.2386	0.1	466981
Mg 279.078	20278.2	ppb	40.6264	0.2	57811.1
Mn 257.610	7483.18	ppb	5.8085	0.1	2022392
Mo 202.032	19.0419	ppb	0.6831	3.6	154.814
Na 330.237	622.260	ppb	46.8861	7.5	-75.5586
Ni 231.604	106.230	ppb	1.0729	1.0	415.911
Pb 220.353	1304.71	ppb	6.2181	0.5	2718.27
Sb 206.834	5.1779	ppb	2.3965	46.3	25.1964
Se 196.026	17.5883	ppb	1.1170	6.4	13.8221
Sn 189.925	256.397	ppb	3.9304	1.5	278.714
Sr 216.596	461.111	ppb	0.7570	0.2	8036.69
Ti 334.941	882.325	ppb	1.2526	0.1	281649
Tl 190.794	3.3635	ppb	1.0459	31.1	-31.6325
V 292.401	165.429	ppb	0.3185	0.2	4988.33
Zn 206.200	5623.90	ppb	11.4530	0.2	9808.72

680-92626-b-3-a (Samp) **7/31/2013, 11:50:08 PM** **Rack 2, Tube 52**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	-3.3936u	-4.0942u	-3.2798u
Al 308.215	147765	148069	146921
As 188.980	329.824	324.964	330.569
B 249.678	-10.7507u	-9.6284u	-8.2117u
Ba 389.178	1615.21	1618.19	1604.24
Be 313.042	21.7837	21.7845	21.5935
Ca 370.602	184675	184527	182928
Cd 226.502	-5.9524	-5.4413	-6.2741
Co 228.615	202.708	202.089	201.807
Cr 267.716	761.575	761.622	754.604
Cu 324.754	274.024	275.618	273.082
Fe 271.441	596295	597366	590914
K 766.491	14862.3	14610.4	14719.9
Mg 279.078	24796.0	24782.4	24548.8
Mn 257.610	17767.7	17747.7	17620.7
Mo 202.032	19.7003	20.7367	20.5333
Na 330.237	913.309u	706.097u	779.082u
Ni 231.604	140.636	141.342	140.877
Pb 220.353	945.358	939.853	918.104
Sb 206.834	-7.4006	-3.2383	-6.0374
Se 196.026	27.6952	13.0137	16.4263
Sn 189.925	42.6983	37.1645	43.0749
Sr 216.596	385.250	383.869	381.392
Ti 334.941	1310.39	1312.96	1299.01
Tl 190.794	-0.0582u	1.3611u	2.8121u
V 292.401	678.142	679.439	673.167
Zn 206.200	2718.48	2714.88	2689.50

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-3.5892	ppb	0.4410	12.3	-242.231
Al 308.215	147585	ppb	594.772	0.4	435334
As 188.980	328.452	ppb	3.0440	0.9	281.261
B 249.678	-9.5303	ppb	1.2723	13.4	-1470.00
Ba 389.178	1612.55	ppb	7.3436	0.5	43366.4
Be 313.042	21.7206	ppb	0.1101	0.5	43655.2
Ca 370.602	184043	ppb	968.3	0.5	537995
Cd 226.502	-5.8893	ppb	0.4200	7.1	2147.36
Co 228.615	202.201	ppb	0.4608	0.2	2934.36
Cr 267.716	759.267	ppb	4.0380	0.5	48250.0
Cu 324.754	274.241	ppb	1.2818	0.5	17884.7
Fe 271.441	594858	ppb	3457.43	0.6	1139454
K 766.491	14730.9	ppb	126.275	0.9	495561
Mg 279.078	24709.0	ppb	138.960	0.6	70291.7
Mn 257.610	17712.0	ppb	79.7558	0.5	4786642
Mo 202.032	20.3234	ppb	0.5491	2.7	143.217
Na 330.237	799.496	ppb	105.103	13.1	-132.286
Ni 231.604	140.952	ppb	0.3591	0.3	561.961
Pb 220.353	934.438	ppb	14.4110	1.5	1988.65
Sb 206.834	-5.5587	ppb	2.1221	38.2	29.5306
Se 196.026	19.0450	ppb	7.6831	40.3	19.1574
Sn 189.925	40.9792	ppb	3.3090	8.1	38.2783
Sr 216.596	383.504	ppb	1.9547	0.5	7249.69
Ti 334.941	1307.45	ppb	7.4251	0.6	417391
Tl 190.794	1.3717	ppb	1.4352	104.6	-74.4109
V 292.401	676.916	ppb	3.3110	0.5	20391.6
Zn 206.200	2707.62	ppb	15.7951	0.6	4728.46

680-92626-b-4-a (Samp) **7/31/2013, 11:54:43 PM** **Rack 2, Tube 53**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	-2.8906u	-3.0655u	-2.1977u
Al 308.215	161099	161569	162172
As 188.980	278.408	282.055	279.189
B 249.678	15.6618u	12.9838u	13.0092u
Ba 389.178	1412.85	1414.53	1414.95
Be 313.042	22.4396	22.4399	22.4492
Ca 370.602	248653	250850	252867
Cd 226.502	-1.8133	-1.9869	-1.8162
Co 228.615	173.464	175.045	173.701
Cr 267.716	678.373	679.090	679.934
Cu 324.754	311.045	313.692	313.611
Fe 271.441	486910	488483	488425
K 766.491	17899.6	17925.4	17923.5
Mg 279.078	36703.4	36663.2	36656.0
Mn 257.610	16111.8	16086.0	16091.7
Mo 202.032	17.5752	17.5701	17.2262
Na 330.237	1153.07u	1611.68u	1356.43u
Ni 231.604	136.373	135.414	134.528
Pb 220.353	901.370	904.746	906.887
Sb 206.834	-7.8483	-2.9596	6.0168
Se 196.026	16.3034	17.2545	14.8435
Sn 189.925	33.5302	34.4491	29.7638
Sr 216.596	504.521	503.917	505.581
Ti 334.941	1587.49	1588.22	1589.04
Tl 190.794	2.2063u	0.8948u	2.6816u
V 292.401	569.501	570.404	571.628
Zn 206.200	2961.24	2949.40	2949.61

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-2.7179	ppb	0.4590	16.9	-181.906
Al 308.215	161614	ppb	537.916	0.3	476726
As 188.980	279.884	ppb	1.9202	0.7	239.131
B 249.678	13.8849	ppb	1.5389	11.1	-812.320
Ba 389.178	1414.11	ppb	1.1108	0.1	38017.8
Be 313.042	22.4429	ppb	0.0055	0.0	45149.8
Ca 370.602	250790	ppb	2108	0.8	758337
Cd 226.502	-1.8721	ppb	0.0994	5.3	1921.68
Co 228.615	174.070	ppb	0.8527	0.5	2536.13
Cr 267.716	679.132	ppb	0.7816	0.1	43149.7
Cu 324.754	312.782	ppb	1.5051	0.5	20293.7
Fe 271.441	487939	ppb	891.895	0.2	934654
K 766.491	17916.2	ppb	14.3976	0.1	602678
Mg 279.078	36674.2	ppb	25.5096	0.1	104462
Mn 257.610	16096.5	ppb	13.5119	0.1	4350028
Mo 202.032	17.4571	ppb	0.2000	1.1	125.241
Na 330.237	1373.73	ppb	229.789	16.7	-76.6406
Ni 231.604	135.438	ppb	0.9228	0.7	537.286
Pb 220.353	904.334	ppb	2.7815	0.3	1916.51
Sb 206.834	-1.5971	ppb	7.0323	440.3	30.9520
Se 196.026	16.1338	ppb	1.2144	7.5	16.5317
Sn 189.925	32.5810	ppb	2.4827	7.6	28.9473
Sr 216.596	504.673	ppb	0.8424	0.2	9137.43
Ti 334.941	1588.25	ppb	0.7747	0.0	507049
Tl 190.794	1.9276	ppb	0.9254	48.0	-62.6982
V 292.401	570.511	ppb	1.0675	0.2	17191.8
Zn 206.200	2953.42	ppb	6.7758	0.2	5155.87

680-92626-b-5-a (Samp) **7/31/2013, 11:59:30 PM** **Rack 2, Tube 54**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.2895	0.1460	-0.3099
Al 308.215	130423	126289	128111
As 188.980	256.475	256.224	254.839
B 249.678	91.0159	91.3284	89.3943
Ba 389.178	5128.58	5022.85	5033.46
Be 313.042	21.8428	21.4303	21.3833
Ca 370.602	192549	187680	189689
Cd 226.502	18.5984	17.8237	17.5823
Co 228.615	113.078	111.510	112.712
Cr 267.716	360.241	352.019	353.223
Cu 324.754	613.754	588.352	601.790
Fe 271.441	335469	327893	328633
K 766.491	15276.1	15062.4	15061.6
Mg 279.078	23937.9	23531.3	23497.6
Mn 257.610	21062.7	19835.3	19846.2
Mo 202.032	21.1546	19.8756	20.2412
Na 330.237	409.107u	705.184u	612.375u
Ni 231.604	154.889	153.317	155.009
Pb 220.353	3420.13	3357.20	3357.14
Sb 206.834	8.1854	14.4997	17.5300
Se 196.026	18.2777	8.3321	14.4383
Sn 189.925	145.571	149.235	141.655
Sr 216.596	829.750	815.821	815.120
Ti 334.941	2468.72	2415.31	2411.04
Tl 190.794	17.9490u	18.1520u	19.2879u
V 292.401	506.236	494.736	494.929
Zn 206.200	7094.14	6972.97	6976.59

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1511	ppb	0.2576	170.4	46.0577
Al 308.215	128274	ppb	2071.76	1.6	378386
As 188.980	255.846	ppb	0.8808	0.3	219.187
B 249.678	90.5795	ppb	1.0383	1.1	880.208
Ba 389.178	5061.63	ppb	58.2221	1.2	133540
Be 313.042	21.5521	ppb	0.2529	1.2	43328.4
Ca 370.602	189973	ppb	2447	1.3	578397
Cd 226.502	18.0014	ppb	0.5309	2.9	2343.49
Co 228.615	112.433	ppb	0.8200	0.7	1672.25
Cr 267.716	355.161	ppb	4.4405	1.3	22669.5
Cu 324.754	601.299	ppb	12.7079	2.1	38560.7
Fe 271.441	330665	ppb	4177.08	1.3	633398
K 766.491	15133.4	ppb	123.602	0.8	509098
Mg 279.078	23655.6	ppb	245.101	1.0	67171.4
Mn 257.610	20248.0	ppb	705.529	3.5	5470828
Mo 202.032	20.4238	ppb	0.6587	3.2	160.015
Na 330.237	575.555	ppb	151.433	26.3	-132.795
Ni 231.604	154.405	ppb	0.9442	0.6	606.570
Pb 220.353	3378.16	ppb	36.3508	1.1	6991.45
Sb 206.834	13.4051	ppb	4.7675	35.6	45.1167
Se 196.026	13.6827	ppb	5.0157	36.7	15.6756
Sn 189.925	145.487	ppb	3.7907	2.6	154.955
Sr 216.596	820.230	ppb	8.2514	1.0	14181.9
Ti 334.941	2431.69	ppb	32.1405	1.3	776117
Tl 190.794	18.4630	ppb	0.7216	3.9	-27.0329
V 292.401	498.634	ppb	6.5848	1.3	15056.3
Zn 206.200	7014.57	ppb	68.9365	1.0	12232.7

680-92626-b-6-a (Samp) **8/1/2013, 12:04:07 AM** **Rack 2, Tube 55**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	7.1768	7.4156	6.9695
Al 308.215	105860	106052	105473
As 188.980	303.442	296.495	300.120
B 249.678	142.156	143.172	143.587
Ba 389.178	3582.53	3576.56	3578.94
Be 313.042	15.4990	15.5024	15.4814
Ca 370.602	193724	194411	194199
Cd 226.502	14.6626	14.7834	14.8399
Co 228.615	88.1750	85.9881	86.9818
Cr 267.716	318.309	318.362	318.055
Cu 324.754	1762.45	1772.75	1783.35
Fe 271.441	658336	660225	658349
K 766.491	17024.1	17131.1	17049.1
Mg 279.078	30925.5	30935.1	30916.5
Mn 257.610	23734.8	23718.0	23632.3
Mo 202.032	32.6928	32.6275	32.5164
Na 330.237	167.840u	100.444u	-11.0259u
Ni 231.604	202.753	203.955	204.556
Pb 220.353	7211.75	7220.32	7199.67
Sb 206.834	31.5078	30.0001	28.0629
Se 196.026	20.3483	20.8526	21.3637
Sn 189.925	5154.25	5173.62	5087.26
Sr 216.596	1017.19	1015.61	1012.16
Ti 334.941	2652.66	2662.75	2656.62
Tl 190.794	9.4498u	8.4323u	7.9193u
V 292.401	323.041	323.685	323.197
Zn 206.200	12862.4	12896.8	12839.2

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	7.1873	ppb	0.2232	3.1	683.195
Al 308.215	105795	ppb	295.208	0.3	312089
As 188.980	300.019	ppb	3.4750	1.2	254.056
B 249.678	142.972	ppb	0.7366	0.5	999.552
Ba 389.178	3579.34	ppb	3.0046	0.1	95149.8
Be 313.042	15.4943	ppb	0.0112	0.1	31074.0
Ca 370.602	194111	ppb	351.8	0.2	565778
Cd 226.502	14.7620	ppb	0.0906	0.6	3523.52
Co 228.615	87.0483	ppb	1.0950	1.3	1325.40
Cr 267.716	318.242	ppb	0.1643	0.1	20461.2
Cu 324.754	1772.85	ppb	10.4500	0.6	113096
Fe 271.441	658970	ppb	1086.77	0.2	1262234
K 766.491	17068.1	ppb	56.0056	0.3	574158
Mg 279.078	30925.7	ppb	9.2998	0.0	87947.5
Mn 257.610	23695.1	ppb	54.9566	0.2	6403060
Mo 202.032	32.6122	ppb	0.0892	0.3	245.353
Na 330.237	85.7528	ppb	90.3336	105.3	-338.441
Ni 231.604	203.754	ppb	0.9183	0.5	809.028
Pb 220.353	7210.58	ppb	10.3762	0.1	14902.4
Sb 206.834	29.8569	ppb	1.7269	5.8	85.3334
Se 196.026	20.8549	ppb	0.5077	2.4	22.2334
Sn 189.925	5138.38	ppb	45.3142	0.9	5728.34
Sr 216.596	1014.98	ppb	2.5732	0.3	17880.0
Ti 334.941	2657.34	ppb	5.0823	0.2	848207
Tl 190.794	8.6005	ppb	0.7790	9.1	-74.6011
V 292.401	323.308	ppb	0.3361	0.1	9771.79
Zn 206.200	12866.1	ppb	28.9966	0.2	22434.2

680-92626-b-7-a (Samp) **8/1/2013, 12:08:43 AM** **Rack 2, Tube 56**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-6.1336u	-5.7009u	-6.2058u
Al 308.215	84649.0	83680.9	84921.7
As 188.980	178.733	170.589	175.550
B 249.678	-11.5864u	-11.8892u	-13.6494u
Ba 389.178	1535.28	1506.83	1530.54
Be 313.042	12.0495	11.7921	11.9544
Ca 370.602	40079	39619	40080
Cd 226.502	-1.5836	-2.3139	-2.0051
Co 228.615	509.157	499.006	506.769
Cr 267.716	546.716	537.278	544.597
Cu 324.754	227.787	223.025	227.690
Fe 271.441	411126	403780	410538
K 766.491	6590.22	6432.52	6492.65
Mg 279.078	6923.54	6791.01	6877.68
Mn 257.610	18529.2	18204.9	18434.2
Mo 202.032	13.3468	13.9714	14.5795
Na 330.237	161.131u	190.477u	452.980u
Ni 231.604	104.740	102.341	102.898
Pb 220.353	1084.03	1061.71	1077.49
Sb 206.834	0.0366	-2.5493	1.0383
Se 196.026	8.3746	1.0597	5.9035
Sn 189.925	46.6085	49.7367	46.3223
Sr 216.596	133.187	129.011	131.437
Ti 334.941	1113.08	1090.09	1105.92
Tl 190.794	12.3586u	10.4157u	11.9764u
V 292.401	522.927	514.015	519.864
Zn 206.200	2670.86	2617.23	2662.25

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-6.0135	ppb	0.2731	4.5	-434.122
Al 308.215	84417.2	ppb	652.091	0.8	249002
As 188.980	174.957	ppb	4.1042	2.3	144.392
B 249.678	-12.3750	ppb	1.1140	9.0	-1074.38
Ba 389.178	1524.21	ppb	15.2446	1.0	40693.8
Be 313.042	11.9320	ppb	0.1301	1.1	23819.9
Ca 370.602	39926	ppb	266.2	0.7	95454
Cd 226.502	-1.9675	ppb	0.3666	18.6	1587.71
Co 228.615	504.977	ppb	5.3075	1.1	7239.43
Cr 267.716	542.864	ppb	4.9519	0.9	34531.6
Cu 324.754	226.167	ppb	2.7220	1.2	14763.3
Fe 271.441	408481	ppb	4081.98	1.0	782506
K 766.491	6505.13	ppb	79.5890	1.2	218942
Mg 279.078	6864.08	ppb	67.3063	1.0	19301.5
Mn 257.610	18389.4	ppb	166.696	0.9	4968855
Mo 202.032	13.9659	ppb	0.6164	4.4	100.174
Na 330.237	268.196	ppb	160.699	59.9	-102.977
Ni 231.604	103.326	ppb	1.2554	1.2	408.624
Pb 220.353	1074.41	ppb	11.4735	1.1	2261.93
Sb 206.834	-0.4915	ppb	1.8511	376.7	27.7633
Se 196.026	5.1126	ppb	3.7210	72.8	10.3849
Sn 189.925	47.5558	ppb	1.8941	4.0	45.5463
Sr 216.596	131.212	ppb	2.0970	1.6	2760.47
Ti 334.941	1103.03	ppb	11.7612	1.1	352036
Tl 190.794	11.5836	ppb	1.0293	8.9	-41.3471
V 292.401	518.935	ppb	4.5277	0.9	15636.2
Zn 206.200	2650.11	ppb	28.7973	1.1	4626.93

X (Samp) **8/1/2013, 12:13:18 AM** **Rack 2, Tube 57**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.2094	0.1021	-0.1483u
Al 308.215	-3.1832u	-1.2802u	-0.8900u
As 188.980	-1.2296u	-1.7554u	2.2863
B 249.678	0.6575	0.2416	-0.0526u
Ba 389.178	0.4504	0.4234	-0.2459u
Be 313.042	0.0068	0.0108	0.0091
Ca 370.602	1.937	-0.4998u	-1.743u
Cd 226.502	0.1243	0.0354	-0.0522u
Co 228.615	0.9567	0.5569	0.4351
Cr 267.716	0.0233	-0.1064u	0.1490
Cu 324.754	-1.2859u	-0.4718u	-0.1353u
Fe 271.441	2.8642	2.2797	1.9539
K 766.491	0.6694	0.3310	0.8799
Mg 279.078	1.1400	-1.7727u	-1.4923u
Mn 257.610	-0.0182u	-0.0756u	-0.0841u
Mo 202.032	-0.2707u	-0.0439u	0.8406
Na 330.237	-149.976u	-150.112u	62.9075
Ni 231.604	1.6524	0.2414	0.8579
Pb 220.353	-0.6934u	0.1560	-1.0792u
Sb 206.834	-0.0713u	-2.8655u	-2.3901u
Se 196.026	-2.1883u	-7.9432u	2.4581
Sn 189.925	-1.0312u	2.0423	0.0320
Sr 216.596	-0.4818u	-0.4444u	-0.0285u
Ti 334.941	0.1462	0.0704	0.1098
Tl 190.794	-0.7033u	0.5435	2.2066
V 292.401	-0.2656u	-0.2298u	-0.2636u
Zn 206.200	-0.0243u	-1.7879u	-1.2216u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0544	ppb	0.1836	337.3	-0.5913
Al 308.215	-1.7845	ppb	1.2269	68.8	28.2621
As 188.980	-0.2329	ppb	2.1975	943.6	-9.1980
B 249.678	0.2822	ppb	0.3568	126.5	116.128
Ba 389.178	0.2093	ppb	0.3945	188.5	-13.8912
Be 313.042	0.0089	ppb	0.0020	22.1	-265.451
Ca 370.602	-0.1020	ppb	1.872	1834.6	1.721
Cd 226.502	0.0358	ppb	0.0883	246.5	9.0045
Co 228.615	0.6496	ppb	0.2729	42.0	-4.9153
Cr 267.716	0.0220	ppb	0.1277	581.0	25.5342
Cu 324.754	-0.6310	ppb	0.5916	93.8	211.775
Fe 271.441	2.3659	ppb	0.4612	19.5	20.0002
K 766.491	0.6267	ppb	0.2769	44.2	206.106
Mg 279.078	-0.7083	ppb	1.6068	226.8	30.7304
Mn 257.610	-0.0593	ppb	0.0358	60.4	66.2808
Mo 202.032	0.1753	ppb	0.5872	335.0	7.4123
Na 330.237	-79.0603	ppb	122.948	155.5	41.0569
Ni 231.604	0.9172	ppb	0.7074	77.1	-1.4974
Pb 220.353	-0.5389	ppb	0.6320	117.3	13.8353
Sb 206.834	-1.7756	ppb	1.4950	84.2	2.5561
Se 196.026	-2.5578	ppb	5.2105	203.7	-1.1827
Sn 189.925	0.3477	ppb	1.5609	448.9	-7.1533
Sr 216.596	-0.3182	ppb	0.2516	79.1	3.3109
Ti 334.941	0.1088	ppb	0.0379	34.9	-21.2170
Tl 190.794	0.6823	ppb	1.4599	214.0	-9.2366
V 292.401	-0.2530	ppb	0.0201	8.0	-10.7335
Zn 206.200	-1.0113	ppb	0.9004	640.0	-4.2816

CRI (Samp) **8/1/2013, 12:17:54 AM** **Rack 2, Tube 58**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	9.2870	8.9577	8.5682
Al 308.215	172.004	170.980	173.759
As 188.980	17.6525	21.9169	20.3628
B 249.678	87.2223	85.9868	85.6096
Ba 389.178	9.5526	9.3623	9.4186
Be 313.042	3.6688	3.6348	3.6318
Ca 370.602	455.0	442.2	443.4
Cd 226.502	4.6842	4.7194	4.6452
Co 228.615	9.6661	9.7047	9.3360
Cr 267.716	9.4837	9.3741	9.4309
Cu 324.754	18.4933	18.9218	18.3304
Fe 271.441	46.2901	46.5562	38.2238
K 766.491	879.278	874.315	879.898
Mg 279.078	453.688	442.709	446.596
Mn 257.610	9.5302	9.3859	9.4130
Mo 202.032	9.5681	9.4748	9.3096
Na 330.237	806.814	652.621	692.489
Ni 231.604	36.8812	36.7436	35.5061
Pb 220.353	7.1650	9.8506	8.4682
Sb 206.834	16.8627	17.1437	19.7917
Se 196.026	11.2957	14.9006	22.3980
Sn 189.925	42.5374	46.7792	48.1899
Sr 216.596	9.2936	9.0731	9.1146
Ti 334.941	8.9168	8.7815	8.8638
Tl 190.794	20.3927	24.3005	20.4631
V 292.401	9.2335	8.6996	8.8394
Zn 206.200	17.1969	17.6201	17.7571

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	8.9376	ppb	0.3598	4.0	765.671
Al 308.215	172.247	ppb	1.4052	0.8	540.942
As 188.980	19.9774	ppb	2.1582	10.8	9.0478
B 249.678	86.2729	ppb	0.8436	1.0	1594.26
Ba 389.178	9.4445	ppb	0.0977	1.0	230.176
Be 313.042	3.6451	ppb	0.0206	0.6	7083.50
Ca 370.602	446.8	ppb	7.087	1.6	1422
Cd 226.502	4.6829	ppb	0.0371	0.8	259.484
Co 228.615	9.5689	ppb	0.2027	2.1	122.252
Cr 267.716	9.4296	ppb	0.0548	0.6	619.521
Cu 324.754	18.5818	ppb	0.3055	1.6	1432.28
Fe 271.441	43.6900	ppb	4.7357	10.8	100.549
K 766.491	877.830	ppb	3.0597	0.3	29705.1
Mg 279.078	447.664	ppb	5.5669	1.2	1310.80
Mn 257.610	9.4430	ppb	0.0767	0.8	2637.51
Mo 202.032	9.4508	ppb	0.1309	1.4	86.7239
Na 330.237	717.308	ppb	80.0367	11.2	80.8358
Ni 231.604	36.3770	ppb	0.7573	2.1	136.679
Pb 220.353	8.4946	ppb	1.3430	15.8	32.3895
Sb 206.834	17.9327	ppb	1.6160	9.0	35.0919
Se 196.026	16.1981	ppb	5.6637	35.0	9.8702
Sn 189.925	45.8355	ppb	2.9420	6.4	43.6239
Sr 216.596	9.1604	ppb	0.1172	1.3	160.579
Ti 334.941	8.8540	ppb	0.0682	0.8	2771.84
Tl 190.794	21.7188	ppb	2.2361	10.3	21.5213
V 292.401	8.9242	ppb	0.2769	3.1	263.992
Zn 206.200	17.5247	ppb	0.2921	1.7	36.5446

mb 680-286920/1-a (Samp) **8/1/2013, 12:31:42 AM** **Rack 3, Tube 3**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.3322u	0.2210	0.0663
Al 308.215	-1.7333u	-3.8752u	-1.7936u
As 188.980	-0.4929u	-0.1531u	-3.3516u
B 249.678	3.2547	3.6925	3.4019
Ba 389.178	0.0552	0.1606	-0.0187u
Be 313.042	0.0202	0.0166	0.0086
Ca 370.602	45.15	42.65	44.75
Cd 226.502	0.1140	0.0288	0.1801
Co 228.615	0.7574	0.9827	0.6466
Cr 267.716	0.1029	0.2710	0.0826
Cu 324.754	0.2301	-0.2327u	0.4480
Fe 271.441	-1.8035u	-1.1699u	-1.8682u
K 766.491	131.256	130.551	129.816
Mg 279.078	7.9698	11.6782	7.1356
Mn 257.610	0.2491	0.2149	0.2639
Mo 202.032	0.7445	0.2683	0.2604
Na 330.237	630.253	648.513	552.472
Ni 231.604	0.5048	0.3176	0.6563
Pb 220.353	2.2681	-0.3137u	-0.1024u
Sb 206.834	-1.9315u	-3.0133u	-2.3618u
Se 196.026	4.5006	1.9720	2.9702
Sn 189.925	1.9504	-0.4133u	-3.5052u
Sr 216.596	-0.2615u	-0.0298u	0.4248
Ti 334.941	0.0104	0.0310	0.0706
Tl 190.794	0.9376	-0.6782u	0.2317
V 292.401	-0.2429u	0.0124	0.0640
Zn 206.200	0.7841	0.5018	-0.2497u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0150	ppb	0.2854	1907.5	-6.5878
Al 308.215	-2.4673	ppb	1.2196	49.4	26.2348
As 188.980	-1.3325	ppb	1.7568	131.8	-10.1908
B 249.678	3.4497	ppb	0.2228	6.5	170.587
Ba 389.178	0.0657	ppb	0.0901	137.2	-17.6371
Be 313.042	0.0151	ppb	0.0060	39.3	-252.957
Ca 370.602	44.18	ppb	1.344	3.0	142.4
Cd 226.502	0.1076	ppb	0.0759	70.5	12.8559
Co 228.615	0.7956	ppb	0.1712	21.5	-2.8425
Cr 267.716	0.1522	ppb	0.1034	68.0	33.7658
Cu 324.754	0.1485	ppb	0.3476	234.1	261.290
Fe 271.441	-1.6139	ppb	0.3859	23.9	12.4006
K 766.491	130.541	ppb	0.7203	0.6	4574.92
Mg 279.078	8.9279	ppb	2.4181	27.1	58.2388
Mn 257.610	0.2427	ppb	0.0251	10.4	147.925
Mo 202.032	0.4244	ppb	0.2772	65.3	9.5423
Na 330.237	610.413	ppb	51.0016	8.4	75.7408
Ni 231.604	0.4929	ppb	0.1697	34.4	-3.1517
Pb 220.353	0.6173	ppb	1.4335	232.2	16.2122
Sb 206.834	-2.4355	ppb	0.5447	22.4	1.4615
Se 196.026	3.1476	ppb	1.2736	40.5	2.1787
Sn 189.925	-0.6560	ppb	2.7359	417.0	-8.2734
Sr 216.596	0.0445	ppb	0.3491	784.5	9.3702
Ti 334.941	0.0373	ppb	0.0306	82.0	-44.0191
Tl 190.794	0.1637	ppb	0.8100	494.8	-9.9933
V 292.401	-0.0555	ppb	0.1644	296.2	-4.8367
Zn 206.200	0.3454	ppb	0.5344	6127	-6.6455

lcs 680-286920/2-a (Samp) **8/1/2013, 12:36:19 AM** **Rack 3, Tube 4**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	106.072	103.820	103.397
Al 308.215	9379.34	9185.39	9256.90
As 188.980	202.119	205.490	202.802
B 249.678	378.422	371.770	373.579
Ba 389.178	207.535	202.048	203.258
Be 313.042	102.012	100.021	100.283
Ca 370.602	9917	9730	9778
Cd 226.502	100.969	99.2739	100.079
Co 228.615	102.597	101.467	101.655
Cr 267.716	211.467	207.315	208.630
Cu 324.754	208.069	203.790	204.386
Fe 271.441	9910.04	9734.02	9772.17
K 766.491	9838.76	9650.46	9694.96
Mg 279.078	9895.37	9733.29	9761.43
Mn 257.610	1054.58	1035.22	1039.61
Mo 202.032	206.212	202.260	203.717
Na 330.237	9678.04	9398.08	9648.08
Ni 231.604	200.830	197.195	199.336
Pb 220.353	100.976	100.216	97.6807
Sb 206.834	99.7471	91.7260	94.5603
Se 196.026	203.392	190.053	194.088
Sn 189.925	399.365	399.647	400.805
Sr 216.596	206.696	202.823	204.937
Ti 334.941	199.250	195.519	196.256
Tl 190.794	78.9440	80.2379	76.4137
V 292.401	204.890	200.866	202.102
Zn 206.200	199.818	199.086	200.243

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	104.429	ppb	1.4378	1.4	9003.28
Al 308.215	9273.88	ppb	98.0839	1.1	27377.0
As 188.980	203.470	ppb	1.7821	0.9	174.639
B 249.678	374.590	ppb	3.4393	0.9	6527.34
Ba 389.178	204.280	ppb	2.8830	1.4	5393.15
Be 313.042	100.772	ppb	1.0821	1.1	203393
Ca 370.602	9808	ppb	96.97	1.0	30480
Cd 226.502	100.107	ppb	0.8480	0.8	5439.85
Co 228.615	101.906	ppb	0.6055	0.6	1438.98
Cr 267.716	209.137	ppb	2.1222	1.0	13236.4
Cu 324.754	205.415	ppb	2.3179	1.1	13306.8
Fe 271.441	9805.40	ppb	92.5979	0.9	18813.9
K 766.491	9728.06	ppb	98.4184	1.0	327325
Mg 279.078	9796.70	ppb	86.6006	0.9	27983.4
Mn 257.610	1043.14	ppb	10.1504	1.0	281982
Mo 202.032	204.063	ppb	1.9990	1.0	1750.25
Na 330.237	9574.74	ppb	153.716	1.6	520.470
Ni 231.604	199.120	ppb	1.8267	0.9	770.981
Pb 220.353	99.6242	ppb	1.7254	1.7	220.221
Sb 206.834	95.3445	ppb	4.0677	4.3	163.440
Se 196.026	195.844	ppb	6.8408	3.5	116.051
Sn 189.925	399.939	ppb	0.7631	0.2	438.908
Sr 216.596	204.819	ppb	1.9389	0.9	3434.07
Ti 334.941	197.008	ppb	1.9760	1.0	62865.0
Tl 190.794	78.5319	ppb	1.9451	2.5	103.309
V 292.401	202.619	ppb	2.0615	1.0	6062.50
Zn 206.200	199.716	ppb	0.5856	0.3	353.309

lb 680-286667/14-d (Samp) **8/1/2013, 12:40:55 AM** **Rack 3, Tube 5**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.1501	-0.0415u	-0.0513u
Al 308.215	2.8309	1.2032	3.5160
As 188.980	-0.1394u	-1.4533u	-0.7257u
B 249.678	15.2126	15.7571	15.0658
Ba 389.178	0.3763	0.6641	1.2663
Be 313.042	0.0240	0.0186	0.0138
Ca 370.602	140.8	141.6	140.5
Cd 226.502	0.0929	0.1720	0.1815
Co 228.615	0.4430	0.3412	0.5246
Cr 267.716	0.0756	0.0803	0.1895
Cu 324.754	0.3856	0.3998	-0.0152u
Fe 271.441	3.1687	6.8547	1.2274
K 766.491	35.0831	34.9640	34.3486
Mg 279.078	25.7681	24.7271	22.1085
Mn 257.610	0.0252	0.0155	0.0275
Mo 202.032	0.5339	0.4609	0.7319
Na 330.237	103891x	104309x	100312x
Ni 231.604	0.4558	0.0204	0.1557
Pb 220.353	-0.4487u	-2.1781u	2.1428
Sb 206.834	-1.7805u	0.3215	-0.8875u
Se 196.026	3.8437	-1.9469u	0.9097
Sn 189.925	0.9546	0.1834	-0.5781u
Sr 216.596	0.7445	0.4781	0.4285
Ti 334.941	0.0582	-0.0008u	-0.0157u
Tl 190.794	-0.3409u	-2.2410u	0.3976
V 292.401	-0.5010u	-0.1556u	-0.1466u
Zn 206.200	0.4309	1.2206	0.2243

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0191b	ppb	0.1135	594.5	-3.6807
Al 308.215	2.5167b	ppb	1.1880	47.2	40.9696
As 188.980	-0.7728b	ppb	0.6582	85.2	-9.6855
B 249.678	15.3452b	ppb	0.3642	2.4	375.075
Ba 389.178	0.7689b	ppb	0.4541	59.1	0.8807
Be 313.042	0.0188b	ppb	0.0051	27.3	-257.947
Ca 370.602	140.9b	ppb	0.5803	0.4	449.3
Cd 226.502	0.1488b	ppb	0.0486	32.7	14.2653
Co 228.615	0.4363b	ppb	0.0919	21.1	-7.9768
Cr 267.716	0.1151b	ppb	0.0644	56.0	33.7748
Cu 324.754	0.2567b	ppb	0.2356	91.8	268.171
Fe 271.441	3.7503b	ppb	2.8584	76.2	22.6212
K 766.491	34.7986b	ppb	0.3942	1.1	1355.25
Mg 279.078	24.2012b	ppb	1.8856	7.8	101.856
Mn 257.610	0.0227b	ppb	0.0064	28.0	88.0344
Mo 202.032	0.5756b	ppb	0.1402	24.4	10.8363
Na 330.237	102837xb	ppb	2196.63	2.1	5220.80
Ni 231.604	0.2106b	ppb	0.2229	105.8	-4.2507
Pb 220.353	-0.1613b	ppb	2.1748	1348.0	14.6108
Sb 206.834	-0.7822b	ppb	1.0550	134.9	4.1872
Se 196.026	0.9355b	ppb	2.8954	309.5	0.8754
Sn 189.925	0.1866b	ppb	0.7664	410.7	-7.2849
Sr 216.596	0.5504b	ppb	0.1700	30.9	17.8435
Ti 334.941	0.0139b	ppb	0.0391	281.2	-60.3224
Tl 190.794	-0.7281b	ppb	1.3612	187.0	-11.2978
V 292.401	-0.2677b	ppb	0.2021	75.5	-12.1502
Zn 206.200	0.6253b	ppb	0.5258	84.1	7.1331

680-92676-a-1-e (Samp) **8/1/2013, 12:45:31 AM** **Rack 3, Tube 6**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	1.3316u	1.2756u	1.3406u
Al 308.215	53.0670	54.3259	56.6392
As 188.980	-1.3534u	-1.2108u	-7.1597u
B 249.678	43.8472	43.3160	43.3764
Ba 389.178	76.7813	77.0154	76.6414
Be 313.042	0.0195	0.0187	0.0224
Ca 370.602	1916	1907	1921
Cd 226.502	32.9799	33.2572	33.1148
Co 228.615	2.7977	3.3419	3.1356
Cr 267.716	2290.04	2283.73	2286.12
Cu 324.754	0.3208	0.9266	0.9614
Fe 271.441	5.7003	6.0833	5.7663
K 766.491	207.424	206.517	206.975
Mg 279.078	112.627	112.782	111.899
Mn 257.610	5.0098	5.0492	5.0586
Mo 202.032	-0.1284u	0.1414	0.0462
Na 330.237	107286x	106972x	107065x
Ni 231.604	1.6122	1.6959	1.0554
Pb 220.353	2.8429	0.9657	0.7201
Sb 206.834	195.531	197.147	192.739
Se 196.026	4.5211	0.9047	7.8049
Sn 189.925	4.7830	7.6409	3.2484
Sr 216.596	3753.85	3744.00	3744.11
Ti 334.941	2.6168	2.6155	2.6137
Tl 190.794	1.3168	0.7880	-2.2568u
V 292.401	0.2709u	0.3809u	0.1217u
Zn 206.200	4702.82	4693.74	4704.32

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	1.3159b	ppb	0.0352	2.7	-85.5540
Al 308.215	54.6773b	ppb	1.8118	3.3	195.072
As 188.980	-3.2413b	ppb	3.3942	104.7	-11.9134
B 249.678	43.5132b	ppb	0.2908	0.7	859.279
Ba 389.178	76.8127b	ppb	0.1890	0.2	1998.66
Be 313.042	0.0202b	ppb	0.0020	9.7	-254.469
Ca 370.602	1915b	ppb	6.920	0.4	6078
Cd 226.502	33.1173b	ppb	0.1386	0.4	1790.07
Co 228.615	3.0917b	ppb	0.2747	8.9	39.1042
Cr 267.716	2286.63b	ppb	3.1879	0.1	144419
Cu 324.754	0.7362b	ppb	0.3602	48.9	298.661
Fe 271.441	5.8500b	ppb	0.2047	3.5	32.1570
K 766.491	206.972b	ppb	0.4534	0.2	7145.18
Mg 279.078	112.436b	ppb	0.4715	0.4	353.684
Mn 257.610	5.0392b	ppb	0.0259	0.5	1443.97
Mo 202.032	0.0197b	ppb	0.1368	693.5	6.0901
Na 330.237	107107xb	ppb	161.135	0.2	5367.89
Ni 231.604	1.4545b	ppb	0.3482	23.9	0.5963
Pb 220.353	1.5095b	ppb	1.1612	76.9	18.0455
Sb 206.834	195.139b	ppb	2.2302	1.1	360.703
Se 196.026	4.4102b	ppb	3.4514	78.3	2.9240
Sn 189.925	5.2241b	ppb	2.2292	42.7	-1.6587
Sr 216.596	3747.32b	ppb	5.6555	0.2	62576.6
Ti 334.941	2.6153b	ppb	0.0016	0.1	769.945
Tl 190.794	-0.0506b	ppb	1.9288	3808.7	-10.3006
V 292.401	0.2579b	ppb	0.1301	50.5	-129.624
Zn 206.200	4700.30b	ppb	5.7244	0.1	8187.41

680-92676-a-1-e SD^5 (Samp) **8/1/2013, 12:50:07 AM** **Rack 3, Tube 7**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	0.1581u	0.0077u	0.3047u
Al 308.215	12.7650	11.3297	10.8864
As 188.980	-1.2233u	-1.3695u	-1.9454u
B 249.678	10.2877	9.8478	9.1155
Ba 389.178	18.0540	17.9120	17.3428
Be 313.042	0.0185	0.0143	0.0152
Ca 370.602	470.6	461.6	453.4
Cd 226.502	7.4694	7.5661	7.0471
Co 228.615	0.8427	1.0995	1.3698
Cr 267.716	511.497	511.280	496.663
Cu 324.754	-0.1759u	0.0128	0.2776
Fe 271.441	-1.4252u	0.9125	-1.0796u
K 766.491	43.3612	43.6651	41.7275
Mg 279.078	25.9007	30.0273	22.8308
Mn 257.610	1.7807	1.7768	1.6933
Mo 202.032	0.1733	0.2026	0.0657
Na 330.237	22760.6	22658.2	22048.8
Ni 231.604	0.5162	1.5421	0.8629
Pb 220.353	1.2425	0.0140	1.4192
Sb 206.834	45.9653	45.8496	40.9073
Se 196.026	-2.9344u	1.5928	3.2980
Sn 189.925	0.7396	3.1518	2.1871
Sr 216.596	832.241	833.611	810.989
Ti 334.941	0.6259	0.5057	0.4901
Tl 190.794	-0.9569u	-1.4478u	2.5442
V 292.401	0.0129u	-0.0286u	-0.0722u
Zn 206.200	1054.36	1057.50	1024.73

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1568	ppb	0.1485	94.7	-34.6082
Al 308.215	11.6603	ppb	0.9820	8.4	67.9740
As 188.980	-1.5127	ppb	0.3818	25.2	-10.3533
B 249.678	9.7503	ppb	0.5922	6.1	278.888
Ba 389.178	17.7696	ppb	0.3764	2.1	447.462
Be 313.042	0.0160	ppb	0.0022	13.8	-253.602
Ca 370.602	461.9	ppb	8.575	1.9	1468
Cd 226.502	7.3609	ppb	0.2760	3.7	403.386
Co 228.615	1.1040	ppb	0.2636	23.9	3.5979
Cr 267.716	506.480	ppb	8.5023	1.7	32006.9
Cu 324.754	0.0381	ppb	0.2278	597.3	254.285
Fe 271.441	-0.5308	ppb	1.2618	237.7	15.6569
K 766.491	42.9179	ppb	1.0420	2.4	1628.29
Mg 279.078	26.2529	ppb	3.6111	13.8	107.675
Mn 257.610	1.7503	ppb	0.0494	2.8	555.220
Mo 202.032	0.1472	ppb	0.0721	49.0	7.1735
Na 330.237	22489.2	ppb	384.813	1.7	1161.77
Ni 231.604	0.9737	ppb	0.5218	53.6	-1.2769
Pb 220.353	0.8919	ppb	0.7654	85.8	16.7773
Sb 206.834	44.2407	ppb	2.8874	6.5	85.8558
Se 196.026	0.6521	ppb	3.2209	493.9	0.7089
Sn 189.925	2.0262	ppb	1.2141	59.9	-5.2689
Sr 216.596	825.614	ppb	12.6836	1.5	13793.7
Ti 334.941	0.5406	ppb	0.0743	13.8	114.763
Tl 190.794	0.0465	ppb	2.1769	4679.7	-10.1646
V 292.401	-0.0293	ppb	0.0426	145.2	-33.7757
Zn 206.200	1045.53	ppb	18.0790	6167	1825.91

680-92676-a-1-e PDS (Samp) **8/1/2013, 12:54:44 AM** **Rack 3, Tube 8**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	42.7248	41.4935	41.5504
Al 308.215	1868.37	1867.41	1850.23
As 188.980	188.533	186.965	189.776
B 249.678	490.585	489.274	488.160
Ba 389.178	272.458	272.081	271.473
Be 313.042	48.3832	48.3382	48.2277
Ca 370.602	3709	3705	3675
Cd 226.502	81.6174	81.0677	80.8166
Co 228.615	195.367	196.493	195.441
Cr 267.716	2484.73	2479.90	2468.26
Cu 324.754	199.151	199.272	197.455
Fe 271.441	1890.19	1889.20	1883.95
K 766.491	2244.70	2245.30	2236.37
Mg 279.078	2001.79	1997.49	1990.74
Mn 257.610	204.692	204.539	203.583
Mo 202.032	198.275	195.998	196.428
Na 330.237	109340x	108953x	108698x
Ni 231.604	190.393	189.848	187.719
Pb 220.353	192.462	192.828	192.011
Sb 206.834	381.873	373.498	379.969
Se 196.026	197.273	184.157	193.814
Sn 189.925	202.161	205.056	199.654
Sr 216.596	3940.44	3928.17	3911.80
Ti 334.941	193.632	193.456	192.947
Tl 190.794	188.149	184.467	185.601
V 292.401	194.869	194.634	193.295
Zn 206.200	4897.79	4875.60	4847.12

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	41.9229b	ppb	0.6950	1.7	3412.29
Al 308.215	1862.00b	ppb	10.2028	0.5	5511.72
As 188.980	188.425b	ppb	1.4087	0.7	161.060
B 249.678	489.339b	ppb	1.2137	0.2	8518.75
Ba 389.178	272.004b	ppb	0.4967	0.2	7136.19
Be 313.042	48.3164b	ppb	0.0800	0.2	97338.7
Ca 370.602	3697b	ppb	18.29	0.5	11691
Cd 226.502	81.1672b	ppb	0.4096	0.5	4386.08
Co 228.615	195.767b	ppb	0.6297	0.3	2786.99
Cr 267.716	2477.63b	ppb	8.4626	0.3	156479
Cu 324.754	198.626b	ppb	1.0158	0.5	12872.5
Fe 271.441	1887.78b	ppb	3.3534	0.2	3666.91
K 766.491	2242.12b	ppb	4.9926	0.2	75584.1
Mg 279.078	1996.67b	ppb	5.5663	0.3	5729.59
Mn 257.610	204.271b	ppb	0.6010	0.3	55285.3
Mo 202.032	196.900b	ppb	1.2098	0.6	1689.48
Na 330.237	108997xb	ppb	323.524	0.3	5459.18
Ni 231.604	189.320b	ppb	1.4131	0.7	732.254
Pb 220.353	192.434b	ppb	0.4090	0.2	410.316
Sb 206.834	378.447b	ppb	4.3897	1.2	662.670
Se 196.026	191.748b	ppb	6.7975	3.5	113.359
Sn 189.925	202.290b	ppb	2.7034	1.3	218.322
Sr 216.596	3926.80b	ppb	14.3676	0.4	65567.3
Ti 334.941	193.345b	ppb	0.3556	0.2	61645.6
Tl 190.794	186.073b	ppb	1.8859	1.0	262.106
V 292.401	194.266b	ppb	0.8491	0.4	5678.62
Zn 206.200	4873.50b	ppb	25.4023	0.5	8488.48

680-92676-a-1-f ms (Samp) **8/1/2013, 12:59:20 AM** **Rack 3, Tube 9**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	89.2524	89.6612	90.0966
Al 308.215	1067.04	1082.44	1083.66
As 188.980	110.919	109.283	111.474
B 249.678	238.829	239.422	240.652
Ba 389.178	171.177	171.422	172.812
Be 313.042	108.280	108.144	108.467
Ca 370.602	12314	12428	12461
Cd 226.502	134.016	133.679	134.149
Co 228.615	111.128	110.239	111.303
Cr 267.716	2020.07	2025.04	2031.58
Cu 324.754	112.065	111.589	112.109
Fe 271.441	10573.1	10608.5	10640.5
K 766.491	11818.8	11844.2	11779.2
Mg 279.078	10529.9	10586.7	10615.4
Mn 257.610	1129.71	1133.52	1136.19
Mo 202.032	109.905	110.588	110.029
Na 330.237	99485.9x	99511.7x	99540.4x
Ni 231.604	109.224	109.441	107.427
Pb 220.353	106.380	108.981	110.694
Sb 206.834	268.059	275.037	271.480
Se 196.026	103.338	105.824	115.939
Sn 189.925	96.2690	100.418	100.308
Sr 216.596	3234.75	3235.51	3246.80
Ti 334.941	107.257	107.348	107.989
Tl 190.794	22.5339	23.7007	23.3376
V 292.401	109.426	110.489	109.788
Zn 206.200	4059.14	4049.82	4081.44

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	89.6701b	ppb	0.4222	0.5	7572.69
Al 308.215	1077.71b	ppb	9.2647	0.9	3204.51
As 188.980	110.559b	ppb	1.1393	1.0	90.6552
B 249.678	239.635b	ppb	0.9294	0.4	4205.44
Ba 389.178	171.803b	ppb	0.8818	0.5	4542.93
Be 313.042	108.297b	ppb	0.1621	0.1	218613
Ca 370.602	12401b	ppb	76.95	0.6	38595
Cd 226.502	133.948b	ppb	0.2421	0.2	7265.29
Co 228.615	110.890b	ppb	0.5704	0.5	1575.41
Cr 267.716	2025.56b	ppb	5.7742	0.3	127940
Cu 324.754	111.921b	ppb	0.2881	0.3	7366.84
Fe 271.441	10607.4b	ppb	33.7314	0.3	20354.5
K 766.491	11814.1b	ppb	32.7409	0.3	397475
Mg 279.078	10577.3b	ppb	43.5215	0.4	30214.3
Mn 257.610	1133.14b	ppb	3.2582	0.3	306305
Mo 202.032	110.174b	ppb	0.3635	0.3	947.380
Na 330.237	99512.7xb	ppb	27.2584	0.0	4991.33
Ni 231.604	108.697b	ppb	1.1053	1.0	418.560
Pb 220.353	108.685b	ppb	2.1721	2.0	239.350
Sb 206.834	271.526b	ppb	3.4890	1.3	482.504
Se 196.026	108.367b	ppb	6.6745	6.2	64.5435
Sn 189.925	98.9983b	ppb	2.3643	2.4	103.021
Sr 216.596	3239.02b	ppb	6.7493	0.2	54100.8
Ti 334.941	107.531b	ppb	0.3987	0.4	34306.9
Tl 190.794	23.1907b	ppb	0.5971	2.6	22.3640
V 292.401	109.901b	ppb	0.5407	0.5	3174.90
Zn 206.200	4063.47b	ppb	16.2463	0.4	7078.88

680-92676-a-1-g msd (Samp) **8/1/2013, 1:03:56 AM** **Rack 3, Tube 10**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	81.0488	82.0525	81.0071
Al 308.215	960.229	964.899	950.105
As 188.980	97.1332	96.1034	98.0647
B 249.678	218.534	221.389	218.862
Ba 389.178	165.344	165.275	163.566
Be 313.042	96.6420	97.4768	96.1588
Ca 370.602	11344	11384	11176
Cd 226.502	124.037	125.021	123.738
Co 228.615	98.7847	100.382	99.2536
Cr 267.716	2150.62	2163.37	2130.10
Cu 324.754	99.5913	101.099	100.358
Fe 271.441	9470.56	9537.25	9403.44
K 766.491	10647.5	10780.5	10612.5
Mg 279.078	9420.37	9500.12	9401.25
Mn 257.610	1010.92	1017.02	1003.37
Mo 202.032	98.5022	99.1911	97.4965
Na 330.237	105734x	105630x	104600x
Ni 231.604	95.9393	97.3109	95.6613
Pb 220.353	98.6572	93.9871	95.0687
Sb 206.834	268.542	270.623	268.359
Se 196.026	90.8634	95.5179	92.0370
Sn 189.925	95.4173	93.4875	91.0570
Sr 216.596	3447.67	3462.66	3425.20
Ti 334.941	96.9587	97.4329	96.1559
Tl 190.794	21.1197	20.2358	20.4974
V 292.401	97.7136	98.3882	97.1189
Zn 206.200	4317.36	4348.51	4295.93

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	81.3695b	ppb	0.5919	0.7	6844.41
Al 308.215	958.411b	ppb	7.5627	0.8	2853.53
As 188.980	97.1004b	ppb	0.9810	1.0	78.5232
B 249.678	219.595b	ppb	1.5623	0.7	3863.66
Ba 389.178	164.728b	ppb	1.0071	0.6	4351.76
Be 313.042	96.7592b	ppb	0.6668	0.7	195290
Ca 370.602	11301b	ppb	110.6	1.0	35186
Cd 226.502	124.265b	ppb	0.6716	0.5	6738.98
Co 228.615	99.4733b	ppb	0.8208	0.8	1413.10
Cr 267.716	2148.03b	ppb	16.7831	0.8	135673
Cu 324.754	100.350b	ppb	0.7541	0.8	6631.23
Fe 271.441	9470.42b	ppb	66.9054	0.7	18175.3
K 766.491	10680.2b	ppb	88.6070	0.8	359343
Mg 279.078	9440.58b	ppb	52.4423	0.6	26970.6
Mn 257.610	1010.43b	ppb	6.8392	0.7	273144
Mo 202.032	98.3966b	ppb	0.8522	0.9	846.740
Na 330.237	105321xb	ppb	626.407	0.6	5280.33
Ni 231.604	96.3038b	ppb	0.8832	0.9	370.258
Pb 220.353	95.9043b	ppb	2.4446	2.5	212.970
Sb 206.834	269.175b	ppb	1.2572	0.5	480.506
Se 196.026	92.8061b	ppb	2.4207	2.6	55.3355
Sn 189.925	93.3206b	ppb	2.1850	2.3	96.6849
Sr 216.596	3445.18b	ppb	18.8517	0.5	57541.7
Ti 334.941	96.8492b	ppb	0.6455	0.7	30891.4
Tl 190.794	20.6176b	ppb	0.4541	2.2	18.7434
V 292.401	97.7402b	ppb	0.6351	0.6	2802.58
Zn 206.200	4320.60b	ppb	26.4420	0.6	7526.43

680-92668-a-6-c (Samp) **8/1/2013, 1:08:32 AM** **Rack 3, Tube 11**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.1143	-0.0677u	0.1026
Al 308.215	2026.41	2022.62	2030.21
As 188.980	-2.3258u	-0.8146u	-0.4295u
B 249.678	68.1561	68.5894	68.4883
Ba 389.178	23.8721	23.6874	23.5683
Be 313.042	0.0210	0.0192	0.0160
Ca 370.602	1032	1036	1039
Cd 226.502	-0.0134u	0.2748	0.0512
Co 228.615	0.6328	0.4331	1.1350
Cr 267.716	1.4549	1.3985	1.3823
Cu 324.754	0.5972	0.7410	0.4632
Fe 271.441	23.1316	25.4527	21.1308
K 766.491	191.390	192.055	192.694
Mg 279.078	198.819	200.989	201.519
Mn 257.610	904.572	904.148	904.442
Mo 202.032	-0.0812u	0.5317	0.1989
Na 330.237	117636x	118244x	118216x
Ni 231.604	1.4073	1.0628	1.8921
Pb 220.353	-0.7477u	-1.8928u	-1.4616u
Sb 206.834	1.0369	1.9228	0.6265
Se 196.026	-1.5710u	3.2108	9.9819
Sn 189.925	0.2457	-0.6775u	-2.1431u
Sr 216.596	5.1972	5.3145	5.0682
Ti 334.941	-0.0657u	-0.0010u	0.0440
Tl 190.794	-1.4682u	-0.9344u	0.8794
V 292.401	-0.2550u	0.0563	-0.0124u
Zn 206.200	1.2951	0.6009	1.6193

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0497b	ppb	0.1019	204.9	3.4594
Al 308.215	2026.41b	ppb	3.7950	0.2	6011.21
As 188.980	-1.1900b	ppb	1.0023	84.2	-10.0330
B 249.678	68.4113b	ppb	0.2267	0.3	1287.25
Ba 389.178	23.7093b	ppb	0.1531	0.6	604.019
Be 313.042	0.0187b	ppb	0.0026	13.7	-259.697
Ca 370.602	1036b	ppb	3.964	0.4	3312
Cd 226.502	0.1042b	ppb	0.1512	145.2	11.8382
Co 228.615	0.7336b	ppb	0.3616	49.3	-3.7142
Cr 267.716	1.4119b	ppb	0.0381	2.7	121.161
Cu 324.754	0.6005b	ppb	0.1390	23.1	289.998
Fe 271.441	23.2384b	ppb	2.1629	9.3	59.9963
K 766.491	192.046b	ppb	0.6525	0.3	6643.25
Mg 279.078	200.442b	ppb	1.4307	0.7	584.780
Mn 257.610	904.387b	ppb	0.2174	0.0	244379
Mo 202.032	0.2165b	ppb	0.3069	141.8	7.7630
Na 330.237	118032xb	ppb	343.248	0.3	5985.51
Ni 231.604	1.4541b	ppb	0.4166	28.7	0.5964
Pb 220.353	-1.3674b	ppb	0.5783	42.3	12.3277
Sb 206.834	1.1954b	ppb	0.6625	55.4	7.4798
Se 196.026	3.8739b	ppb	5.8049	149.8	2.8715
Sn 189.925	-0.8583b	ppb	1.2046	140.4	-8.4436
Sr 216.596	5.1933b	ppb	0.1232	2.4	95.5054
Ti 334.941	-0.0076b	ppb	0.0552	726.7	-67.5248
Tl 190.794	-0.5077b	ppb	1.2306	242.4	-11.5886
V 292.401	-0.0704b	ppb	0.1635	232.4	-6.3485
Zn 206.200	1.1718b	ppb	0.5203	44.4	8.0799

680-92668-a-7-c (Samp) **8/1/2013, 1:13:09 AM** **Rack 3, Tube 12**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.0261	0.0300	-0.1968u
Al 308.215	1361.69	1370.37	1370.70
As 188.980	-3.0205u	3.2430	-1.0337u
B 249.678	45.2888	45.4786	44.7329
Ba 389.178	23.7429	23.5589	23.6021
Be 313.042	0.0204	0.0259	0.0264
Ca 370.602	884.6	884.4	886.1
Cd 226.502	0.0872	0.0319	0.0129
Co 228.615	1.0747	0.9787	0.7550
Cr 267.716	1.1240	1.0327	1.1002
Cu 324.754	0.3950	0.5529	0.4155
Fe 271.441	113.276	106.069	108.317
K 766.491	175.989	174.631	173.084
Mg 279.078	177.773	174.232	176.764
Mn 257.610	1024.54	1021.14	1016.27
Mo 202.032	0.5059	0.0900	0.2050
Na 330.237	110968x	110582x	110038x
Ni 231.604	0.7936	0.2950	1.8284
Pb 220.353	-0.1303u	-0.2491u	-0.6520u
Sb 206.834	-0.1847u	0.2874	1.2024
Se 196.026	4.7332	2.4113	3.7272
Sn 189.925	-0.7882u	1.5414	-3.2767u
Sr 216.596	3.9304	4.5327	4.4410
Ti 334.941	-0.0587u	-0.0465u	-0.0817u
Tl 190.794	0.1956u	-2.1340u	0.8231
V 292.401	-0.2174u	-0.2532u	-0.0393u
Zn 206.200	1.0656	0.9068	-0.6215u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0643b	ppb	0.1182	183.8	-5.7281
Al 308.215	1367.59b	ppb	5.1087	0.4	4067.75
As 188.980	-0.2704b	ppb	3.2008	1183.7	-9.2133
B 249.678	45.1668b	ppb	0.3875	0.9	887.467
Ba 389.178	23.6346b	ppb	0.0962	0.4	602.118
Be 313.042	0.0242b	ppb	0.0033	13.6	-247.739
Ca 370.602	885.0b	ppb	0.9388	0.1	2830
Cd 226.502	0.0440b	ppb	0.0386	87.6	9.0106
Co 228.615	0.9361b	ppb	0.1640	17.5	-0.8267
Cr 267.716	1.0856b	ppb	0.0474	4.4	101.065
Cu 324.754	0.4545b	ppb	0.0859	18.9	280.760
Fe 271.441	109.220b	ppb	3.6875	3.4	224.713
K 766.491	174.568b	ppb	1.4533	0.8	6055.48
Mg 279.078	176.257b	ppb	1.8241	1.0	513.450
Mn 257.610	1020.65b	ppb	4.1586	0.4	275784
Mo 202.032	0.2670b	ppb	0.2147	80.4	8.1901
Na 330.237	110529xb	ppb	466.890	0.4	5607.90
Ni 231.604	0.9723b	ppb	0.7821	80.4	-1.2794
Pb 220.353	-0.3438b	ppb	0.2734	79.5	14.4859
Sb 206.834	0.4350b	ppb	0.7052	162.1	6.2216
Se 196.026	3.6239b	ppb	1.1644	32.1	2.7592
Sn 189.925	-0.8412b	ppb	2.4095	286.4	-8.4282
Sr 216.596	4.3013b	ppb	0.3245	7.5	80.7185
Ti 334.941	-0.0623b	ppb	0.0178	28.7	-84.4593
Tl 190.794	-0.3717b	ppb	1.5580	419.1	-11.4772
V 292.401	-0.1700b	ppb	0.1145	67.4	-9.2729
Zn 206.200	0.4503b	ppb	0.9316	206.9	-6.8251

680-92693-a-1-e (Samp) **8/1/2013, 1:26:58 AM** **Rack 3, Tube 15**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.1154	-0.0984u	-0.2024u
Al 308.215	8.8369	8.3344	7.7731
As 188.980	-0.6155u	-2.1960u	0.2755
B 249.678	15.7088	15.9499	15.8643
Ba 389.178	3.9342	4.5749	3.5915
Be 313.042	0.0150	0.0132	0.0082
Ca 370.602	21123	21851	21681
Cd 226.502	0.1691	0.1964	0.1155
Co 228.615	0.3624	0.0837	0.5295
Cr 267.716	0.4231	0.4479	0.4911
Cu 324.754	-0.0852u	0.0108	0.0987
Fe 271.441	8.6267	6.9962	5.1201
K 766.491	1062.89	1091.55	1084.12
Mg 279.078	435.394	451.958	443.660
Mn 257.610	0.8112	0.8952	0.8282
Mo 202.032	0.5354	0.3131	0.7358
Na 330.237	99046.7x	102662x	101699x
Ni 231.604	0.8322	0.8987	1.2696
Pb 220.353	-2.6165u	-0.0706u	-0.4101u
Sb 206.834	1.4938	-2.0961u	0.1229
Se 196.026	4.1701	12.3292	-1.4086u
Sn 189.925	0.1507	-0.4816u	0.0775
Sr 216.596	117.606	121.686	121.035
Ti 334.941	0.1552	0.1995	0.1607
Tl 190.794	1.7572	-0.8884u	2.6836
V 292.401	1.0334	1.1845	1.5963
Zn 206.200	2.9992	2.1241	3.8853

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0618b	ppb	0.1620	262.2	-16.8793
Al 308.215	8.3148b	ppb	0.5322	6.4	57.9474
As 188.980	-0.8453b	ppb	1.2517	148.1	-9.7510
B 249.678	15.8410b	ppb	0.1222	0.8	383.585
Ba 389.178	4.0336b	ppb	0.4992	12.4	87.9004
Be 313.042	0.0121b	ppb	0.0036	29.4	-263.192
Ca 370.602	21552b	ppb	381.1	1.8	68375
Cd 226.502	0.1603b	ppb	0.0412	25.7	14.9369
Co 228.615	0.3252b	ppb	0.2252	69.2	-9.5502
Cr 267.716	0.4540b	ppb	0.0344	7.6	55.1288
Cu 324.754	0.0081b	ppb	0.0920	1138.9	252.360
Fe 271.441	6.9143b	ppb	1.7547	25.4	28.6803
K 766.491	1079.52b	ppb	14.8731	1.4	36487.7
Mg 279.078	443.671b	ppb	8.2822	1.9	1299.64
Mn 257.610	0.8449b	ppb	0.0444	5.3	314.487
Mo 202.032	0.5281b	ppb	0.2114	40.0	10.4264
Na 330.237	101136xb	ppb	1872.30	1.9	5135.13
Ni 231.604	1.0002b	ppb	0.2357	23.6	-1.1729
Pb 220.353	-1.0324b	ppb	1.3824	133.9	12.8203
Sb 206.834	-0.1598b	ppb	1.8116	1133.6	5.2220
Se 196.026	5.0302b	ppb	6.9092	137.4	3.2880
Sn 189.925	-0.0844b	ppb	0.3459	409.6	-7.5759
Sr 216.596	120.109b	ppb	2.1920	1.8	2017.51
Ti 334.941	0.1718b	ppb	0.0241	14.0	-7.6242
Tl 190.794	1.1841b	ppb	1.8537	156.5	-8.5050
V 292.401	1.2714b	ppb	0.2914	22.9	34.3011
Zn 206.200	3.0029b	ppb	0.8806	29.3	11.2751

680-92682-a-1-f (Samp) **8/1/2013, 1:31:34 AM** **Rack 3, Tube 16**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	0.0423u	0.1440	0.0046u
Al 308.215	1.6714	-0.5470u	3.7011
As 188.980	-1.7327u	-1.0441u	-0.2848u
B 249.678	15.3766	15.6453	15.1305
Ba 389.178	26.0705	26.2492	26.0106
Be 313.042	0.0136	0.0089	0.0158
Ca 370.602	20507	20382	20326
Cd 226.502	0.2842	0.1000	-0.0178u
Co 228.615	0.0593	0.7029	0.1365
Cr 267.716	0.0777	0.2041	0.1362
Cu 324.754	-0.2543u	0.1153	-0.2659u
Fe 271.441	4.8643	5.1277	4.2212
K 766.491	608.551	603.258	598.924
Mg 279.078	1116.16	1112.31	1106.82
Mn 257.610	11.1532	11.0293	10.9664
Mo 202.032	0.2566	0.7456	0.0681
Na 330.237	109878x	109434x	108896x
Ni 231.604	0.6775	0.3852	1.7378
Pb 220.353	-1.4641u	2.5928	-0.4388u
Sb 206.834	1.6020	-2.7174u	-1.2524u
Se 196.026	-5.4356u	3.1021	-2.2666u
Sn 189.925	2.6839	1.7182	-1.8145u
Sr 216.596	72.5094	72.3476	71.1093
Ti 334.941	0.0362	0.0227	0.0095u
Tl 190.794	-1.1676u	-0.2392u	1.6312
V 292.401	-0.1002u	-0.2347u	0.0025u
Zn 206.200	1.5943	2.4671	2.4047

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0637b	ppb	0.0721	113.3	-3.5367
Al 308.215	1.6085b	ppb	2.1248	132.1	38.2744
As 188.980	-1.0205b	ppb	0.7242	71.0	-9.9092
B 249.678	15.3841b	ppb	0.2575	1.7	375.734
Ba 389.178	26.1101b	ppb	0.1241	0.5	669.790
Be 313.042	0.0128b	ppb	0.0035	27.3	-263.328
Ca 370.602	20405b	ppb	92.59	0.5	64738
Cd 226.502	0.1221b	ppb	0.1522	124.7	12.8180
Co 228.615	0.2995b	ppb	0.3514	117.3	-9.9184
Cr 267.716	0.1393b	ppb	0.0633	45.4	35.5212
Cu 324.754	-0.1350b	ppb	0.2168	160.6	243.286
Fe 271.441	4.7377b	ppb	0.4663	9.8	24.4964
K 766.491	603.578b	ppb	4.8213	0.8	20482.4
Mg 279.078	1111.76b	ppb	4.6966	0.4	3207.17
Mn 257.610	11.0496b	ppb	0.0950	0.9	3077.36
Mo 202.032	0.3568b	ppb	0.3497	98.0	8.9641
Na 330.237	109403xb	ppb	491.958	0.4	5551.21
Ni 231.604	0.9335b	ppb	0.7117	76.2	-1.4329
Pb 220.353	0.2300b	ppb	2.1095	917.3	15.4193
Sb 206.834	-0.7893b	ppb	2.1966	278.3	4.1804
Se 196.026	-1.5334b	ppb	4.3158	281.5	-0.5759
Sn 189.925	0.8625b	ppb	2.3681	274.6	-6.5156
Sr 216.596	71.9887b	ppb	0.7659	1.1	1213.88
Ti 334.941	0.0228b	ppb	0.0133	58.5	-52.4396
Tl 190.794	0.0748b	ppb	1.4256	1905.9	-10.1332
V 292.401	-0.1108b	ppb	0.1189	107.4	-7.4125
Zn 206.200	2.1554b	ppb	0.4869	22.6	0.7997

680-92682-a-2-e (Samp) **8/1/2013, 1:36:10 AM** **Rack 3, Tube 17**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.0673	-0.1129u	0.1464
Al 308.215	4.5210	3.0549	3.2452
As 188.980	-1.7848u	-1.1079u	1.1923
B 249.678	20.5937	20.8434	20.4276
Ba 389.178	21.7985	22.8737	22.9246
Be 313.042	0.0056	0.0151	0.0179
Ca 370.602	20570	20549	20575
Cd 226.502	0.1370	0.1945	0.2572
Co 228.615	0.6373	0.2707	0.3686
Cr 267.716	0.3185	0.0217	0.3114
Cu 324.754	-0.3972u	-0.2784u	-0.3731u
Fe 271.441	6.0807	6.2964	0.3895
K 766.491	1134.55	1136.37	1140.15
Mg 279.078	1132.29	1130.43	1135.65
Mn 257.610	4.7811	4.7620	4.6663
Mo 202.032	-0.1446u	0.6010	0.3401
Na 330.237	114187x	114354x	114544x
Ni 231.604	1.3496	0.7966	1.1150
Pb 220.353	1.0156	0.0794	1.0111
Sb 206.834	1.0584	2.2514	0.2326
Se 196.026	-0.8279u	2.2383	-1.4544u
Sn 189.925	2.1434	-0.9588u	1.3179
Sr 216.596	65.0125	66.2125	65.9409
Ti 334.941	-0.0127u	0.0258	-0.0041u
Tl 190.794	-2.1705u	-1.8350u	0.1484
V 292.401	0.0034u	-0.1650u	-0.0506u
Zn 206.200	0.3796	-0.0690u	0.9428

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0336b	ppb	0.1329	395.5	-5.8385
Al 308.215	3.6070b	ppb	0.7972	22.1	44.1627
As 188.980	-0.5668b	ppb	1.5606	275.3	-9.4995
B 249.678	20.6216b	ppb	0.2093	1.0	465.771
Ba 389.178	22.5323b	ppb	0.6360	2.8	575.869
Be 313.042	0.0128b	ppb	0.0064	50.2	-263.745
Ca 370.602	20564b	ppb	13.91	0.1	65244
Cd 226.502	0.1962b	ppb	0.0601	30.6	16.7693
Co 228.615	0.4255b	ppb	0.1898	44.6	-8.1170
Cr 267.716	0.2172b	ppb	0.1693	78.0	40.5135
Cu 324.754	-0.3496b	ppb	0.0628	18.0	229.652
Fe 271.441	4.2555b	ppb	3.3498	78.7	23.5886
K 766.491	1137.03b	ppb	2.8589	0.3	38421.5
Mg 279.078	1132.79b	ppb	2.6430	0.2	3267.35
Mn 257.610	4.7365b	ppb	0.0615	1.3	1372.21
Mo 202.032	0.2655b	ppb	0.3784	142.5	8.1832
Na 330.237	114362xb	ppb	178.618	0.2	5800.83
Ni 231.604	1.0871b	ppb	0.2776	25.5	-0.8347
Pb 220.353	0.7020b	ppb	0.5392	76.8	16.3884
Sb 206.834	1.1808b	ppb	1.0149	86.0	7.4354
Se 196.026	-0.0147b	ppb	1.9761	13458.9	0.3170
Sn 189.925	0.8342b	ppb	1.6066	192.6	-6.5449
Sr 216.596	65.7220b	ppb	0.6293	1.0	1109.26
Ti 334.941	0.0030b	ppb	0.0202	674.0	-59.0752
Tl 190.794	-1.2857b	ppb	1.2532	97.5	-12.1157
V 292.401	-0.0707b	ppb	0.0860	121.5	-6.2329
Zn 206.200	0.4178b	ppb	0.5070	121.3	-6.7713

680-92679-a-2-c (Samp) **8/1/2013, 1:40:46 AM** **Rack 3, Tube 18**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	-0.0618u	-0.2197u	-0.0326u
Al 308.215	18.4709	24.2733	22.2174
As 188.980	-1.2060u	-0.8637u	3.2975
B 249.678	18.8657	19.3272	18.7918
Ba 389.178	8.9762	9.2709	9.4078
Be 313.042	0.0199	0.0222	0.0238
Ca 370.602	1946	1931	1937
Cd 226.502	0.1857	0.2200	0.1469
Co 228.615	0.5851	0.8176	0.7857
Cr 267.716	0.2316	0.2236	-0.0349
Cu 324.754	0.5802	0.5828	0.4704
Fe 271.441	15.5511	9.9083	6.5915
K 766.491	116.487	115.306	116.779
Mg 279.078	253.244	253.089	253.405
Mn 257.610	30.3737	30.2395	30.2938
Mo 202.032	0.1938	0.2641	0.3392
Na 330.237	114927x	115000x	115057x
Ni 231.604	1.0627	0.1816	1.4718
Pb 220.353	-2.3159u	-0.6827u	1.5792
Sb 206.834	3.8118	-0.4907u	0.2002
Se 196.026	8.5189	0.7762	-3.0274u
Sn 189.925	-0.6763u	1.6203	0.8772
Sr 216.596	15.5309	16.0948	15.9900
Ti 334.941	0.2851	0.3807	0.3521
Tl 190.794	-2.1130u	0.7938	-3.7115u
V 292.401	0.1946	0.0751	0.1570
Zn 206.200	16.7770	16.2241	16.3793

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1047b	ppb	0.1007	96.1	-15.0157
Al 308.215	21.6539b	ppb	2.9420	13.6	97.3764
As 188.980	0.4093b	ppb	2.5072	612.6	-8.6180
B 249.678	18.9949b	ppb	0.2902	1.5	437.787
Ba 389.178	9.2183b	ppb	0.2206	2.4	223.531
Be 313.042	0.0220b	ppb	0.0020	9.1	-252.355
Ca 370.602	1938b	ppb	7.706	0.4	6151
Cd 226.502	0.1842b	ppb	0.0366	19.9	16.1321
Co 228.615	0.7295b	ppb	0.1260	17.3	-3.7749
Cr 267.716	0.1401b	ppb	0.1516	108.2	35.7984
Cu 324.754	0.5445b	ppb	0.0641	11.8	286.439
Fe 271.441	10.6836b	ppb	4.5298	42.4	35.9471
K 766.491	116.190b	ppb	0.7801	0.7	4092.33
Mg 279.078	253.246b	ppb	0.1580	0.1	755.238
Mn 257.610	30.3023b	ppb	0.0675	0.2	8269.44
Mo 202.032	0.2657b	ppb	0.0727	27.4	8.1839
Na 330.237	114994xb	ppb	64.8708	0.1	5832.42
Ni 231.604	0.9054b	ppb	0.6594	72.8	-1.5435
Pb 220.353	-0.4731b	ppb	1.9560	413.4	13.9783
Sb 206.834	1.1737b	ppb	2.3106	196.9	7.4218
Se 196.026	2.0892b	ppb	5.8841	281.6	1.5640
Sn 189.925	0.6070b	ppb	1.1719	193.0	-6.8090
Sr 216.596	15.8719b	ppb	0.3000	1.9	273.947
Ti 334.941	0.3393b	ppb	0.0491	14.5	43.6674
Tl 190.794	-1.6769b	ppb	2.2841	136.2	-12.7037
V 292.401	0.1422b	ppb	0.0611	43.0	0.1734
Zn 206.200	16.4601b	ppb	0.2852	1.7	34.7284

680-92679-c-1-d (Samp) **8/1/2013, 1:45:23 AM** **Rack 3, Tube 19**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	-0.2147u	-0.1001u	0.0654
Al 308.215	75.6874	81.1207	78.0082
As 188.980	2.9747	-6.0378u	2.2962
B 249.678	23.5346	23.6158	23.7429
Ba 389.178	6.5327	6.3601	7.3486
Be 313.042	0.0258	0.0208	0.0285
Ca 370.602	1522	1525	1521
Cd 226.502	0.0961	0.2759	0.2524
Co 228.615	0.4753	0.4179	0.3979
Cr 267.716	0.0453	0.2034	0.2939
Cu 324.754	0.3186	0.2309	0.3130
Fe 271.441	25.0802	26.8373	23.5294
K 766.491	141.195	141.054	140.953
Mg 279.078	249.650	242.727	245.056
Mn 257.610	31.0273	30.9859	30.9266
Mo 202.032	0.7284	0.3257	-0.0650u
Na 330.237	113909x	113659x	114176x
Ni 231.604	1.7656	1.4579	1.2227
Pb 220.353	-0.5361u	-0.6556u	1.1137
Sb 206.834	-0.2883u	2.3597	-0.6649u
Se 196.026	-0.8211u	3.7592	6.4815
Sn 189.925	0.7546	1.2062	0.2574
Sr 216.596	12.3576	12.1341	11.9970
Ti 334.941	1.2805	1.3251	1.3982
Tl 190.794	-2.7372u	-2.4474u	0.7686
V 292.401	0.4761	0.0971	0.0037u
Zn 206.200	13.0490	13.7882	13.4320

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0831b	ppb	0.1408	169.4	-12.9430
Al 308.215	78.2721b	ppb	2.7263	3.5	264.396
As 188.980	-0.2556b	ppb	5.0190	1963.3	-9.2177
B 249.678	23.6311b	ppb	0.1050	0.4	517.454
Ba 389.178	6.7471b	ppb	0.5280	7.8	158.616
Be 313.042	0.0251b	ppb	0.0039	15.6	-246.179
Ca 370.602	1523b	ppb	1.969	0.1	4832
Cd 226.502	0.2082b	ppb	0.0977	46.9	17.4819
Co 228.615	0.4304b	ppb	0.0402	9.3	-8.0146
Cr 267.716	0.1809b	ppb	0.1259	69.6	38.3674
Cu 324.754	0.2875b	ppb	0.0491	17.1	270.121
Fe 271.441	25.1490b	ppb	1.6550	6.6	63.6135
K 766.491	141.067b	ppb	0.1215	0.1	4928.90
Mg 279.078	245.811b	ppb	3.5228	1.4	733.973
Mn 257.610	30.9799b	ppb	0.0506	0.2	8452.44
Mo 202.032	0.3297b	ppb	0.3967	120.3	8.7307
Na 330.237	113915xb	ppb	258.596	0.2	5778.12
Ni 231.604	1.4821b	ppb	0.2722	18.4	0.7055
Pb 220.353	-0.0260b	ppb	0.9888	3804.5	14.8973
Sb 206.834	0.4688b	ppb	1.6483	351.6	6.2593
Se 196.026	3.1399b	ppb	3.6905	117.5	2.1832
Sn 189.925	0.7394b	ppb	0.4746	64.2	-6.6618
Sr 216.596	12.1629b	ppb	0.1820	1.5	211.949
Ti 334.941	1.3346b	ppb	0.0594	4.5	361.305
Tl 190.794	-1.4720b	ppb	1.9458	132.2	-12.4073
V 292.401	0.1923b	ppb	0.2502	130.1	1.6988
Zn 206.200	13.4231b	ppb	0.3697	2.8	29.4357

680-92679-a-3-d (Samp) **8/1/2013, 1:49:59 AM** **Rack 3, Tube 20**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	-0.1626u	0.2171	-0.0908u
Al 308.215	19.7964	22.1685	25.1277
As 188.980	3.2735	-2.6003u	-0.4143u
B 249.678	17.0297	17.1660	17.7052
Ba 389.178	13.5256	12.7174	13.1049
Be 313.042	0.0204	0.0204	0.0225
Ca 370.602	2097	2090	2088
Cd 226.502	0.1404	0.2992	0.2510
Co 228.615	1.2610	0.5593	0.6402
Cr 267.716	0.2162	0.0588	0.2285
Cu 324.754	0.7139	0.5684	0.2386
Fe 271.441	13.5513	3.4464	9.2665
K 766.491	110.736	109.348	109.328
Mg 279.078	209.549	206.872	210.657
Mn 257.610	32.5338	32.3538	32.3182
Mo 202.032	0.5137	0.4926	-0.0971u
Na 330.237	104268x	103511x	103775x
Ni 231.604	-0.3266u	-0.1106u	0.9712
Pb 220.353	4.4472	3.8049	5.1226
Sb 206.834	1.6268	0.5692	-0.7466u
Se 196.026	3.1766	-2.1805u	3.7658
Sn 189.925	-0.3875u	1.2413	-1.2794u
Sr 216.596	17.0056	16.4653	16.4882
Ti 334.941	0.3666	0.3644	0.3115
Tl 190.794	-0.8530u	0.6548	0.6083
V 292.401	-0.1520u	0.0894	0.1617
Zn 206.200	20.1011	19.9896	20.9286

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0121b	ppb	0.2017	1666.9	-7.0491
Al 308.215	22.3642b	ppb	2.6710	11.9	99.4777
As 188.980	0.0863b	ppb	2.9687	3440.5	-8.9096
B 249.678	17.3003b	ppb	0.3572	2.1	408.662
Ba 389.178	13.1160b	ppb	0.4042	3.1	325.778
Be 313.042	0.0211b	ppb	0.0012	5.9	-252.681
Ca 370.602	2092b	ppb	4.484	0.2	6638
Cd 226.502	0.2302b	ppb	0.0814	35.4	18.6872
Co 228.615	0.8202b	ppb	0.3839	46.8	-2.4783
Cr 267.716	0.1678b	ppb	0.0946	56.4	37.3128
Cu 324.754	0.5069b	ppb	0.2435	48.0	284.054
Fe 271.441	8.7547b	ppb	5.0718	57.9	32.2659
K 766.491	109.804b	ppb	0.8073	0.7	3877.58
Mg 279.078	209.026b	ppb	1.9461	0.9	628.922
Mn 257.610	32.4019b	ppb	0.1156	0.4	8836.22
Mo 202.032	0.3031b	ppb	0.3467	114.4	8.5043
Na 330.237	103851xb	ppb	384.141	0.4	5271.54
Ni 231.604	0.1780b	ppb	0.6954	390.6	-4.3787
Pb 220.353	4.4582b	ppb	0.6589	14.8	24.1198
Sb 206.834	0.4832b	ppb	1.1890	246.1	6.2835
Se 196.026	1.5873b	ppb	3.2763	206.4	1.2689
Sn 189.925	-0.1419b	ppb	1.2782	900.9	-7.6500
Sr 216.596	16.6531b	ppb	0.3055	1.8	287.028
Ti 334.941	0.3475b	ppb	0.0312	9.0	47.0028
Tl 190.794	0.1367b	ppb	0.8574	627.2	-10.0553
V 292.401	0.0331b	ppb	0.1643	496.8	-3.0192
Zn 206.200	20.3398b	ppb	0.5130	627.5	41.4892

mb 680-286324/1-a (Samp) **8/1/2013, 1:54:35 AM** **Rack 3, Tube 21**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	0.1046	0.1034	0.0472
Al 308.215	3.5554	6.2179	6.8498
As 188.980	-2.2407u	1.9616	1.8741
B 249.678	1.0658	1.2350	0.9362
Ba 389.178	0.0030	0.2565	0.0180
Be 313.042	0.0167	0.0159	0.0109
Ca 370.602	61.14	57.73	59.59
Cd 226.502	0.0656	0.1824	0.1528
Co 228.615	0.5616	0.4372	1.0136
Cr 267.716	1.7691	1.5685	1.6648
Cu 324.754	-0.1253u	-0.1640u	0.1468
Fe 271.441	16.4563	15.1105	11.5899
K 766.491	11.8939	11.7226	12.8933
Mg 279.078	18.5482	18.7638	16.8173
Mn 257.610	0.2377	0.2831	0.2384
Mo 202.032	0.8848	-0.3721u	-0.3114u
Na 330.237	-2.4579u	10.9340	45.5059
Ni 231.604	1.9284	0.9781	1.2359
Pb 220.353	1.5717	-1.0595u	-0.3054u
Sb 206.834	4.5015	2.7139	-1.7798u
Se 196.026	1.3274	-4.3239u	3.2900
Sn 189.925	13.6423	10.6044	12.7143
Sr 216.596	-0.0394u	0.0107	-0.0004u
Ti 334.941	0.2612	0.2355	0.2564
Tl 190.794	1.2063	-1.6852u	0.9196
V 292.401	-0.1098u	-0.5013u	-0.5695u
Zn 206.200	-0.4999u	-1.2910u	-1.1228u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0851	ppb	0.0328	38.5	2.0212
Al 308.215	5.5410	ppb	1.7484	31.6	49.8831
As 188.980	0.5317	ppb	2.4013	451.6	-8.5077
B 249.678	1.0790	ppb	0.1498	13.9	129.799
Ba 389.178	0.0925	ppb	0.1422	153.7	-16.8840
Be 313.042	0.0145	ppb	0.0032	22.0	-254.091
Ca 370.602	59.49	ppb	1.710	2.9	190.0
Cd 226.502	0.1336	ppb	0.0608	45.5	14.3173
Co 228.615	0.6708	ppb	0.3033	45.2	-4.6108
Cr 267.716	1.6675	ppb	0.1003	6.0	129.447
Cu 324.754	-0.0475	ppb	0.1694	356.7	248.841
Fe 271.441	14.3856	ppb	2.5129	17.5	43.0281
K 766.491	12.1699	ppb	0.6323	5.2	594.286
Mg 279.078	18.0431	ppb	1.0670	5.9	84.2688
Mn 257.610	0.2530	ppb	0.0260	10.3	150.874
Mo 202.032	0.0671	ppb	0.7088	1056.2	6.4867
Na 330.237	17.9940	ppb	24.7490	137.5	45.9404
Ni 231.604	1.3808	ppb	0.4915	35.6	0.3096
Pb 220.353	0.0689	ppb	1.3550	1965.3	15.0861
Sb 206.834	1.8119	ppb	3.2364	178.6	8.5062
Se 196.026	0.0978	ppb	3.9531	4040.8	0.3820
Sn 189.925	12.3203	ppb	1.5568	12.6	6.2114
Sr 216.596	-0.0097	ppb	0.0263	271.5	8.4679
Ti 334.941	0.2511	ppb	0.0137	5.4	24.2887
Tl 190.794	0.1469	ppb	1.5931	1084.5	-10.0199
V 292.401	-0.3936	ppb	0.2481	63.0	-15.0601
Zn 206.200	-0.9712	ppb	0.4168	42.9	4.3447

lcs 680-286324/2-a (Samp) **8/1/2013, 1:59:23 AM** **Rack 3, Tube 22**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	51.2504	50.7735	51.4046
Al 308.215	4682.80	4674.73	4641.24
As 188.980	99.6525	103.511	104.786
B 249.678	181.927	181.509	182.927
Ba 389.178	103.537	101.337	102.541
Be 313.042	50.0711	49.8909	50.0638
Ca 370.602	5076	5060	5040
Cd 226.502	49.7511	49.7689	49.8697
Co 228.615	51.2115	50.8269	51.0518
Cr 267.716	104.865	104.204	104.059
Cu 324.754	102.842	100.077	102.314
Fe 271.441	4915.40	4892.00	4894.14
K 766.491	4793.16	4772.73	4799.37
Mg 279.078	4900.78	4864.03	4874.89
Mn 257.610	522.981	519.949	520.690
Mo 202.032	101.177	99.6264	101.297
Na 330.237	4958.71	4780.15	4536.30
Ni 231.604	101.088	100.606	100.423
Pb 220.353	49.5080	48.1337	52.4722
Sb 206.834	51.4210	49.7525	47.1628
Se 196.026	94.9949	103.052	91.6808
Sn 189.925	213.687	213.405	214.180
Sr 216.596	102.977	102.199	102.362
Ti 334.941	97.9320	97.6371	97.9390
Tl 190.794	38.2717	39.2623	36.4179
V 292.401	100.068	99.8462	99.5488
Zn 206.200	100.187	100.844	100.804

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	51.1428	ppb	0.3290	0.6	4406.47
Al 308.215	4666.26	ppb	22.0392	0.5	13791.8
As 188.980	102.650	ppb	2.6727	2.6	83.6515
B 249.678	182.121	ppb	0.7284	0.4	3230.38
Ba 389.178	102.472	ppb	1.1012	1.1	2695.54
Be 313.042	50.0086	ppb	0.1020	0.2	100792
Ca 370.602	5059	ppb	18.01	0.4	15732
Cd 226.502	49.7966	ppb	0.0640	0.1	2709.57
Co 228.615	51.0301	ppb	0.1933	0.4	713.515
Cr 267.716	104.376	ppb	0.4295	0.4	6618.09
Cu 324.754	101.744	ppb	1.4680	1.4	6718.10
Fe 271.441	4900.51	ppb	12.9369	0.3	9410.44
K 766.491	4788.42	ppb	13.9393	0.3	161212
Mg 279.078	4879.90	ppb	18.8777	0.4	13955.5
Mn 257.610	521.207	ppb	1.5806	0.3	140935
Mo 202.032	100.700	ppb	0.9318	0.9	866.700
Na 330.237	4758.39	ppb	212.046	4.5	281.288
Ni 231.604	100.706	ppb	0.3436	0.3	387.420
Pb 220.353	50.0380	ppb	2.2173	4.4	118.050
Sb 206.834	49.4454	ppb	2.1457	4.3	87.4149
Se 196.026	96.5759	ppb	5.8481	6.1	57.3939
Sn 189.925	213.757	ppb	0.3918	0.2	231.074
Sr 216.596	102.513	ppb	0.4102	0.4	1723.08
Ti 334.941	97.8361	ppb	0.1723	0.2	31191.3
Tl 190.794	37.9840	ppb	1.4439	3.8	44.6665
V 292.401	99.8209	ppb	0.2604	0.3	2985.09
Zn 206.200	100.612	ppb	0.3682	0.4	180.992

680-92626-b-8-a (Samp) **8/1/2013, 2:04:12 AM** **Rack 3, Tube 23**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	0.5216	-0.4173u	0.3792
Al 308.215	121074	117956	122552
As 188.980	154.487	147.508	161.856
B 249.678	61.8668	61.7819	63.1379
Ba 389.178	1895.82	1841.52	1915.82
Be 313.042	14.8076	14.3722	14.9496
Ca 370.602	472940	462332	477697
Cd 226.502	24.7235	23.3000	25.3278
Co 228.615	83.0823	79.9359	83.3147
Cr 267.716	760.620	738.472	769.191
Cu 324.754	1788.93	1711.99	1855.01
Fe 271.441	305822	296016	302249
K 766.491	15604.1	15140.9	15696.0
Mg 279.078	163793	159304	165377
Mn 257.610	13416.4	13001.9	13514.3
Mo 202.032	35.5091	35.2067	35.7707
Na 330.237	737.422u	586.271u	798.404u
Ni 231.604	306.664	299.421	305.482
Pb 220.353	1419.53	1369.95	1425.08
Sb 206.834	6.5548	4.8880	5.0503
Se 196.026	16.1101	12.0632	7.9042
Sn 189.925	171.223	165.933	172.316
Sr 216.596	675.266	655.097	681.668
Ti 334.941	2039.78	1980.27	2059.08
Tl 190.794	5.7570u	7.3580u	10.9289u
V 292.401	351.991	341.273	356.015
Zn 206.200	4794.32	4661.88	4831.93

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1612	ppb	0.5060	313.9	40.3241
Al 308.215	120527	ppb	2346.23	1.9	355546
As 188.980	154.617	ppb	7.1749	4.6	128.091
B 249.678	62.2622	ppb	0.7596	1.2	464.320
Ba 389.178	1884.39	ppb	38.4480	2.0	50447.7
Be 313.042	14.7098	ppb	0.3009	2.0	29604.9
Ca 370.602	470990	ppb	7866	1.7	1471879
Cd 226.502	24.4504	ppb	1.0411	4.3	2570.45
Co 228.615	82.1109	ppb	1.8873	2.3	1228.17
Cr 267.716	756.094	ppb	15.8515	2.1	47939.1
Cu 324.754	1785.31	ppb	71.5754	4.0	113753
Fe 271.441	301362	ppb	4962.75	1.6	577266
K 766.491	15480.4	ppb	297.566	1.9	520765
Mg 279.078	162825	ppb	3150.61	1.9	464718
Mn 257.610	13310.8	ppb	272.010	2.0	3598173
Mo 202.032	35.4955	ppb	0.2823	0.8	291.010
Na 330.237	707.366	ppb	109.214	15.4	-83.4422
Ni 231.604	303.856	ppb	3.8855	1.3	1188.23
Pb 220.353	1404.85	ppb	30.3538	2.2	2929.45
Sb 206.834	5.4977	ppb	0.9191	16.7	36.3473
Se 196.026	12.0258	ppb	4.1031	34.1	12.5377
Sn 189.925	169.824	ppb	3.4139	2.0	182.285
Sr 216.596	670.677	ppb	13.8674	2.1	11685.4
Ti 334.941	2026.38	ppb	41.0821	2.0	647490
Tl 190.794	8.0146	ppb	2.6477	33.0	-35.0526
V 292.401	349.760	ppb	7.6198	2.2	10534.0
Zn 206.200	4762.71	ppb	89.3211	1.9	8306.33

680-92626-b-8-a SD^5 (Samp) **8/1/2013, 2:08:49 AM** **Rack 3, Tube 24**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.1438u	-0.2374u	0.0270
Al 308.215	24335.8	24149.2	24270.2
As 188.980	29.5030	34.6412	37.0154
B 249.678	12.8423	13.1454	13.2386
Ba 389.178	403.597	402.267	401.416
Be 313.042	3.1887	3.1829	3.1601
Ca 370.602	101552	101002	101170
Cd 226.502	5.3206	5.2404	5.2721
Co 228.615	18.1564	18.6762	18.3509
Cr 267.716	163.728	163.047	162.905
Cu 324.754	370.110	370.677	363.623
Fe 271.441	66253.6	66000.3	65825.5
K 766.491	2599.57	2589.01	2561.53
Mg 279.078	33540.5	33505.7	33364.0
Mn 257.610	2953.39	2935.78	2937.06
Mo 202.032	7.8440	8.0155	7.1711
Na 330.237	154.589u	33.6288u	50.3393u
Ni 231.604	69.8617	67.4209	67.6725
Pb 220.353	308.560	310.856	314.086
Sb 206.834	0.7626	0.0364	-0.4882
Se 196.026	-0.3828	-0.2687	9.3273
Sn 189.925	38.9306	35.1014	38.1301
Sr 216.596	146.119	146.579	145.737
Ti 334.941	438.449	437.241	434.632
Tl 190.794	1.2193u	-0.4423u	4.2227u
V 292.401	75.2542	74.7281	75.3214
Zn 206.200	1073.39	1065.57	1060.57

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1181	ppb	0.1341	113.6	-8.3213
Al 308.215	24251.7	ppb	94.6715	0.4	71567.0
As 188.980	33.7199	ppb	3.8400	11.4	20.8752
B 249.678	13.0755	ppb	0.2072	1.6	178.868
Ba 389.178	402.427	ppb	1.0992	0.3	10757.0
Be 313.042	3.1772	ppb	0.0151	0.5	6172.39
Ca 370.602	101241	ppb	281.8	0.3	316292
Cd 226.502	5.2777	ppb	0.0404	0.8	564.439
Co 228.615	18.3945	ppb	0.2627	1.4	263.579
Cr 267.716	163.227	ppb	0.4403	0.3	10368.8
Cu 324.754	368.137	ppb	3.9195	1.1	23657.5
Fe 271.441	66026.5	ppb	215.275	0.3	126487
K 766.491	2583.37	ppb	19.6330	0.8	87059.7
Mg 279.078	33470.0	ppb	93.5060	0.3	95549.6
Mn 257.610	2942.08	ppb	9.8224	0.3	795337
Mo 202.032	7.6768	ppb	0.4463	5.8	67.5229
Na 330.237	79.5191	ppb	65.5475	82.4	12.7774
Ni 231.604	68.3184	ppb	1.3425	2.0	263.174
Pb 220.353	311.167	ppb	2.7764	0.9	660.490
Sb 206.834	0.1036	ppb	0.6281	606.3	10.4013
Se 196.026	2.8919	ppb	5.5735	192.7	3.1597
Sn 189.925	37.3873	ppb	2.0197	5.4	34.2486
Sr 216.596	146.145	ppb	0.4215	0.3	2553.45
Ti 334.941	436.774	ppb	1.9510	0.4	139510
Tl 190.794	1.6666	ppb	2.3645	141.9	-15.8227
V 292.401	75.1012	ppb	0.3249	0.4	2259.43
Zn 206.200	1066.51	ppb	6.4634	630.6	1864.73

680-92626-b-8-a PDS (Samp) **8/1/2013, 2:22:51 AM** **Rack 3, Tube 27**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	33.6641	33.7851	36.2094
Al 308.215	121866	119272	127576
As 188.980	355.379	336.671	359.010
B 249.678	511.255	506.452	530.517
Ba 389.178	2077.07	2034.71	2152.26
Be 313.042	61.0345	59.7638	63.0659
Ca 370.602	471880	463234	492102
Cd 226.502	67.9044	66.4611	71.2528
Co 228.615	261.930	255.061	267.543
Cr 267.716	943.550	924.083	978.214
Cu 324.754	2007.62	1950.46	2074.68
Fe 271.441	307119	300570	314622
K 766.491	18254.1	17735.0	18701.6
Mg 279.078	164772	161766	171292
Mn 257.610	13505.8	13228.9	14007.0
Mo 202.032	222.070	217.784	230.985
Na 330.237	3137.60u	3120.50u	3220.32u
Ni 231.604	478.125	469.210	497.588
Pb 220.353	1582.28	1546.93	1651.18
Sb 206.834	186.432	181.842	200.626
Se 196.026	190.529	205.614	215.683
Sn 189.925	350.555	345.769	368.979
Sr 216.596	853.447	837.750	886.549
Ti 334.941	2198.59	2156.80	2262.51
Tl 190.794	178.064	177.346	180.260
V 292.401	533.562	523.104	554.227
Zn 206.200	4929.91	4840.88	5138.91

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	34.5529	ppb	1.4359	4.2	3001.34
Al 308.215	122905	ppb	4248.61	3.5	362545
As 188.980	350.353	ppb	11.9878	3.4	304.696
B 249.678	516.075	ppb	12.7361	2.5	8251.09
Ba 389.178	2088.01	ppb	59.5356	2.9	55817.0
Be 313.042	61.2881	ppb	1.6656	2.7	123728
Ca 370.602	475739	ppb	14816	3.1	1486571
Cd 226.502	68.5395	ppb	2.4582	3.6	4970.44
Co 228.615	261.511	ppb	6.2511	2.4	3786.86
Cr 267.716	948.616	ppb	27.4189	2.9	60097.2
Cu 324.754	2010.92	ppb	62.1769	3.1	128089
Fe 271.441	307437	ppb	7031.05	2.3	588930
K 766.491	18230.3	ppb	483.729	2.7	613240
Mg 279.078	165944	ppb	4869.91	2.9	473619
Mn 257.610	13580.5	ppb	394.432	2.9	3671077
Mo 202.032	223.613	ppb	6.7344	3.0	1899.22
Na 330.237	3159.47	ppb	53.3823	1.7	34.6214
Ni 231.604	481.641	ppb	14.5120	3.0	1880.77
Pb 220.353	1593.46	ppb	53.0144	3.3	3317.35
Sb 206.834	189.633	ppb	9.7922	5.2	340.030
Se 196.026	203.942	ppb	12.6603	6.2	125.709
Sn 189.925	355.101	ppb	12.2549	3.5	389.108
Sr 216.596	859.249	ppb	24.9114	2.9	14834.5
Ti 334.941	2205.97	ppb	53.2422	2.4	704817
Tl 190.794	178.557	ppb	1.5182	0.9	214.097
V 292.401	536.964	ppb	15.8379	2.9	16138.1
Zn 206.200	4969.90	ppb	152.084	3.1	8666.64

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680-92626-b-8-b ms (Samp) **8/1/2013, 2:27:27 AM** **Rack 3, Tube 28**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	56.9076	54.1812	54.0745
Al 308.215	127752	121636	122847
As 188.980	279.898	269.827	270.959
B 249.678	213.630	205.249	207.589
Ba 389.178	2302.19	2200.66	2217.02
Be 313.042	64.2895	61.5249	61.9511
Ca 370.602	482642	460955	465088
Cd 226.502	54.0911	50.0580	50.7881
Co 228.615	140.102	132.038	132.525
Cr 267.716	933.384	890.823	897.925
Cu 324.754	11392.6	10637.2	10827.6
Fe 271.441	406130	388513	391913
K 766.491	23076.6	22151.2	22280.8
Mg 279.078	166706	159344	160453
Mn 257.610	16926.9	16177.9	16302.0
Mo 202.032	163.672	157.237	157.280
Na 330.237	5731.20	5692.86	5482.98
Ni 231.604	628.800	603.248	611.572
Pb 220.353	1506.80	1432.92	1449.60
Sb 206.834	30.2262	26.1224	25.4903
Se 196.026	107.975	91.4040	100.860
Sn 189.925	292.154	277.705	283.416
Sr 216.596	743.729	709.629	715.052
Ti 334.941	2192.62	2101.68	2116.38
Tl 190.794	37.4996	39.8834	34.4238
V 292.401	497.937	475.545	478.644
Zn 206.200	5568.70	5323.68	5364.16

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	55.0544	ppb	1.6058	2.9	4791.80
Al 308.215	124078	ppb	3238.72	2.6	366012
As 188.980	273.561	ppb	5.5166	2.0	234.138
B 249.678	208.823	ppb	4.3244	2.1	2759.98
Ba 389.178	2239.96	ppb	54.5147	2.4	59937.5
Be 313.042	62.5885	ppb	1.4885	2.4	126364
Ca 370.602	469562	ppb	11514	2.5	1460060
Cd 226.502	51.6458	ppb	2.1490	4.2	4423.19
Co 228.615	134.888	ppb	4.5219	3.4	1984.36
Cr 267.716	907.377	ppb	22.8005	2.5	57537.3
Cu 324.754	10952.4	ppb	392.876	3.6	696028
Fe 271.441	395519	ppb	9345.69	2.4	757625
K 766.491	22502.9	ppb	501.099	2.2	756922
Mg 279.078	162168	ppb	3969.45	2.4	462797
Mn 257.610	16468.9	ppb	401.429	2.4	4451544
Mo 202.032	159.396	ppb	3.7032	2.3	1344.92
Na 330.237	5635.68	ppb	133.622	2.4	127.320
Ni 231.604	614.540	ppb	13.0318	2.1	2401.82
Pb 220.353	1463.11	ppb	38.7502	2.6	3057.90
Sb 206.834	27.2796	ppb	2.5713	9.4	76.0698
Se 196.026	100.080	ppb	8.3132	8.3	65.7180
Sn 189.925	284.425	ppb	7.2771	2.6	310.206
Sr 216.596	722.803	ppb	18.3242	2.5	12672.7
Ti 334.941	2136.89	ppb	48.8192	2.3	682766
Tl 190.794	37.2689	ppb	2.7371	7.3	-2.9736
V 292.401	484.042	ppb	12.1325	2.5	14554.9
Zn 206.200	5418.84	ppb	131.343	2.4	9450.24

680-92626-b-8-c msd (Samp) **8/1/2013, 2:32:04 AM** **Rack 3, Tube 29**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	57.5136	55.8416	54.9665
Al 308.215	126720	125621	122373
As 188.980	320.409	308.672	306.151
B 249.678	224.102	223.275	219.351
Ba 389.178	4297.70	4243.01	4149.99
Be 313.042	70.2710	69.2254	67.8817
Ca 370.602	537459	529361	518501
Cd 226.502	55.4704	54.2071	52.1456
Co 228.615	262.970	256.852	253.006
Cr 267.716	833.373	821.838	805.703
Cu 324.754	2477.64	2436.58	2387.01
Fe 271.441	474243	467398	459347
K 766.491	23512.7	23091.3	22780.7
Mg 279.078	131356	129286	126635
Mn 257.610	42441.2x	41817.8x	41041.3x
Mo 202.032	154.716	154.259	149.161
Na 330.237	6565.41	6664.81	6325.35
Ni 231.604	506.476	497.728	487.566
Pb 220.353	2417.11	2378.24	2328.38
Sb 206.834	35.9688	28.7833	27.5193
Se 196.026	109.645	103.346	101.450
Sn 189.925	402.854	404.230	395.943
Sr 216.596	921.588	905.444	887.407
Ti 334.941	2253.99	2226.40	2178.57
Tl 190.794	76.0416	76.5337	73.2624
V 292.401	544.586	537.196	525.523
Zn 206.200	5301.83	5225.72	5114.58

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	56.1072b	ppb	1.2941	2.3	5006.29
Al 308.215	124905b	ppb	2260.06	1.8	368443
As 188.980	311.744b	ppb	7.6089	2.4	267.626
B 249.678	222.243b	ppb	2.5385	1.1	2821.02
Ba 389.178	4230.23b	ppb	74.6773	1.8	112233
Be 313.042	69.1260b	ppb	1.1978	1.7	139590
Ca 370.602	528440b	ppb	9513	1.8	1641974
Cd 226.502	53.9410b	ppb	1.6783	3.1	4840.31
Co 228.615	257.609b	ppb	5.0250	2.0	3740.16
Cr 267.716	820.305b	ppb	13.8984	1.7	52203.8
Cu 324.754	2433.74b	ppb	45.3785	1.9	155001
Fe 271.441	466996b	ppb	7456.11	1.6	894551
K 766.491	23128.2b	ppb	367.403	1.6	777951
Mg 279.078	129092b	ppb	2366.33	1.8	367818
Mn 257.610	41766.8xb	ppb	701.344	1.7	11284984
Mo 202.032	152.712b	ppb	3.0837	2.0	1283.44
Na 330.237	6518.53b	ppb	174.518	2.7	153.613
Ni 231.604	497.257b	ppb	9.4640	1.9	1946.51
Pb 220.353	2374.58b	ppb	44.4776	1.9	4945.09
Sb 206.834	30.7572b	ppb	4.5575	14.8	83.5147
Se 196.026	104.814b	ppb	4.2903	4.1	76.2218
Sn 189.925	401.009b	ppb	4.4409	1.1	440.375
Sr 216.596	904.813b	ppb	17.0994	1.9	15821.6
Ti 334.941	2219.65b	ppb	38.1563	1.7	709014
Tl 190.794	75.2793b	ppb	1.7639	2.3	29.3109
V 292.401	535.768b	ppb	9.6112	1.8	16122.6
Zn 206.200	5214.04b	ppb	94.1724	1.8	6348.55

680-92638-a-1-a (Samp) **8/1/2013, 2:36:40 AM** **Rack 3, Tube 30**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.0020u	-0.1795u	-0.6722u
Al 308.215	9658.97	9566.96	9770.75
As 188.980	10.1289	12.6715	14.4883
B 249.678	19.9086	19.5929	19.8570
Ba 389.178	53.6066	54.3110	54.7417
Be 313.042	1.1631	1.1648	1.1888
Ca 370.602	135020	134309	136139
Cd 226.502	0.0080	0.0504	0.2773
Co 228.615	2.6650	3.4562	2.6522
Cr 267.716	31.7719	32.0027	32.5085
Cu 324.754	6.7656	7.0528	7.3929
Fe 271.441	11791.2	11822.1	12075.9
K 766.491	822.803	820.824	838.146
Mg 279.078	3191.50	3206.37	3274.87
Mn 257.610	133.281	133.335	136.200
Mo 202.032	4.6974	4.8603	4.7956
Na 330.237	3452.14	3612.69	3670.46
Ni 231.604	9.1205	7.5353	9.2464
Pb 220.353	24.0452	19.9228	21.5568
Sb 206.834	-1.3523u	-2.7934u	-2.5011u
Se 196.026	0.4425	0.1832	3.2473
Sn 189.925	12.8930	10.9201	11.5066
Sr 216.596	721.470	724.838	739.313
Ti 334.941	220.165	220.602	225.370
Tl 190.794	-2.1797u	-2.8504u	1.6627
V 292.401	20.6687	20.4921	21.0667
Zn 206.200	49.8212	50.1722	51.8130

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.2846	ppb	0.3472	122.0	-67.2134
Al 308.215	9665.56	ppb	102.057	1.1	28544.2
As 188.980	12.4296	ppb	2.1898	17.6	2.2070
B 249.678	19.7862	ppb	0.1693	0.9	423.110
Ba 389.178	54.2198	ppb	0.5730	1.1	1433.56
Be 313.042	1.1722	ppb	0.0143	1.2	2136.50
Ca 370.602	135156	ppb	922.5	0.7	427976
Cd 226.502	0.1119	ppb	0.1448	129.4	62.1963
Co 228.615	2.9245	ppb	0.4605	15.7	34.1878
Cr 267.716	32.0944	ppb	0.3768	1.2	2055.72
Cu 324.754	7.0704	ppb	0.3140	4.4	705.260
Fe 271.441	11896.4	ppb	156.202	1.3	22802.6
K 766.491	827.258	ppb	9.4814	1.1	28004.4
Mg 279.078	3224.25	ppb	44.4677	1.4	9235.65
Mn 257.610	134.272	ppb	1.6699	1.2	36423.1
Mo 202.032	4.7845	ppb	0.0820	1.7	46.0888
Na 330.237	3578.43	ppb	113.121	3.2	220.139
Ni 231.604	8.6341	ppb	0.9536	11.0	28.9399
Pb 220.353	21.8416	ppb	2.0759	9.5	60.5472
Sb 206.834	-2.2156	ppb	0.7618	34.4	2.6637
Se 196.026	1.2910	ppb	1.6991	131.6	1.1724
Sn 189.925	11.7732	ppb	1.0131	8.6	5.6801
Sr 216.596	728.540	ppb	9.4800	1.3	12210.7
Ti 334.941	222.046	ppb	2.8872	1.3	70821.9
Tl 190.794	-1.1225	ppb	2.4352	217.0	-13.0486
V 292.401	20.7425	ppb	0.2944	1.4	623.705
Zn 206.200	50.6021	ppb	1.0632	2.1	94.2326

680-92638-a-2-a (Samp) **8/1/2013, 2:41:17 AM** **Rack 3, Tube 31**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	-0.6841u	-0.4130u	-0.6218u
Al 308.215	9537.98	9461.14	9482.07
As 188.980	12.5962	12.8308	10.9926
B 249.678	14.5528	13.8780	14.2040
Ba 389.178	58.5765	58.8720	57.8884
Be 313.042	1.3120	1.3026	1.3011
Ca 370.602	46211	45898	45889
Cd 226.502	0.0946	0.1208	0.2322
Co 228.615	3.7288	3.1693	3.0713
Cr 267.716	28.3016	28.3580	28.0502
Cu 324.754	6.5969	6.9966	7.0637
Fe 271.441	11244.0	11191.7	11169.8
K 766.491	975.362	973.777	966.988
Mg 279.078	3519.17	3493.82	3484.48
Mn 257.610	124.569	123.995	123.635
Mo 202.032	5.7555	4.6987	5.4001
Na 330.237	3873.37	3939.40	3952.13
Ni 231.604	9.0622	8.4375	7.3469
Pb 220.353	21.8249	23.3871	22.9955
Sb 206.834	-0.1536	0.1101	-1.8437u
Se 196.026	0.5504	6.6714	-0.4821u
Sn 189.925	11.0913	10.1445	13.7864
Sr 216.596	343.693	342.029	340.831
Ti 334.941	139.478	139.070	138.442
Tl 190.794	0.8678	0.4158u	1.2609
V 292.401	20.5601	20.3593	20.6199
Zn 206.200	51.2479	52.6290	51.9600

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.5730	ppb	0.1420	24.8	-71.8330
Al 308.215	9493.73	ppb	39.7265	0.4	28037.3
As 188.980	12.1398	ppb	1.0004	8.2	1.9512
B 249.678	14.2116	ppb	0.3375	2.4	328.945
Ba 389.178	58.4456	ppb	0.5047	0.9	1544.28
Be 313.042	1.3052	ppb	0.0059	0.5	2370.99
Ca 370.602	45999	ppb	183.6	0.4	145131
Cd 226.502	0.1492	ppb	0.0730	48.9	61.3228
Co 228.615	3.3231	ppb	0.3547	10.7	37.4947
Cr 267.716	28.2366	ppb	0.1639	0.6	1811.64
Cu 324.754	6.8857	ppb	0.2524	3.7	693.292
Fe 271.441	11201.8	ppb	38.1475	0.3	21472.3
K 766.491	972.042	ppb	4.4485	0.5	32873.3
Mg 279.078	3499.15	ppb	17.9482	0.5	10020.8
Mn 257.610	124.066	ppb	0.4711	0.4	33665.4
Mo 202.032	5.2848	ppb	0.5378	10.2	50.4098
Na 330.237	3921.63	ppb	42.2754	1.1	237.889
Ni 231.604	8.2822	ppb	0.8681	10.5	27.5462
Pb 220.353	22.7358	ppb	0.8128	3.6	62.3833
Sb 206.834	-0.6291	ppb	1.0601	168.5	5.1890
Se 196.026	2.2466	ppb	3.8667	172.1	1.7295
Sn 189.925	11.6741	ppb	1.8896	16.2	5.5179
Sr 216.596	342.185	ppb	1.4374	0.4	5744.38
Ti 334.941	138.997	ppb	0.5216	0.4	44320.5
Tl 190.794	0.8482	ppb	0.4229	49.9	-10.0974
V 292.401	20.5131	ppb	0.1365	0.7	615.465
Zn 206.200	51.9456	ppb	0.6906	1.3	6363.06.5824

680-92638-a-3-a (Samp) **8/1/2013, 2:45:54 AM** **Rack 3, Tube 32**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.1475u	-0.3914u	0.1339u
Al 308.215	10957.7	11003.2	11045.6
As 188.980	10.4517	14.1541	16.1155
B 249.678	12.4357	12.1871	12.3452
Ba 389.178	59.7045	57.8827	59.4060
Be 313.042	1.2662	1.2739	1.2823
Ca 370.602	232031	232260	234748
Cd 226.502	0.0540	0.2064	0.1845
Co 228.615	2.7065	3.5601	3.6937
Cr 267.716	33.5015	33.1253	33.5158
Cu 324.754	9.4335	8.8968	9.3018
Fe 271.441	13253.7	13268.8	13266.6
K 766.491	870.511	872.714	874.220
Mg 279.078	3387.49	3379.60	3380.34
Mn 257.610	139.699	139.710	139.901
Mo 202.032	4.0374	4.2118	3.8990
Na 330.237	3632.08	3716.92	3879.00
Ni 231.604	7.2626	7.5400	7.7144
Pb 220.353	19.3686	20.4402	18.6124
Sb 206.834	3.0609	-0.1019	0.4567
Se 196.026	11.1045	0.0135	5.9219
Sn 189.925	13.9534	11.4243	10.2388
Sr 216.596	1094.73	1094.20	1095.31
Ti 334.941	248.464	248.305	247.896
Tl 190.794	-0.8957u	2.8262	-1.0149u
V 292.401	24.7550	24.7447	24.5826
Zn 206.200	40.0330	40.9043	41.7088

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1350	ppb	0.2629	194.7	-73.2651
Al 308.215	11002.1	ppb	43.9497	0.4	32486.6
As 188.980	13.5737	ppb	2.8761	21.2	3.2397
B 249.678	12.3227	ppb	0.1258	1.0	291.582
Ba 389.178	58.9977	ppb	0.9771	1.7	1561.72
Be 313.042	1.2742	ppb	0.0081	0.6	2379.70
Ca 370.602	233013	ppb	1506	0.6	738340
Cd 226.502	0.1483	ppb	0.0824	55.6	69.7491
Co 228.615	3.3201	ppb	0.5356	16.1	40.6447
Cr 267.716	33.3809	ppb	0.2214	0.7	2137.45
Cu 324.754	9.2107	ppb	0.2797	3.0	841.630
Fe 271.441	13263.0	ppb	8.1836	0.1	25420.4
K 766.491	872.481	ppb	1.8654	0.2	29525.2
Mg 279.078	3382.48	ppb	4.3551	0.1	9687.17
Mn 257.610	139.770	ppb	0.1134	0.1	37915.7
Mo 202.032	4.0494	ppb	0.1567	3.9	39.7134
Na 330.237	3742.67	ppb	125.458	3.4	228.052
Ni 231.604	7.5057	ppb	0.2278	3.0	24.5828
Pb 220.353	19.4737	ppb	0.9184	4.7	55.7515
Sb 206.834	1.1386	ppb	1.6880	148.3	8.2854
Se 196.026	5.6799	ppb	5.5494	97.7	3.7652
Sn 189.925	11.8722	ppb	1.8974	16.0	5.8468
Sr 216.596	1094.75	ppb	0.5562	0.1	18342.8
Ti 334.941	248.222	ppb	0.2929	0.1	79176.1
Tl 190.794	0.3052	ppb	2.1841	715.6	-11.0879
V 292.401	24.6941	ppb	0.0967	0.4	743.419
Zn 206.200	40.8820	ppb	0.8381	2.1	77.3045

680-92638-a-4-a (Samp) **8/1/2013, 2:50:42 AM** **Rack 3, Tube 33**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.4321u	-0.4928u	-0.4840u
Al 308.215	7420.63	7263.34	7111.77
As 188.980	15.2472	11.5090	15.1410
B 249.678	11.0962	10.6772	10.8953
Ba 389.178	57.2898	55.2774	54.2829
Be 313.042	1.0491	1.0299	1.0104
Ca 370.602	177674	176264	172274
Cd 226.502	0.2279	0.2019	0.2761
Co 228.615	2.6610	2.7727	2.9114
Cr 267.716	24.8626	24.7823	24.1615
Cu 324.754	5.3816	5.2600	5.7578
Fe 271.441	10002.7	9897.44	9747.54
K 766.491	619.414	614.322	608.301
Mg 279.078	3700.67	3680.62	3634.53
Mn 257.610	128.051	126.659	124.798
Mo 202.032	3.1202	3.0721	3.0363
Na 330.237	2308.52	2093.71	2349.24
Ni 231.604	6.8012	5.1957	6.5760
Pb 220.353	15.2712	18.9879	16.8417
Sb 206.834	2.5093	1.4888	2.3705
Se 196.026	4.3308	-0.6880u	3.3874
Sn 189.925	12.5736	11.8459	10.4945
Sr 216.596	754.816	750.784	741.603
Ti 334.941	254.787	252.298	248.755
Tl 190.794	0.1748u	0.6243u	-1.3442u
V 292.401	18.5444	17.5323	17.6747
Zn 206.200	37.0335	37.4707	38.8504

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.4696	ppb	0.0328	7.0	-84.3038
Al 308.215	7265.25	ppb	154.438	2.1	21463.7
As 188.980	13.9658	ppb	2.1283	15.2	3.5867
B 249.678	10.8896	ppb	0.2095	1.9	274.979
Ba 389.178	55.6167	ppb	1.5319	2.8	1468.35
Be 313.042	1.0298	ppb	0.0194	1.9	1863.90
Ca 370.602	175404	ppb	2801	1.6	555841
Cd 226.502	0.2353	ppb	0.0377	16.0	60.5282
Co 228.615	2.7817	ppb	0.1254	4.5	32.9247
Cr 267.716	24.6021	ppb	0.3837	1.6	1582.00
Cu 324.754	5.4665	ppb	0.2595	4.7	602.606
Fe 271.441	9882.55	ppb	128.208	1.3	18945.2
K 766.491	614.012	ppb	5.5633	0.9	20833.3
Mg 279.078	3671.94	ppb	33.9130	0.9	10514.8
Mn 257.610	126.503	ppb	1.6322	1.3	34323.0
Mo 202.032	3.0762	ppb	0.0421	1.4	31.6028
Na 330.237	2250.49	ppb	137.292	6.1	153.961
Ni 231.604	6.1910	ppb	0.8692	14.0	19.3550
Pb 220.353	17.0336	ppb	1.8657	11.0	50.5225
Sb 206.834	2.1229	ppb	0.5535	26.1	9.6737
Se 196.026	2.3434	ppb	2.6673	113.8	1.7820
Sn 189.925	11.6380	ppb	1.0550	9.1	5.5514
Sr 216.596	749.068	ppb	6.7717	0.9	12557.1
Ti 334.941	251.947	ppb	3.0310	1.2	80365.9
Tl 190.794	-0.1817	ppb	1.0316	567.7	-11.4820
V 292.401	17.9172	ppb	0.5479	3.1	539.787
Zn 206.200	37.7849	ppb	0.9483	2.5	71.9042

680-92638-a-5-a (Samp) **8/1/2013, 2:55:19 AM** **Rack 3, Tube 34**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.9288u	-0.6617u	-0.5516u
Al 308.215	4511.57	4473.67	3780.48
As 188.980	12.1273	11.8089	10.1450
B 249.678	6.8488	6.1956	4.4653
Ba 389.178	42.6236	41.8178	35.1421
Be 313.042	0.7727	0.7721	0.6291
Ca 370.602	120900	121110	101327
Cd 226.502	1.2354	1.0904	0.7899
Co 228.615	2.0072	2.0177	1.6603
Cr 267.716	19.6672	19.4034	16.4005
Cu 324.754	2.6013	2.7791	1.7716
Fe 271.441	6000.80	5975.77	5047.11
K 766.491	353.197	347.909	299.140
Mg 279.078	1562.27	1552.49	1305.29
Mn 257.610	82.9203	82.4240	69.5915
Mo 202.032	2.7198	2.9108	1.6994
Na 330.237	1844.04	2122.86	1653.33
Ni 231.604	3.8428	5.0032	4.2076
Pb 220.353	13.2367	12.8688	11.2947
Sb 206.834	0.9524	1.9429	-4.4955u
Se 196.026	6.4741	2.0260	4.9439
Sn 189.925	9.7674	10.3219	8.5780
Sr 216.596	637.355	635.991	533.984
Ti 334.941	292.322	290.876	245.814
Tl 190.794	-2.1165u	2.4254	-0.2265u
V 292.401	12.6630	12.4185	10.6729
Zn 206.200	19.9106	19.6958	17.4093

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.7140	ppb	0.1940	27.2	-97.7599
Al 308.215	4255.24	ppb	411.588	9.7	12585.0
As 188.980	11.3604	ppb	1.0645	9.4	1.2500
B 249.678	5.8366	ppb	1.2316	21.1	198.137
Ba 389.178	39.8612	ppb	4.1067	10.3	1041.18
Be 313.042	0.7246	ppb	0.0828	11.4	1223.98
Ca 370.602	114446	ppb	11361	9.9	362791
Cd 226.502	1.0386	ppb	0.2272	21.9	86.3862
Co 228.615	1.8951	ppb	0.2034	10.7	20.7664
Cr 267.716	18.4904	ppb	1.8147	9.8	1194.57
Cu 324.754	2.3840	ppb	0.5378	22.6	405.311
Fe 271.441	5674.56	ppb	543.531	9.6	10885.0
K 766.491	333.415	ppb	29.8010	8.9	11397.3
Mg 279.078	1473.35	ppb	145.626	9.9	4237.87
Mn 257.610	78.3120	ppb	7.5562	9.6	21270.1
Mo 202.032	2.4434	ppb	0.6513	26.7	26.4509
Na 330.237	1873.41	ppb	236.138	12.6	136.403
Ni 231.604	4.3512	ppb	0.5934	13.6	12.0567
Pb 220.353	12.4667	ppb	1.0316	8.3	40.8070
Sb 206.834	-0.5334	ppb	3.4668	649.9	5.0502
Se 196.026	4.4813	ppb	2.2598	50.4	3.0103
Sn 189.925	9.5558	ppb	0.8910	9.3	3.1918
Sr 216.596	602.443	ppb	59.2913	9.8	10093.4
Ti 334.941	276.337	ppb	26.4437	9.6	88137.4
Tl 190.794	0.0275	ppb	2.2816	8303.3	-10.7588
V 292.401	11.9181	ppb	1.0853	9.1	359.689
Zn 206.200	19.0053	ppb	1.3863	7.3	39.1532

680-92638-a-6-a (Samp) **8/1/2013, 2:59:56 AM** **Rack 3, Tube 35**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.3235u	0.1803u	-0.2270u
Al 308.215	7869.11	8006.26	7891.54
As 188.980	12.4982	4.9835	7.7915
B 249.678	5.9668	6.0925	5.7370
Ba 389.178	51.1754	51.1573	50.9112
Be 313.042	0.7699	0.7833	0.7568
Ca 370.602	114828	116668	114975
Cd 226.502	0.6521	0.6495	0.5146
Co 228.615	2.9653	2.8197	2.5230
Cr 267.716	20.6381	20.8244	20.5555
Cu 324.754	3.4755	3.5361	3.3672
Fe 271.441	6356.29	6433.41	6299.85
K 766.491	409.385	411.246	406.261
Mg 279.078	1526.73	1542.95	1513.52
Mn 257.610	69.7463	70.4122	69.1789
Mo 202.032	2.9840	2.9100	2.7921
Na 330.237	1906.67	1909.77	1925.27
Ni 231.604	6.2463	6.2836	6.7895
Pb 220.353	13.3338	12.9409	13.6957
Sb 206.834	-1.9778u	-0.3527u	-1.6420u
Se 196.026	7.7562	4.9138	1.9442
Sn 189.925	11.3684	12.8702	13.8935
Sr 216.596	398.258	403.042	394.682
Ti 334.941	216.302	218.444	213.954
Tl 190.794	0.7276	1.3849	2.2517
V 292.401	11.4207	11.8394	11.2858
Zn 206.200	22.9059	25.2314	22.0643

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1234	ppb	0.2674	216.7	-36.3009
Al 308.215	7922.30	ppb	73.5688	0.9	23402.5
As 188.980	8.4244	ppb	3.7971	45.1	-1.3580
B 249.678	5.9321	ppb	0.1803	3.0	198.144
Ba 389.178	51.0813	ppb	0.1476	0.3	1337.17
Be 313.042	0.7700	ppb	0.0132	1.7	1316.35
Ca 370.602	115490	ppb	1023	0.9	366018
Cd 226.502	0.6054	ppb	0.0787	13.0	65.8896
Co 228.615	2.7693	ppb	0.2254	8.1	31.5864
Cr 267.716	20.6727	ppb	0.1378	0.7	1332.44
Cu 324.754	3.4596	ppb	0.0856	2.5	473.905
Fe 271.441	6363.18	ppb	67.0451	1.1	12204.1
K 766.491	408.964	ppb	2.5191	0.6	13937.9
Mg 279.078	1527.73	ppb	14.7376	1.0	4392.04
Mn 257.610	69.7791	ppb	0.6173	0.9	18967.9
Mo 202.032	2.8954	ppb	0.0968	3.3	30.2776
Na 330.237	1913.90	ppb	9.9669	0.5	138.393
Ni 231.604	6.4398	ppb	0.3034	4.7	20.2174
Pb 220.353	13.3235	ppb	0.3775	2.8	42.5829
Sb 206.834	-1.3241	ppb	0.8579	64.8	3.7945
Se 196.026	4.8714	ppb	2.9062	59.7	3.2404
Sn 189.925	12.7107	ppb	1.2701	10.0	6.7141
Sr 216.596	398.661	ppb	4.1944	1.1	6691.99
Ti 334.941	216.234	ppb	2.2455	1.0	68957.6
Tl 190.794	1.4547	ppb	0.7644	52.5	-8.7296
V 292.401	11.5153	ppb	0.2887	2.5	346.259
Zn 206.200	23.4005	ppb	1.6405	6.9	46.8115

680-92638-a-7-a (Samp) **8/1/2013, 3:04:32 AM** **Rack 3, Tube 36**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.3521u	-0.6025u	-0.2291u
Al 308.215	10265.3	10103.5	9981.60
As 188.980	18.2006	14.8462	13.2873
B 249.678	14.0185	13.8407	14.0925
Ba 389.178	53.7549	52.7551	52.4046
Be 313.042	1.2508	1.2354	1.2175
Ca 370.602	171729	168561	166995
Cd 226.502	0.0941	0.2474	0.2140
Co 228.615	2.8950	3.2986	3.4098
Cr 267.716	37.1924	37.1017	36.4267
Cu 324.754	33.2964	32.5680	32.6428
Fe 271.441	13226.3	13082.6	13018.3
K 766.491	1063.24	1062.07	1058.72
Mg 279.078	3552.76	3521.57	3503.57
Mn 257.610	156.429	154.515	153.444
Mo 202.032	5.6830	5.3885	5.4176
Na 330.237	3806.58	3875.11	4026.09
Ni 231.604	11.3283	10.1564	10.9981
Pb 220.353	22.6456	22.9400	22.3107
Sb 206.834	-1.0641u	-1.0699u	-2.7758u
Se 196.026	2.5715	6.2393	-0.5382u
Sn 189.925	14.6121	13.6298	15.9829
Sr 216.596	928.574	918.422	914.251
Ti 334.941	235.746	232.848	231.056
Tl 190.794	-1.1849u	-0.5515u	1.8812
V 292.401	23.0424	22.5274	22.4294
Zn 206.200	58.0631	57.6583	55.7137

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.3946	ppb	0.1903	48.2	-86.3213
Al 308.215	10116.8	ppb	142.315	1.4	29875.1
As 188.980	15.4447	ppb	2.5107	16.3	4.9163
B 249.678	13.9839	ppb	0.1294	0.9	320.519
Ba 389.178	52.9715	ppb	0.7007	1.3	1403.61
Be 313.042	1.2346	ppb	0.0167	1.4	2274.67
Ca 370.602	169095	ppb	2412	1.4	535560
Cd 226.502	0.1851	ppb	0.0806	43.5	71.0801
Co 228.615	3.2011	ppb	0.2709	8.5	38.4800
Cr 267.716	36.9069	ppb	0.4184	1.1	2360.12
Cu 324.754	32.8357	ppb	0.4007	1.2	2342.16
Fe 271.441	13109.0	ppb	106.516	0.8	25125.4
K 766.491	1061.34	ppb	2.3478	0.2	35876.3
Mg 279.078	3525.97	ppb	24.8914	0.7	10096.9
Mn 257.610	154.796	ppb	1.5123	1.0	41974.4
Mo 202.032	5.4964	ppb	0.1623	3.0	52.1029
Na 330.237	3902.60	ppb	112.307	2.9	235.969
Ni 231.604	10.8276	ppb	0.6043	5.6	37.5249
Pb 220.353	22.6321	ppb	0.3149	1.4	62.2668
Sb 206.834	-1.6366	ppb	0.9866	60.3	3.7174
Se 196.026	2.7575	ppb	3.3926	123.0	2.0472
Sn 189.925	14.7416	ppb	1.1819	8.0	9.0126
Sr 216.596	920.416	ppb	7.3668	0.8	15421.2
Ti 334.941	233.216	ppb	2.3668	1.0	74388.4
Tl 190.794	0.0483	ppb	1.6187	3353.2	-11.4616
V 292.401	22.6664	ppb	0.3293	1.5	681.516
Zn 206.200	57.1450	ppb	1.2560	2.2	105.629

680-92638-a-8-a (Samp) **8/1/2013, 3:18:23 AM** **Rack 3, Tube 39**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.5996u	-0.4167u	-0.5563u
Al 308.215	11090.9	11044.3	10907.5
As 188.980	15.8436	18.2014	13.5176
B 249.678	9.9789	10.2939	10.8795
Ba 389.178	54.3577	53.9072	54.1281
Be 313.042	1.0144	1.0243	1.0202
Ca 370.602	170365	170182	168191
Cd 226.502	0.4769	0.4892	0.6951
Co 228.615	2.9743	2.3062	2.9554
Cr 267.716	28.5316	28.6179	28.4408
Cu 324.754	4.8712	4.6535	5.1111
Fe 271.441	8943.65	8932.41	8922.99
K 766.491	591.305	593.308	590.692
Mg 279.078	2423.04	2428.09	2423.92
Mn 257.610	98.1398	98.1201	97.7070
Mo 202.032	3.8028	3.6879	3.5152
Na 330.237	2839.28	2916.48	2953.55
Ni 231.604	10.3775	10.9186	9.0723
Pb 220.353	16.8504	18.0314	18.6710
Sb 206.834	0.3526	3.7999	-2.4687u
Se 196.026	2.0797	5.5735	2.0497
Sn 189.925	12.8070	13.4956	11.1271
Sr 216.596	779.355	779.474	779.035
Ti 334.941	233.376	233.590	231.943
Tl 190.794	3.3063	-0.7096u	-0.6317u
V 292.401	17.0716	16.4394	16.8864
Zn 206.200	54.9415	55.7160	56.2352

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.5242	ppb	0.0956	18.2	-90.4909
Al 308.215	11014.2	ppb	95.3229	0.9	32522.9
As 188.980	15.8542	ppb	2.3419	14.8	5.3589
B 249.678	10.3841	ppb	0.4570	4.4	268.570
Ba 389.178	54.1310	ppb	0.2253	0.4	1424.08
Be 313.042	1.0196	ppb	0.0050	0.5	1841.28
Ca 370.602	169580	ppb	1206	0.7	537426
Cd 226.502	0.5538	ppb	0.1226	22.1	73.7026
Co 228.615	2.7453	ppb	0.3804	13.9	31.8250
Cr 267.716	28.5301	ppb	0.0886	0.3	1829.60
Cu 324.754	4.8786	ppb	0.2289	4.7	564.951
Fe 271.441	8933.02	ppb	10.3434	0.1	17126.5
K 766.491	591.769	ppb	1.3680	0.2	20085.3
Mg 279.078	2425.02	ppb	2.7003	0.1	6953.01
Mn 257.610	97.9890	ppb	0.2444	0.2	26605.7
Mo 202.032	3.6686	ppb	0.1447	3.9	36.7287
Na 330.237	2903.10	ppb	58.2971	2.0	186.906
Ni 231.604	10.1228	ppb	0.9491	9.4	34.6522
Pb 220.353	17.8509	ppb	0.9236	5.2	52.0399
Sb 206.834	0.5613	ppb	3.1395	559.4	7.1023
Se 196.026	3.2343	ppb	2.0258	62.6	2.2946
Sn 189.925	12.4766	ppb	1.2183	9.8	6.4841
Sr 216.596	779.288	ppb	0.2274	0.0	13059.3
Ti 334.941	232.970	ppb	0.8957	0.4	74303.5
Tl 190.794	0.6550	ppb	2.2964	350.6	-10.1527
V 292.401	16.7992	ppb	0.3250	1.9	505.330
Zn 206.200	55.6309	ppb	0.6510	1.2	102.976

680-92638-a-9-a (Samp) **8/1/2013, 3:23:00 AM** **Rack 3, Tube 40**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	0.1146u	0.0660u	0.4238u
Al 308.215	5525.99	5509.08	5518.57
As 188.980	17.1390	21.1416	12.1893
B 249.678	11.2829	11.3222	11.3766
Ba 389.178	62.0735	62.5164	63.4066
Be 313.042	0.8019	0.7995	0.8026
Ca 370.602	541888	539110	537099
Cd 226.502	0.1720	0.0752	0.2487
Co 228.615	2.3299	2.3088	2.6572
Cr 267.716	23.6412	23.8467	24.0690
Cu 324.754	5.3414	5.2298	5.4460
Fe 271.441	10023.4	10000.9	10022.2
K 766.491	802.723	803.240	813.639
Mg 279.078	2735.35	2736.23	2731.52
Mn 257.610	143.175	143.020	142.991
Mo 202.032	4.2652	4.6323	4.3330
Na 330.237	7253.47	7108.05	7331.46
Ni 231.604	6.0862	6.1938	5.2082
Pb 220.353	14.4871	15.7649	15.7041
Sb 206.834	3.1212	0.3146	0.0648
Se 196.026	9.3539	7.3428	0.8495
Sn 189.925	10.8795	11.1355	10.4958
Sr 216.596	2367.06	2366.66	2361.59
Ti 334.941	221.861	221.562	221.993
Tl 190.794	-2.5672u	-1.0251u	-2.1339u
V 292.401	16.6166	16.4823	15.4351
Zn 206.200	32.4402	32.6073	32.6809

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.2014	ppb	0.1940	96.3	-109.758
Al 308.215	5517.88	ppb	8.4778	0.2	16309.4
As 188.980	16.8233	ppb	4.4845	26.7	6.1380
B 249.678	11.3272	ppb	0.0471	0.4	282.223
Ba 389.178	62.6655	ppb	0.6789	1.1	1650.93
Be 313.042	0.8013	ppb	0.0016	0.2	1538.12
Ca 370.602	539366	ppb	2405	0.4	1710504
Cd 226.502	0.1653	ppb	0.0870	52.6	57.1878
Co 228.615	2.4320	ppb	0.1953	8.0	27.0417
Cr 267.716	23.8523	ppb	0.2140	0.9	1534.81
Cu 324.754	5.3391	ppb	0.1081	2.0	594.629
Fe 271.441	10015.5	ppb	12.6600	0.1	19199.9
K 766.491	806.534	ppb	6.1585	0.8	27307.5
Mg 279.078	2734.36	ppb	2.5062	0.1	7837.90
Mn 257.610	143.062	ppb	0.0988	0.1	38793.0
Mo 202.032	4.4102	ppb	0.1953	4.4	43.0093
Na 330.237	7230.99	ppb	113.387	1.6	404.790
Ni 231.604	5.8294	ppb	0.5407	9.3	17.9497
Pb 220.353	15.3187	ppb	0.7208	4.7	47.0703
Sb 206.834	1.1669	ppb	1.6971	145.4	8.0562
Se 196.026	5.8487	ppb	4.4447	76.0	3.8524
Sn 189.925	10.8369	ppb	0.3220	3.0	4.8669
Sr 216.596	2365.10	ppb	3.0500	0.1	39597.8
Ti 334.941	221.805	ppb	0.2204	0.1	70741.8
Tl 190.794	-1.9088	ppb	0.7953	41.7	-14.0307
V 292.401	16.1780	ppb	0.6469	4.0	486.554
Zn 206.200	32.5761	ppb	0.1233	0.4	62.8323

680-92638-a-10-a (Samp) **8/1/2013, 3:27:37 AM** **Rack 3, Tube 41**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	0.3032u	0.5295u	0.9222u
Al 308.215	8463.43	8529.47	8594.95
As 188.980	12.3671	10.2893	10.1219
B 249.678	14.3402	13.8309	14.0599
Ba 389.178	69.5620	69.5264	69.0074
Be 313.042	1.1596	1.1672	1.1591
Ca 370.602	380936	383645	385368
Cd 226.502	0.6763	0.7431	0.6358
Co 228.615	2.6664	3.0802	2.5683
Cr 267.716	25.7640	25.8429	25.4137
Cu 324.754	8.0873	8.4136	7.2727
Fe 271.441	11750.7	11742.7	11738.3
K 766.491	643.401	641.204	644.430
Mg 279.078	2474.68	2463.59	2465.41
Mn 257.610	136.287	136.457	136.711
Mo 202.032	2.8936	2.8088	2.6540
Na 330.237	4367.94	4760.96	4770.57
Ni 231.604	5.4094	6.8748	6.8987
Pb 220.353	17.5738	17.8706	21.4017
Sb 206.834	0.0459	1.3313	-4.7759u
Se 196.026	7.2528	3.3409	-7.1420u
Sn 189.925	14.7717	13.2811	11.4849
Sr 216.596	1601.37	1599.20	1598.29
Ti 334.941	202.371	201.675	201.777
Tl 190.794	0.0456u	1.1314	-0.8520u
V 292.401	21.0814	20.7046	20.7364
Zn 206.200	53.3141	52.2789	52.6137

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.5850	ppb	0.3132	53.5	-37.1599
Al 308.215	8529.29	ppb	65.7614	0.8	25192.3
As 188.980	10.9261	ppb	1.2508	11.4	0.8340
B 249.678	14.0770	ppb	0.2551	1.8	325.373
Ba 389.178	69.3653	ppb	0.3104	0.4	1828.88
Be 313.042	1.1620	ppb	0.0045	0.4	2209.52
Ca 370.602	383316	ppb	2234	0.6	1215281
Cd 226.502	0.6851	ppb	0.0542	7.9	92.3403
Co 228.615	2.7716	ppb	0.2717	9.8	31.4706
Cr 267.716	25.6735	ppb	0.2285	0.9	1650.18
Cu 324.754	7.9245	ppb	0.5876	7.4	759.375
Fe 271.441	11743.9	ppb	6.2915	0.1	22510.5
K 766.491	643.012	ppb	1.6480	0.3	21808.5
Mg 279.078	2467.89	ppb	5.9445	0.2	7076.30
Mn 257.610	136.485	ppb	0.2135	0.2	37017.1
Mo 202.032	2.7855	ppb	0.1215	4.4	29.0009
Na 330.237	4633.16	ppb	229.732	5.0	273.312
Ni 231.604	6.3943	ppb	0.8531	13.3	20.2051
Pb 220.353	18.9487	ppb	2.1295	11.2	54.6303
Sb 206.834	-1.1329	ppb	3.2197	284.2	4.3917
Se 196.026	1.1506	ppb	7.4432	646.9	1.0896
Sn 189.925	13.1792	ppb	1.6458	12.5	7.3920
Sr 216.596	1599.62	ppb	1.5824	0.1	26794.4
Ti 334.941	201.941	ppb	0.3762	0.2	64402.0
Tl 190.794	0.1083	ppb	0.9932	916.8	-11.2357
V 292.401	20.8408	ppb	0.2090	1.0	627.052
Zn 206.200	52.7355	ppb	0.5282	1.0	6440.9763

680-92638-a-11-a (Samp) **8/1/2013, 3:32:14 AM** **Rack 3, Tube 42**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.1291u	-0.0860u	-0.1303u
Al 308.215	8028.56	8029.74	7088.88
As 188.980	16.2350	15.1126	11.7828
B 249.678	13.3145	14.1229	12.8076
Ba 389.178	66.0154	66.1957	59.5390
Be 313.042	1.0743	1.0667	0.9266
Ca 370.602	406559	405531	355774
Cd 226.502	0.0971	0.0463	0.1408
Co 228.615	3.9117	3.3665	2.7591
Cr 267.716	28.1752	27.9956	25.0357
Cu 324.754	5.0324	5.2429	4.8092
Fe 271.441	12779.5	12722.4	11303.5
K 766.491	1111.47	1110.63	979.828
Mg 279.078	3517.42	3506.24	3098.78
Mn 257.610	171.361	170.649	151.600
Mo 202.032	6.0633	5.6659	4.9209
Na 330.237	6669.63	6822.92	6045.46
Ni 231.604	9.0097	8.0622	6.5502
Pb 220.353	16.1940	16.9182	14.2586
Sb 206.834	-1.5662u	-1.8046u	0.2311
Se 196.026	6.6416	6.5493	-0.0976
Sn 189.925	10.4471	10.7551	9.8201
Sr 216.596	1829.36	1819.21	1618.47
Ti 334.941	224.073	223.169	198.465
Tl 190.794	-0.6077u	-2.2868u	0.4324u
V 292.401	20.8245	20.4631	18.5081
Zn 206.200	39.5518	38.4131	33.9486

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0291	ppb	0.1387	477.4	-98.1754
Al 308.215	7715.73	ppb	542.864	7.0	22792.5
As 188.980	14.3768	ppb	2.3155	16.1	3.9289
B 249.678	13.4150	ppb	0.6634	4.9	312.752
Ba 389.178	63.9167	ppb	3.7923	5.9	1689.32
Be 313.042	1.0225	ppb	0.0831	8.1	1929.29
Ca 370.602	389288	ppb	29029	7.5	1234192
Cd 226.502	0.0947	ppb	0.0473	49.9	62.6979
Co 228.615	3.3458	ppb	0.5766	17.2	39.9656
Cr 267.716	27.0689	ppb	1.7630	6.5	1738.69
Cu 324.754	5.0282	ppb	0.2169	4.3	575.720
Fe 271.441	12268.5	ppb	836.174	6.8	23515.4
K 766.491	1067.31	ppb	75.7626	7.1	36077.0
Mg 279.078	3374.14	ppb	238.541	7.1	9663.99
Mn 257.610	164.536	ppb	11.2092	6.8	44604.8
Mo 202.032	5.5500	ppb	0.5799	10.4	52.6179
Na 330.237	6512.67	ppb	411.808	6.3	367.929
Ni 231.604	7.8741	ppb	1.2405	15.8	25.9860
Pb 220.353	15.7903	ppb	1.3750	8.7	48.1931
Sb 206.834	-1.0466	ppb	1.1129	106.3	4.5128
Se 196.026	4.3644	ppb	3.8645	88.5	2.9933
Sn 189.925	10.3408	ppb	0.4765	4.6	4.2280
Sr 216.596	1755.68	ppb	118.940	6.8	29401.8
Ti 334.941	215.236	ppb	14.5313	6.8	68649.1
Tl 190.794	-0.8207	ppb	1.3721	167.2	-12.6603
V 292.401	19.9319	ppb	1.2462	6.3	599.267
Zn 206.200	37.3045	ppb	2.9616	7.9	71.0851

680-92638-a-12-a (Samp) **8/1/2013, 3:36:51 AM** **Rack 3, Tube 43**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.1898u	-0.2488u	-0.2951u
Al 308.215	8122.32	8078.91	8077.10
As 188.980	10.9495	16.5920	13.8349
B 249.678	12.5180	12.1294	12.7210
Ba 389.178	61.8661	62.3418	62.9160
Be 313.042	1.0692	1.0540	1.0526
Ca 370.602	351662	349162	347454
Cd 226.502	0.5553	0.6705	0.6481
Co 228.615	2.7359	2.4283	3.4869
Cr 267.716	30.1510	30.0266	30.3202
Cu 324.754	7.3115	6.9654	7.0423
Fe 271.441	11284.5	11267.4	11269.3
K 766.491	743.576	745.845	748.527
Mg 279.078	3399.66	3395.07	3393.85
Mn 257.610	145.915	145.412	145.842
Mo 202.032	2.6214	2.9037	2.8700
Na 330.237	4654.93	4491.43	4362.55
Ni 231.604	8.1604	8.3312	7.7106
Pb 220.353	19.1336	19.5708	16.8075
Sb 206.834	-5.3060u	2.1806	-0.3874
Se 196.026	1.4156	0.8009	5.6249
Sn 189.925	11.0372	9.2584	11.6526
Sr 216.596	1405.05	1399.16	1403.60
Ti 334.941	187.996	187.160	187.529
Tl 190.794	-2.5691u	-3.5779u	-0.5771u
V 292.401	21.7619	21.3114	21.4186
Zn 206.200	65.3559	61.3141	61.7052

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.2446	ppb	0.0528	21.6	-98.3975
Al 308.215	8092.77	ppb	25.6046	0.3	23904.5
As 188.980	13.7922	ppb	2.8215	20.5	3.4215
B 249.678	12.4561	ppb	0.3006	2.4	298.638
Ba 389.178	62.3746	ppb	0.5257	0.8	1647.28
Be 313.042	1.0586	ppb	0.0092	0.9	1987.22
Ca 370.602	349426	ppb	2116	0.6	1107792
Cd 226.502	0.6246	ppb	0.0611	9.8	87.1477
Co 228.615	2.8837	ppb	0.5446	18.9	32.6692
Cr 267.716	30.1659	ppb	0.1474	0.5	1933.71
Cu 324.754	7.1064	ppb	0.1817	2.6	707.225
Fe 271.441	11273.7	ppb	9.3514	0.1	21609.9
K 766.491	745.983	ppb	2.4785	0.3	25271.3
Mg 279.078	3396.19	ppb	3.0594	0.1	9726.96
Mn 257.610	145.723	ppb	0.2714	0.2	39519.3
Mo 202.032	2.7984	ppb	0.1542	5.5	29.1378
Na 330.237	4502.97	ppb	146.531	3.3	266.801
Ni 231.604	8.0674	ppb	0.3206	4.0	26.7109
Pb 220.353	18.5040	ppb	1.4854	8.0	53.6973
Sb 206.834	-1.1709	ppb	3.8043	324.9	4.3733
Se 196.026	2.6138	ppb	2.6257	100.5	1.9524
Sn 189.925	10.6494	ppb	1.2433	11.7	4.5479
Sr 216.596	1402.60	ppb	3.0716	0.2	23498.6
Ti 334.941	187.562	ppb	0.4188	0.2	59818.0
Tl 190.794	-2.2413	ppb	1.5270	68.1	-14.6291
V 292.401	21.4973	ppb	0.2353	1.1	646.365
Zn 206.200	62.7917	ppb	2.2393	3.6	115.476

mb 680-286324/23-a (Samp) **8/1/2013, 3:41:28 AM** **Rack 3, Tube 44**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	-0.1399u	-0.0748u	0.0157
Al 308.215	8.1552	7.2607	11.0750
As 188.980	-1.7844u	0.4838	-1.0421u
B 249.678	0.7901	0.4257	0.3066
Ba 389.178	0.3153	0.6364	0.3756
Be 313.042	0.0155	0.0130	0.0179
Ca 370.602	156.0	161.4	161.0
Cd 226.502	0.2873	0.0188	0.2186
Co 228.615	0.3107	1.2840	-0.0485u
Cr 267.716	1.6484	1.9390	1.7044
Cu 324.754	0.4676	0.6139	0.5091
Fe 271.441	28.7356	29.1769	32.1457
K 766.491	17.9771	16.7889	17.4491
Mg 279.078	20.3312	18.6609	21.7990
Mn 257.610	1.1062	1.1009	1.1084
Mo 202.032	0.3646	-0.1084u	0.3188
Na 330.237	-75.5722u	64.0830	-103.117u
Ni 231.604	2.6446	0.8182	1.9271
Pb 220.353	0.3809	1.8598	-1.9230u
Sb 206.834	2.1712	2.4635	3.4996
Se 196.026	-1.4858u	0.1405	3.9724
Sn 189.925	25.6521	23.2160	23.5643
Sr 216.596	0.5227	0.3247	0.2979
Ti 334.941	0.4350	0.4626	0.4726
Tl 190.794	-0.5320u	2.0144	-0.0069u
V 292.401	-0.2559u	-0.1173u	-0.1220u
Zn 206.200	1.1010	1.1854	0.3598

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0663	ppb	0.0781	117.8	-11.0382
Al 308.215	8.8303	ppb	1.9948	22.6	59.5714
As 188.980	-0.7809	ppb	1.1565	148.1	-9.6930
B 249.678	0.5074	ppb	0.2519	49.6	119.937
Ba 389.178	0.4424	ppb	0.1706	38.6	-7.6627
Be 313.042	0.0155	ppb	0.0025	15.9	-252.109
Ca 370.602	159.5	ppb	3.030	1.9	506.1
Cd 226.502	0.1749	ppb	0.1395	79.7	16.6061
Co 228.615	0.5154	ppb	0.6894	133.8	-6.8328
Cr 267.716	1.7639	ppb	0.1542	8.7	135.543
Cu 324.754	0.5302	ppb	0.0754	14.2	285.535
Fe 271.441	30.0194	ppb	1.8546	6.2	72.9537
K 766.491	17.4051	ppb	0.5953	3.4	770.334
Mg 279.078	20.2637	ppb	1.5701	7.7	90.5936
Mn 257.610	1.1052	ppb	0.0038	0.3	381.115
Mo 202.032	0.1917	ppb	0.2609	136.1	7.5506
Na 330.237	-38.2020	ppb	89.6457	234.7	43.0855
Ni 231.604	1.7966	ppb	0.9201	51.2	1.9312
Pb 220.353	0.1059	ppb	1.9063	1800.7	15.1633
Sb 206.834	2.7115	ppb	0.6980	25.7	9.9957
Se 196.026	0.8757	ppb	2.8024	320.0	0.8406
Sn 189.925	24.1441	ppb	1.3175	5.5	19.4100
Sr 216.596	0.3818	ppb	0.1228	32.2	15.0264
Ti 334.941	0.4567	ppb	0.0195	4.3	89.9336
Tl 190.794	0.4919	ppb	1.3445	273.3	-9.5185
V 292.401	-0.1651	ppb	0.0787	47.7	-8.1834
Zn 206.200	0.8821	ppb	0.4543	51.5	7.5740

190-1466-a-1-a (Samp) **8/1/2013, 3:46:05 AM** **Rack 3, Tube 45**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	0.0146	0.1404	-0.0960u
Al 308.215	67.1040	69.0138	64.1347
As 188.980	-0.5431u	-1.7733u	2.7257
B 249.678	0.4683	0.8473	0.3966
Ba 389.178	0.3391	0.7875	1.1026
Be 313.042	0.0228	0.0161	0.0085
Ca 370.602	201.2	199.1	197.4
Cd 226.502	0.2411	0.1552	0.1684
Co 228.615	0.4587	0.5352	0.3619
Cr 267.716	2.2586	2.0390	2.0151
Cu 324.754	37.0693	36.7833	36.8467
Fe 271.441	60.5713	65.5231	60.7377
K 766.491	19.9914	20.6742	19.4799
Mg 279.078	39.0462	34.9214	36.2894
Mn 257.610	2.3159	2.2165	2.2124
Mo 202.032	0.1500	0.8170	0.3453
Na 330.237	-207.179u	175.817	-28.1269u
Ni 231.604	2.2564	2.0190	2.8389
Pb 220.353	2.1168	2.1621	2.2416
Sb 206.834	2.0690	0.5598	-0.4792u
Se 196.026	3.3719	-2.8494u	0.3221
Sn 189.925	24.5047	28.7044	23.4506
Sr 216.596	0.4489	0.4346	0.6745
Ti 334.941	1.3091	1.2473	1.2751
Tl 190.794	-1.8559u	0.3365	0.6060
V 292.401	-0.2165u	0.0154	-0.0689u
Zn 206.200	46.2257	44.6266	43.1167

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0197	ppb	0.1183	601.2	-3.6299
Al 308.215	66.7508	ppb	2.4587	3.7	230.432
As 188.980	0.1364	ppb	2.3252	1704.4	-8.8645
B 249.678	0.5707	ppb	0.2421	42.4	120.942
Ba 389.178	0.7431	ppb	0.3837	51.6	0.3443
Be 313.042	0.0158	ppb	0.0072	45.4	-251.463
Ca 370.602	199.2	ppb	1.893	1.0	629.9
Cd 226.502	0.1882	ppb	0.0463	24.6	17.4684
Co 228.615	0.4520	ppb	0.0868	19.2	-7.7237
Cr 267.716	2.1042	ppb	0.1343	6.4	157.048
Cu 324.754	36.8998	ppb	0.1502	0.4	2595.52
Fe 271.441	62.2774	ppb	2.8121	4.5	134.733
K 766.491	20.0485	ppb	0.5992	3.0	859.229
Mg 279.078	36.7524	ppb	2.1010	5.7	137.637
Mn 257.610	2.2483	ppb	0.0586	2.6	690.182
Mo 202.032	0.4374	ppb	0.3429	78.4	9.6502
Na 330.237	-19.8297	ppb	191.633	966.4	43.3624
Ni 231.604	2.3714	ppb	0.4219	17.8	4.1728
Pb 220.353	2.1735	ppb	0.0632	2.9	19.4163
Sb 206.834	0.7165	ppb	1.2813	178.8	6.7032
Se 196.026	0.2815	ppb	3.1108	1105.0	0.4910
Sn 189.925	25.5533	ppb	2.7794	10.9	20.9829
Sr 216.596	0.5193	ppb	0.1346	25.9	17.3632
Ti 334.941	1.2772	ppb	0.0310	2.4	351.858
Tl 190.794	-0.3044	ppb	1.3503	443.5	-10.6862
V 292.401	-0.0900	ppb	0.1174	130.4	-5.9805
Zn 206.200	44.6563	ppb	1.5547	3.5	83.8579

190-1466-a-2-a (Samp) **8/1/2013, 3:50:42 AM** **Rack 3, Tube 46**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	-0.2493u	-0.0620u	0.0235
Al 308.215	11.7084	7.5898	13.8730
As 188.980	2.8507	0.9929	-4.1985u
B 249.678	0.8192	-0.0029u	0.2079
Ba 389.178	-0.3663u	0.3845	-0.0177u
Be 313.042	0.0097	0.0105	0.0151
Ca 370.602	114.3	116.1	115.4
Cd 226.502	0.1987	0.2593	0.0709
Co 228.615	0.4687	0.9185	0.7834
Cr 267.716	1.4568	1.7884	1.5592
Cu 324.754	0.9691	0.3455	0.9149
Fe 271.441	14.3597	21.0779	23.5667
K 766.491	17.7299	18.5345	18.1326
Mg 279.078	17.1795	16.9243	17.4813
Mn 257.610	1.3490	1.3377	1.2908
Mo 202.032	0.0226	-0.3262u	-0.0454u
Na 330.237	125.863	63.8140	-80.9739u
Ni 231.604	1.7946	0.7867	1.5262
Pb 220.353	-0.5384u	0.8226	-0.7219u
Sb 206.834	2.5253	2.0133	0.7360
Se 196.026	3.8494	-0.2345u	-1.5304u
Sn 189.925	24.2753	25.8180	24.9468
Sr 216.596	-0.0904u	0.1803	0.0815
Ti 334.941	0.8365	0.8255	0.7874
Tl 190.794	2.6299	-0.1131u	0.6465
V 292.401	-0.1141u	-0.0880u	-0.3965u
Zn 206.200	2.2591	1.9763	0.8189

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0960	ppb	0.1395	145.4	-13.5878
Al 308.215	11.0571	ppb	3.1918	28.9	66.1293
As 188.980	-0.1183	ppb	3.6536	3088.0	-9.0945
B 249.678	0.3414	ppb	0.4270	125.1	117.106
Ba 389.178	0.0002	ppb	0.3757	232071.7	-19.3053
Be 313.042	0.0118	ppb	0.0029	24.4	-259.545
Ca 370.602	115.3	ppb	0.8903	0.8	366.9
Cd 226.502	0.1763	ppb	0.0962	54.6	16.6409
Co 228.615	0.7235	ppb	0.2308	31.9	-3.8443
Cr 267.716	1.6015	ppb	0.1698	10.6	125.285
Cu 324.754	0.7432	ppb	0.3454	46.5	299.048
Fe 271.441	19.6681	ppb	4.7626	24.2	53.1556
K 766.491	18.1323	ppb	0.4023	2.2	794.791
Mg 279.078	17.1951	ppb	0.2788	1.6	81.8230
Mn 257.610	1.3258	ppb	0.0308	2.3	440.667
Mo 202.032	-0.1164	ppb	0.1849	158.9	4.9167
Na 330.237	36.2345	ppb	106.141	292.9	46.8184
Ni 231.604	1.3692	ppb	0.5220	38.1	0.2644
Pb 220.353	-0.1459	ppb	0.8438	578.4	14.6449
Sb 206.834	1.7582	ppb	0.9215	52.4	8.4261
Se 196.026	0.6948	ppb	2.8077	404.1	0.7340
Sn 189.925	25.0134	ppb	0.7735	3.1	20.3803
Sr 216.596	0.0571	ppb	0.1370	239.8	9.6049
Ti 334.941	0.8165	ppb	0.0257	3.2	204.720
Tl 190.794	1.0544	ppb	1.4163	134.3	-8.6949
V 292.401	-0.1995	ppb	0.1711	85.7	-9.1452
Zn 206.200	1.6848	ppb	0.7631	45.3	8.9735

mb 680-286998/1-a (Samp) **8/1/2013, 3:55:20 AM** **Rack 3, Tube 47**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	-0.3150u	0.0630	0.2307
Al 308.215	63.9770	63.9030	64.5185
As 188.980	-2.3247u	1.2537	-1.8407u
B 249.678	1.5234	0.7841	0.9075
Ba 389.178	5.3678	5.0252	5.2815
Be 313.042	0.0260	0.0142	0.0219
Ca 370.602	4238	4243	4254
Cd 226.502	0.1802	0.2323	0.3628
Co 228.615	0.5838	0.1446	0.2968
Cr 267.716	0.8733	0.7809	0.8690
Cu 324.754	0.6811	1.0295	0.8809
Fe 271.441	21.4335	18.5080	22.3063
K 766.491	174.922	173.986	174.920
Mg 279.078	316.217	313.819	314.238
Mn 257.610	1.3732	1.3750	1.3108
Mo 202.032	0.1294	-0.0627u	-0.1532u
Na 330.237	1363.38	1221.06	1306.88
Ni 231.604	2.2373	4.0040	1.7198
Pb 220.353	0.6709	0.7286	0.7498
Sb 206.834	184.761	184.720	186.781
Se 196.026	6.4974	6.8808	8.9033
Sn 189.925	13.4644	13.7887	13.2825
Sr 216.596	10.8484	11.2987	10.7691
Ti 334.941	95.2544	89.3773	91.2480
Tl 190.794	-0.4446u	0.1786	-1.0234u
V 292.401	-0.1394u	-0.1741u	-0.3349u
Zn 206.200	137.912	138.437	138.660

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0071	ppb	0.2795	3927.5	-6.5039
Al 308.215	64.1328	ppb	0.3361	0.5	222.704
As 188.980	-0.9705	ppb	1.9414	200.0	-9.8632
B 249.678	1.0717	ppb	0.3960	37.0	129.653
Ba 389.178	5.2248	ppb	0.1782	3.4	118.832
Be 313.042	0.0207	ppb	0.0060	28.9	-240.113
Ca 370.602	4245	ppb	8.229	0.2	13517
Cd 226.502	0.2584	ppb	0.0941	36.4	21.0684
Co 228.615	0.3417	ppb	0.2230	65.3	-6.7531
Cr 267.716	0.8411	ppb	0.0521	6.2	77.5259
Cu 324.754	0.8639	ppb	0.1748	20.2	306.720
Fe 271.441	20.7493	ppb	1.9894	9.6	55.1955
K 766.491	174.609	ppb	0.5398	0.3	6056.87
Mg 279.078	314.758	ppb	1.2804	0.4	931.499
Mn 257.610	1.3530	ppb	0.0365	2.7	450.934
Mo 202.032	-0.0288	ppb	0.1443	500.8	5.6652
Na 330.237	1297.11	ppb	71.6574	5.5	107.970
Ni 231.604	2.6537	ppb	1.1977	45.1	5.2718
Pb 220.353	0.7165	ppb	0.0408	5.7	16.3563
Sb 206.834	185.420	ppb	1.1782	0.6	311.555
Se 196.026	7.4272	ppb	1.2927	17.4	4.7004
Sn 189.925	13.5118	ppb	0.2564	1.9	7.5445
Sr 216.596	10.9721	ppb	0.2856	2.6	192.483
Ti 334.941	91.9599	ppb	3.0025	3.3	29291.9
Tl 190.794	-0.4298	ppb	0.6011	139.9	-10.8642
V 292.401	-0.2161	ppb	0.1043	48.2	-8.0533
Zn 206.200	138.336	ppb	0.3839	650.3	247.118

lcs 680-286998/2-a (Samp) **8/1/2013, 3:59:57 AM** **Rack 3, Tube 48**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	38.5320	39.3405	37.7675
Al 308.215	3495.78	3509.52	3496.83
As 188.980	75.6591	81.2973	79.4110
B 249.678	143.044	142.366	142.771
Ba 389.178	80.3490	80.4446	79.8430
Be 313.042	38.9595	38.5081	38.4502
Ca 370.602	6666	6694	6649
Cd 226.502	38.0112	38.3478	37.9613
Co 228.615	38.9225	38.6867	38.5628
Cr 267.716	80.4365	80.3793	80.0510
Cu 324.754	79.0557	79.5581	78.2060
Fe 271.441	3711.80	3722.06	3715.89
K 766.491	3692.97	3690.90	3675.12
Mg 279.078	3825.67	3830.67	3819.10
Mn 257.610	395.248	395.382	394.425
Mo 202.032	74.7664	75.1523	75.6038
Na 330.237	4408.97	4523.15	4474.93
Ni 231.604	77.9386	77.3435	76.3871
Pb 220.353	39.7588	38.5637	38.3090
Sb 206.834	184.026	182.444	180.942
Se 196.026	80.7522	78.5314	73.4077
Sn 189.925	160.161	158.164	161.900
Sr 216.596	85.1418	85.0267	84.4806
Ti 334.941	155.257	151.296	151.275
Tl 190.794	28.4410	29.2914	29.6356
V 292.401	75.9323	75.7649	76.0032
Zn 206.200	180.776	178.663	176.391

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	38.5467	ppb	0.7866	2.0	3319.49
Al 308.215	3500.71	ppb	7.6455	0.2	10355.1
As 188.980	78.7891	ppb	2.8701	3.6	62.1191
B 249.678	142.727	ppb	0.3411	0.2	2556.01
Ba 389.178	80.2122	ppb	0.3233	0.4	2105.60
Be 313.042	38.6393	ppb	0.2788	0.7	77814.2
Ca 370.602	6670	ppb	22.33	0.3	20963
Cd 226.502	38.1068	ppb	0.2102	0.6	2074.98
Co 228.615	38.7240	ppb	0.1827	0.5	540.250
Cr 267.716	80.2890	ppb	0.2080	0.3	5096.58
Cu 324.754	78.9399	ppb	0.6834	0.9	5268.68
Fe 271.441	3716.58	ppb	5.1633	0.1	7140.69
K 766.491	3686.33	ppb	9.7631	0.3	124151
Mg 279.078	3825.15	ppb	5.8014	0.2	10946.4
Mn 257.610	395.018	ppb	0.5183	0.1	106835
Mo 202.032	75.1742	ppb	0.4191	0.6	648.497
Na 330.237	4469.02	ppb	57.3203	1.3	265.735
Ni 231.604	77.2231	ppb	0.7827	1.0	295.898
Pb 220.353	38.8772	ppb	0.7740	2.0	94.9971
Sb 206.834	182.470	ppb	1.5422	0.8	306.954
Se 196.026	77.5638	ppb	3.7666	4.9	46.1517
Sn 189.925	160.075	ppb	1.8693	1.2	171.151
Sr 216.596	84.8830	ppb	0.3532	0.4	1428.50
Ti 334.941	152.609	ppb	2.2928	1.5	48664.9
Tl 190.794	29.1226	ppb	0.6149	2.1	31.8644
V 292.401	75.9002	ppb	0.1224	0.2	2270.54
Zn 206.200	178.610	ppb	2.1929	1.2	317.007

lcsd 680-286998/3-a (Samp) **8/1/2013, 4:13:48 AM** **Rack 3, Tube 51**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	58.9278	59.7664	58.7600
Al 308.215	5432.20	5488.76	5474.55
As 188.980	123.141	121.194	124.861
B 249.678	219.266	221.681	221.471
Ba 389.178	123.844	124.325	125.410
Be 313.042	60.1367	60.6976	60.9252
Ca 370.602	10496	10596	10588
Cd 226.502	57.5964	58.2826	58.4732
Co 228.615	59.7998	60.1038	59.9200
Cr 267.716	123.363	124.348	124.239
Cu 324.754	123.000	123.914	123.919
Fe 271.441	5725.87	5785.15	5804.25
K 766.491	5434.97	5469.33	5473.59
Mg 279.078	5820.01	5881.19	5894.68
Mn 257.610	608.917	613.168	614.642
Mo 202.032	117.180	117.856	118.649
Na 330.237	6809.29	6755.85	6624.17
Ni 231.604	118.184	118.584	118.108
Pb 220.353	59.3370	59.3498	55.6761
Sb 206.834	262.587	273.476	268.036
Se 196.026	118.814	116.846	121.012
Sn 189.925	245.643	245.535	242.227
Sr 216.596	132.137	132.850	132.914
Ti 334.941	221.616	217.626	215.412
Tl 190.794	45.5723	46.8865	44.8522
V 292.401	119.017	119.235	119.794
Zn 206.200	266.909	271.368	268.382

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	59.1514	ppb	0.5391	0.9	5096.67
Al 308.215	5465.17	ppb	29.4227	0.5	16147.2
As 188.980	123.065	ppb	1.8348	1.5	102.077
B 249.678	220.806	ppb	1.3377	0.6	3893.34
Ba 389.178	124.526	ppb	0.8021	0.6	3279.37
Be 313.042	60.5865	ppb	0.4058	0.7	122174
Ca 370.602	10560	ppb	55.97	0.5	33184
Cd 226.502	58.1174	ppb	0.4611	0.8	3161.32
Co 228.615	59.9412	ppb	0.1531	0.3	843.472
Cr 267.716	123.983	ppb	0.5400	0.4	7857.01
Cu 324.754	123.611	ppb	0.5291	0.4	8107.61
Fe 271.441	5771.76	ppb	40.8687	0.7	11080.8
K 766.491	5459.30	ppb	21.1764	0.4	183773
Mg 279.078	5865.29	ppb	39.7926	0.7	16767.1
Mn 257.610	612.243	ppb	2.9728	0.5	165538
Mo 202.032	117.895	ppb	0.7351	0.6	1013.67
Na 330.237	6729.77	ppb	95.2789	1.4	377.393
Ni 231.604	118.292	ppb	0.2559	0.2	455.960
Pb 220.353	58.1210	ppb	2.1173	3.6	134.640
Sb 206.834	268.033	ppb	5.4445	2.0	448.308
Se 196.026	118.891	ppb	2.0839	1.8	70.5713
Sn 189.925	244.468	ppb	1.9415	0.8	265.360
Sr 216.596	132.634	ppb	0.4314	0.3	2227.25
Ti 334.941	218.218	ppb	3.1440	1.4	69612.8
Tl 190.794	45.7703	ppb	1.0315	2.3	55.9393
V 292.401	119.349	ppb	0.4008	0.3	3571.85
Zn 206.200	268.886	ppb	2.2722	0.8	474.168

680-92662-a-81-b (Samp) **8/1/2013, 4:18:25 AM** **Rack 3, Tube 52**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	0.3474	0.0773	-0.2957u
Al 308.215	1239.07	1255.72	1213.90
As 188.980	1.5589	4.0880	2.6416
B 249.678	189.660	191.596	185.204
Ba 389.178	30.9773	30.5787	29.4087
Be 313.042	0.1326	0.1385	0.1259
Ca 370.602	9407	9516	9189
Cd 226.502	6.1581	6.1426	5.9321
Co 228.615	1.6689	2.0010	1.6304
Cr 267.716	9.0035	9.0040	8.6940
Cu 324.754	14.4580	14.6509	13.9017
Fe 271.441	2890.28	2926.95	2821.75
K 766.491	893.731	901.276	866.503
Mg 279.078	1654.88	1671.47	1610.11
Mn 257.610	116.021	117.231	113.816
Mo 202.032	0.8286	1.1303	0.9377
Na 330.237	1248.56	1121.83	981.371
Ni 231.604	6.5980	6.4191	5.7367
Pb 220.353	14.1157	15.9890	14.0999
Sb 206.834	110.502	114.257	103.814
Se 196.026	2.3447	5.4290	4.5818
Sn 189.925	9.0574	9.4034	9.2589
Sr 216.596	17.7990	18.0348	17.5249
Ti 334.941	189.590	195.953	188.400
Tl 190.794	-1.2046u	1.8655	0.2525
V 292.401	3.1591	3.1427	3.4229
Zn 206.200	479.180	483.688	465.863

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0430	ppb	0.3229	750.8	-1.9373
Al 308.215	1236.23	ppb	21.0497	1.7	3679.96
As 188.980	2.7628	ppb	1.2689	45.9	-6.5163
B 249.678	188.820	ppb	3.2777	1.7	3350.37
Ba 389.178	30.3216	ppb	0.8153	2.7	786.617
Be 313.042	0.1324	ppb	0.0063	4.8	-12.8183
Ca 370.602	9370	ppb	166.7	1.8	29610
Cd 226.502	6.0776	ppb	0.1262	2.1	346.289
Co 228.615	1.7668	ppb	0.2038	11.5	16.4622
Cr 267.716	8.9005	ppb	0.1788	2.0	588.114
Cu 324.754	14.3369	ppb	0.3890	2.7	1163.50
Fe 271.441	2879.66	ppb	53.3963	1.9	5531.49
K 766.491	887.170	ppb	18.2916	2.1	30019.2
Mg 279.078	1645.49	ppb	31.7406	1.9	4729.18
Mn 257.610	115.689	ppb	1.7316	1.5	31357.7
Mo 202.032	0.9655	ppb	0.1527	15.8	13.9947
Na 330.237	1117.25	ppb	133.651	12.0	92.8432
Ni 231.604	6.2512	ppb	0.4545	7.3	19.3762
Pb 220.353	14.7349	ppb	1.0861	7.4	45.3669
Sb 206.834	109.524	ppb	5.2895	4.8	186.486
Se 196.026	4.1185	ppb	1.5935	38.7	2.7961
Sn 189.925	9.2399	ppb	0.1738	1.9	2.7786
Sr 216.596	17.7863	ppb	0.2552	1.4	310.857
Ti 334.941	191.314	ppb	4.0611	2.1	61005.2
Tl 190.794	0.3045	ppb	1.5357	504.4	-10.1257
V 292.401	3.2415	ppb	0.1572	4.9	97.3251
Zn 206.200	476.244	ppb	9.2682	1.9	835.984

680-92662-a-81-bSD^5 (Samp) **8/1/2013, 4:23:02 AM** **Rack 3, Tube 53**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.2760	0.0038	-0.1949u
Al 308.215	273.403	266.256	270.535
As 188.980	1.1385	-2.2468u	0.6452
B 249.678	41.6722	40.2952	39.8927
Ba 389.178	7.0865	5.7736	5.9754
Be 313.042	0.0339	0.0342	0.0405
Ca 370.602	2032	1974	1964
Cd 226.502	1.3872	1.3324	1.2860
Co 228.615	0.0445	1.1712	1.2378
Cr 267.716	1.9913	1.9219	1.8932
Cu 324.754	2.9452	3.1559	2.9862
Fe 271.441	628.109	616.144	602.787
K 766.491	191.156	186.968	185.262
Mg 279.078	361.350	353.108	351.169
Mn 257.610	25.5491	24.9026	24.7179
Mo 202.032	0.5113	0.9191	0.1754
Na 330.237	92.0018	-12.0174u	290.961
Ni 231.604	1.2319	1.2306	2.1699
Pb 220.353	2.8352	5.5325	6.1070
Sb 206.834	23.6602	25.3157	22.0294
Se 196.026	-1.9417u	6.4471	-4.9476u
Sn 189.925	2.7186	1.3760	3.7039
Sr 216.596	3.9542	4.0656	3.8117
Ti 334.941	41.6043	39.3635	38.6939
Tl 190.794	1.2683	1.4264	1.2322
V 292.401	0.8302	0.2034	0.3471
Zn 206.200	104.088	101.675	97.8715

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0283	ppb	0.2364	835.1	-2.9304
Al 308.215	270.065	ppb	3.5964	1.3	830.133
As 188.980	-0.1544	ppb	1.8288	1184.5	-9.1320
B 249.678	40.6200	ppb	0.9332	2.3	808.101
Ba 389.178	6.2785	ppb	0.7070	11.3	147.579
Be 313.042	0.0362	ppb	0.0038	10.4	-209.621
Ca 370.602	1990	ppb	36.56	1.8	6289
Cd 226.502	1.3352	ppb	0.0507	3.8	81.5223
Co 228.615	0.8178	ppb	0.6705	82.0	-1.3901
Cr 267.716	1.9355	ppb	0.0504	2.6	146.775
Cu 324.754	3.0291	ppb	0.1117	3.7	444.475
Fe 271.441	615.680	ppb	12.6672	2.1	1194.80
K 766.491	187.795	ppb	3.0325	1.6	6500.30
Mg 279.078	355.209	ppb	5.4059	1.5	1046.56
Mn 257.610	25.0566	ppb	0.4364	1.7	6856.04
Mo 202.032	0.5353	ppb	0.3724	69.6	10.4536
Na 330.237	123.648	ppb	153.948	124.5	49.4639
Ni 231.604	1.5441	ppb	0.5419	35.1	0.9642
Pb 220.353	4.8249	ppb	1.7469	36.2	24.8920
Sb 206.834	23.6685	ppb	1.6431	6.9	44.5953
Se 196.026	-0.1474	ppb	5.9054	4006.4	0.2472
Sn 189.925	2.5995	ppb	1.1685	44.9	-4.6385
Sr 216.596	3.9438	ppb	0.1273	3.2	75.6004
Ti 334.941	39.8872	ppb	1.5242	3.8	12674.8
Tl 190.794	1.3090	ppb	0.1033	7.9	-8.3938
V 292.401	0.4602	ppb	0.3284	71.4	11.2896
Zn 206.200	101.211	ppb	3.1241	3.1	182.423

680-92662-a-81-b PDS (Samp) **8/1/2013, 4:27:39 AM** **Rack 3, Tube 54**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	38.1508	37.5170	38.0800
Al 308.215	2964.25	2980.72	2931.96
As 188.980	190.355	191.358	189.172
B 249.678	619.378	618.132	619.653
Ba 389.178	223.161	222.744	222.587
Be 313.042	47.6401	47.5366	47.5900
Ca 370.602	10754	10782	10661
Cd 226.502	53.3045	52.9404	53.2133
Co 228.615	195.211	192.779	192.363
Cr 267.716	204.117	204.410	204.036
Cu 324.754	210.776	209.699	211.381
Fe 271.441	4585.74	4577.72	4574.19
K 766.491	2671.36	2671.64	2686.61
Mg 279.078	3414.74	3420.30	3412.03
Mn 257.610	306.438	306.057	304.757
Mo 202.032	196.112	196.710	194.118
Na 330.237	2980.82	2882.48	2765.43
Ni 231.604	193.003	192.699	190.905
Pb 220.353	204.741	203.242	201.892
Sb 206.834	287.162	282.850	284.146
Se 196.026	195.021	192.421	194.008
Sn 189.925	200.211	201.551	202.145
Sr 216.596	211.632	210.238	210.537
Ti 334.941	365.828	366.438	367.345
Tl 190.794	181.688	187.602	185.327
V 292.401	196.785	196.053	195.110
Zn 206.200	643.473	644.655	637.501

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	37.9159	ppb	0.3473	0.9	3259.00
Al 308.215	2958.98	ppb	24.8060	0.8	8747.20
As 188.980	190.295	ppb	1.0946	0.6	162.727
B 249.678	619.054	ppb	0.8108	0.1	10742.2
Ba 389.178	222.831	ppb	0.2966	0.1	5853.07
Be 313.042	47.5889	ppb	0.0517	0.1	95883.2
Ca 370.602	10732	ppb	63.16	0.6	33897
Cd 226.502	53.1527	ppb	0.1894	0.4	2889.04
Co 228.615	193.451	ppb	1.5386	0.8	2749.85
Cr 267.716	204.188	ppb	0.1969	0.1	12918.9
Cu 324.754	210.619	ppb	0.8516	0.4	13635.1
Fe 271.441	4579.22	ppb	5.9183	0.1	8816.78
K 766.491	2676.54	ppb	8.7228	0.3	90192.8
Mg 279.078	3415.69	ppb	4.2142	0.1	9779.64
Mn 257.610	305.751	ppb	0.8817	0.3	82720.3
Mo 202.032	195.647	ppb	1.3577	0.7	1678.59
Na 330.237	2876.25	ppb	107.830	3.7	177.871
Ni 231.604	192.202	ppb	1.1339	0.6	743.570
Pb 220.353	203.292	ppb	1.4250	0.7	432.767
Sb 206.834	284.719	ppb	2.2124	0.8	475.151
Se 196.026	193.816	ppb	1.3107	0.7	114.618
Sn 189.925	201.302	ppb	0.9907	0.5	217.173
Sr 216.596	210.803	ppb	0.7340	0.3	3527.32
Ti 334.941	366.537	ppb	0.7632	0.2	116932
Tl 190.794	184.872	ppb	2.9833	1.6	260.029
V 292.401	195.983	ppb	0.8396	0.4	5867.14
Zn 206.200	641.876	ppb	3.8349	0.6	1123.82

680-92662-a-83-b (Samp) **8/1/2013, 4:32:16 AM** **Rack 3, Tube 55**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.1569	0.0438	-0.0752u
Al 308.215	2094.70	2095.92	2101.38
As 188.980	10.9782	8.4936	12.4240
B 249.678	220.736	221.099	220.804
Ba 389.178	40.2517	40.1828	41.1697
Be 313.042	0.1763	0.1739	0.1710
Ca 370.602	6991	6978	6984
Cd 226.502	3.3973	3.4826	3.3608
Co 228.615	1.0570	1.6080	1.5989
Cr 267.716	7.6062	7.6388	7.6600
Cu 324.754	10.9454	10.9440	10.7874
Fe 271.441	5025.03	5052.35	5043.47
K 766.491	790.836	787.570	785.275
Mg 279.078	1091.73	1097.80	1094.51
Mn 257.610	93.7038	93.8140	93.8060
Mo 202.032	1.3118	0.3857	0.9330
Na 330.237	1337.23	1391.39	1330.07
Ni 231.604	7.3282	7.3928	7.4647
Pb 220.353	33.6160	33.4184	36.7675
Sb 206.834	112.779	115.806	116.130
Se 196.026	5.4179	7.1901	5.8889
Sn 189.925	9.6657	12.1375	11.6369
Sr 216.596	18.7184	18.3953	18.2491
Ti 334.941	902.791	912.108	886.174
Tl 190.794	-1.3516u	0.4360	-0.8351u
V 292.401	2.3385	2.4024	2.3228
Zn 206.200	303.928	303.237	300.677

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0418	ppb	0.1161	277.4	-2.1926
Al 308.215	2097.33	ppb	3.5542	0.2	6220.13
As 188.980	10.6319	ppb	1.9880	18.7	0.5706
B 249.678	220.879	ppb	0.1929	0.1	3896.34
Ba 389.178	40.5347	ppb	0.5510	1.4	1056.70
Be 313.042	0.1737	ppb	0.0026	1.5	69.9130
Ca 370.602	6984	ppb	6.190	0.1	22250
Cd 226.502	3.4136	ppb	0.0625	1.8	211.691
Co 228.615	1.4213	ppb	0.3156	22.2	31.3501
Cr 267.716	7.6350	ppb	0.0271	0.4	510.596
Cu 324.754	10.8923	ppb	0.0908	0.8	945.523
Fe 271.441	5040.28	ppb	13.9331	0.3	9670.12
K 766.491	787.894	ppb	2.7946	0.4	26680.7
Mg 279.078	1094.68	ppb	3.0386	0.3	3156.98
Mn 257.610	93.7746	ppb	0.0614	0.1	25439.6
Mo 202.032	0.8768	ppb	0.4656	53.1	13.1098
Na 330.237	1352.90	ppb	33.5312	2.5	104.052
Ni 231.604	7.3952	ppb	0.0683	0.9	23.8980
Pb 220.353	34.6006	ppb	1.8791	5.4	85.9077
Sb 206.834	114.905	ppb	1.8483	1.6	195.435
Se 196.026	6.1656	ppb	0.9179	14.9	4.0046
Sn 189.925	11.1467	ppb	1.3068	11.7	4.9057
Sr 216.596	18.4543	ppb	0.2401	1.3	324.542
Ti 334.941	900.358	ppb	13.1370	1.5	287273
Tl 190.794	-0.5836	ppb	0.9199	157.6	-11.6053
V 292.401	2.3546	ppb	0.0422	1.8	82.9624
Zn 206.200	302.614	ppb	1.7127	0.6	533.434

680-92662-a-85-b (Samp) **8/1/2013, 4:36:53 AM** **Rack 3, Tube 56**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.1376	-0.0956u	0.0623
Al 308.215	1215.62	1207.74	1216.32
As 188.980	4.5337	0.5304	0.4502
B 249.678	102.428	103.221	101.849
Ba 389.178	34.9922	34.0884	33.6683
Be 313.042	0.1046	0.1045	0.1076
Ca 370.602	11177	11136	11138
Cd 226.502	0.4380	0.4864	0.4655
Co 228.615	1.6990	2.5367	1.4449
Cr 267.716	11.7160	11.7122	11.5411
Cu 324.754	26.0604	26.6396	26.7221
Fe 271.441	4090.03	4073.93	4064.09
K 766.491	818.485	817.599	810.885
Mg 279.078	2158.34	2152.99	2135.55
Mn 257.610	173.098	172.733	171.820
Mo 202.032	1.4771	1.2833	1.1121
Na 330.237	466.777	517.925	485.660
Ni 231.604	5.3351	6.4881	5.5192
Pb 220.353	15.3316	18.1529	16.1645
Sb 206.834	51.2753	43.4966	45.8579
Se 196.026	-1.7981u	8.6540	3.1303
Sn 189.925	6.0360	6.9437	6.2262
Sr 216.596	22.0299	21.6308	21.7763
Ti 334.941	49.0666	48.9769	48.3154
Tl 190.794	2.1594	-0.3940u	1.9589
V 292.401	4.1933	4.5205	4.5246
Zn 206.200	244.828	242.347	243.537

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0348	ppb	0.1190	342.2	-2.5814
Al 308.215	1213.23	ppb	4.7655	0.4	3612.03
As 188.980	1.8381	ppb	2.3348	127.0	-7.3685
B 249.678	102.499	ppb	0.6885	0.7	1863.62
Ba 389.178	34.2496	ppb	0.6765	2.0	893.221
Be 313.042	0.1056	ppb	0.0018	1.7	-66.3219
Ca 370.602	11150	ppb	22.83	0.2	35087
Cd 226.502	0.4633	ppb	0.0243	5.2	48.8342
Co 228.615	1.8935	ppb	0.5713	30.2	14.3579
Cr 267.716	11.6565	ppb	0.0999	0.9	762.523
Cu 324.754	26.4740	ppb	0.3606	1.4	1934.82
Fe 271.441	4076.02	ppb	13.0953	0.3	7823.00
K 766.491	815.656	ppb	4.1554	0.5	27614.3
Mg 279.078	2148.96	ppb	11.9194	0.6	6165.91
Mn 257.610	172.550	ppb	0.6582	0.4	46725.9
Mo 202.032	1.2908	ppb	0.1827	14.2	16.7041
Na 330.237	490.121	ppb	25.8640	5.3	64.8125
Ni 231.604	5.7808	ppb	0.6195	10.7	17.5795
Pb 220.353	16.5497	ppb	1.4495	8.8	49.3132
Sb 206.834	46.8766	ppb	3.9882	8.5	83.1580
Se 196.026	3.3287	ppb	5.2288	157.1	2.3525
Sn 189.925	6.4020	ppb	0.4787	7.5	-0.3886
Sr 216.596	21.8123	ppb	0.2020	0.9	380.015
Ti 334.941	48.7863	ppb	0.4102	0.8	15524.5
Tl 190.794	1.2415	ppb	1.4199	114.4	-8.9076
V 292.401	4.4128	ppb	0.1901	4.3	129.975
Zn 206.200	243.571	ppb	1.2411	657.5	430.511

680-92662-a-87-b (Samp) **8/1/2013, 4:41:30 AM** **Rack 3, Tube 57**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.4692u	-0.0964u	0.0459
Al 308.215	1234.71	1237.41	1235.09
As 188.980	4.8453	6.6373	2.5938
B 249.678	201.419	200.281	202.274
Ba 389.178	36.8831	37.9981	38.9341
Be 313.042	0.1237	0.1210	0.1150
Ca 370.602	16817	16764	16802
Cd 226.502	0.5345	0.5327	0.4135
Co 228.615	1.1292	1.5593	1.3572
Cr 267.716	8.8791	8.9473	9.0259
Cu 324.754	21.5442	21.2003	21.6020
Fe 271.441	3236.09	3231.70	3244.17
K 766.491	1142.46	1150.36	1162.00
Mg 279.078	1873.83	1872.77	1882.96
Mn 257.610	135.642	135.264	136.076
Mo 202.032	1.3208	0.9734	1.6465
Na 330.237	1387.38	1340.41	1362.08
Ni 231.604	11.1910	10.9332	11.8614
Pb 220.353	20.5708	20.3773	17.6168
Sb 206.834	100.098	96.9159	96.6293
Se 196.026	7.6868	4.0183	-4.0338u
Sn 189.925	11.9989	8.8828	9.7120
Sr 216.596	31.6841	31.9643	31.8884
Ti 334.941	78.6122	78.9113	79.5426
Tl 190.794	2.5573	-1.5109u	0.1945u
V 292.401	3.8753	3.6860	3.6164
Zn 206.200	256.797	256.625	261.491

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1732	ppb	0.2660	153.6	-21.2406
Al 308.215	1235.74	ppb	1.4621	0.1	3678.49
As 188.980	4.6921	ppb	2.0261	43.2	-4.7796
B 249.678	201.325	ppb	1.0000	0.5	3564.47
Ba 389.178	37.9384	ppb	1.0268	2.7	987.966
Be 313.042	0.1199	ppb	0.0044	3.7	-35.3322
Ca 370.602	16794	ppb	27.28	0.2	53075
Cd 226.502	0.4936	ppb	0.0694	14.1	46.9915
Co 228.615	1.3486	ppb	0.2152	16.0	7.3786
Cr 267.716	8.9508	ppb	0.0735	0.8	591.306
Cu 324.754	21.4488	ppb	0.2172	1.0	1615.34
Fe 271.441	3237.32	ppb	6.3267	0.2	6216.45
K 766.491	1151.61	ppb	9.8297	0.9	38911.7
Mg 279.078	1876.52	ppb	5.6028	0.3	5388.54
Mn 257.610	135.661	ppb	0.4063	0.3	36755.9
Mo 202.032	1.3136	ppb	0.3366	25.6	16.9494
Na 330.237	1363.29	ppb	23.5093	1.7	108.682
Ni 231.604	11.3285	ppb	0.4791	4.2	39.1774
Pb 220.353	19.5216	ppb	1.6525	8.5	55.3220
Sb 206.834	97.8813	ppb	1.9255	2.0	167.277
Se 196.026	2.5571	ppb	5.9953	234.5	1.8836
Sn 189.925	10.1979	ppb	1.6139	15.8	3.8524
Sr 216.596	31.8456	ppb	0.1449	0.5	547.151
Ti 334.941	79.0220	ppb	0.4750	0.6	25171.7
Tl 190.794	0.4137	ppb	2.0429	493.9	-10.0159
V 292.401	3.7259	ppb	0.1340	3.6	109.944
Zn 206.200	258.304	ppb	2.7613	1.1	456.188

X (Samp) **8/1/2013, 4:46:07 AM** **Rack 3, Tube 58**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	-0.0581u	-0.1067u	0.0806
Al 308.215	-4.8633u	-2.9857u	-0.9105u
As 188.980	-4.3488u	-0.2182u	-0.2389u
B 249.678	1.2703	0.4940	0.5727
Ba 389.178	0.0287	0.2419	0.1566
Be 313.042	0.0049	0.0156	0.0063
Ca 370.602	7.566	2.356	0.2030
Cd 226.502	0.0149	0.0569	0.1032
Co 228.615	0.3408	0.8736	0.4519
Cr 267.716	0.1107	0.1031	0.1543
Cu 324.754	-0.4280u	0.0979	0.1918
Fe 271.441	-3.3079u	-4.2425u	-3.0735u
K 766.491	-0.5597u	-0.6274u	-0.9279u
Mg 279.078	-4.5603u	-3.2380u	-1.7018u
Mn 257.610	-0.0900u	-0.1297u	-0.1129u
Mo 202.032	0.1968	0.1366	0.3046
Na 330.237	-87.0132u	-20.4343u	-131.741u
Ni 231.604	0.5826	-0.4571u	0.1255
Pb 220.353	-1.7497u	2.0656	-2.3756u
Sb 206.834	0.1186	-3.7353u	0.4470
Se 196.026	-0.7216u	-5.7377u	3.8852
Sn 189.925	0.5398	-1.1127u	0.4093
Sr 216.596	-0.0181u	-0.2980u	0.2681
Ti 334.941	-0.0385u	-0.0336u	-0.0585u
Tl 190.794	0.4050	1.4873	-1.1335u
V 292.401	-0.1102u	-0.4161u	-0.1078u
Zn 206.200	-0.6779u	-0.6762u	-1.8646u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0280	ppb	0.0972	346.6	-7.7247
Al 308.215	-2.9199	ppb	1.9772	67.7	24.9155
As 188.980	-1.6020	ppb	2.3789	148.5	-10.4341
B 249.678	0.7790	ppb	0.4273	54.8	124.681
Ba 389.178	0.1424	ppb	0.1073	75.3	-15.6628
Be 313.042	0.0090	ppb	0.0058	65.0	-265.316
Ca 370.602	3.375	ppb	3.785	112.2	13.08
Cd 226.502	0.0583	ppb	0.0442	75.8	10.1943
Co 228.615	0.5555	ppb	0.2811	50.6	-6.2639
Cr 267.716	0.1227	ppb	0.0276	22.5	31.8916
Cu 324.754	-0.0461	ppb	0.3341	724.2	248.923
Fe 271.441	-3.5413	ppb	0.6184	17.5	8.6729
K 766.491	-0.7050	ppb	0.1960	27.8	161.322
Mg 279.078	-3.1667	ppb	1.4306	45.2	23.7107
Mn 257.610	-0.1109	ppb	0.0199	17.9	52.3075
Mo 202.032	0.2127	ppb	0.0851	40.0	7.7325
Na 330.237	-79.7295	ppb	56.0097	70.2	41.0262
Ni 231.604	0.0836	ppb	0.5211	623.0	-4.7461
Pb 220.353	-0.6865	ppb	2.4039	350.1	13.5312
Sb 206.834	-1.0565	ppb	2.3257	220.1	3.7424
Se 196.026	-0.8580	ppb	4.8129	560.9	-0.1813
Sn 189.925	-0.0546	ppb	0.9187	1684.1	-7.6023
Sr 216.596	-0.0160	ppb	0.2831	1770.3	8.3567
Ti 334.941	-0.0435	ppb	0.0132	30.4	-69.8267
Tl 190.794	0.2529	ppb	1.3170	520.7	-9.8636
V 292.401	-0.2114	ppb	0.1773	83.9	-9.4992
Zn 206.200	-1.0729	ppb	0.6856	659.9	-4.1738

mb 680-286991/1-a (Samp) **8/1/2013, 5:00:00 AM** **Rack 4, Tube 3**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.1135u	-0.2510u	-0.1945u
Al 308.215	47.9739	51.2506	51.1730
As 188.980	-6.4103u	0.8009	1.8283
B 249.678	1.7656	1.3895	1.4029
Ba 389.178	3.6041	4.0287	3.2941
Be 313.042	0.0239	0.0252	0.0191
Ca 370.602	3436	3458	3424
Cd 226.502	0.2911	0.2216	0.2324
Co 228.615	0.4601	0.5512	0.4354
Cr 267.716	0.6564	0.5663	0.6389
Cu 324.754	0.4266	0.3860	0.4169
Fe 271.441	15.5682	15.5627	16.3154
K 766.491	142.251	142.504	142.260
Mg 279.078	227.284	231.191	232.085
Mn 257.610	1.1513	1.1330	1.0915
Mo 202.032	0.3645	0.4170	0.5380
Na 330.237	920.085	1003.59	1038.43
Ni 231.604	2.5858	3.4735	2.1922
Pb 220.353	-0.2104u	0.8844	1.1189
Sb 206.834	48.7377	48.6370	45.8582
Se 196.026	5.2018	-0.1569u	5.8795
Sn 189.925	10.7962	11.5300	10.3365
Sr 216.596	8.6510	8.9667	9.1143
Ti 334.941	64.6115	64.3650	66.2418
Tl 190.794	-0.2047u	3.0165	-1.0990u
V 292.401	0.0518	0.2554	-0.2726u
Zn 206.200	119.165	121.461	119.199

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1863	ppb	0.0691	37.1	-21.8497
Al 308.215	50.1325	ppb	1.8698	3.7	181.395
As 188.980	-1.2603	ppb	4.4895	356.2	-10.1252
B 249.678	1.5194	ppb	0.2133	14.0	137.369
Ba 389.178	3.6423	ppb	0.3688	10.1	76.9960
Be 313.042	0.0227	ppb	0.0033	14.3	-236.367
Ca 370.602	3439	ppb	17.20	0.5	10947
Cd 226.502	0.2484	ppb	0.0374	15.1	20.4955
Co 228.615	0.4822	ppb	0.0610	12.7	-5.5102
Cr 267.716	0.6205	ppb	0.0478	7.7	63.5181
Cu 324.754	0.4098	ppb	0.0212	5.2	277.892
Fe 271.441	15.8155	ppb	0.4330	2.7	45.7615
K 766.491	142.338	ppb	0.1437	0.1	4971.65
Mg 279.078	230.186	ppb	2.5531	1.1	690.012
Mn 257.610	1.1253	ppb	0.0306	2.7	388.560
Mo 202.032	0.4398	ppb	0.0890	20.2	9.6737
Na 330.237	987.368	ppb	60.8160	6.2	92.7546
Ni 231.604	2.7505	ppb	0.6563	23.9	5.6484
Pb 220.353	0.5976	ppb	0.7096	118.7	16.1288
Sb 206.834	47.7443	ppb	1.6342	3.4	84.2993
Se 196.026	3.6415	ppb	3.3069	90.8	2.4700
Sn 189.925	10.8876	ppb	0.6020	5.5	4.6145
Sr 216.596	8.9107	ppb	0.2367	2.7	157.920
Ti 334.941	65.0728	ppb	1.0199	1.6	20711.2
Tl 190.794	0.5709	ppb	2.1646	379.1	-9.4011
V 292.401	0.0115	ppb	0.2663	2310.5	-1.7111
Zn 206.200	119.942	ppb	1.3157	1.1	215.063

lcs 680-286991/2-a (Samp) **8/1/2013, 5:04:38 AM** **Rack 4, Tube 4**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	50.5909	50.4892	50.0138
Al 308.215	4196.40	4219.34	4265.62
As 188.980	92.4914	94.8043	96.2122
B 249.678	172.432	171.498	172.680
Ba 389.178	96.8688	96.9792	97.1911
Be 313.042	46.4560	46.3184	46.3221
Ca 370.602	7703	7721	7810
Cd 226.502	46.5492	46.2467	46.5216
Co 228.615	46.1824	46.2771	47.0141
Cr 267.716	95.6863	95.5796	95.8521
Cu 324.754	95.2483	96.4671	94.9230
Fe 271.441	4495.76	4475.05	4498.66
K 766.491	4285.92	4237.95	4243.33
Mg 279.078	4542.90	4535.98	4530.52
Mn 257.610	474.395	474.040	476.568
Mo 202.032	90.5328	90.4523	91.0665
Na 330.237	4762.39	5129.74	5179.86
Ni 231.604	91.7529	92.3467	93.1011
Pb 220.353	44.6647	48.3773	46.1269
Sb 206.834	117.583	116.577	120.439
Se 196.026	95.6737	90.3735	91.2995
Sn 189.925	192.655	192.110	195.074
Sr 216.596	102.161	102.705	102.633
Ti 334.941	144.701	143.368	143.507
Tl 190.794	38.9488	38.1157	33.7955
V 292.401	91.9465	92.2954	91.9378
Zn 206.200	245.071	249.201	247.615

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	50.3646	ppb	0.3081	0.6	4339.03
Al 308.215	4227.12	ppb	35.2571	0.8	12496.9
As 188.980	94.5026	ppb	1.8787	2.0	76.2998
B 249.678	172.203	ppb	0.6232	0.4	3060.89
Ba 389.178	97.0130	ppb	0.1638	0.2	2550.42
Be 313.042	46.3655	ppb	0.0784	0.2	93430.2
Ca 370.602	7745	ppb	57.40	0.7	24310
Cd 226.502	46.4391	ppb	0.1672	0.4	2526.99
Co 228.615	46.4912	ppb	0.4553	1.0	650.337
Cr 267.716	95.7060	ppb	0.1374	0.1	6070.49
Cu 324.754	95.5461	ppb	0.8140	0.9	6324.03
Fe 271.441	4489.82	ppb	12.8761	0.3	8623.07
K 766.491	4255.73	ppb	26.2806	0.6	143299
Mg 279.078	4536.47	ppb	6.2068	0.1	12975.8
Mn 257.610	475.001	ppb	1.3689	0.3	128449
Mo 202.032	90.6839	ppb	0.3338	0.4	781.072
Na 330.237	5024.00	ppb	227.941	4.5	292.473
Ni 231.604	92.4002	ppb	0.6757	0.7	355.050
Pb 220.353	46.3896	ppb	1.8702	4.0	110.495
Sb 206.834	118.200	ppb	2.0037	1.7	200.908
Se 196.026	92.4489	ppb	2.8309	3.1	54.9478
Sn 189.925	193.280	ppb	1.5775	0.8	208.217
Sr 216.596	102.500	ppb	0.2958	0.3	1723.15
Ti 334.941	143.859	ppb	0.7325	0.5	45876.2
Tl 190.794	36.9533	ppb	2.7663	7.5	43.2116
V 292.401	92.0599	ppb	0.2040	0.2	2754.05
Zn 206.200	247.296	ppb	2.0835	0.8	436.648

lcsd 680-286991/3-a (Samp) **8/1/2013, 5:09:16 AM** **Rack 4, Tube 5**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	46.5039	46.8736	47.1820
Al 308.215	4053.20	4036.43	4013.74
As 188.980	87.8704	88.7972	90.5333
B 249.678	162.527	161.857	161.995
Ba 389.178	91.9996	91.8486	91.3162
Be 313.042	43.9735	43.7574	43.9277
Ca 370.602	7594	7560	7551
Cd 226.502	43.1786	43.0005	43.1390
Co 228.615	44.2992	44.2039	44.2609
Cr 267.716	92.1022	91.5097	91.7319
Cu 324.754	91.2432	91.1171	90.5752
Fe 271.441	4249.96	4241.97	4251.27
K 766.491	4185.63	4183.03	4169.36
Mg 279.078	4318.21	4306.98	4323.26
Mn 257.610	456.103	453.927	454.495
Mo 202.032	85.0539	84.6496	85.8835
Na 330.237	4827.59	4507.32	5077.86
Ni 231.604	87.3918	87.8279	87.3867
Pb 220.353	44.1993	44.1104	44.5091
Sb 206.834	136.481	135.847	131.603
Se 196.026	89.2393	81.8920	84.8046
Sn 189.925	181.717	180.944	179.631
Sr 216.596	98.2913	97.5395	97.5695
Ti 334.941	146.638	146.774	146.736
Tl 190.794	34.9135	35.0466	32.2322
V 292.401	87.0340	86.8500	87.1477
Zn 206.200	240.403	239.685	240.762

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	46.8532	ppb	0.3395	0.7	4036.09
Al 308.215	4034.46	ppb	19.8053	0.5	11928.9
As 188.980	89.0670	ppb	1.3518	1.5	71.3945
B 249.678	162.127	ppb	0.3537	0.2	2888.24
Ba 389.178	91.7215	ppb	0.3590	0.4	2410.34
Be 313.042	43.8862	ppb	0.1139	0.3	88419.2
Ca 370.602	7569	ppb	22.41	0.3	23771
Cd 226.502	43.1060	ppb	0.0935	0.2	2346.45
Co 228.615	44.2547	ppb	0.0479	0.1	618.687
Cr 267.716	91.7813	ppb	0.2993	0.3	5822.58
Cu 324.754	90.9785	ppb	0.3549	0.4	6033.70
Fe 271.441	4247.73	ppb	5.0360	0.1	8158.98
K 766.491	4179.34	ppb	8.7376	0.2	140730
Mg 279.078	4316.15	ppb	8.3341	0.2	12347.1
Mn 257.610	454.841	ppb	1.1289	0.2	123001
Mo 202.032	85.1957	ppb	0.6291	0.7	734.156
Na 330.237	4804.25	ppb	285.985	6.0	281.593
Ni 231.604	87.5355	ppb	0.2533	0.3	336.090
Pb 220.353	44.2730	ppb	0.2093	0.5	106.129
Sb 206.834	134.644	ppb	2.6523	2.0	228.063
Se 196.026	85.3120	ppb	3.6999	4.3	50.7361
Sn 189.925	180.764	ppb	1.0544	0.6	194.246
Sr 216.596	97.8001	ppb	0.4257	0.4	1644.55
Ti 334.941	146.716	ppb	0.0700	0.0	46786.9
Tl 190.794	34.0641	ppb	1.5879	4.7	39.0183
V 292.401	87.0106	ppb	0.1502	0.2	2603.05
Zn 206.200	240.283	ppb	0.5483	0.2	424.442

680-92626-a-9-b (Samp) **8/1/2013, 5:13:54 AM** **Rack 4, Tube 6**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.2529	0.3419	0.3876
Al 308.215	1961.40	1985.13	2021.32
As 188.980	20.3575	15.7354	19.3644
B 249.678	417.048	419.027	417.990
Ba 389.178	207.253	207.458	207.246
Be 313.042	0.1456	0.1468	0.1500
Ca 370.602	18834	18927	19095
Cd 226.502	137.637	138.387	137.787
Co 228.615	0.2088	0.8128	3.4611
Cr 267.716	17.0672	16.9301	17.3986
Cu 324.754	98.2822	98.5808	99.5166
Fe 271.441	6225.64	6226.52	6239.41
K 766.491	1020.09	1031.58	1033.30
Mg 279.078	1017.32	1028.77	1026.08
Mn 257.610	114.014	113.596	114.316
Mo 202.032	2.0907	2.0301	2.3277
Na 330.237	3637.47	3411.44	3310.58
Ni 231.604	259.872	259.936	259.678
Pb 220.353	123.274	122.742	123.576
Sb 206.834	2123.41	2127.63	2132.47
Se 196.026	7.6848	6.1368	3.2983
Sn 189.925	20.2315	18.6216	20.6380
Sr 216.596	40.0883	40.9300	40.1042
Ti 334.941	674.604	1144.64	2110.23
Tl 190.794	2.0850	-0.4497u	3.0507
V 292.401	5.3600	5.3658	6.0408
Zn 206.200	601.470	600.223	603.166

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.3275	ppb	0.0685	20.9	21.4643
Al 308.215	1989.29	ppb	30.1735	1.5	5901.14
As 188.980	18.4858	ppb	2.4331	13.2	7.6428
B 249.678	418.021	ppb	0.9900	0.2	7282.51
Ba 389.178	207.319	ppb	0.1205	0.1	5439.47
Be 313.042	0.1475	ppb	0.0022	1.5	20.4611
Ca 370.602	18952	ppb	132.1	0.7	60346
Cd 226.502	137.937	ppb	0.3968	0.3	7462.43
Co 228.615	1.4942	ppb	1.7299	115.8	43.8012
Cr 267.716	17.1320	ppb	0.2409	1.4	1110.10
Cu 324.754	98.7932	ppb	0.6440	0.7	6528.87
Fe 271.441	6230.52	ppb	7.7057	0.1	11950.1
K 766.491	1028.32	ppb	7.1791	0.7	34765.9
Mg 279.078	1024.06	ppb	5.9865	0.6	2955.21
Mn 257.610	113.975	ppb	0.3619	0.3	30899.6
Mo 202.032	2.1495	ppb	0.1573	7.3	23.9178
Na 330.237	3453.16	ppb	167.390	4.8	203.637
Ni 231.604	259.829	ppb	0.1346	0.1	1007.78
Pb 220.353	123.197	ppb	0.4224	0.3	267.937
Sb 206.834	2127.84	ppb	4.5310	0.2	3518.06
Se 196.026	5.7066	ppb	2.2247	39.0	3.7449
Sn 189.925	19.8304	ppb	1.0664	5.4	14.6068
Sr 216.596	40.3742	ppb	0.4814	1.2	687.396
Ti 334.941	1309.83	ppb	731.929	55.9	417942
Tl 190.794	1.5620	ppb	1.8079	115.7	-8.5895
V 292.401	5.5889	ppb	0.3914	7.0	186.837
Zn 206.200	601.620	ppb	1.4768	0.2	1054.48

680-92626-a-9-b SD^5 (Samp) **8/1/2013, 5:18:32 AM** **Rack 4, Tube 7**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	-0.2455u	-0.3102u	-0.2144u
Al 308.215	422.411	420.680	415.631
As 188.980	4.0598	5.8263	4.6117
B 249.678	89.2742	87.9044	87.9658
Ba 389.178	43.2966	42.6055	42.5251
Be 313.042	0.0481	0.0434	0.0426
Ca 370.602	3915	3891	3887
Cd 226.502	28.8275	28.8378	28.7320
Co 228.615	0.3462	0.7167	0.5898
Cr 267.716	3.6720	3.4802	3.3808
Cu 324.754	23.1349	22.2401	22.2140
Fe 271.441	1298.24	1281.21	1277.76
K 766.491	212.722	211.655	210.858
Mg 279.078	214.537	215.069	215.997
Mn 257.610	23.9570	23.8482	23.7544
Mo 202.032	0.2438	0.5682	0.4305
Na 330.237	677.115	702.576	616.428
Ni 231.604	54.2606	53.5958	54.1614
Pb 220.353	22.5032	23.5160	24.7315
Sb 206.834	443.937	439.113	439.495
Se 196.026	4.1764	4.2877	3.5554
Sn 189.925	6.6133	4.4096	5.5056
Sr 216.596	7.9924	8.0695	8.3222
Ti 334.941	385.420	355.488	342.674
Tl 190.794	-1.3484u	0.8411	3.2655
V 292.401	1.0733	0.8861	0.8888
Zn 206.200	124.800	123.444	123.668

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.2567	ppb	0.0489	19.0	-27.7578
Al 308.215	419.574	ppb	3.5227	0.8	1271.10
As 188.980	4.8326	ppb	0.9037	18.7	-4.6366
B 249.678	88.3815	ppb	0.7738	0.9	1627.55
Ba 389.178	42.8091	ppb	0.4241	1.0	1107.82
Be 313.042	0.0447	ppb	0.0030	6.7	-191.919
Ca 370.602	3898	ppb	15.17	0.4	12462
Cd 226.502	28.7991	ppb	0.0583	0.2	1563.58
Co 228.615	0.5509	ppb	0.1883	34.2	3.7768
Cr 267.716	3.5110	ppb	0.1480	4.2	246.935
Cu 324.754	22.5297	ppb	0.5243	2.3	1683.27
Fe 271.441	1285.74	ppb	10.9671	0.9	2478.30
K 766.491	211.745	ppb	0.9356	0.4	7305.69
Mg 279.078	215.201	ppb	0.7387	0.3	646.886
Mn 257.610	23.8532	ppb	0.1014	0.4	6531.81
Mo 202.032	0.4142	ppb	0.1628	39.3	9.3768
Na 330.237	665.373	ppb	44.2578	6.7	75.0626
Ni 231.604	54.0059	ppb	0.3586	0.7	205.451
Pb 220.353	23.5836	ppb	1.1157	4.7	63.3078
Sb 206.834	440.849	ppb	2.6816	0.6	733.230
Se 196.026	4.0065	ppb	0.3946	9.8	2.6968
Sn 189.925	5.5095	ppb	1.1019	20.0	-1.3888
Sr 216.596	8.1280	ppb	0.1725	2.1	145.300
Ti 334.941	361.194	ppb	21.9369	6.1	115210
Tl 190.794	0.9194	ppb	2.3079	251.0	-9.0225
V 292.401	0.9494	ppb	0.1073	11.3	31.5415
Zn 206.200	123.971	ppb	0.7272	0.6	222.087

680-92626-a-9-b PDS (Samp) **8/1/2013, 5:23:10 AM** **Rack 4, Tube 8**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	16.9494	17.2998	17.2370
Al 308.215	3639.16	3677.78	3655.43
As 188.980	211.467	209.491	206.426
B 249.678	850.168	852.537	856.150
Ba 389.178	396.482	398.124	398.423
Be 313.042	47.2017	47.3356	47.4666
Ca 370.602	20410	20545	20506
Cd 226.502	182.530	183.047	183.610
Co 228.615	189.607	190.251	189.187
Cr 267.716	209.002	209.837	210.734
Cu 324.754	290.200	291.425	295.039
Fe 271.441	7988.44	8019.91	8039.31
K 766.491	2796.39	2800.27	2783.67
Mg 279.078	2794.04	2806.11	2806.00
Mn 257.610	303.610	304.948	305.130
Mo 202.032	194.320	194.633	194.566
Na 330.237	5102.01	5113.32	5245.70
Ni 231.604	444.192	443.510	445.333
Pb 220.353	306.481	307.482	310.805
Sb 206.834	2288.05	2289.91	2291.31
Se 196.026	208.313	203.807	200.193
Sn 189.925	205.517	209.935	206.545
Sr 216.596	229.851	230.467	230.948
Ti 334.941	706.610	781.008	807.953
Tl 190.794	180.973	182.396	181.738
V 292.401	195.076	195.956	195.908
Zn 206.200	785.288	787.890	784.534

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	17.1621	ppb	0.1868	1.1	1466.83
Al 308.215	3657.46	ppb	19.3926	0.5	10807.7
As 188.980	209.128	ppb	2.5403	1.2	179.694
B 249.678	852.952	ppb	3.0125	0.4	14754.9
Ba 389.178	397.676	ppb	1.0451	0.3	10449.5
Be 313.042	47.3346	ppb	0.1325	0.3	95372.3
Ca 370.602	20487	ppb	69.48	0.3	64787
Cd 226.502	183.062	ppb	0.5400	0.3	9900.51
Co 228.615	189.682	ppb	0.5359	0.3	2707.35
Cr 267.716	209.857	ppb	0.8662	0.4	13277.4
Cu 324.754	292.221	ppb	2.5154	0.9	18819.3
Fe 271.441	8015.89	ppb	25.6747	0.3	15399.0
K 766.491	2793.44	ppb	8.6856	0.3	94124.2
Mg 279.078	2802.05	ppb	6.9363	0.2	8027.93
Mn 257.610	304.563	ppb	0.8303	0.3	82404.4
Mo 202.032	194.506	ppb	0.1648	0.1	1668.64
Na 330.237	5153.68	ppb	79.8962	1.6	287.978
Ni 231.604	444.345	ppb	0.9209	0.2	1726.40
Pb 220.353	308.256	ppb	2.2633	0.7	648.637
Sb 206.834	2289.75	ppb	1.6328	0.1	3784.82
Se 196.026	204.104	ppb	4.0679	2.0	120.693
Sn 189.925	207.333	ppb	2.3118	1.1	223.911
Sr 216.596	230.422	ppb	0.5500	0.2	3854.51
Ti 334.941	765.190	ppb	52.4907	6.9	244147
Tl 190.794	181.702	ppb	0.7126	0.4	255.066
V 292.401	195.647	ppb	0.4947	0.3	5863.72
Zn 206.200	785.904	ppb	1.7607	0.2	1374.83

680-92626-a-11-b (Samp) **8/1/2013, 5:27:47 AM** **Rack 4, Tube 9**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.5947	0.3856	0.6218
Al 308.215	4078.73	4162.46	4054.29
As 188.980	14.6060	19.6240	16.2524
B 249.678	87.5256	89.1988	86.7484
Ba 389.178	174.486	176.751	173.454
Be 313.042	0.3439	0.3469	0.3399
Ca 370.602	29796	30500	29638
Cd 226.502	125.107	128.572	124.940
Co 228.615	3.0234	2.9929	2.9288
Cr 267.716	21.8229	22.4435	21.8900
Cu 324.754	77.1105	80.5512	77.5251
Fe 271.441	8626.39	8842.73	8620.44
K 766.491	1246.98	1277.50	1245.53
Mg 279.078	3659.69	3747.19	3648.87
Mn 257.610	303.858	310.955	303.137
Mo 202.032	2.8014	2.9534	2.9479
Na 330.237	1253.95	1127.89	1330.23
Ni 231.604	47.1249	49.8664	46.8972
Pb 220.353	77.7644	79.2685	78.7266
Sb 206.834	578.268	596.877	569.784
Se 196.026	2.6857	-0.9463u	0.2496
Sn 189.925	10.6077	9.0904	11.6333
Sr 216.596	63.9710	65.2100	63.9959
Ti 334.941	144.797	148.175	143.799
Tl 190.794	-2.7795u	-1.4873u	3.1132
V 292.401	10.1458	10.5800	9.5366
Zn 206.200	713.080	729.686	711.989

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.5340	ppb	0.1292	24.2	38.9788
Al 308.215	4098.49	ppb	56.7280	1.4	12122.8
As 188.980	16.8275	ppb	2.5579	15.2	6.1407
B 249.678	87.8243	ppb	1.2522	1.4	1600.39
Ba 389.178	174.897	ppb	1.6862	1.0	4599.72
Be 313.042	0.3436	ppb	0.0035	1.0	421.286
Ca 370.602	29978	ppb	459.3	1.5	94511
Cd 226.502	126.206	ppb	2.0506	1.6	6840.82
Co 228.615	2.9817	ppb	0.0483	1.6	32.7537
Cr 267.716	22.0522	ppb	0.3406	1.5	1419.77
Cu 324.754	78.3956	ppb	1.8783	2.4	5234.25
Fe 271.441	8696.52	ppb	126.653	1.5	16673.4
K 766.491	1256.67	ppb	18.0544	1.4	42445.0
Mg 279.078	3685.25	ppb	53.9134	1.5	10549.9
Mn 257.610	305.983	ppb	4.3205	1.4	82799.0
Mo 202.032	2.9009	ppb	0.0862	3.0	30.1918
Na 330.237	1237.36	ppb	102.185	8.3	93.8865
Ni 231.604	47.9628	ppb	1.6525	3.4	182.121
Pb 220.353	78.5865	ppb	0.7618	1.0	177.191
Sb 206.834	581.643	ppb	13.8585	2.4	966.117
Se 196.026	0.6630	ppb	1.8510	279.2	0.8397
Sn 189.925	10.4438	ppb	1.2793	12.2	4.1340
Sr 216.596	64.3923	ppb	0.7083	1.1	1099.12
Ti 334.941	145.590	ppb	2.2933	1.6	46425.2
Tl 190.794	-0.3845	ppb	3.0973	805.5	-11.7938
V 292.401	10.0875	ppb	0.5241	5.2	301.955
Zn 206.200	718.252	ppb	9.9174	1.4	1257.74

680-92626-a-13-b (Samp) **8/1/2013, 5:32:25 AM** **Rack 4, Tube 10**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.0437	-0.0184u	0.1265
Al 308.215	894.684	881.684	902.831
As 188.980	2.0680	6.4084	6.1508
B 249.678	52.9913	51.9362	52.8839
Ba 389.178	22.9417	22.3237	22.9820
Be 313.042	0.1161	0.1120	0.1039
Ca 370.602	8525	8452	8636
Cd 226.502	0.3969	0.1212	0.2470
Co 228.615	1.3543	1.6360	0.6584
Cr 267.716	6.4177	6.4752	6.4415
Cu 324.754	19.2276	19.3047	19.9787
Fe 271.441	1930.18	1901.02	1941.87
K 766.491	390.783	386.863	396.519
Mg 279.078	1769.39	1748.36	1774.30
Mn 257.610	93.3575	92.2376	93.8904
Mo 202.032	0.6391	0.4974	0.1990
Na 330.237	397.089	535.794	596.256
Ni 231.604	21.5852	21.2113	21.9543
Pb 220.353	7.6788	9.5350	10.2378
Sb 206.834	59.1578	60.6157	60.3625
Se 196.026	-1.8040u	-1.1547u	2.3710
Sn 189.925	10.5429	8.2019	7.7629
Sr 216.596	17.0337	17.6569	17.6515
Ti 334.941	58.8250	57.9553	58.9643
Tl 190.794	0.1371u	0.6887	-0.8349u
V 292.401	2.6058	2.4622	2.5651
Zn 206.200	139.194	138.392	139.191

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0506	ppb	0.0727	143.8	-1.3995
Al 308.215	893.066	ppb	10.6661	1.2	2667.73
As 188.980	4.8757	ppb	2.4350	49.9	-4.5997
B 249.678	52.6038	ppb	0.5807	1.1	1011.01
Ba 389.178	22.7491	ppb	0.3690	1.6	586.535
Be 313.042	0.1107	ppb	0.0062	5.6	-56.7987
Ca 370.602	8538	ppb	92.67	1.1	26971
Cd 226.502	0.2550	ppb	0.1380	54.1	28.7417
Co 228.615	1.2162	ppb	0.5032	41.4	4.8868
Cr 267.716	6.4448	ppb	0.0289	0.4	432.365
Cu 324.754	19.5037	ppb	0.4132	2.1	1491.29
Fe 271.441	1924.36	ppb	21.0409	1.1	3701.55
K 766.491	391.388	ppb	4.8559	1.2	13346.8
Mg 279.078	1764.02	ppb	13.7784	0.8	5068.03
Mn 257.610	93.1619	ppb	0.8436	0.9	25270.7
Mo 202.032	0.4451	ppb	0.2246	50.5	9.6014
Na 330.237	509.713	ppb	102.113	20.0	67.8984
Ni 231.604	21.5836	ppb	0.3715	1.7	79.1061
Pb 220.353	9.1505	ppb	1.3221	14.4	33.8921
Sb 206.834	60.0453	ppb	0.7790	1.3	104.760
Se 196.026	-0.1959	ppb	2.2465	1146.7	0.2439
Sn 189.925	8.8359	ppb	1.4945	16.9	2.3269
Sr 216.596	17.4474	ppb	0.3582	2.1	303.377
Ti 334.941	58.5816	ppb	0.5468	0.9	18648.0
Tl 190.794	-0.0030	ppb	0.7714	25513.2	-10.4747
V 292.401	2.5444	ppb	0.0740	2.9	74.2608
Zn 206.200	138.925	ppb	0.4623	0.3	348.143

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680-92626-a-15-b (Samp) **8/1/2013, 5:37:15 AM** **Rack 4, Tube 11**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	-0.3700u	0.0881	0.0180
Al 308.215	2687.58	2618.39	2555.06
As 188.980	6.2236	6.7844	7.8693
B 249.678	75.5642	74.5677	72.8906
Ba 389.178	62.6921	61.9208	59.8143
Be 313.042	0.3597	0.3508	0.3544
Ca 370.602	23093	22628	22157
Cd 226.502	0.7023	0.9378	0.8128
Co 228.615	2.2399	2.4202	2.2071
Cr 267.716	18.0922	17.7467	17.1091
Cu 324.754	50.8421	52.3641	51.6310
Fe 271.441	5717.10	5609.70	5496.33
K 766.491	1118.37	1104.44	1080.48
Mg 279.078	4978.14	4878.37	4787.80
Mn 257.610	289.871	283.512	278.332
Mo 202.032	1.6508	2.0449	1.3851
Na 330.237	1097.30	1040.68	1126.41
Ni 231.604	65.1074	63.4075	62.6394
Pb 220.353	30.1421	27.6708	30.8054
Sb 206.834	77.4203	73.9350	73.2969
Se 196.026	-0.4562u	3.1741	4.7230
Sn 189.925	20.9676	20.4615	22.4177
Sr 216.596	47.5820	46.9868	45.6730
Ti 334.941	128.679	126.272	123.577
Tl 190.794	0.2276u	3.9765	-1.1241u
V 292.401	7.6471	7.4146	7.1365
Zn 206.200	407.112	400.920	393.583

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0880	ppb	0.2468	280.5	-13.9385
Al 308.215	2620.35	ppb	66.2794	2.5	7762.62
As 188.980	6.9591	ppb	0.8366	12.0	-2.7460
B 249.678	74.3409	ppb	1.3512	1.8	1375.92
Ba 389.178	61.4757	ppb	1.4896	2.4	1619.02
Be 313.042	0.3550	ppb	0.0045	1.3	441.896
Ca 370.602	22626	ppb	468.1	2.1	71419
Cd 226.502	0.8176	ppb	0.1178	14.4	74.2735
Co 228.615	2.2891	ppb	0.1147	5.0	22.2197
Cr 267.716	17.6494	ppb	0.4987	2.8	1142.24
Cu 324.754	51.6124	ppb	0.7612	1.5	3531.99
Fe 271.441	5607.71	ppb	110.396	2.0	10756.9
K 766.491	1101.10	ppb	19.1634	1.7	37213.3
Mg 279.078	4881.44	ppb	95.2063	2.0	13965.9
Mn 257.610	283.905	ppb	5.7795	2.0	76836.7
Mo 202.032	1.6936	ppb	0.3320	19.6	20.0525
Na 330.237	1088.13	ppb	43.5950	4.0	91.9065
Ni 231.604	63.7181	ppb	1.2630	2.0	243.433
Pb 220.353	29.5394	ppb	1.6519	5.6	76.1035
Sb 206.834	74.8841	ppb	2.2195	3.0	129.532
Se 196.026	2.4803	ppb	2.6584	107.2	1.8917
Sn 189.925	21.2823	ppb	1.0153	4.8	16.2287
Sr 216.596	46.7473	ppb	0.9768	2.1	798.765
Ti 334.941	126.176	ppb	2.5525	2.0	40235.5
Tl 190.794	1.0267	ppb	2.6426	257.4	-9.4353
V 292.401	7.3994	ppb	0.2556	3.5	221.019
Zn 206.200	400.538	ppb	6.7727	1.7	704.048

680-92626-a-17-b (Samp) **8/1/2013, 5:41:54 AM** **Rack 4, Tube 12**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	-0.0227u	0.0745	-0.2312u
Al 308.215	478.459	468.717	470.549
As 188.980	5.2386	5.3436	5.0793
B 249.678	131.978	130.587	130.646
Ba 389.178	16.4673	15.8932	16.7661
Be 313.042	0.0376	0.0429	0.0393
Ca 370.602	4591	4510	4533
Cd 226.502	0.4394	0.2218	0.2654
Co 228.615	0.8840	0.9878	0.6754
Cr 267.716	6.0796	5.9634	5.7494
Cu 324.754	32.6650	32.6489	32.4867
Fe 271.441	1702.95	1679.81	1675.53
K 766.491	319.921	315.276	313.660
Mg 279.078	682.602	672.389	666.501
Mn 257.610	60.9762	59.9126	60.0974
Mo 202.032	0.0731	0.8397	0.3116
Na 330.237	870.336	716.971	661.539
Ni 231.604	59.3583	58.2639	58.0962
Pb 220.353	8.3518	10.5829	7.9653
Sb 206.834	73.9219	74.6617	74.9504
Se 196.026	3.4870	1.1688	2.6642
Sn 189.925	6.9656	5.9500	5.8041
Sr 216.596	10.1516	10.0750	10.3840
Ti 334.941	53.3495	52.9066	52.7640
Tl 190.794	4.9909	0.6324	1.0988
V 292.401	2.0283	1.8317	2.1433
Zn 206.200	163.209	158.802	160.119

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0598	ppb	0.1562	261.1	-10.6709
Al 308.215	472.575	ppb	5.1774	1.1	1427.39
As 188.980	5.2205	ppb	0.1331	2.5	-4.2912
B 249.678	131.071	ppb	0.7864	0.6	2360.46
Ba 389.178	16.3756	ppb	0.4436	2.7	415.472
Be 313.042	0.0399	ppb	0.0027	6.7	-201.271
Ca 370.602	4545	ppb	41.92	0.9	14318
Cd 226.502	0.3089	ppb	0.1151	37.3	30.6350
Co 228.615	0.8491	ppb	0.1591	18.7	-0.5170
Cr 267.716	5.9308	ppb	0.1675	2.8	399.635
Cu 324.754	32.6002	ppb	0.0986	0.3	2323.02
Fe 271.441	1686.09	ppb	14.7532	0.9	3245.12
K 766.491	316.286	ppb	3.2507	1.0	10821.2
Mg 279.078	673.830	ppb	8.1466	1.2	1955.80
Mn 257.610	60.3287	ppb	0.5683	0.9	16390.4
Mo 202.032	0.4081	ppb	0.3923	96.1	9.3003
Na 330.237	749.615	ppb	108.159	14.4	79.7506
Ni 231.604	58.5728	ppb	0.6854	1.2	223.263
Pb 220.353	8.9667	ppb	1.4130	15.8	33.4979
Sb 206.834	74.5113	ppb	0.5305	0.7	128.617
Se 196.026	2.4400	ppb	1.1752	48.2	1.7862
Sn 189.925	6.2399	ppb	0.6327	10.1	-0.5731
Sr 216.596	10.2035	ppb	0.1609	1.6	180.482
Ti 334.941	53.0067	ppb	0.3053	0.6	16863.3
Tl 190.794	2.2407	ppb	2.3931	106.8	-7.1545
V 292.401	2.0011	ppb	0.1576	7.9	57.7946
Zn 206.200	160.710	ppb	2.2621	1.4	286.106

680-92626-a-19-b (Samp) **8/1/2013, 5:56:11 AM** **Rack 4, Tube 15**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.1846	0.1615	0.1066
Al 308.215	7774.57	7845.32	7794.75
As 188.980	15.1279	20.2137	18.1893
B 249.678	129.066	129.874	129.487
Ba 389.178	186.427	187.630	186.398
Be 313.042	0.9179	0.9435	0.9439
Ca 370.602	65344	65660	65268
Cd 226.502	1.0578	1.1266	1.1041
Co 228.615	4.7759	5.5120	5.0622
Cr 267.716	54.6124	55.0888	54.5327
Cu 324.754	139.566	140.283	138.762
Fe 271.441	16801.3	16944.5	16860.4
K 766.491	2964.73	2981.47	2968.98
Mg 279.078	10906.3	10971.5	10913.6
Mn 257.610	868.562	874.898	870.497
Mo 202.032	4.7795	5.1762	5.1236
Na 330.237	2264.75	2133.22	2183.05
Ni 231.604	112.264	111.471	110.222
Pb 220.353	91.6584	93.3604	90.7952
Sb 206.834	143.763	140.692	143.381
Se 196.026	12.0397	1.8241	11.0307
Sn 189.925	19.9332	16.3567	17.0294
Sr 216.596	133.894	134.600	133.489
Ti 334.941	322.194	324.660	323.845
Tl 190.794	4.5854	0.8897u	1.9854
V 292.401	23.9783	23.7084	24.0420
Zn 206.200	1051.86	1055.03	1046.51

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1509	ppb	0.0401	26.6	5.1273
Al 308.215	7804.88	ppb	36.4493	0.5	23055.1
As 188.980	17.8436	ppb	2.5604	14.3	6.9978
B 249.678	129.476	ppb	0.4042	0.3	2296.99
Ba 389.178	186.818	ppb	0.7033	0.4	4947.62
Be 313.042	0.9351	ppb	0.0149	1.6	1629.50
Ca 370.602	65424	ppb	207.9	0.3	206432
Cd 226.502	1.0962	ppb	0.0351	3.2	135.726
Co 228.615	5.1167	ppb	0.3711	7.3	68.5628
Cr 267.716	54.7447	ppb	0.3007	0.5	3491.84
Cu 324.754	139.537	ppb	0.7610	0.5	9120.51
Fe 271.441	16868.7	ppb	71.9479	0.4	32327.2
K 766.491	2971.73	ppb	8.7005	0.3	100120
Mg 279.078	10930.4	ppb	35.7052	0.3	31226.8
Mn 257.610	871.319	ppb	3.2467	0.4	235605
Mo 202.032	5.0265	ppb	0.2155	4.3	47.8612
Na 330.237	2193.68	ppb	66.4059	3.0	134.155
Ni 231.604	111.319	ppb	1.0293	0.9	429.294
Pb 220.353	91.9380	ppb	1.3053	1.4	205.296
Sb 206.834	142.612	ppb	1.6740	1.2	242.218
Se 196.026	8.2982	ppb	5.6293	67.8	5.5378
Sn 189.925	17.7731	ppb	1.9007	10.7	12.3364
Sr 216.596	133.994	ppb	0.5621	0.4	2276.51
Ti 334.941	323.566	ppb	1.2564	0.4	103260
Tl 190.794	2.4868	ppb	1.8982	76.3	-8.7258
V 292.401	23.9096	ppb	0.1771	0.7	719.755
Zn 206.200	1051.13	ppb	4.3051	0.4	1837.81

680-92626-a-21-b (Samp) **8/1/2013, 6:01:01 AM** **Rack 4, Tube 16**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	0.2299	0.2778	-0.1611u
Al 308.215	1317.08	1372.38	1345.97
As 188.980	14.0038	8.5547	10.5601
B 249.678	318.364	332.068	326.379
Ba 389.178	42.2595	43.5714	42.5409
Be 313.042	0.1190	0.1161	0.1191
Ca 370.602	10542	10960	10759
Cd 226.502	0.4781	0.5058	0.5268
Co 228.615	2.1457	1.5913	1.5285
Cr 267.716	19.9609	20.9098	20.4052
Cu 324.754	54.6218	58.0894	56.6757
Fe 271.441	3802.39	3951.12	3868.95
K 766.491	1047.75	1078.50	1056.21
Mg 279.078	1758.01	1834.17	1785.83
Mn 257.610	152.090	158.169	155.099
Mo 202.032	1.2257	1.8075	1.4323
Na 330.237	2615.79	2520.12	2422.98
Ni 231.604	105.038	108.924	107.099
Pb 220.353	14.7235	16.4827	16.5472
Sb 206.834	171.608	180.861	176.280
Se 196.026	0.0159	10.0233	4.2448
Sn 189.925	13.8258	15.7697	17.4193
Sr 216.596	22.2466	23.1552	22.5762
Ti 334.941	115.695	125.791	119.794
Tl 190.794	-1.0453u	-0.0406u	-2.8189u
V 292.401	5.4176	5.6173	5.5413
Zn 206.200	599.763	619.376	605.758

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1155	ppb	0.2408	208.4	4.2775
Al 308.215	1345.14	ppb	27.6639	2.1	4001.08
As 188.980	11.0396	ppb	2.7560	25.0	0.9442
B 249.678	325.604	ppb	6.8852	2.1	5699.38
Ba 389.178	42.7906	ppb	0.6907	1.6	1116.19
Be 313.042	0.1181	ppb	0.0017	1.4	-41.5063
Ca 370.602	10754	ppb	209.3	1.9	33883
Cd 226.502	0.5036	ppb	0.0244	4.8	50.1402
Co 228.615	1.7552	ppb	0.3396	19.4	14.3927
Cr 267.716	20.4253	ppb	0.4748	2.3	1316.29
Cu 324.754	56.4623	ppb	1.7436	3.1	3839.39
Fe 271.441	3874.15	ppb	74.5022	1.9	7436.37
K 766.491	1060.82	ppb	15.8843	1.5	35858.6
Mg 279.078	1792.67	ppb	38.5382	2.1	5148.79
Mn 257.610	155.119	ppb	3.0399	2.0	42013.2
Mo 202.032	1.4885	ppb	0.2950	19.8	18.4041
Na 330.237	2519.63	ppb	96.4065	3.8	161.461
Ni 231.604	107.020	ppb	1.9440	1.8	412.150
Pb 220.353	15.9178	ppb	1.0348	6.5	47.9403
Sb 206.834	176.250	ppb	4.6263	2.6	296.817
Se 196.026	4.7613	ppb	5.0236	105.5	3.1906
Sn 189.925	15.6716	ppb	1.7987	11.5	9.9595
Sr 216.596	22.6593	ppb	0.4600	2.0	391.145
Ti 334.941	120.427	ppb	5.0776	4.2	38384.3
Tl 190.794	-1.3016	ppb	1.4068	108.1	-12.5907
V 292.401	5.5254	ppb	0.1008	1.8	164.237
Zn 206.200	608.299	ppb	10.0502	671.7	1066.08

680-92626-a-23-b (Samp) **8/1/2013, 6:05:40 AM** **Rack 4, Tube 17**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.0645u	0.0226	0.0105
Al 308.215	310.608	320.533	315.429
As 188.980	-0.5457u	-0.0615u	3.4389
B 249.678	75.2100	78.7626	75.5491
Ba 389.178	11.7240	12.6787	11.2507
Be 313.042	0.0335	0.0273	0.0359
Ca 370.602	3322	3496	3385
Cd 226.502	0.1648	0.1985	0.0836
Co 228.615	0.8400	0.5260	0.9601
Cr 267.716	2.5895	2.1943	2.1077
Cu 324.754	14.4893	15.1272	14.7019
Fe 271.441	732.336	766.022	737.571
K 766.491	315.032	327.760	318.220
Mg 279.078	337.375	349.472	341.361
Mn 257.610	24.4542	25.6545	24.7636
Mo 202.032	-0.0369u	-0.0492u	0.2586
Na 330.237	766.543	652.081	581.685
Ni 231.604	36.5387	37.5500	36.6003
Pb 220.353	2.0318	4.2993	4.3881
Sb 206.834	53.8637	55.8205	57.6520
Se 196.026	-4.3888u	2.2880	2.9441
Sn 189.925	4.0335	4.7434	4.2017
Sr 216.596	7.7807	8.2994	8.1596
Ti 334.941	32.8074	34.0781	32.8803
Tl 190.794	-0.9877u	0.8695	1.5970
V 292.401	0.7400	0.5955	0.6758
Zn 206.200	147.924	155.773	152.710

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0105	ppb	0.0472	451.3	-6.5008
Al 308.215	315.523	ppb	4.9632	1.6	964.202
As 188.980	0.9439	ppb	2.1742	230.4	-8.1413
B 249.678	76.5072	ppb	1.9605	2.6	1424.71
Ba 389.178	11.8845	ppb	0.7274	6.1	295.005
Be 313.042	0.0322	ppb	0.0045	13.8	-217.105
Ca 370.602	3401	ppb	88.04	2.6	10751
Cd 226.502	0.1489	ppb	0.0590	39.6	18.1555
Co 228.615	0.7753	ppb	0.2242	28.9	-2.1588
Cr 267.716	2.2972	ppb	0.2569	11.2	169.664
Cu 324.754	14.7728	ppb	0.3248	2.2	1190.39
Fe 271.441	745.310	ppb	18.1270	2.4	1443.09
K 766.491	320.337	ppb	6.6233	2.1	10957.5
Mg 279.078	342.736	ppb	6.1646	1.8	1010.95
Mn 257.610	24.9574	ppb	0.6232	2.5	6829.59
Mo 202.032	0.0575	ppb	0.1742	303.1	6.3590
Na 330.237	666.770	ppb	93.3002	14.0	76.0521
Ni 231.604	36.8964	ppb	0.5669	1.5	138.752
Pb 220.353	3.5731	ppb	1.3355	37.4	22.3329
Sb 206.834	55.7787	ppb	1.8945	3.4	97.6163
Se 196.026	0.2811	ppb	4.0575	1443.5	0.5002
Sn 189.925	4.3262	ppb	0.3710	8.6	-2.7099
Sr 216.596	8.0799	ppb	0.2684	3.3	144.144
Ti 334.941	33.2553	ppb	0.7135	2.1	10558.3
Tl 190.794	0.4929	ppb	1.3328	270.4	-9.5977
V 292.401	0.6704	ppb	0.0724	10.8	17.5766
Zn 206.200	152.136	ppb	3.9561	2.6	271.168

680-92626-a-25-b (Samp) **8/1/2013, 6:10:18 AM** **Rack 4, Tube 18**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	-0.1836u	-0.0591u	-0.0522u
Al 308.215	494.704	495.428	494.424
As 188.980	4.0855	1.2653	4.6152
B 249.678	198.613	198.178	200.905
Ba 389.178	14.6116	15.5835	15.4832
Be 313.042	0.0539	0.0553	0.0569
Ca 370.602	4312	4331	4331
Cd 226.502	0.2731	0.3229	0.5524
Co 228.615	1.3378	0.9701	0.5317
Cr 267.716	5.0827	5.0002	5.0305
Cu 324.754	24.1174	24.1591	24.6727
Fe 271.441	1392.79	1400.32	1415.82
K 766.491	433.056	440.695	443.314
Mg 279.078	676.802	682.404	685.173
Mn 257.610	61.9181	62.1753	62.4904
Mo 202.032	1.1772	0.7739	0.3115
Na 330.237	1105.79	1050.26	770.403
Ni 231.604	51.2254	51.7238	51.0469
Pb 220.353	6.1850	7.0222	9.2806
Sb 206.834	90.6737	91.8696	89.0049
Se 196.026	2.6095	5.8093	5.4437
Sn 189.925	8.4595	8.5693	8.7307
Sr 216.596	9.9968	9.8379	9.7841
Ti 334.941	69.2396	71.1924	70.1934
Tl 190.794	-0.5643u	-1.1743u	-1.6536u
V 292.401	1.8828	1.9106	1.8027
Zn 206.200	271.779	275.579	278.290

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0983	ppb	0.0739	75.2	-13.9713
Al 308.215	494.852	ppb	0.5181	0.1	1493.12
As 188.980	3.3220	ppb	1.8007	54.2	-6.0011
B 249.678	199.232	ppb	1.4654	0.7	3532.85
Ba 389.178	15.2261	ppb	0.5345	3.5	384.858
Be 313.042	0.0554	ppb	0.0015	2.7	-170.228
Ca 370.602	4325	ppb	10.75	0.2	13652
Cd 226.502	0.3828	ppb	0.1490	38.9	33.4787
Co 228.615	0.9465	ppb	0.4036	42.6	1.3227
Cr 267.716	5.0378	ppb	0.0418	0.8	343.221
Cu 324.754	24.3164	ppb	0.3093	1.3	1796.79
Fe 271.441	1402.97	ppb	11.7402	0.8	2702.84
K 766.491	439.022	ppb	5.3299	1.2	14948.6
Mg 279.078	681.460	ppb	4.2647	0.6	1977.46
Mn 257.610	62.1946	ppb	0.2866	0.5	16893.6
Mo 202.032	0.7542	ppb	0.4332	57.4	12.2767
Na 330.237	975.483	ppb	179.762	18.4	89.4805
Ni 231.604	51.3320	ppb	0.3509	0.7	195.034
Pb 220.353	7.4959	ppb	1.6012	21.4	30.4373
Sb 206.834	90.5161	ppb	1.4389	1.6	155.005
Se 196.026	4.6208	ppb	1.7515	37.9	3.0706
Sn 189.925	8.5865	ppb	0.1364	1.6	2.0463
Sr 216.596	9.8729	ppb	0.1106	1.1	174.741
Ti 334.941	70.2085	ppb	0.9765	1.4	22352.7
Tl 190.794	-1.1307	ppb	0.5460	48.3	-12.0549
V 292.401	1.8654	ppb	0.0560	3.0	53.9782
Zn 206.200	275.216	ppb	3.2706	67[illegible]3	485.655

680-92626-a-27-b (Samp) **8/1/2013, 6:14:55 AM** **Rack 4, Tube 19**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	-0.0930u	-0.2350u	-0.7125u
Al 308.215	236.114	270.651	309.746
As 188.980	2.7136	-0.8511u	-0.8484u
B 249.678	49.5165	57.3412	67.2004
Ba 389.178	7.9914	8.9107	11.1206
Be 313.042	0.0237	0.0355	-0.0180u
Ca 370.602	2188	2480	2873
Cd 226.502	-0.0428	0.1525	0.1943
Co 228.615	0.3046	0.3874	0.1569
Cr 267.716	2.0871	2.4829	2.8722
Cu 324.754	9.1777	11.3580	14.3966
Fe 271.441	724.216	830.009	958.615
K 766.491	196.145	216.479	260.405
Mg 279.078	142.438	165.914	194.573
Mn 257.610	12.7529	14.4476	16.8987
Mo 202.032	0.1494	0.6048	0.9865
Na 330.237	412.613	424.103	844.433
Ni 231.604	24.4257	25.7856	30.6289
Pb 220.353	7.9489	10.8732	11.3803
Sb 206.834	56.7510	66.3805	77.6846
Se 196.026	2.5774	3.5258	-5.0026u
Sn 189.925	22.1294	21.5347	24.0597
Sr 216.596	5.4202	6.3846	7.7720
Ti 334.941	44.6286	49.8328	58.6834
Tl 190.794	0.6753	1.3388	2.4357
V 292.401	0.7659	0.3394	0.5356
Zn 206.200	96.2162	108.618	130.255

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.3468	ppb	0.3245	93.6	-35.4993
Al 308.215	272.170	ppb	36.8395	13.5	836.346
As 188.980	0.3380	ppb	2.0573	608.7	-8.6904
B 249.678	58.0194	ppb	8.8615	15.3	1106.68
Ba 389.178	9.3409	ppb	1.6084	17.2	227.819
Be 313.042	0.0137	ppb	0.0281	205.0	-254.934
Ca 370.602	2514	ppb	343.6	13.7	7940
Cd 226.502	0.1013	ppb	0.1265	124.9	15.9695
Co 228.615	0.2830	ppb	0.1168	41.3	-8.7170
Cr 267.716	2.4807	ppb	0.3926	15.8	181.269
Cu 324.754	11.6441	ppb	2.6212	22.5	991.726
Fe 271.441	837.613	ppb	117.384	14.0	1619.82
K 766.491	224.343	ppb	32.8439	14.6	7729.35
Mg 279.078	167.642	ppb	26.1107	15.6	511.225
Mn 257.610	14.6997	ppb	2.0844	14.2	4057.35
Mo 202.032	0.5802	ppb	0.4191	72.2	10.8247
Na 330.237	560.383	ppb	246.062	43.9	71.1833
Ni 231.604	26.9467	ppb	3.2605	12.1	99.9781
Pb 220.353	10.0675	ppb	1.8522	18.4	35.6819
Sb 206.834	66.9387	ppb	10.4779	15.7	116.036
Se 196.026	0.3669	ppb	4.6742	1274.1	0.5481
Sn 189.925	22.5746	ppb	1.3201	5.8	17.6596
Sr 216.596	6.5256	ppb	1.1822	18.1	118.417
Ti 334.941	51.0483	ppb	7.1058	13.9	16235.6
Tl 190.794	1.4833	ppb	0.8891	59.9	-8.1550
V 292.401	0.5469	ppb	0.2134	39.0	14.0530
Zn 206.200	111.696	ppb	17.2268	15.4	300.695

680-92626-a-29-b (Samp) **8/1/2013, 6:19:33 AM** **Rack 4, Tube 20**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.2924	0.0805	0.1337
Al 308.215	255.545	259.549	262.564
As 188.980	6.3062	2.6932	3.3075
B 249.678	93.1066	93.0661	93.4868
Ba 389.178	30.6857	31.5249	31.8176
Be 313.042	0.0312	0.0301	0.0275
Ca 370.602	4289	4321	4375
Cd 226.502	53.0472	53.3190	53.4299
Co 228.615	1.2862	0.5198	0.6732
Cr 267.716	2.5155	2.3756	2.4738
Cu 324.754	23.2686	23.0703	23.8012
Fe 271.441	646.062	645.480	660.171
K 766.491	306.512	308.063	307.925
Mg 279.078	384.554	381.006	380.828
Mn 257.610	27.1917	27.1831	27.4918
Mo 202.032	0.4572	0.2449	0.0866
Na 330.237	1148.37	1073.29	1083.14
Ni 231.604	57.3814	57.3957	58.0753
Pb 220.353	5.9201	5.8955	6.4514
Sb 206.834	222.777	227.460	220.431
Se 196.026	6.8228	-7.0392u	2.2429
Sn 189.925	5.7481	6.8501	5.2746
Sr 216.596	11.5666	10.8192	10.8979
Ti 334.941	51.0089	50.7878	50.9357
Tl 190.794	-0.5303u	-1.3775u	-3.6142u
V 292.401	0.6746	0.7996	0.4823
Zn 206.200	176.320	174.688	174.110

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1689	ppb	0.1102	65.3	8.8264
Al 308.215	259.219	ppb	3.5209	1.4	798.115
As 188.980	4.1023	ppb	1.9332	47.1	-5.2892
B 249.678	93.2198	ppb	0.2321	0.2	1712.23
Ba 389.178	31.3427	ppb	0.5875	1.9	806.101
Be 313.042	0.0296	ppb	0.0019	6.4	-222.130
Ca 370.602	4328	ppb	43.84	1.0	13711
Cd 226.502	53.2653	ppb	0.1969	0.4	2878.81
Co 228.615	0.8264	ppb	0.4055	49.1	-0.9506
Cr 267.716	2.4550	ppb	0.0719	2.9	178.995
Cu 324.754	23.3800	ppb	0.3780	1.6	1737.04
Fe 271.441	650.571	ppb	8.3190	1.3	1261.64
K 766.491	307.500	ppb	0.8585	0.3	10525.8
Mg 279.078	382.129	ppb	2.1020	0.6	1123.39
Mn 257.610	27.2889	ppb	0.1758	0.6	7459.45
Mo 202.032	0.2629	ppb	0.1860	70.7	8.1214
Na 330.237	1101.60	ppb	40.8059	3.7	97.5566
Ni 231.604	57.6175	ppb	0.3966	0.7	219.509
Pb 220.353	6.0890	ppb	0.3141	5.2	27.4883
Sb 206.834	223.556	ppb	3.5785	1.6	374.538
Se 196.026	0.6755	ppb	7.0626	1045.5	0.7329
Sn 189.925	5.9576	ppb	0.8083	13.6	-0.8881
Sr 216.596	11.0946	ppb	0.4107	3.7	193.951
Ti 334.941	50.9108	ppb	0.1126	0.2	16192.7
Tl 190.794	-1.8406	ppb	1.5933	86.6	-12.9991
V 292.401	0.6522	ppb	0.1598	24.5	17.2822
Zn 206.200	175.039	ppb	1.1459	675.7	311.080

680-92626-a-31-b (Samp) **8/1/2013, 6:24:11 AM** **Rack 4, Tube 21**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	-0.0563u	0.2611	0.0878
Al 308.215	445.612	420.319	434.184
As 188.980	7.3036	7.0889	1.5804
B 249.678	130.205	125.032	127.293
Ba 389.178	76.5482	74.2844	75.9277
Be 313.042	0.0390	0.0338	0.0418
Ca 370.602	4713	4491	4586
Cd 226.502	43.9059	42.2259	43.0751
Co 228.615	0.5224	1.0902	1.2810
Cr 267.716	3.4664	3.1341	3.4660
Cu 324.754	66.8052	63.2649	65.3121
Fe 271.441	1136.85	1088.06	1110.48
K 766.491	342.148	327.048	332.950
Mg 279.078	361.917	351.858	356.801
Mn 257.610	28.0720	26.8697	27.3738
Mo 202.032	0.6231	0.2639	0.6649
Na 330.237	1051.26	987.388	1022.50
Ni 231.604	216.595	207.666	212.366
Pb 220.353	22.4970	21.8564	22.3976
Sb 206.834	571.475	547.951	559.728
Se 196.026	2.8075	2.9831	-1.8512u
Sn 189.925	6.9996	3.4310	5.2415
Sr 216.596	13.9674	13.2908	13.4139
Ti 334.941	78.5817	75.3232	78.2859
Tl 190.794	0.3614	0.9870	-0.0495u
V 292.401	0.9393	0.9745	0.6826
Zn 206.200	197.491	191.716	196.493

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0975	ppb	0.1589	163.0	2.5583
Al 308.215	433.372	ppb	12.6659	2.9	1311.83
As 188.980	5.3243	ppb	3.2441	60.9	-4.1900
B 249.678	127.510	ppb	2.5935	2.0	2300.60
Ba 389.178	75.5868	ppb	1.1698	1.5	1968.96
Be 313.042	0.0382	ppb	0.0041	10.6	-204.824
Ca 370.602	4597	ppb	111.0	2.4	14540
Cd 226.502	43.0690	ppb	0.8400	2.0	2331.49
Co 228.615	0.9645	ppb	0.3946	40.9	1.7725
Cr 267.716	3.3555	ppb	0.1917	5.7	236.194
Cu 324.754	65.1274	ppb	1.7774	2.7	4388.74
Fe 271.441	1111.80	ppb	24.4225	2.2	2145.11
K 766.491	334.049	ppb	7.6097	2.3	11418.6
Mg 279.078	356.859	ppb	5.0299	1.4	1051.26
Mn 257.610	27.4385	ppb	0.6037	2.2	7501.10
Mo 202.032	0.5173	ppb	0.2205	42.6	10.2694
Na 330.237	1020.38	ppb	31.9891	3.1	92.9509
Ni 231.604	212.209	ppb	4.4668	2.1	822.037
Pb 220.353	22.2503	ppb	0.3448	1.5	60.7411
Sb 206.834	559.718	ppb	11.7621	2.1	929.420
Se 196.026	1.3131	ppb	2.7418	208.8	1.1104
Sn 189.925	5.2240	ppb	1.7844	34.2	-1.7069
Sr 216.596	13.5574	ppb	0.3604	2.7	231.650
Ti 334.941	77.3969	ppb	1.8020	2.3	24644.9
Tl 190.794	0.4330	ppb	0.5219	120.6	-9.7203
V 292.401	0.8655	ppb	0.1593	18.4	24.0755
Zn 206.200	195.233	ppb	3.0865	676.6	346.274

680-92626-a-33-b (Samp) **8/1/2013, 6:28:49 AM** **Rack 4, Tube 22**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	-0.0559u	-0.2670u	0.0009u
Al 308.215	607.102	619.477	604.984
As 188.980	4.6548	2.1513	-0.5369u
B 249.678	150.317	152.854	149.547
Ba 389.178	15.6629	16.2391	15.8416
Be 313.042	0.0557	0.0479	0.0553
Ca 370.602	4724	4824	4710
Cd 226.502	0.3534	0.3620	0.2725
Co 228.615	0.4637	0.4488	1.0043
Cr 267.716	6.5999	6.7619	6.6415
Cu 324.754	64.4238	66.7635	65.0411
Fe 271.441	1633.85	1662.84	1625.90
K 766.491	406.683	416.306	410.029
Mg 279.078	775.664	784.049	764.517
Mn 257.610	76.1102	77.5527	75.8296
Mo 202.032	0.7088	0.7286	0.7505
Na 330.237	962.300	1037.31	900.968
Ni 231.604	48.3073	49.8320	47.2706
Pb 220.353	9.5037	6.6922	9.0592
Sb 206.834	99.6311	106.459	104.741
Se 196.026	3.2026	8.4562	-2.0512u
Sn 189.925	9.0670	8.2797	7.7771
Sr 216.596	9.3329	9.2448	9.4597
Ti 334.941	40.5882	41.6412	40.8877
Tl 190.794	-0.8111u	2.3098	1.2371
V 292.401	2.3381	2.6114	2.5237
Zn 206.200	322.415	326.756	320.192

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1073	ppb	0.1411	131.5	-14.6609
Al 308.215	610.521	ppb	7.8277	1.3	1834.28
As 188.980	2.0898	ppb	2.5964	124.2	-7.1153
B 249.678	150.906	ppb	1.7304	1.1	2701.54
Ba 389.178	15.9145	ppb	0.2950	1.9	403.593
Be 313.042	0.0530	ppb	0.0044	8.3	-174.933
Ca 370.602	4753	ppb	62.08	1.3	14975
Cd 226.502	0.3293	ppb	0.0494	15.0	31.5594
Co 228.615	0.6390	ppb	0.3165	49.5	-3.8596
Cr 267.716	6.6678	ppb	0.0842	1.3	446.221
Cu 324.754	65.4095	ppb	1.2125	1.9	4406.84
Fe 271.441	1640.86	ppb	19.4449	1.2	3158.45
K 766.491	411.006	ppb	4.8856	1.2	14006.5
Mg 279.078	774.743	ppb	9.7984	1.3	2243.54
Mn 257.610	76.4975	ppb	0.9245	1.2	20758.8
Mo 202.032	0.7293	ppb	0.0208	2.9	12.0486
Na 330.237	966.859	ppb	68.2846	7.1	88.3935
Ni 231.604	48.4700	ppb	1.2885	2.7	183.888
Pb 220.353	8.4184	ppb	1.5113	18.0	32.3752
Sb 206.834	103.610	ppb	3.5517	3.4	176.650
Se 196.026	3.2025	ppb	5.2537	164.0	2.2401
Sn 189.925	8.3746	ppb	0.6502	7.8	1.8101
Sr 216.596	9.3458	ppb	0.1080	1.2	166.398
Ti 334.941	41.0390	ppb	0.5425	1.3	13044.6
Tl 190.794	0.9119	ppb	1.5857	173.9	-9.1036
V 292.401	2.4911	ppb	0.1396	5.6	72.2491
Zn 206.200	323.121	ppb	3.3385	677.0	569.134

680-92626-a-35-b (Samp) **8/1/2013, 6:33:27 AM** **Rack 4, Tube 23**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	0.0093	-0.1588u	0.1601
Al 308.215	90.9776	91.0962	94.2054
As 188.980	2.5339	-2.0730u	1.0425
B 249.678	119.627	119.343	120.732
Ba 389.178	2.7375	3.1532	3.7419
Be 313.042	0.0107	0.0182	0.0185
Ca 370.602	2370	2365	2396
Cd 226.502	0.1796	0.1656	0.1311
Co 228.615	0.7128	0.3162	0.7419
Cr 267.716	1.3522	1.3609	1.4449
Cu 324.754	16.1372	15.8766	15.9284
Fe 271.441	221.401	223.093	224.973
K 766.491	179.083	176.688	178.562
Mg 279.078	112.647	112.664	111.834
Mn 257.610	4.5789	4.5152	4.5591
Mo 202.032	0.1663	0.3245	-0.0794u
Na 330.237	868.500	981.066	771.962
Ni 231.604	48.5501	46.7447	48.0662
Pb 220.353	3.1703	0.2765	2.9958
Sb 206.834	93.8458	89.6890	92.9635
Se 196.026	-3.0112u	2.7471	-0.1245u
Sn 189.925	6.5378	5.7314	7.7106
Sr 216.596	4.6800	4.7894	4.3184
Ti 334.941	62.0047	64.3855	67.6879
Tl 190.794	0.5040	1.1806	-2.6356u
V 292.401	-0.1351u	0.0017	0.1274
Zn 206.200	262.316	261.934	265.509

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0035	ppb	0.1595	4529.8	-5.2218
Al 308.215	92.0931	ppb	1.8303	2.0	305.165
As 188.980	0.5011	ppb	2.3507	469.1	-8.5370
B 249.678	119.901	ppb	0.7337	0.6	2171.92
Ba 389.178	3.2108	ppb	0.5047	15.7	65.6421
Be 313.042	0.0158	ppb	0.0044	27.9	-250.748
Ca 370.602	2377	ppb	16.61	0.7	7561
Cd 226.502	0.1588	ppb	0.0250	15.7	16.5183
Co 228.615	0.5903	ppb	0.2378	40.3	-3.9528
Cr 267.716	1.3860	ppb	0.0512	3.7	111.937
Cu 324.754	15.9807	ppb	0.1379	0.9	1266.92
Fe 271.441	223.156	ppb	1.7869	0.8	442.921
K 766.491	178.111	ppb	1.2596	0.7	6174.62
Mg 279.078	112.382	ppb	0.4744	0.4	353.577
Mn 257.610	4.5510	ppb	0.0326	0.7	1313.45
Mo 202.032	0.1371	ppb	0.2035	148.4	7.0724
Na 330.237	873.843	ppb	104.654	12.0	84.9046
Ni 231.604	47.7870	ppb	0.9345	2.0	181.182
Pb 220.353	2.1475	ppb	1.6227	75.6	19.3345
Sb 206.834	92.1661	ppb	2.1901	2.4	157.643
Se 196.026	-0.1296	ppb	2.8792	2222.1	0.2501
Sn 189.925	6.6600	ppb	0.9952	14.9	-0.1053
Sr 216.596	4.5960	ppb	0.2465	5.4	84.8102
Ti 334.941	64.6927	ppb	2.8540	4.4	20589.3
Tl 190.794	-0.3170	ppb	2.0363	642.4	-10.7191
V 292.401	-0.0020	ppb	0.1313	6472.9	-2.1257
Zn 206.200	263.253	ppb	1.9633	678.7	464.809

680-92626-a-37-b (Samp) **8/1/2013, 6:38:05 AM** **Rack 4, Tube 24**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.1899	0.1561	0.1783
Al 308.215	122.757	118.196	117.460
As 188.980	-1.6408u	3.2985	4.0562
B 249.678	126.444	126.847	126.356
Ba 389.178	3.6563	4.3719	3.6014
Be 313.042	0.0206	0.0214	0.0212
Ca 370.602	2128	2123	2125
Cd 226.502	0.1722	0.1742	0.1555
Co 228.615	0.9358	0.9876	0.6203
Cr 267.716	1.1989	1.2306	1.2428
Cu 324.754	9.0039	9.1422	9.0901
Fe 271.441	298.543	301.025	300.798
K 766.491	225.994	226.323	225.916
Mg 279.078	108.735	105.409	106.768
Mn 257.610	6.8027	6.7446	6.7133
Mo 202.032	0.6843	0.7642	0.6909
Na 330.237	817.874	849.423	964.544
Ni 231.604	22.1376	20.4725	21.9576
Pb 220.353	1.5704	1.9553	1.8475
Sb 206.834	79.7723	81.3059	84.7406
Se 196.026	-0.2991u	6.9659	1.5611
Sn 189.925	10.8281	6.7148	9.4878
Sr 216.596	3.9794	4.1847	4.2661
Ti 334.941	28.5647	28.3574	28.4550
Tl 190.794	-0.9931u	0.3658	2.2949
V 292.401	0.2688	0.3236	-0.0249u
Zn 206.200	217.619	219.728	221.325

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1748	ppb	0.0172	9.8	9.5892
Al 308.215	119.471	ppb	2.8694	2.4	385.923
As 188.980	1.9047	ppb	3.0937	162.4	-7.2708
B 249.678	126.549	ppb	0.2618	0.2	2286.01
Ba 389.178	3.8765	ppb	0.4299	11.1	83.2439
Be 313.042	0.0210	ppb	0.0004	2.0	-240.323
Ca 370.602	2125	ppb	2.877	0.1	6737
Cd 226.502	0.1673	ppb	0.0103	6.1	17.3140
Co 228.615	0.8479	ppb	0.1988	23.4	-1.3059
Cr 267.716	1.2241	ppb	0.0227	1.9	101.657
Cu 324.754	9.0787	ppb	0.0698	0.8	828.602
Fe 271.441	300.122	ppb	1.3723	0.5	590.371
K 766.491	226.078	ppb	0.2160	0.1	7787.67
Mg 279.078	106.971	ppb	1.6720	1.6	338.086
Mn 257.610	6.7535	ppb	0.0453	0.7	1908.60
Mo 202.032	0.7131	ppb	0.0443	6.2	11.9938
Na 330.237	877.281	ppb	77.2015	8.8	85.8054
Ni 231.604	21.5226	ppb	0.9139	4.2	78.8198
Pb 220.353	1.7911	ppb	0.1986	11.1	18.6317
Sb 206.834	81.9396	ppb	2.5441	3.1	140.753
Se 196.026	2.7426	ppb	3.7739	137.6	1.9432
Sn 189.925	9.0102	ppb	2.0978	23.3	2.5181
Sr 216.596	4.1434	ppb	0.1477	3.6	78.0044
Ti 334.941	28.4590	ppb	0.1037	0.4	9026.44
Tl 190.794	0.5559	ppb	1.6522	297.2	-9.4527
V 292.401	0.1892	ppb	0.1874	99.1	2.9137
Zn 206.200	219.557	ppb	1.8585	0.8	388.663

680-92626-a-39-b (Samp) **8/1/2013, 6:51:59 AM** **Rack 4, Tube 27**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	-0.0168u	0.2832	0.0278
Al 308.215	169.771	163.433	165.316
As 188.980	-0.6606u	0.5165	0.2708
B 249.678	317.429	309.921	309.028
Ba 389.178	5.5788	5.2371	4.9079
Be 313.042	0.0293	0.0298	0.0256
Ca 370.602	4355	4228	4237
Cd 226.502	0.1223	0.2881	0.0567
Co 228.615	0.5869	1.0472	0.2104
Cr 267.716	1.9945	2.0787	2.0144
Cu 324.754	7.1670	6.7439	6.5967
Fe 271.441	403.626	396.209	391.391
K 766.491	380.901	372.771	367.096
Mg 279.078	180.554	173.483	169.724
Mn 257.610	9.6377	9.2939	9.2884
Mo 202.032	0.8890	0.9202	0.4508
Na 330.237	2017.23	1859.91	1925.99
Ni 231.604	16.9030	16.8082	15.3797
Pb 220.353	1.4344	-0.6345u	2.0837
Sb 206.834	152.727	148.618	146.388
Se 196.026	4.0158	6.5877	6.3450
Sn 189.925	8.3471	8.5006	14.4818
Sr 216.596	8.2837	7.4836	8.1072
Ti 334.941	84.7022	81.2110	80.6939
Tl 190.794	0.7279	-0.8688u	-1.7912u
V 292.401	0.0553	0.3363	0.4739
Zn 206.200	454.006	446.118	443.838

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0980	ppb	0.1619	165.1	2.7801
Al 308.215	166.173	ppb	3.2548	2.0	523.684
As 188.980	0.0422	ppb	0.6209	1469.7	-8.9530
B 249.678	312.126	ppb	4.6143	1.5	5475.95
Ba 389.178	5.2413	ppb	0.3355	6.4	119.447
Be 313.042	0.0282	ppb	0.0023	8.0	-225.114
Ca 370.602	4273	ppb	70.62	1.7	13573
Cd 226.502	0.1557	ppb	0.1192	76.6	17.0721
Co 228.615	0.6149	ppb	0.4191	68.2	-3.1274
Cr 267.716	2.0292	ppb	0.0440	2.2	152.695
Cu 324.754	6.8359	ppb	0.2961	4.3	686.185
Fe 271.441	397.075	ppb	6.1636	1.6	776.062
K 766.491	373.589	ppb	6.9388	1.9	12748.3
Mg 279.078	174.587	ppb	5.4985	3.1	531.112
Mn 257.610	9.4066	ppb	0.2001	2.1	2626.24
Mo 202.032	0.7533	ppb	0.2625	34.8	12.3317
Na 330.237	1934.38	ppb	78.9937	4.1	135.501
Ni 231.604	16.3636	ppb	0.8534	5.2	58.7167
Pb 220.353	0.9612	ppb	1.4195	147.7	16.8970
Sb 206.834	149.244	ppb	3.2154	2.2	251.858
Se 196.026	5.6495	ppb	1.4200	25.1	3.6569
Sn 189.925	10.4432	ppb	3.4984	33.5	4.1194
Sr 216.596	7.9582	ppb	0.4204	5.3	142.318
Ti 334.941	82.2023	ppb	2.1803	2.7	26177.3
Tl 190.794	-0.6440	ppb	1.2745	197.9	-11.2165
V 292.401	0.2885	ppb	0.2133	73.9	6.7841
Zn 206.200	447.988	ppb	5.3356	680.2	786.743

680-92626-a-41-b (Samp) **8/1/2013, 6:56:37 AM** **Rack 4, Tube 28**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.0876	-0.1967u	-0.1031u
Al 308.215	320.003	314.446	314.428
As 188.980	0.8145	0.2954	3.2927
B 249.678	259.283	259.330	257.553
Ba 389.178	11.8933	11.3111	11.2496
Be 313.042	0.0370	0.0358	0.0311
Ca 370.602	5296	5287	5235
Cd 226.502	0.2634	0.1614	0.2779
Co 228.615	0.8532	1.1047	0.7803
Cr 267.716	3.5924	3.5495	3.6653
Cu 324.754	8.9809	8.6347	8.4350
Fe 271.441	706.407	702.456	700.790
K 766.491	534.248	535.490	534.377
Mg 279.078	428.691	428.918	425.898
Mn 257.610	34.5906	34.6241	34.2401
Mo 202.032	-0.0314u	0.7355	0.2540
Na 330.237	1829.05	1874.62	1719.33
Ni 231.604	16.0006	14.5029	14.6923
Pb 220.353	4.7187	2.9708	1.6502
Sb 206.834	129.066	126.391	127.562
Se 196.026	5.0840	-4.6219u	6.2585
Sn 189.925	11.7919	14.6809	14.2147
Sr 216.596	9.3030	9.5705	9.1423
Ti 334.941	85.3838	88.8736	82.1527
Tl 190.794	0.7708	-0.6907u	-2.4737u
V 292.401	0.7923	0.7479	0.7992
Zn 206.200	428.131	429.285	422.218

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0708	ppb	0.1449	204.8	-11.7305
Al 308.215	316.292	ppb	3.2136	1.0	966.459
As 188.980	1.4675	ppb	1.6018	109.1	-7.6680
B 249.678	258.722	ppb	1.0124	0.4	4557.18
Ba 389.178	11.4847	ppb	0.3552	3.1	284.689
Be 313.042	0.0346	ppb	0.0031	9.0	-211.722
Ca 370.602	5273	ppb	33.02	0.6	16722
Cd 226.502	0.2342	ppb	0.0635	27.1	22.5673
Co 228.615	0.9127	ppb	0.1702	18.6	1.2438
Cr 267.716	3.6024	ppb	0.0586	1.6	252.272
Cu 324.754	8.6836	ppb	0.2762	3.2	803.630
Fe 271.441	703.218	ppb	2.8850	0.4	1362.50
K 766.491	534.705	ppb	0.6829	0.1	18166.3
Mg 279.078	427.836	ppb	1.6818	0.4	1253.74
Mn 257.610	34.4849	ppb	0.2127	0.6	9403.89
Mo 202.032	0.3194	ppb	0.3876	121.4	8.6009
Na 330.237	1807.67	ppb	79.8263	4.4	129.334
Ni 231.604	15.0653	ppb	0.8156	5.4	53.6648
Pb 220.353	3.1133	ppb	1.5392	49.4	21.3507
Sb 206.834	127.673	ppb	1.3410	1.1	216.298
Se 196.026	2.2402	ppb	5.9717	266.6	1.6570
Sn 189.925	13.5625	ppb	1.5510	11.4	7.6019
Sr 216.596	9.3386	ppb	0.2163	2.3	165.977
Ti 334.941	85.4700	ppb	3.3613	3.9	27221.4
Tl 190.794	-0.7979	ppb	1.6249	203.7	-11.4847
V 292.401	0.7798	ppb	0.0278	3.6	21.6568
Zn 206.200	426.545	ppb	3.7908	0.9	749.371

680-92626-a-43-b (Samp) **8/1/2013, 7:01:15 AM** **Rack 4, Tube 29**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.1901u	-0.0222u	0.0682
Al 308.215	1452.18	1457.07	1457.05
As 188.980	4.9146	7.4801	5.9739
B 249.678	241.890	241.357	242.411
Ba 389.178	32.5021	32.9169	32.7498
Be 313.042	0.0953	0.0981	0.1019
Ca 370.602	9530	9557	9587
Cd 226.502	0.5277	0.4247	0.4209
Co 228.615	1.9790	1.1778	1.8480
Cr 267.716	11.3374	11.4873	11.5670
Cu 324.754	35.1438	34.8972	35.1052
Fe 271.441	3180.81	3177.76	3200.08
K 766.491	937.403	938.316	948.138
Mg 279.078	1325.72	1330.63	1332.33
Mn 257.610	136.561	136.745	137.323
Mo 202.032	1.1967	1.1835	1.1756
Na 330.237	1831.97	1833.54	1707.28
Ni 231.604	60.4625	57.7902	60.5410
Pb 220.353	26.4358	24.5949	29.3604
Sb 206.834	135.964	133.090	136.086
Se 196.026	4.5252	-2.8126u	1.6678
Sn 189.925	15.2794	14.4589	14.1421
Sr 216.596	16.6739	16.9542	17.0349
Ti 334.941	122.464	122.191	119.847
Tl 190.794	-1.3341u	-0.5401u	2.3667
V 292.401	4.7677	4.9528	4.9302
Zn 206.200	510.834	505.500	511.119

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0480	ppb	0.1311	272.9	-9.6245
Al 308.215	1455.43	ppb	2.8154	0.2	4326.46
As 188.980	6.1229	ppb	1.2892	21.1	-3.4837
B 249.678	241.886	ppb	0.5269	0.2	4261.86
Ba 389.178	32.7230	ppb	0.2087	0.6	849.249
Be 313.042	0.0985	ppb	0.0033	3.4	-81.4269
Ca 370.602	9558	ppb	28.36	0.3	30144
Cd 226.502	0.4577	ppb	0.0606	13.2	44.8587
Co 228.615	1.6683	ppb	0.4298	25.8	13.1300
Cr 267.716	11.4639	ppb	0.1166	1.0	750.092
Cu 324.754	35.0487	ppb	0.1327	0.4	2479.08
Fe 271.441	3186.22	ppb	12.1045	0.4	6118.65
K 766.491	941.286	ppb	5.9519	0.6	31839.0
Mg 279.078	1329.56	ppb	3.4340	0.3	3826.56
Mn 257.610	136.876	ppb	0.3976	0.3	37078.7
Mo 202.032	1.1853	ppb	0.0107	0.9	15.8521
Na 330.237	1790.93	ppb	72.4484	4.0	126.419
Ni 231.604	59.5979	ppb	1.5660	2.6	227.303
Pb 220.353	26.7970	ppb	2.4032	9.0	70.2459
Sb 206.834	135.047	ppb	1.6953	1.3	228.658
Se 196.026	1.1268	ppb	3.6987	328.2	1.0412
Sn 189.925	14.6268	ppb	0.5870	4.0	8.7922
Sr 216.596	16.8877	ppb	0.1894	1.1	294.913
Ti 334.941	121.500	ppb	1.4385	1.2	38724.5
Tl 190.794	0.1642	ppb	1.9483	1186.6	-10.3743
V 292.401	4.8836	ppb	0.1009	2.1	145.456
Zn 206.200	509.151	ppb	3.1654	682.6	893.324

mb 680-286996/1-a (Samp) **8/1/2013, 7:05:53 AM** **Rack 4, Tube 30**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	0.0329	-0.1666u	-0.0690u
Al 308.215	53.9324	49.5754	52.2818
As 188.980	-2.0020u	1.4007	5.3126
B 249.678	1.6097	1.6845	2.2403
Ba 389.178	4.0227	4.1001	3.9883
Be 313.042	0.0267	0.0194	0.0220
Ca 370.602	3647	3528	3690
Cd 226.502	0.2512	0.2498	0.3647
Co 228.615	0.6447	0.4665	0.0931
Cr 267.716	0.7923	0.5341	0.6717
Cu 324.754	0.3201	0.5748	0.2367
Fe 271.441	10.5626	10.9847	17.2864
K 766.491	161.529	155.688	160.187
Mg 279.078	243.846	235.869	246.274
Mn 257.610	1.1292	1.0869	1.1243
Mo 202.032	-0.3457u	0.2810	-0.2042u
Na 330.237	1140.65	966.803	951.474
Ni 231.604	3.5374	2.5919	3.0323
Pb 220.353	-0.4161u	-0.4432u	2.7586
Sb 206.834	135.391	129.514	139.850
Se 196.026	-3.0892u	1.7589	6.8451
Sn 189.925	9.7394	11.0154	13.1799
Sr 216.596	9.5435	9.3558	10.0137
Ti 334.941	73.8049	72.8357	74.1678
Tl 190.794	0.5288	1.9071	-1.8723u
V 292.401	0.0123	-0.1175u	-0.1100u
Zn 206.200	135.167	128.441	133.163

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0676	ppb	0.0998	147.7	-11.6375
Al 308.215	51.9299	ppb	2.1997	4.2	186.692
As 188.980	1.5704	ppb	3.6603	233.1	-7.5691
B 249.678	1.8448	ppb	0.3445	18.7	142.966
Ba 389.178	4.0370	ppb	0.0573	1.4	87.3967
Be 313.042	0.0227	ppb	0.0037	16.3	-236.265
Ca 370.602	3622	ppb	83.68	2.3	11531
Cd 226.502	0.2886	ppb	0.0659	22.9	22.6556
Co 228.615	0.4014	ppb	0.2815	70.1	-6.4059
Cr 267.716	0.6661	ppb	0.1292	19.4	66.4152
Cu 324.754	0.3772	ppb	0.1762	46.7	275.802
Fe 271.441	12.9446	ppb	3.7660	29.1	40.2515
K 766.491	159.134	ppb	3.0595	1.9	5536.47
Mg 279.078	241.996	ppb	5.4439	2.2	723.734
Mn 257.610	1.1135	ppb	0.0232	2.1	385.489
Mo 202.032	-0.0896	ppb	0.3286	366.6	5.1452
Na 330.237	1019.64	ppb	105.073	10.3	94.1729
Ni 231.604	3.0539	ppb	0.4731	15.5	6.8309
Pb 220.353	0.6331	ppb	1.8408	290.8	16.1966
Sb 206.834	134.918	ppb	5.1842	3.8	228.196
Se 196.026	1.8383	ppb	4.9676	270.2	1.4076
Sn 189.925	11.3116	ppb	1.7393	15.4	5.0879
Sr 216.596	9.6376	ppb	0.3389	3.5	170.081
Ti 334.941	73.6028	ppb	0.6886	0.9	23433.4
Tl 190.794	0.1878	ppb	1.9126	1018.2	-9.9607
V 292.401	-0.0717	ppb	0.0728	101.6	-3.9868
Zn 206.200	132.257	ppb	3.4535	2.6	226.524

lcs 680-286996/2-a (Samp) **8/1/2013, 7:10:32 AM** **Rack 4, Tube 31**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	49.3487	49.5642	49.2566
Al 308.215	4584.87	4536.35	4521.27
As 188.980	99.1651	98.5317	103.046
B 249.678	186.065	185.244	184.841
Ba 389.178	106.198	105.221	105.844
Be 313.042	50.9453	50.7340	50.7857
Ca 370.602	8637	8549	8529
Cd 226.502	49.0689	48.7963	49.0382
Co 228.615	51.1599	51.1474	50.2660
Cr 267.716	104.638	104.077	104.063
Cu 324.754	103.855	103.549	103.328
Fe 271.441	4871.57	4843.38	4844.39
K 766.491	4712.59	4692.58	4713.09
Mg 279.078	4982.70	4950.52	4950.24
Mn 257.610	516.740	513.449	513.487
Mo 202.032	97.7255	98.8529	98.2051
Na 330.237	5854.47	5726.14	5745.35
Ni 231.604	101.663	101.033	99.1882
Pb 220.353	50.4277	47.2067	48.5627
Sb 206.834	221.917	217.943	219.595
Se 196.026	96.5840	101.723	110.153
Sn 189.925	211.989	212.897	210.879
Sr 216.596	111.696	111.128	111.408
Ti 334.941	178.487	184.356	179.088
Tl 190.794	37.9345	37.6545	37.7254
V 292.401	100.247	99.4150	99.5329
Zn 206.200	234.025	230.548	226.138

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	49.3898	ppb	0.1579	0.3	4254.67
Al 308.215	4547.50	ppb	33.2335	0.7	13441.5
As 188.980	100.247	ppb	2.4438	2.4	81.4833
B 249.678	185.384	ppb	0.6238	0.3	3286.59
Ba 389.178	105.754	ppb	0.4950	0.5	2781.93
Be 313.042	50.8217	ppb	0.1102	0.2	102437
Ca 370.602	8572	ppb	57.25	0.7	26927
Cd 226.502	48.9678	ppb	0.1493	0.3	2664.71
Co 228.615	50.8578	ppb	0.5125	1.0	713.435
Cr 267.716	104.259	ppb	0.3283	0.3	6610.93
Cu 324.754	103.577	ppb	0.2646	0.3	6834.43
Fe 271.441	4853.11	ppb	15.9941	0.3	9319.65
K 766.491	4706.09	ppb	11.7002	0.2	158443
Mg 279.078	4961.16	ppb	18.6603	0.4	14187.6
Mn 257.610	514.559	ppb	1.8894	0.4	139140
Mo 202.032	98.2612	ppb	0.5658	0.6	845.843
Na 330.237	5775.32	ppb	69.2163	1.2	330.305
Ni 231.604	100.628	ppb	1.2861	1.3	387.115
Pb 220.353	48.7324	ppb	1.6172	3.3	115.309
Sb 206.834	219.818	ppb	1.9966	0.9	368.682
Se 196.026	102.820	ppb	6.8510	6.7	61.0709
Sn 189.925	211.922	ppb	1.0104	0.5	229.028
Sr 216.596	111.411	ppb	0.2840	0.3	1872.21
Ti 334.941	180.644	ppb	3.2289	1.8	57617.3
Tl 190.794	37.7715	ppb	0.1456	0.4	44.3654
V 292.401	99.7318	ppb	0.4505	0.5	2984.21
Zn 206.200	230.237	ppb	3.9527	1.7	406.887

lcsd 680-286996/3-a (Samp) **8/1/2013, 7:15:10 AM** **Rack 4, Tube 32**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	43.0774	43.4139	43.0735
Al 308.215	4000.11	3988.41	3970.57
As 188.980	89.5589	90.8653	86.3690
B 249.678	162.089	164.092	162.583
Ba 389.178	91.1556	90.6592	91.6040
Be 313.042	43.9863	43.9090	43.9656
Ca 370.602	7520	7485	7500
Cd 226.502	42.8890	42.7389	42.9123
Co 228.615	44.7011	43.3492	44.2194
Cr 267.716	91.3918	91.1975	91.2996
Cu 324.754	89.5309	88.5158	89.2104
Fe 271.441	4221.81	4221.71	4211.11
K 766.491	4049.19	4079.10	4087.01
Mg 279.078	4331.64	4315.28	4325.99
Mn 257.610	448.262	446.886	446.537
Mo 202.032	86.0339	85.1521	85.6775
Na 330.237	4896.93	4844.29	4729.77
Ni 231.604	86.8892	88.1321	87.2336
Pb 220.353	44.4212	44.1122	43.1145
Sb 206.834	194.888	197.226	198.481
Se 196.026	90.9183	89.9178	91.4224
Sn 189.925	181.771	181.993	183.667
Sr 216.596	97.5751	97.6305	97.2766
Ti 334.941	191.529	190.998	202.904
Tl 190.794	32.8124	35.8166	32.7077
V 292.401	86.5529	86.9204	86.0491
Zn 206.200	200.688	198.964	199.995

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	43.1883	ppb	0.1955	0.5	3719.76
Al 308.215	3986.36	ppb	14.8725	0.4	11787.1
As 188.980	88.9310	ppb	2.3130	2.6	71.2717
B 249.678	162.921	ppb	1.0435	0.6	2901.96
Ba 389.178	91.1396	ppb	0.4726	0.5	2395.02
Be 313.042	43.9537	ppb	0.0401	0.1	88555.5
Ca 370.602	7502	ppb	17.83	0.2	23586
Cd 226.502	42.8468	ppb	0.0941	0.2	2332.39
Co 228.615	44.0899	ppb	0.6852	1.6	617.674
Cr 267.716	91.2963	ppb	0.0972	0.1	5792.03
Cu 324.754	89.0857	ppb	0.5189	0.6	5913.49
Fe 271.441	4218.21	ppb	6.1484	0.1	8102.42
K 766.491	4071.77	ppb	19.9441	0.5	137112
Mg 279.078	4324.30	ppb	8.3118	0.2	12370.6
Mn 257.610	447.228	ppb	0.9119	0.2	120944
Mo 202.032	85.6212	ppb	0.4436	0.5	737.798
Na 330.237	4823.67	ppb	85.4656	1.8	282.971
Ni 231.604	87.4183	ppb	0.6417	0.7	335.633
Pb 220.353	43.8826	ppb	0.6829	1.6	105.289
Sb 206.834	196.865	ppb	1.8232	0.9	330.751
Se 196.026	90.7528	ppb	0.7658	0.8	53.9392
Sn 189.925	182.477	ppb	1.0367	0.6	196.158
Sr 216.596	97.4941	ppb	0.1904	0.2	1639.41
Ti 334.941	195.144	ppb	6.7261	3.4	62241.1
Tl 190.794	33.7789	ppb	1.7655	5.2	38.6080
V 292.401	86.5075	ppb	0.4374	0.5	2588.67
Zn 206.200	199.882	ppb	0.8675	0.4	354.036

680-92662-a-1-d (Samp) **8/1/2013, 7:19:48 AM** **Rack 4, Tube 33**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	-0.3579u	-0.3970u	-0.2189u
Al 308.215	687.005	688.040	705.352
As 188.980	4.6301	3.5689	4.6722
B 249.678	67.6412	67.3458	68.7992
Ba 389.178	50.4364	50.3150	51.3621
Be 313.042	0.0730	0.0607	0.0738
Ca 370.602	7335	7362	7536
Cd 226.502	0.1699	0.4106	0.1764
Co 228.615	1.7649	1.5422	1.9061
Cr 267.716	10.1474	10.0734	10.3863
Cu 324.754	11.7494	12.6191	12.2503
Fe 271.441	2092.14	2088.12	2129.72
K 766.491	333.773	328.936	334.309
Mg 279.078	852.418	853.738	874.736
Mn 257.610	101.525	101.399	103.726
Mo 202.032	0.6964	0.8835	1.5277
Na 330.237	642.947	502.828	606.543
Ni 231.604	18.2863	19.7586	18.1957
Pb 220.353	11.2144	9.1053	12.3600
Sb 206.834	54.2278	53.9482	61.1866
Se 196.026	6.1352	3.1291	7.3118
Sn 189.925	8.1465	9.9049	7.9007
Sr 216.596	15.4413	15.0945	15.5397
Ti 334.941	186.688	186.176	190.925
Tl 190.794	1.1857	-1.0916u	2.0183
V 292.401	3.4501	3.4446	3.4406
Zn 206.200	312.247	314.686	320.304

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.3246	ppb	0.0936	28.8	-33.6041
Al 308.215	693.465	ppb	10.3067	1.5	2078.85
As 188.980	4.2904	ppb	0.6252	14.6	-5.1340
B 249.678	67.9288	ppb	0.7682	1.1	1274.01
Ba 389.178	50.7045	ppb	0.5727	1.1	1318.45
Be 313.042	0.0692	ppb	0.0073	10.6	-141.171
Ca 370.602	7411	ppb	109.3	1.5	23453
Cd 226.502	0.2523	ppb	0.1371	54.4	29.3423
Co 228.615	1.7378	ppb	0.1835	10.6	15.9312
Cr 267.716	10.2024	ppb	0.1636	1.6	670.057
Cu 324.754	12.2063	ppb	0.4365	3.6	1027.89
Fe 271.441	2103.33	ppb	22.9469	1.1	4044.48
K 766.491	332.339	ppb	2.9595	0.9	11361.1
Mg 279.078	860.297	ppb	12.5219	1.5	2487.36
Mn 257.610	102.217	ppb	1.3089	1.3	27708.5
Mo 202.032	1.0358	ppb	0.4361	42.1	14.6407
Na 330.237	584.106	ppb	72.7039	12.4	68.5637
Ni 231.604	18.7469	ppb	0.8774	4.7	68.0535
Pb 220.353	10.8932	ppb	1.6509	15.2	37.4106
Sb 206.834	56.4542	ppb	4.1008	7.3	98.8784
Se 196.026	5.5254	ppb	2.1570	39.0	3.6180
Sn 189.925	8.6507	ppb	1.0931	12.6	2.1196
Sr 216.596	15.3585	ppb	0.2339	1.5	268.638
Ti 334.941	187.930	ppb	2.6066	1.4	59921.0
Tl 190.794	0.7042	ppb	1.6099	228.6	-9.4615
V 292.401	3.4451	ppb	0.0048	0.1	103.319
Zn 206.200	315.746	ppb	4.1314	1.3	556.272

680-92662-a-1-d SD^5 (Samp) **8/1/2013, 7:24:26 AM** **Rack 4, Tube 34**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.2142	-0.0346u	-0.0435u
Al 308.215	144.825	148.482	138.376
As 188.980	0.1155	-0.5503u	0.1108
B 249.678	14.3501	15.0085	13.7043
Ba 389.178	11.2718	11.1991	10.8958
Be 313.042	0.0187	0.0315	0.0220
Ca 370.602	1548	1599	1511
Cd 226.502	0.0754	0.1361	0.1947
Co 228.615	0.7913	0.8330	0.7152
Cr 267.716	2.2966	2.2866	2.0903
Cu 324.754	2.6486	2.2195	2.3903
Fe 271.441	442.127	453.784	430.577
K 766.491	68.7212	72.3531	67.3980
Mg 279.078	182.026	184.971	178.052
Mn 257.610	21.8795	22.5851	21.4317
Mo 202.032	0.4927	-0.1317u	0.3737
Na 330.237	45.8677	105.542	91.4108
Ni 231.604	4.0007	4.1666	4.3530
Pb 220.353	2.6813	2.5262	1.8925
Sb 206.834	13.4629	10.8394	12.9422
Se 196.026	-4.9763u	1.8983	6.7849
Sn 189.925	1.4465	2.4395	2.8562
Sr 216.596	3.0173	3.1313	2.9690
Ti 334.941	39.0182	39.6156	38.2265
Tl 190.794	1.3679	1.4652	0.7719
V 292.401	0.2776	0.4877	0.5635
Zn 206.200	65.7393	67.5318	64.5234

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0454	ppb	0.1463	322.3	-1.4336
Al 308.215	143.894	ppb	5.1171	3.6	457.938
As 188.980	-0.1080	ppb	0.3830	354.7	-9.0893
B 249.678	14.3543	ppb	0.6521	4.5	356.993
Ba 389.178	11.1222	ppb	0.1994	1.8	274.016
Be 313.042	0.0241	ppb	0.0066	27.6	-234.181
Ca 370.602	1553	ppb	44.50	2.9	4915
Cd 226.502	0.1354	ppb	0.0597	44.1	16.1775
Co 228.615	0.7798	ppb	0.0597	7.7	-1.9515
Cr 267.716	2.2245	ppb	0.1163	5.2	164.965
Cu 324.754	2.4195	ppb	0.2160	8.9	405.679
Fe 271.441	442.163	ppb	11.6034	2.6	862.435
K 766.491	69.4908	ppb	2.5656	3.7	2521.90
Mg 279.078	181.683	ppb	3.4722	1.9	551.123
Mn 257.610	21.9654	ppb	0.5815	2.6	6018.84
Mo 202.032	0.2449	ppb	0.3315	135.4	7.9803
Na 330.237	80.9402	ppb	31.1846	38.5	47.8741
Ni 231.604	4.1734	ppb	0.1763	4.2	11.2064
Pb 220.353	2.3667	ppb	0.4179	17.7	19.8248
Sb 206.834	12.4149	ppb	1.3890	11.2	26.0257
Se 196.026	1.2356	ppb	5.9085	478.2	1.0604
Sn 189.925	2.2474	ppb	0.7242	32.2	-5.0318
Sr 216.596	3.0392	ppb	0.0833	2.7	60.1379
Ti 334.941	38.9534	ppb	0.6968	1.8	12375.9
Tl 190.794	1.2016	ppb	0.3754	31.2	-8.5323
V 292.401	0.4429	ppb	0.1481	33.4	10.7992
Zn 206.200	65.9315	ppb	1.5134	687.3	120.938

680-92662-a-1-d PDS (Samp) **8/1/2013, 7:29:16 AM** **Rack 4, Tube 35**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	18.5685	18.4550	18.7491
Al 308.215	2574.66	2574.33	2553.01
As 188.980	205.757	208.978	208.410
B 249.678	537.207	537.412	536.903
Ba 389.178	255.084	254.924	254.332
Be 313.042	50.1339	50.2777	50.1870
Ca 370.602	9369	9369	9339
Cd 226.502	50.4878	50.7378	50.6167
Co 228.615	204.691	206.394	203.594
Cr 267.716	215.592	216.086	215.683
Cu 324.754	217.523	216.968	219.317
Fe 271.441	4047.22	4067.16	4042.73
K 766.491	2313.22	2315.10	2309.56
Mg 279.078	2840.66	2840.24	2839.58
Mn 257.610	308.261	308.669	307.696
Mo 202.032	204.855	204.988	205.365
Na 330.237	2452.50	2440.41	2450.74
Ni 231.604	217.093	216.442	215.731
Pb 220.353	211.095	211.798	210.747
Sb 206.834	244.491	244.775	241.661
Se 196.026	200.488	201.287	198.530
Sn 189.925	210.977	218.953	210.848
Sr 216.596	220.058	220.294	219.765
Ti 334.941	381.509	381.457	380.941
Tl 190.794	199.820	200.125	202.910
V 292.401	204.462	205.632	204.213
Zn 206.200	521.561	523.150	519.129

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	18.5909	ppb	0.1483	0.8	1590.78
Al 308.215	2567.33	ppb	12.4082	0.5	7591.17
As 188.980	207.715	ppb	1.7194	0.8	178.453
B 249.678	537.174	ppb	0.2560	0.0	9335.92
Ba 389.178	254.780	ppb	0.3960	0.2	6689.81
Be 313.042	50.1995	ppb	0.0727	0.1	101158
Ca 370.602	9359	ppb	17.09	0.2	29589
Cd 226.502	50.6141	ppb	0.1250	0.2	2750.13
Co 228.615	204.893	ppb	1.4110	0.7	2913.20
Cr 267.716	215.787	ppb	0.2633	0.1	13651.1
Cu 324.754	217.936	ppb	1.2275	0.6	14099.9
Fe 271.441	4052.37	ppb	13.0072	0.3	7809.40
K 766.491	2312.63	ppb	2.8165	0.1	77955.1
Mg 279.078	2840.16	ppb	0.5475	0.0	8136.18
Mn 257.610	308.209	ppb	0.4886	0.2	83377.0
Mo 202.032	205.069	ppb	0.2648	0.1	1759.20
Na 330.237	2447.88	ppb	6.5283	0.3	158.146
Ni 231.604	216.422	ppb	0.6814	0.3	837.913
Pb 220.353	211.213	ppb	0.5351	0.3	448.991
Sb 206.834	243.643	ppb	1.7215	0.7	407.349
Se 196.026	200.102	ppb	1.4181	0.7	118.320
Sn 189.925	213.593	ppb	4.6425	2.2	230.892
Sr 216.596	220.039	ppb	0.2653	0.1	3679.77
Ti 334.941	381.302	ppb	0.3144	0.1	121641
Tl 190.794	200.952	ppb	1.7033	0.8	283.613
V 292.401	204.769	ppb	0.7580	0.4	6130.01
Zn 206.200	521.280	ppb	2.0253	0.4	913.599

680-92662-a-3-b (Samp) **8/1/2013, 7:34:06 AM** **Rack 4, Tube 36**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	-0.2852u	0.1544	-0.0788u
Al 308.215	1938.11	1933.70	1928.67
As 188.980	6.2498	8.6619	9.9879
B 249.678	149.509	148.144	148.712
Ba 389.178	80.2102	80.8825	80.1873
Be 313.042	0.1686	0.1581	0.1675
Ca 370.602	14728	14691	14695
Cd 226.502	0.5755	0.4905	0.3997
Co 228.615	1.4522	2.0754	2.0762
Cr 267.716	26.5141	26.4573	26.5635
Cu 324.754	27.2281	26.8238	27.2002
Fe 271.441	5635.45	5626.43	5631.65
K 766.491	995.628	998.184	1002.37
Mg 279.078	2626.34	2618.22	2616.88
Mn 257.610	296.278	295.512	295.227
Mo 202.032	1.8729	1.9009	1.8579
Na 330.237	978.447	1032.79	1010.44
Ni 231.604	13.4844	13.5100	14.2216
Pb 220.353	32.7800	29.5010	30.5219
Sb 206.834	79.7030	77.3818	76.0448
Se 196.026	-6.8274u	8.5132	2.1690
Sn 189.925	63.0147	65.2012	62.2358
Sr 216.596	29.3152	28.9280	29.5621
Ti 334.941	330.220	327.835	325.197
Tl 190.794	0.6704	-1.7036u	2.7591
V 292.401	9.4068	9.5359	8.8879
Zn 206.200	400.479	398.478	399.881

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0699	ppb	0.2199	314.7	-11.3545
Al 308.215	1933.49	ppb	4.7241	0.2	5736.33
As 188.980	8.2999	ppb	1.8951	22.8	-1.5463
B 249.678	148.788	ppb	0.6854	0.5	2655.65
Ba 389.178	80.4266	ppb	0.3949	0.5	2110.10
Be 313.042	0.1648	ppb	0.0058	3.5	54.2032
Ca 370.602	14704	ppb	20.44	0.1	46393
Cd 226.502	0.4886	ppb	0.0880	18.0	56.6281
Co 228.615	1.8679	ppb	0.3600	19.3	21.8218
Cr 267.716	26.5116	ppb	0.0532	0.2	1702.41
Cu 324.754	27.0840	ppb	0.2258	0.8	1974.10
Fe 271.441	5631.18	ppb	4.5320	0.1	10801.9
K 766.491	998.729	ppb	3.4055	0.3	33770.7
Mg 279.078	2620.48	ppb	5.1168	0.2	7509.78
Mn 257.610	295.672	ppb	0.5435	0.2	79993.5
Mo 202.032	1.8772	ppb	0.0218	1.2	21.6171
Na 330.237	1007.23	ppb	27.3147	2.7	87.1320
Ni 231.604	13.7387	ppb	0.4184	3.0	48.6416
Pb 220.353	30.9343	ppb	1.6779	5.4	78.8584
Sb 206.834	77.7099	ppb	1.8510	2.4	134.331
Se 196.026	1.2849	ppb	7.7084	599.9	1.1908
Sn 189.925	63.4839	ppb	1.5374	2.4	63.3323
Sr 216.596	29.2684	ppb	0.3196	1.1	506.998
Ti 334.941	327.751	ppb	2.5125	0.8	104550
Tl 190.794	0.5753	ppb	2.2329	388.1	-10.1037
V 292.401	9.2769	ppb	0.3429	3.7	280.588
Zn 206.200	399.613	ppb	1.0274	0.3	702.398

680-92662-a-5-b (Samp) **8/1/2013, 7:48:02 AM** **Rack 4, Tube 39**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	-0.0398u	0.0590	0.5161
Al 308.215	1563.10	1553.47	1587.69
As 188.980	8.5606	4.5172	5.8185
B 249.678	186.388	185.887	189.502
Ba 389.178	46.4475	46.0915	45.8482
Be 313.042	0.1421	0.1450	0.1452
Ca 370.602	8771	8731	8904
Cd 226.502	0.5450	0.5043	0.6597
Co 228.615	1.4499	2.0352	1.8042
Cr 267.716	17.2987	17.1937	17.6196
Cu 324.754	26.3197	26.4282	26.5436
Fe 271.441	4169.49	4164.24	4228.52
K 766.491	860.104	859.696	876.418
Mg 279.078	1660.23	1656.83	1685.34
Mn 257.610	213.431	212.547	216.870
Mo 202.032	1.6521	2.2137	1.6776
Na 330.237	1386.36	1277.27	1419.65
Ni 231.604	22.5747	21.4517	22.2706
Pb 220.353	21.2026	19.4941	21.1777
Sb 206.834	89.8686	91.2779	94.3937
Se 196.026	5.8551	1.8132	-1.1238u
Sn 189.925	26.8195	30.6835	28.8347
Sr 216.596	17.7521	18.0590	17.8058
Ti 334.941	183.267	182.532	184.293
Tl 190.794	1.1833	0.6977	1.8308
V 292.401	6.2261	6.1664	6.2146
Zn 206.200	409.118	405.650	413.309

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1784	ppb	0.2965	166.2	10.2630
Al 308.215	1568.09	ppb	17.6486	1.1	4658.69
As 188.980	6.2988	ppb	2.0640	32.8	-3.3377
B 249.678	187.259	ppb	1.9586	1.0	3320.40
Ba 389.178	46.1291	ppb	0.3014	0.7	1204.01
Be 313.042	0.1441	ppb	0.0018	1.2	10.4143
Ca 370.602	8802	ppb	90.46	1.0	27701
Cd 226.502	0.5697	ppb	0.0806	14.1	55.0270
Co 228.615	1.7631	ppb	0.2948	16.7	16.2389
Cr 267.716	17.3707	ppb	0.2219	1.3	1123.96
Cu 324.754	26.4305	ppb	0.1120	0.4	1932.09
Fe 271.441	4187.42	ppb	35.6912	0.9	8036.42
K 766.491	865.406	ppb	9.5389	1.1	29287.3
Mg 279.078	1667.47	ppb	15.5719	0.9	4789.98
Mn 257.610	214.283	ppb	2.2840	1.1	57994.4
Mo 202.032	1.8478	ppb	0.3171	17.2	21.4568
Na 330.237	1361.09	ppb	74.4755	5.5	105.738
Ni 231.604	22.0990	ppb	0.5808	2.6	81.1825
Pb 220.353	20.6248	ppb	0.9793	4.7	57.6152
Sb 206.834	91.8467	ppb	2.3155	2.5	157.468
Se 196.026	2.1815	ppb	3.5040	160.6	1.6893
Sn 189.925	28.7792	ppb	1.9326	6.7	24.5894
Sr 216.596	17.8723	ppb	0.1639	0.9	313.578
Ti 334.941	183.364	ppb	0.8843	0.5	58468.4
Tl 190.794	1.2373	ppb	0.5684	45.9	-8.9510
V 292.401	6.2024	ppb	0.0316	0.5	185.852
Zn 206.200	409.359	ppb	3.8352	0.9	719.404

680-92662-a-7-b (Samp) **8/1/2013, 7:52:41 AM** **Rack 4, Tube 40**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.1108	0.1209	-0.0471u
Al 308.215	559.743	541.530	557.489
As 188.980	-2.1687u	2.7034	1.2807
B 249.678	175.398	173.118	176.564
Ba 389.178	15.5578	14.8720	16.1721
Be 313.042	0.0399	0.0408	0.0381
Ca 370.602	4145	4083	4174
Cd 226.502	0.5054	0.3385	0.4129
Co 228.615	0.8655	0.5181	1.0000
Cr 267.716	6.2185	5.8982	5.9835
Cu 324.754	11.0844	10.6305	11.0854
Fe 271.441	1358.32	1342.09	1362.00
K 766.491	428.271	421.908	430.765
Mg 279.078	574.485	568.944	578.774
Mn 257.610	64.2603	63.3852	64.5762
Mo 202.032	0.8045	0.2590	0.5997
Na 330.237	1223.68	1068.79	1147.10
Ni 231.604	15.4162	13.6056	14.1208
Pb 220.353	5.5817	4.4508	5.5055
Sb 206.834	87.9828	89.6817	88.3246
Se 196.026	1.7840	6.2948	3.6266
Sn 189.925	13.2783	13.9186	13.6174
Sr 216.596	8.4416	8.6391	8.5282
Ti 334.941	60.4107	58.6306	60.2533
Tl 190.794	1.9024	-1.2728u	3.0719
V 292.401	1.8434	2.0537	1.8566
Zn 206.200	276.007	271.323	278.103

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0615	ppb	0.0942	153.0	-0.1111
Al 308.215	552.921	ppb	9.9289	1.8	1664.41
As 188.980	0.6052	ppb	2.5053	414.0	-8.4525
B 249.678	175.027	ppb	1.7524	1.0	3116.86
Ba 389.178	15.5340	ppb	0.6504	4.2	392.534
Be 313.042	0.0396	ppb	0.0014	3.5	-202.126
Ca 370.602	4134	ppb	46.34	1.1	13045
Cd 226.502	0.4189	ppb	0.0836	20.0	35.2156
Co 228.615	0.7945	ppb	0.2487	31.3	-1.1277
Cr 267.716	6.0334	ppb	0.1659	2.7	406.057
Cu 324.754	10.9335	ppb	0.2624	2.4	946.768
Fe 271.441	1354.14	ppb	10.5929	0.8	2609.27
K 766.491	426.981	ppb	4.5672	1.1	14543.7
Mg 279.078	574.068	ppb	4.9280	0.9	1670.73
Mn 257.610	64.0739	ppb	0.6170	1.0	17400.0
Mo 202.032	0.5544	ppb	0.2756	49.7	10.5707
Na 330.237	1146.52	ppb	77.4459	6.8	98.1354
Ni 231.604	14.3809	ppb	0.9329	6.5	51.0178
Pb 220.353	5.1793	ppb	0.6321	12.2	25.6754
Sb 206.834	88.6630	ppb	0.8986	1.0	151.964
Se 196.026	3.9018	ppb	2.2680	58.1	2.6473
Sn 189.925	13.6048	ppb	0.3203	2.4	7.6480
Sr 216.596	8.5363	ppb	0.0990	1.2	153.307
Ti 334.941	59.7648	ppb	0.9855	1.6	19019.3
Tl 190.794	1.2338	ppb	2.2482	182.2	-8.5979
V 292.401	1.9179	ppb	0.1178	6.1	55.3621
Zn 206.200	275.144	ppb	3.4716	691.3	485.525

680-92662-a-9-b (Samp) **8/1/2013, 7:57:20 AM** **Rack 4, Tube 41**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	-0.0704u	0.1363	0.3499
Al 308.215	232.129	230.580	224.652
As 188.980	3.0116	1.7144	-1.4084u
B 249.678	223.179	222.627	222.069
Ba 389.178	7.2585	7.0179	7.5591
Be 313.042	0.0362	0.0374	0.0332
Ca 370.602	3911	3902	3905
Cd 226.502	0.2576	0.2803	0.3136
Co 228.615	0.7885	0.3464	0.0970
Cr 267.716	2.7517	3.0792	2.8523
Cu 324.754	21.3187	21.3864	21.5133
Fe 271.441	477.387	482.569	475.364
K 766.491	315.209	312.174	311.822
Mg 279.078	323.228	326.257	325.306
Mn 257.610	26.3630	26.3431	26.3315
Mo 202.032	0.3055	0.6225	0.2599
Na 330.237	1353.75	1349.71	1288.26
Ni 231.604	85.2837	84.1433	84.5893
Pb 220.353	5.2731	0.4427	5.0518
Sb 206.834	100.344	100.805	103.447
Se 196.026	0.9283	-0.1245u	2.0856
Sn 189.925	18.0577	17.2595	12.5537
Sr 216.596	7.2009	7.4793	7.4409
Ti 334.941	92.1522	92.0058	91.9151
Tl 190.794	2.6816	1.5416	0.6918
V 292.401	0.6681	0.8014	0.8239
Zn 206.200	322.576	315.984	323.920

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1386	ppb	0.2102	151.7	6.4044
Al 308.215	229.120	ppb	3.9465	1.7	709.329
As 188.980	1.1059	ppb	2.2720	205.4	-7.9927
B 249.678	222.625	ppb	0.5553	0.2	3937.19
Ba 389.178	7.2785	ppb	0.2712	3.7	173.535
Be 313.042	0.0356	ppb	0.0022	6.1	-210.224
Ca 370.602	3906	ppb	4.290	0.1	12407
Cd 226.502	0.2838	ppb	0.0282	9.9	24.3097
Co 228.615	0.4106	ppb	0.3502	85.3	-5.7550
Cr 267.716	2.8944	ppb	0.1678	5.8	207.453
Cu 324.754	21.4061	ppb	0.0988	0.5	1611.61
Fe 271.441	478.440	ppb	3.7161	0.8	931.887
K 766.491	313.068	ppb	1.8623	0.6	10713.0
Mg 279.078	324.930	ppb	1.5493	0.5	960.049
Mn 257.610	26.3459	ppb	0.0160	0.1	7203.60
Mo 202.032	0.3960	ppb	0.1975	49.9	9.2696
Na 330.237	1330.58	ppb	36.6989	2.8	106.880
Ni 231.604	84.6721	ppb	0.5747	0.7	324.949
Pb 220.353	3.5892	ppb	2.7272	76.0	22.3053
Sb 206.834	101.532	ppb	1.6740	1.6	173.130
Se 196.026	0.9631	ppb	1.1055	114.8	0.9013
Sn 189.925	15.9570	ppb	2.9742	18.6	10.2737
Sr 216.596	7.3737	ppb	0.1509	2.0	130.804
Ti 334.941	92.0244	ppb	0.1196	0.1	29312.6
Tl 190.794	1.6384	ppb	0.9984	60.9	-7.9017
V 292.401	0.7645	ppb	0.0842	11.0	21.3222
Zn 206.200	320.827	ppb	4.2474	692	565.139

680-92662-a-11-b (Samp) **8/1/2013, 8:01:58 AM** **Rack 4, Tube 42**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.0616	0.2439	0.0834
Al 308.215	377.393	383.778	382.997
As 188.980	-0.0904u	2.7839	-1.1585u
B 249.678	167.806	168.791	171.340
Ba 389.178	13.0422	13.0951	13.2545
Be 313.042	0.0340	0.0315	0.0391
Ca 370.602	3383	3405	3426
Cd 226.502	0.2681	0.2438	0.2900
Co 228.615	0.8150	0.8663	0.6096
Cr 267.716	5.5506	5.4278	5.3713
Cu 324.754	14.0350	14.3318	14.3901
Fe 271.441	1011.80	1010.80	1024.23
K 766.491	281.571	282.676	286.432
Mg 279.078	520.516	524.399	524.850
Mn 257.610	56.7314	57.1280	57.4933
Mo 202.032	0.8048	0.4093	0.7429
Na 330.237	691.978	599.497	875.087
Ni 231.604	32.5950	32.9705	33.8410
Pb 220.353	7.4578	7.8326	6.2436
Sb 206.834	69.5037	63.4956	64.9634
Se 196.026	5.7183	6.1773	1.0407
Sn 189.925	9.3066	11.1103	9.4357
Sr 216.596	6.1067	6.4546	6.3458
Ti 334.941	37.6538	38.5844	39.2445
Tl 190.794	2.5194	1.5282	0.2515
V 292.401	1.4507	1.4572	1.3078
Zn 206.200	216.842	216.247	220.136

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1296	ppb	0.0995	76.8	5.8405
Al 308.215	381.389	ppb	3.4831	0.9	1158.45
As 188.980	0.5117	ppb	2.0390	398.5	-8.5347
B 249.678	169.312	ppb	1.8237	1.1	3019.43
Ba 389.178	13.1306	ppb	0.1105	0.8	328.716
Be 313.042	0.0349	ppb	0.0039	11.2	-211.933
Ca 370.602	3404	ppb	21.36	0.6	10745
Cd 226.502	0.2673	ppb	0.0231	8.6	25.6609
Co 228.615	0.7636	ppb	0.1358	17.8	-2.1795
Cr 267.716	5.4499	ppb	0.0917	1.7	369.014
Cu 324.754	14.2523	ppb	0.1904	1.3	1157.44
Fe 271.441	1015.61	ppb	7.4808	0.7	1960.83
K 766.491	283.560	ppb	2.5482	0.9	9720.70
Mg 279.078	523.255	ppb	2.3828	0.5	1525.77
Mn 257.610	57.1176	ppb	0.3811	0.7	15519.4
Mo 202.032	0.6523	ppb	0.2127	32.6	11.4290
Na 330.237	722.187	ppb	140.257	19.4	77.7870
Ni 231.604	33.1355	ppb	0.6392	1.9	124.103
Pb 220.353	7.1780	ppb	0.8306	11.6	29.7725
Sb 206.834	65.9876	ppb	3.1323	4.7	114.512
Se 196.026	4.3121	ppb	2.8424	65.9	2.8855
Sn 189.925	9.9509	ppb	1.0062	10.1	3.5687
Sr 216.596	6.3023	ppb	0.1780	2.8	114.924
Ti 334.941	38.4942	ppb	0.7992	2.1	12231.2
Tl 190.794	1.4330	ppb	1.1369	79.3	-8.2715
V 292.401	1.4052	ppb	0.0844	6.0	39.5459
Zn 206.200	217.742	ppb	2.0951	0.9	385.489

680-92662-a-13-b (Samp) **8/1/2013, 8:06:37 AM** **Rack 4, Tube 43**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	-0.0588u	0.5014	0.2147
Al 308.215	1675.76	1694.21	1673.43
As 188.980	7.5109	7.7051	6.9229
B 249.678	124.833	126.366	123.236
Ba 389.178	67.5257	68.0970	66.5845
Be 313.042	0.1326	0.1311	0.1312
Ca 370.602	11781	11856	11715
Cd 226.502	31.3797	31.5228	31.1584
Co 228.615	1.3500	1.6099	1.8382
Cr 267.716	18.7816	18.9657	18.5645
Cu 324.754	31.6018	33.2665	32.1373
Fe 271.441	4411.75	4437.66	4374.91
K 766.491	780.886	792.989	782.023
Mg 279.078	2730.01	2758.18	2719.26
Mn 257.610	216.022	217.864	214.682
Mo 202.032	0.7983	1.5250	0.6607
Na 330.237	1259.92	1306.70	1275.21
Ni 231.604	51.9549	54.0561	51.6829
Pb 220.353	22.6535	23.6772	21.1608
Sb 206.834	200.113	201.616	202.220
Se 196.026	1.9749	3.5676	5.1969
Sn 189.925	11.2022	11.7826	11.9117
Sr 216.596	20.7787	21.6269	20.9696
Ti 334.941	105.814	105.196	103.805
Tl 190.794	1.9293	0.8403	-0.4844u
V 292.401	6.3843	6.6118	6.4285
Zn 206.200	420.302	425.011	417.017

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.2191	ppb	0.2801	127.9	13.5998
Al 308.215	1681.13	ppb	11.3841	0.7	4992.12
As 188.980	7.3796	ppb	0.4073	5.5	-2.3631
B 249.678	124.811	ppb	1.5651	1.3	2246.37
Ba 389.178	67.4024	ppb	0.7637	1.1	1766.35
Be 313.042	0.1317	ppb	0.0008	0.6	-13.5102
Ca 370.602	11784	ppb	70.57	0.6	37102
Cd 226.502	31.3537	ppb	0.1836	0.6	1714.10
Co 228.615	1.5994	ppb	0.2442	15.3	11.7796
Cr 267.716	18.7706	ppb	0.2008	1.1	1211.85
Cu 324.754	32.3352	ppb	0.8498	2.6	2307.17
Fe 271.441	4408.10	ppb	31.5332	0.7	8459.08
K 766.491	785.299	ppb	6.6835	0.9	26593.4
Mg 279.078	2735.82	ppb	20.0983	0.7	7840.65
Mn 257.610	216.189	ppb	1.5976	0.7	58520.5
Mo 202.032	0.9947	ppb	0.4644	46.7	14.1468
Na 330.237	1280.61	ppb	23.8568	1.9	101.743
Ni 231.604	52.5646	ppb	1.2988	2.5	199.929
Pb 220.353	22.4972	ppb	1.2655	5.6	61.5372
Sb 206.834	201.316	ppb	1.0849	0.5	338.195
Se 196.026	3.5798	ppb	1.6111	45.0	2.5145
Sn 189.925	11.6322	ppb	0.3779	3.2	5.4504
Sr 216.596	21.1251	ppb	0.4450	2.1	367.874
Ti 334.941	104.938	ppb	1.0290	1.0	33446.6
Tl 190.794	0.7618	ppb	1.2087	158.7	-9.6681
V 292.401	6.4749	ppb	0.1206	1.9	192.815
Zn 206.200	420.777	ppb	4.0181	1.0	739.299

680-92662-a-15-b (Samp) **8/1/2013, 8:11:15 AM** **Rack 4, Tube 44**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	-0.0680u	0.1037	-0.0776u
Al 308.215	1524.44	1456.32	1406.30
As 188.980	6.4225	6.3646	10.3413
B 249.678	307.387	290.079	283.548
Ba 389.178	100.786	95.3288	93.2652
Be 313.042	0.1285	0.1183	0.1188
Ca 370.602	15444	14611	14266
Cd 226.502	75.0158	70.7753	69.3333
Co 228.615	1.5110	1.7892	1.1482
Cr 267.716	17.4332	16.6562	16.0377
Cu 324.754	146.578	136.740	134.874
Fe 271.441	3892.66	3668.94	3588.76
K 766.491	1007.55	952.625	932.978
Mg 279.078	1582.86	1481.60	1453.82
Mn 257.610	140.756	132.955	130.187
Mo 202.032	1.2821	0.9928	0.2988
Na 330.237	3204.90	2951.55	3062.71
Ni 231.604	576.562	546.787	530.938
Pb 220.353	30.2449	30.0478	31.0964
Sb 206.834	776.452	740.749	719.132
Se 196.026	-0.1442u	2.7277	7.4963
Sn 189.925	26.0153	23.9998	24.9501
Sr 216.596	35.3736	33.2399	33.0858
Ti 334.941	268.375	264.551	256.490
Tl 190.794	0.6269	0.3351	-2.9151u
V 292.401	5.4029	4.9454	4.9725
Zn 206.200	607.817	569.072	560.988

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0140	ppb	0.1020	729.2	-7.5232
Al 308.215	1462.35	ppb	59.3034	4.1	4346.84
As 188.980	7.7095	ppb	2.2794	29.6	-2.0584
B 249.678	293.671	ppb	12.3190	4.2	5150.80
Ba 389.178	96.4599	ppb	3.8858	4.0	2524.85
Be 313.042	0.1219	ppb	0.0057	4.7	-32.3603
Ca 370.602	14774	ppb	605.5	4.1	46724
Cd 226.502	71.7081	ppb	2.9539	4.1	3884.84
Co 228.615	1.4828	ppb	0.3215	21.7	14.4804
Cr 267.716	16.7091	ppb	0.6992	4.2	1080.94
Cu 324.754	139.397	ppb	6.2883	4.5	9106.83
Fe 271.441	3716.79	ppb	157.496	4.2	7134.94
K 766.491	964.384	ppb	38.6512	4.0	32615.8
Mg 279.078	1506.09	ppb	67.9197	4.5	4330.82
Mn 257.610	134.633	ppb	5.4807	4.1	36476.2
Mo 202.032	0.8579	ppb	0.5054	58.9	13.0200
Na 330.237	3073.05	ppb	126.990	4.1	189.302
Ni 231.604	551.429	ppb	23.1634	4.2	2144.21
Pb 220.353	30.4630	ppb	0.5573	1.8	77.7359
Sb 206.834	745.444	ppb	28.9469	3.9	1236.26
Se 196.026	3.3599	ppb	3.8593	114.9	2.3582
Sn 189.925	24.9884	ppb	1.0083	4.0	20.3622
Sr 216.596	33.8998	ppb	1.2787	3.8	567.573
Ti 334.941	263.139	ppb	6.0669	2.3	83925.0
Tl 190.794	-0.6510	ppb	1.9661	302.0	-11.6121
V 292.401	5.1069	ppb	0.2567	5.0	154.415
Zn 206.200	579.292	ppb	25.0313	6953	1015.54

680-92662-a-17-b (Samp) **8/1/2013, 8:15:54 AM** **Rack 4, Tube 45**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	0.1841	0.2119	0.1496
Al 308.215	573.188	575.241	575.228
As 188.980	1.9493	5.1325	2.8531
B 249.678	282.462	280.312	281.088
Ba 389.178	14.8273	15.0652	15.2926
Be 313.042	0.0466	0.0546	0.0556
Ca 370.602	6797	6783	6790
Cd 226.502	0.3300	0.2048	0.2869
Co 228.615	0.8408	0.5560	0.2740
Cr 267.716	7.2211	7.2056	7.0649
Cu 324.754	31.1912	31.2440	31.0183
Fe 271.441	1354.29	1347.85	1344.08
K 766.491	578.161	577.854	575.162
Mg 279.078	676.038	674.790	673.063
Mn 257.610	67.6662	67.5304	67.4325
Mo 202.032	0.5873	0.8112	0.3853
Na 330.237	2073.42	2067.53	1922.51
Ni 231.604	95.4650	94.4474	93.3023
Pb 220.353	6.8980	6.6930	9.4763
Sb 206.834	174.996	171.139	172.059
Se 196.026	-3.3087u	9.0111	2.0359
Sn 189.925	25.7673	24.5824	23.9366
Sr 216.596	14.1239	13.9026	13.8222
Ti 334.941	137.342	137.207	135.889
Tl 190.794	-1.8300u	-0.3966u	2.2893
V 292.401	1.9918	1.9240	2.1920
Zn 206.200	517.447	516.530	515.568

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1819	ppb	0.0312	17.2	10.0124
Al 308.215	574.552	ppb	1.1812	0.2	1728.20
As 188.980	3.3117	ppb	1.6404	49.5	-6.0084
B 249.678	281.288	ppb	1.0889	0.4	4943.56
Ba 389.178	15.0617	ppb	0.2327	1.5	380.423
Be 313.042	0.0523	ppb	0.0049	9.5	-175.626
Ca 370.602	6790	ppb	7.335	0.1	21514
Cd 226.502	0.2739	ppb	0.0636	23.2	27.3673
Co 228.615	0.5569	ppb	0.2834	50.9	-2.3761
Cr 267.716	7.1638	ppb	0.0860	1.2	477.668
Cu 324.754	31.1511	ppb	0.1181	0.4	2230.86
Fe 271.441	1348.74	ppb	5.1588	0.4	2598.93
K 766.491	577.059	ppb	1.6501	0.3	19590.6
Mg 279.078	674.630	ppb	1.4942	0.2	1957.80
Mn 257.610	67.5430	ppb	0.1174	0.2	18338.1
Mo 202.032	0.5946	ppb	0.2130	35.8	10.9142
Na 330.237	2021.15	ppb	85.4772	4.2	138.393
Ni 231.604	94.4049	ppb	1.0820	1.1	362.908
Pb 220.353	7.6891	ppb	1.5512	20.2	30.7849
Sb 206.834	172.731	ppb	2.0141	1.2	290.744
Se 196.026	2.5794	ppb	6.1779	239.5	1.8692
Sn 189.925	24.7621	ppb	0.9285	3.7	20.1045
Sr 216.596	13.9496	ppb	0.1563	1.1	241.997
Ti 334.941	136.813	ppb	0.8027	0.6	43607.3
Tl 190.794	0.0209	ppb	2.0911	10004.2	-10.3716
V 292.401	2.0359	ppb	0.1394	6.8	60.1930
Zn 206.200	516.515	ppb	0.9397	0.2	906.154

680-92662-a-19-b (Samp) **8/1/2013, 8:20:33 AM** **Rack 4, Tube 46**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	-0.1872u	0.6016	0.4654
Al 308.215	827.368	833.059	840.519
As 188.980	3.5567	6.2079	4.8743
B 249.678	294.338	294.952	295.728
Ba 389.178	32.6433	33.2610	32.5636
Be 313.042	0.0676	0.0677	0.0710
Ca 370.602	7611	7635	7682
Cd 226.502	0.5135	0.6854	0.4643
Co 228.615	0.8181	0.8106	0.9626
Cr 267.716	8.5946	8.7666	8.7360
Cu 324.754	46.6760	46.8599	47.4678
Fe 271.441	1981.94	1985.10	1992.98
K 766.491	1624.03	1626.69	1630.22
Mg 279.078	1007.31	1012.18	1008.71
Mn 257.610	86.5009	86.5448	86.6167
Mo 202.032	0.9511	0.9171	0.3677
Na 330.237	2427.04	2546.93	2715.87
Ni 231.604	148.151	149.364	149.155
Pb 220.353	13.7264	13.7038	11.3177
Sb 206.834	154.973	154.584	158.486
Se 196.026	-3.1118u	2.7189	6.6557
Sn 189.925	142.954	141.480	143.623
Sr 216.596	15.5853	15.6367	15.3213
Ti 334.941	243.666	245.507	246.328
Tl 190.794	2.0031	3.4563	-0.3223u
V 292.401	3.5213	3.2054	2.9677
Zn 206.200	503.439	507.363	508.599

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.2933	ppb	0.4216	143.8	19.6568
Al 308.215	833.649	ppb	6.5952	0.8	2492.40
As 188.980	4.8796	ppb	1.3256	27.2	-4.5982
B 249.678	295.006	ppb	0.6967	0.2	5177.86
Ba 389.178	32.8226	ppb	0.3817	1.2	848.987
Be 313.042	0.0688	ppb	0.0019	2.8	-142.099
Ca 370.602	7643	ppb	35.68	0.5	24227
Cd 226.502	0.5544	ppb	0.1161	20.9	45.1151
Co 228.615	0.8638	ppb	0.0857	9.9	4.9483
Cr 267.716	8.6991	ppb	0.0917	1.1	575.190
Cu 324.754	47.0012	ppb	0.4144	0.9	3237.79
Fe 271.441	1986.67	ppb	5.6866	0.3	3820.92
K 766.491	1626.98	ppb	3.1086	0.2	54897.8
Mg 279.078	1009.40	ppb	2.5068	0.2	2913.39
Mn 257.610	86.5541	ppb	0.0585	0.1	23478.7
Mo 202.032	0.7453	ppb	0.3275	43.9	12.1631
Na 330.237	2563.28	ppb	145.107	5.7	165.264
Ni 231.604	148.890	ppb	0.6482	0.4	575.279
Pb 220.353	12.9159	ppb	1.3842	10.7	41.5151
Sb 206.834	156.014	ppb	2.1493	1.4	263.232
Se 196.026	2.0876	ppb	4.9142	235.4	1.5876
Sn 189.925	142.686	ppb	1.0964	0.8	151.740
Sr 216.596	15.5144	ppb	0.1692	1.1	267.697
Ti 334.941	245.167	ppb	1.3633	0.6	78187.1
Tl 190.794	1.7124	ppb	1.9060	111.3	-7.9703
V 292.401	3.2315	ppb	0.2777	8.6	98.0072
Zn 206.200	506.467	ppb	2.6940	697.5	888.645

680-92662-a-21-b (Samp) **8/1/2013, 8:25:11 AM** **Rack 4, Tube 47**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.2962	0.0939	-0.0410u
Al 308.215	656.763	667.905	655.137
As 188.980	8.2971	7.3013	7.0356
B 249.678	129.222	131.895	130.767
Ba 389.178	25.2667	25.7213	24.9568
Be 313.042	0.0685	0.0641	0.0638
Ca 370.602	5099	5172	5097
Cd 226.502	0.2171	0.0748	0.0671
Co 228.615	0.3534	0.7624	0.4852
Cr 267.716	70.7330	69.9203	67.3888
Cu 324.754	23.9685	24.8291	24.6068
Fe 271.441	1141.80	1164.09	1154.61
K 766.491	464.718	476.198	475.974
Mg 279.078	420.833	424.390	422.139
Mn 257.610	24.2550	24.8942	24.5851
Mo 202.032	0.2303	0.8102	0.7086
Na 330.237	1673.70	1487.41	1418.79
Ni 231.604	79.5012	82.1182	81.5388
Pb 220.353	16.8481	15.5426	16.3882
Sb 206.834	107.860	110.731	108.008
Se 196.026	1.7832	3.9221	6.7222
Sn 189.925	362.657	378.678	369.521
Sr 216.596	13.4139	14.1350	14.2801
Ti 334.941	929.487	948.486	942.038
Tl 190.794	-0.4935u	1.9990	-1.5163u
V 292.401	1.5593	1.7323	1.6267
Zn 206.200	231.493	235.529	230.292

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1163	ppb	0.1697	145.9	4.1398
Al 308.215	659.935	ppb	6.9500	1.1	1980.05
As 188.980	7.5446	ppb	0.6650	8.8	-2.1826
B 249.678	130.628	ppb	1.3421	1.0	2354.11
Ba 389.178	25.3150	ppb	0.3846	1.5	648.689
Be 313.042	0.0655	ppb	0.0027	4.1	-149.426
Ca 370.602	5123	ppb	42.83	0.8	16673
Cd 226.502	0.1197	ppb	0.0845	70.6	18.2487
Co 228.615	0.5337	ppb	0.2087	39.1	19.6124
Cr 267.716	69.3474	ppb	1.7442	2.5	4406.06
Cu 324.754	24.4681	ppb	0.4467	1.8	1806.33
Fe 271.441	1153.50	ppb	11.1844	1.0	2225.32
K 766.491	472.296	ppb	6.5643	1.4	16067.6
Mg 279.078	422.454	ppb	1.7993	0.4	1238.55
Mn 257.610	24.5781	ppb	0.3197	1.3	6729.24
Mo 202.032	0.5830	ppb	0.3096	53.1	10.8272
Na 330.237	1526.63	ppb	131.903	8.6	114.809
Ni 231.604	81.0527	ppb	1.3746	1.7	310.858
Pb 220.353	16.2596	ppb	0.6622	4.1	47.8407
Sb 206.834	108.866	ppb	1.6165	1.5	186.337
Se 196.026	4.1425	ppb	2.4769	59.8	2.7766
Sn 189.925	370.285	ppb	8.0377	2.2	405.800
Sr 216.596	13.9430	ppb	0.4639	3.3	241.699
Ti 334.941	940.004	ppb	9.6619	1.0	299921
Tl 190.794	-0.0036	ppb	1.8082	50254.7	-10.3534
V 292.401	1.6394	ppb	0.0872	5.3	58.5235
Zn 206.200	232.438	ppb	2.7436	6983	410.828

680-92662-a-23-b (Samp) **8/1/2013, 8:29:50 AM** **Rack 4, Tube 48**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.1655u	-0.0879u	-0.4825u
Al 308.215	1119.97	1152.57	1146.96
As 188.980	3.8707	5.7980	8.7688
B 249.678	176.828	180.502	180.235
Ba 389.178	37.5593	39.4324	38.8291
Be 313.042	0.0937	0.0923	0.0918
Ca 370.602	10848	11112	11113
Cd 226.502	0.3936	0.4537	0.6398
Co 228.615	1.3879	1.1803	1.1996
Cr 267.716	12.4329	12.9616	12.8083
Cu 324.754	41.7452	42.5285	42.9584
Fe 271.441	3426.26	3514.96	3516.40
K 766.491	871.487	887.351	885.716
Mg 279.078	1474.22	1499.78	1492.71
Mn 257.610	126.407	129.301	129.360
Mo 202.032	1.1988	0.5938	0.5713
Na 330.237	2497.53	2677.35	2616.05
Ni 231.604	102.057	103.369	103.451
Pb 220.353	14.5430	11.8391	12.1952
Sb 206.834	152.512	153.444	152.800
Se 196.026	-1.6065u	0.4871	2.8947
Sn 189.925	13.9373	17.0409	18.5385
Sr 216.596	25.0190	25.7417	25.5028
Ti 334.941	124.445	127.312	127.506
Tl 190.794	0.8786	-1.0216u	-1.3534u
V 292.401	4.5777	4.5217	4.8620
Zn 206.200	409.471	416.014	417.701

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.2453	ppb	0.2090	85.2	-27.1403
Al 308.215	1139.83	ppb	17.4323	1.5	3395.50
As 188.980	6.1458	ppb	2.4675	40.1	-3.4717
B 249.678	179.188	ppb	2.0486	1.1	3183.34
Ba 389.178	38.6069	ppb	0.9561	2.5	1004.76
Be 313.042	0.0926	ppb	0.0010	1.1	-92.7230
Ca 370.602	11024	ppb	152.8	1.4	34774
Cd 226.502	0.4957	ppb	0.1283	25.9	48.1403
Co 228.615	1.2559	ppb	0.1147	9.1	7.4169
Cr 267.716	12.7343	ppb	0.2720	2.1	830.385
Cu 324.754	42.4107	ppb	0.6151	1.5	2946.77
Fe 271.441	3485.87	ppb	51.6354	1.5	6692.56
K 766.491	881.518	ppb	8.7257	1.0	29829.1
Mg 279.078	1488.90	ppb	13.1950	0.9	4281.95
Mn 257.610	128.356	ppb	1.6883	1.3	34779.7
Mo 202.032	0.7879	ppb	0.3559	45.2	12.4366
Na 330.237	2596.98	ppb	91.4163	3.5	168.248
Ni 231.604	102.959	ppb	0.7824	0.8	396.310
Pb 220.353	12.8591	ppb	1.4691	11.4	41.6118
Sb 206.834	152.919	ppb	0.4773	0.3	258.195
Se 196.026	0.5918	ppb	2.2524	380.6	0.7246
Sn 189.925	16.5055	ppb	2.3469	14.2	10.8906
Sr 216.596	25.4212	ppb	0.3682	1.4	436.911
Ti 334.941	126.421	ppb	1.7139	1.4	40295.6
Tl 190.794	-0.4988	ppb	1.2043	241.5	-11.3665
V 292.401	4.6538	ppb	0.1825	3.9	138.606
Zn 206.200	414.395	ppb	4.3472	1.0	728.192

680-92662-a-25-b (Samp) **8/1/2013, 8:43:46 AM** **Rack 4, Tube 51**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.2915u	-0.1986u	-0.0476u
Al 308.215	1384.20	1361.43	1353.42
As 188.980	6.8163	2.6635	6.0691
B 249.678	248.699	243.254	242.903
Ba 389.178	53.2960	54.5869	53.4758
Be 313.042	0.0938	0.0857	0.0808
Ca 370.602	10019	9836	9784
Cd 226.502	0.3347	0.3946	0.3403
Co 228.615	1.6183	1.3255	1.4299
Cr 267.716	16.1504	15.8630	15.6823
Cu 324.754	46.4166	45.0856	45.5939
Fe 271.441	3852.91	3777.50	3766.47
K 766.491	931.220	913.222	911.901
Mg 279.078	1285.09	1261.78	1252.86
Mn 257.610	151.629	148.350	147.887
Mo 202.032	1.4707	1.7527	1.5353
Na 330.237	1807.57	1855.30	2022.88
Ni 231.604	97.5449	97.4974	95.6568
Pb 220.353	16.1163	17.9012	16.0065
Sb 206.834	151.104	149.729	150.161
Se 196.026	7.4205	3.3534	3.1320
Sn 189.925	27.5918	24.1654	26.3737
Sr 216.596	17.0627	17.1237	16.0544
Ti 334.941	88.0629	87.0851	85.2326
Tl 190.794	3.0063	-1.1620u	1.8394
V 292.401	5.4353	5.3143	5.2925
Zn 206.200	528.525	517.993	513.269

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1792	ppb	0.1231	68.7	-20.8570
Al 308.215	1366.35	ppb	15.9660	1.2	4063.67
As 188.980	5.1830	ppb	2.2137	42.7	-4.3425
B 249.678	244.952	ppb	3.2498	1.3	4313.11
Ba 389.178	53.7862	ppb	0.6992	1.3	1403.32
Be 313.042	0.0868	ppb	0.0066	7.6	-105.030
Ca 370.602	9880	ppb	123.4	1.2	31097
Cd 226.502	0.3565	ppb	0.0331	9.3	41.9214
Co 228.615	1.4579	ppb	0.1484	10.2	9.1830
Cr 267.716	15.8986	ppb	0.2361	1.5	1030.29
Cu 324.754	45.6987	ppb	0.6717	1.5	3155.74
Fe 271.441	3798.96	ppb	47.0464	1.2	7292.28
K 766.491	918.781	ppb	10.7928	1.2	31082.2
Mg 279.078	1266.57	ppb	16.6406	1.3	3646.61
Mn 257.610	149.289	ppb	2.0400	1.4	40433.0
Mo 202.032	1.5862	ppb	0.1477	9.3	19.2449
Na 330.237	1895.25	ppb	113.077	6.0	131.477
Ni 231.604	96.8997	ppb	1.0766	1.1	372.704
Pb 220.353	16.6747	ppb	1.0636	6.4	49.5109
Sb 206.834	150.331	ppb	0.7032	0.5	253.968
Se 196.026	4.6353	ppb	2.4146	52.1	3.1143
Sn 189.925	26.0437	ppb	1.7369	6.7	21.5367
Sr 216.596	16.7469	ppb	0.6005	3.6	292.440
Ti 334.941	86.7935	ppb	1.4375	1.7	27648.6
Tl 190.794	1.2279	ppb	2.1504	175.1	-8.8869
V 292.401	5.3474	ppb	0.0769	1.4	158.508
Zn 206.200	519.929	ppb	7.8102	1.5	912.095

680-92662-a-27-b (Samp) **8/1/2013, 8:48:36 AM** **Rack 4, Tube 52**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.1905u	0.0934	0.3261
Al 308.215	1409.66	1436.76	1400.04
As 188.980	4.5227	2.9411	5.7575
B 249.678	140.206	142.800	139.825
Ba 389.178	32.0471	32.4471	32.2424
Be 313.042	0.0940	0.0826	0.0908
Ca 370.602	7661	7814	7626
Cd 226.502	0.4130	0.6006	0.4471
Co 228.615	2.2158	0.9466	1.9146
Cr 267.716	22.9150	23.4108	22.6533
Cu 324.754	29.4100	29.9270	29.1517
Fe 271.441	3968.26	4034.42	3938.54
K 766.491	874.277	890.682	862.337
Mg 279.078	1677.24	1704.98	1662.83
Mn 257.610	221.864	225.949	220.150
Mo 202.032	0.9228	1.4120	0.9783
Na 330.237	1171.04	1122.76	1077.20
Ni 231.604	48.4376	50.0100	47.7765
Pb 220.353	32.1790	31.5235	32.7909
Sb 206.834	90.5048	86.6993	86.3826
Se 196.026	-0.4561u	2.9270	7.2189
Sn 189.925	14.7933	15.6127	15.2724
Sr 216.596	14.6585	15.1157	14.4727
Ti 334.941	133.900	124.496	121.575
Tl 190.794	0.2250u	-1.2509u	-0.0328u
V 292.401	6.3033	6.1231	6.2818
Zn 206.200	406.775	412.581	405.562

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0763	ppb	0.2587	339.0	1.6713
Al 308.215	1415.48	ppb	19.0379	1.3	4208.51
As 188.980	4.4071	ppb	1.4117	32.0	-5.0446
B 249.678	140.944	ppb	1.6190	1.1	2524.72
Ba 389.178	32.2455	ppb	0.2000	0.6	839.023
Be 313.042	0.0891	ppb	0.0059	6.6	-100.991
Ca 370.602	7700	ppb	99.64	1.3	24193
Cd 226.502	0.4869	ppb	0.0999	20.5	49.7091
Co 228.615	1.6924	ppb	0.6632	39.2	13.7027
Cr 267.716	22.9930	ppb	0.3847	1.7	1478.83
Cu 324.754	29.4962	ppb	0.3947	1.3	2126.70
Fe 271.441	3980.41	ppb	49.0809	1.2	7639.90
K 766.491	875.765	ppb	14.2307	1.6	29635.7
Mg 279.078	1681.68	ppb	21.4243	1.3	4830.41
Mn 257.610	222.654	ppb	2.9792	1.3	60255.2
Mo 202.032	1.1044	ppb	0.2679	24.3	15.1106
Na 330.237	1123.67	ppb	46.9278	4.2	94.0649
Ni 231.604	48.7414	ppb	1.1473	2.4	185.014
Pb 220.353	32.1644	ppb	0.6338	2.0	81.3729
Sb 206.834	87.8622	ppb	2.2940	2.6	150.977
Se 196.026	3.2300	ppb	3.8464	119.1	2.3086
Sn 189.925	15.2262	ppb	0.4116	2.7	9.4599
Sr 216.596	14.7490	ppb	0.3309	2.2	260.260
Ti 334.941	126.657	ppb	6.4405	5.1	40372.2
Tl 190.794	-0.3529	ppb	0.7883	223.4	-11.2604
V 292.401	6.2360	ppb	0.0984	1.6	185.706
Zn 206.200	408.306	ppb	3.7517	701.9	717.543

680-92662-a-29-b (Samp) **8/1/2013, 8:53:15 AM** **Rack 4, Tube 53**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	0.0211	-0.1921u	0.2641
Al 308.215	263.033	261.124	268.801
As 188.980	3.4050	-1.6744u	2.1546
B 249.678	98.0872	100.287	100.536
Ba 389.178	9.1386	9.8129	9.5999
Be 313.042	0.0295	0.0271	0.0242
Ca 370.602	4698	4764	4785
Cd 226.502	0.1312	0.2862	0.1820
Co 228.615	0.4517	1.1297	0.4292
Cr 267.716	4.2722	4.4658	4.3248
Cu 324.754	9.5618	9.6947	9.4805
Fe 271.441	812.571	817.265	827.465
K 766.491	312.697	317.731	316.929
Mg 279.078	522.517	533.958	530.574
Mn 257.610	44.8051	45.7517	45.6221
Mo 202.032	0.6966	0.4831	0.5187
Na 330.237	693.839	810.078	610.659
Ni 231.604	27.4126	27.2559	26.0805
Pb 220.353	1.4600	3.8708	3.9985
Sb 206.834	64.2818	68.0777	65.5364
Se 196.026	5.7049	1.8741	5.4504
Sn 189.925	7.8192	6.7909	7.0763
Sr 216.596	9.3929	9.4095	9.5878
Ti 334.941	77.3571	80.5909	80.2312
Tl 190.794	0.1441	-0.4368u	0.5118
V 292.401	0.8227	1.1565	0.9686
Zn 206.200	148.116	150.013	151.678

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0310	ppb	0.2283	735.6	-2.9004
Al 308.215	264.319	ppb	3.9969	1.5	813.142
As 188.980	1.2950	ppb	2.6465	204.4	-7.8262
B 249.678	99.6367	ppb	1.3477	1.4	1822.15
Ba 389.178	9.5171	ppb	0.3447	3.6	233.488
Be 313.042	0.0269	ppb	0.0027	10.0	-227.424
Ca 370.602	4749	ppb	45.19	1.0	15049
Cd 226.502	0.1998	ppb	0.0790	39.6	21.1892
Co 228.615	0.6702	ppb	0.3981	59.4	-2.3770
Cr 267.716	4.3542	ppb	0.1001	2.3	299.812
Cu 324.754	9.5790	ppb	0.1082	1.1	860.549
Fe 271.441	819.100	ppb	7.6149	0.9	1584.43
K 766.491	315.786	ppb	2.7047	0.9	10804.4
Mg 279.078	529.016	ppb	5.8775	1.1	1542.48
Mn 257.610	45.3930	ppb	0.5132	1.1	12351.7
Mo 202.032	0.5661	ppb	0.1144	20.2	10.7045
Na 330.237	704.859	ppb	100.165	14.2	77.8112
Ni 231.604	26.9163	ppb	0.7281	2.7	99.8577
Pb 220.353	3.1098	ppb	1.4302	46.0	21.3614
Sb 206.834	65.9653	ppb	1.9340	2.9	114.454
Se 196.026	4.3431	ppb	2.1420	49.3	2.8996
Sn 189.925	7.2288	ppb	0.5309	7.3	0.5310
Sr 216.596	9.4634	ppb	0.1081	1.1	167.813
Ti 334.941	79.3931	ppb	1.7723	2.2	25282.8
Tl 190.794	0.0730	ppb	0.4783	655.1	-10.2318
V 292.401	0.9826	ppb	0.1673	17.0	27.5949
Zn 206.200	149.936	ppb	1.7823	1.2	267.327

680-92662-a-31-b (Samp) **8/1/2013, 8:57:54 AM** **Rack 4, Tube 54**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.0910	0.5078	0.3192
Al 308.215	1299.27	1294.19	1290.14
As 188.980	3.6984	2.7549	2.7393
B 249.678	255.389	256.071	257.003
Ba 389.178	32.2601	32.5958	32.0581
Be 313.042	0.0911	0.0896	0.0937
Ca 370.602	9251	9248	9233
Cd 226.502	0.3302	0.4355	0.4332
Co 228.615	1.4685	1.4129	1.9657
Cr 267.716	13.5768	13.5537	13.6527
Cu 324.754	45.0585	45.9799	45.6607
Fe 271.441	3367.67	3386.62	3374.39
K 766.491	993.497	996.465	1005.16
Mg 279.078	1554.36	1550.94	1562.74
Mn 257.610	154.212	154.349	154.553
Mo 202.032	1.3072	1.0381	0.9150
Na 330.237	1905.47	1765.93	1794.70
Ni 231.604	126.429	125.098	125.269
Pb 220.353	15.2626	17.9871	16.6159
Sb 206.834	152.748	154.056	152.318
Se 196.026	2.2200	5.7566	7.4424
Sn 189.925	22.7147	27.0156	24.9610
Sr 216.596	16.5222	16.1969	16.0948
Ti 334.941	159.786	163.904	159.771
Tl 190.794	1.0802	0.5013	1.3414
V 292.401	4.6918	4.7587	4.4553
Zn 206.200	498.257	500.714	503.932

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.3060	ppb	0.2087	68.2	21.0596
Al 308.215	1294.53	ppb	4.5765	0.4	3851.84
As 188.980	3.0642	ppb	0.5493	17.9	-6.2505
B 249.678	256.154	ppb	0.8101	0.3	4506.68
Ba 389.178	32.3047	ppb	0.2716	0.8	839.238
Be 313.042	0.0915	ppb	0.0020	2.2	-95.6784
Ca 370.602	9244	ppb	9.249	0.1	29154
Cd 226.502	0.3996	ppb	0.0601	15.0	42.5171
Co 228.615	1.6157	ppb	0.3044	18.8	13.4973
Cr 267.716	13.5944	ppb	0.0518	0.4	884.887
Cu 324.754	45.5664	ppb	0.4679	1.0	3147.17
Fe 271.441	3376.23	ppb	9.6093	0.3	6482.61
K 766.491	998.375	ppb	6.0635	0.6	33758.8
Mg 279.078	1556.01	ppb	6.0684	0.4	4472.94
Mn 257.610	154.372	ppb	0.1717	0.1	41807.4
Mo 202.032	1.0867	ppb	0.2006	18.5	14.9988
Na 330.237	1822.04	ppb	73.6766	4.0	127.919
Ni 231.604	125.599	ppb	0.7239	0.6	484.544
Pb 220.353	16.6219	ppb	1.3622	8.2	49.3199
Sb 206.834	153.041	ppb	0.9053	0.6	258.402
Se 196.026	5.1397	ppb	2.6653	51.9	3.4112
Sn 189.925	24.8971	ppb	2.1512	8.6	20.2565
Sr 216.596	16.2713	ppb	0.2232	1.4	283.080
Ti 334.941	161.154	ppb	2.3820	1.5	51380.0
Tl 190.794	0.9743	ppb	0.4299	44.1	-9.2204
V 292.401	4.6353	ppb	0.1594	3.4	138.555
Zn 206.200	500.967	ppb	2.8459	0.6	879.056

680-92662-a-33-b (Samp) **8/1/2013, 9:02:32 AM** **Rack 4, Tube 55**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.4121	0.0935	-0.1847u
Al 308.215	760.862	761.952	771.917
As 188.980	2.2725	-1.0006u	-0.0896u
B 249.678	441.959	440.511	443.742
Ba 389.178	25.5170	25.6318	26.3873
Be 313.042	0.0535	0.0636	0.0639
Ca 370.602	11029	10998	11097
Cd 226.502	0.5232	0.4727	0.5734
Co 228.615	1.2382	1.3116	1.1499
Cr 267.716	14.7490	14.8047	14.8466
Cu 324.754	41.1439	40.9566	40.8915
Fe 271.441	2511.70	2507.23	2519.16
K 766.491	849.549	841.978	846.422
Mg 279.078	1455.76	1449.51	1454.73
Mn 257.610	176.186	175.376	176.694
Mo 202.032	1.8927	2.3430	2.0902
Na 330.237	2395.05	2533.21	2521.92
Ni 231.604	94.3525	94.9520	95.0464
Pb 220.353	10.3020	8.8507	9.8887
Sb 206.834	154.755	157.557	157.304
Se 196.026	-0.8349u	2.0055	5.9307
Sn 189.925	24.6381	26.3333	26.3079
Sr 216.596	19.3370	19.1471	19.3032
Ti 334.941	84.7606	84.4082	83.8080
Tl 190.794	-1.1698u	-0.2533u	1.5275
V 292.401	4.1431	4.3155	4.2429
Zn 206.200	582.746	583.351	584.192

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1070	ppb	0.2987	279.1	3.8388
Al 308.215	764.910	ppb	6.0925	0.8	2289.59
As 188.980	0.3941	ppb	1.6893	428.6	-8.6570
B 249.678	442.071	ppb	1.6187	0.4	7704.73
Ba 389.178	25.8453	ppb	0.4728	1.8	667.886
Be 313.042	0.0603	ppb	0.0059	9.8	-158.207
Ca 370.602	11041	ppb	50.44	0.5	34883
Cd 226.502	0.5231	ppb	0.0504	9.6	45.6028
Co 228.615	1.2332	ppb	0.0810	6.6	5.8344
Cr 267.716	14.8001	ppb	0.0490	0.3	960.694
Cu 324.754	40.9973	ppb	0.1311	0.3	2856.69
Fe 271.441	2512.70	ppb	6.0292	0.2	4828.51
K 766.491	845.983	ppb	3.8045	0.4	28634.1
Mg 279.078	1453.33	ppb	3.3533	0.2	4179.26
Mn 257.610	176.085	ppb	0.6647	0.4	47669.1
Mo 202.032	2.1086	ppb	0.2257	10.7	23.7907
Na 330.237	2483.39	ppb	76.7161	3.1	160.526
Ni 231.604	94.7837	ppb	0.3763	0.4	364.418
Pb 220.353	9.6805	ppb	0.7477	7.7	35.0381
Sb 206.834	156.539	ppb	1.5502	1.0	264.139
Se 196.026	2.3671	ppb	3.3973	143.5	1.7806
Sn 189.925	25.7598	ppb	0.9715	3.8	21.2208
Sr 216.596	19.2624	ppb	0.1013	0.5	332.943
Ti 334.941	84.3256	ppb	0.4817	0.6	26861.8
Tl 190.794	0.0348	ppb	1.3715	3938.4	-10.5305
V 292.401	4.2338	ppb	0.0866	2.0	124.850
Zn 206.200	583.430	ppb	0.7263	704.1	1022.75

680-92662-a-35-b (Samp) **8/1/2013, 9:07:11 AM** **Rack 4, Tube 56**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.0458	0.0781	-0.0484u
Al 308.215	2387.74	2386.74	2393.72
As 188.980	4.8477	2.8533	6.1910
B 249.678	273.400	273.902	272.435
Ba 389.178	75.5927	75.7611	75.9813
Be 313.042	0.1828	0.1798	0.1808
Ca 370.602	23760	23736	23745
Cd 226.502	0.9462	1.2358	1.0661
Co 228.615	2.5953	2.3692	2.5062
Cr 267.716	60.9949	60.7589	60.6695
Cu 324.754	84.3946	83.0091	85.1427
Fe 271.441	9093.82	9089.82	9041.21
K 766.491	1341.16	1339.14	1333.67
Mg 279.078	4412.15	4412.94	4387.10
Mn 257.610	660.396	661.079	658.008
Mo 202.032	4.0403	4.0302	3.5005
Na 330.237	2855.16	2738.17	2959.08
Ni 231.604	145.546	143.818	142.303
Pb 220.353	46.2158	46.3099	46.2726
Sb 206.834	186.755	187.546	187.816
Se 196.026	3.2921	1.3152	11.7560
Sn 189.925	32.8215	31.0831	32.4733
Sr 216.596	44.0416	44.9427	44.1900
Ti 334.941	194.610	192.746	191.177
Tl 190.794	0.8884	0.0332u	-1.3629u
V 292.401	15.0805	15.4644	15.4010
Zn 206.200	860.746	861.473	858.928

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0252	ppb	0.0657	261.3	-2.0324
Al 308.215	2389.40	ppb	3.7758	0.2	7080.76
As 188.980	4.6307	ppb	1.6794	36.3	-4.9016
B 249.678	273.246	ppb	0.7455	0.3	4786.92
Ba 389.178	75.7784	ppb	0.1949	0.3	1998.83
Be 313.042	0.1812	ppb	0.0015	0.8	89.9014
Ca 370.602	23747	ppb	11.90	0.1	74746
Cd 226.502	1.0827	ppb	0.1455	13.4	102.873
Co 228.615	2.4902	ppb	0.1138	4.6	27.1892
Cr 267.716	60.8078	ppb	0.1681	0.3	3870.83
Cu 324.754	84.1821	ppb	1.0825	1.3	5601.89
Fe 271.441	9074.95	ppb	29.2851	0.3	17398.4
K 766.491	1337.99	ppb	3.8752	0.3	45179.6
Mg 279.078	4404.06	ppb	14.6929	0.3	12595.6
Mn 257.610	659.828	ppb	1.6129	0.2	178388
Mo 202.032	3.8570	ppb	0.3088	8.0	38.3342
Na 330.237	2850.80	ppb	110.519	3.9	172.711
Ni 231.604	143.889	ppb	1.6229	1.1	556.002
Pb 220.353	46.2661	ppb	0.0474	0.1	110.859
Sb 206.834	187.372	ppb	0.5514	0.3	315.913
Se 196.026	5.4544	ppb	5.5461	101.7	3.7682
Sn 189.925	32.1260	ppb	0.9198	2.9	28.3345
Sr 216.596	44.3914	ppb	0.4831	1.1	762.219
Ti 334.941	192.844	ppb	1.7185	0.9	61508.5
Tl 190.794	-0.1471	ppb	1.1364	772.4	-11.7232
V 292.401	15.3153	ppb	0.2058	1.3	458.036
Zn 206.200	860.382	ppb	1.3109	7053	1505.27

680-92662-a-37-b (Samp) **8/1/2013, 9:11:50 AM** **Rack 4, Tube 57**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.1138	-0.1266u	0.1941
Al 308.215	3498.36	3598.69	3511.92
As 188.980	9.0066	9.7886	8.7422
B 249.678	321.191	329.660	324.535
Ba 389.178	94.2715	96.3959	94.2024
Be 313.042	0.3949	0.4010	0.3863
Ca 370.602	33424	34489	33747
Cd 226.502	0.7209	0.7085	0.7944
Co 228.615	2.3201	2.8209	2.7057
Cr 267.716	98.1778	101.880	99.2060
Cu 324.754	66.2950	69.9380	66.8411
Fe 271.441	11317.5	11673.7	11439.2
K 766.491	1506.44	1559.81	1530.59
Mg 279.078	6628.90	6861.29	6730.54
Mn 257.610	1094.30	1128.87	1103.77
Mo 202.032	3.5245	3.8610	3.3319
Na 330.237	2316.63	2498.40	2250.89
Ni 231.604	41.1052	41.2080	39.9108
Pb 220.353	35.4720	36.6464	36.2193
Sb 206.834	130.002	131.873	129.289
Se 196.026	2.8974	11.4669	-5.0697u
Sn 189.925	25.9278	24.0318	28.8993
Sr 216.596	63.2899	65.6209	64.0919
Ti 334.941	210.897	218.712	209.059
Tl 190.794	1.5534	5.3484	4.9970
V 292.401	25.9812	26.8466	25.7394
Zn 206.200	712.234	742.143	729.278

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0604	ppb	0.1668	276.1	2.3227
Al 308.215	3536.32	ppb	54.4342	1.5	10463.2
As 188.980	9.1791	ppb	0.5441	5.9	-0.8123
B 249.678	325.129	ppb	4.2654	1.3	5673.13
Ba 389.178	94.9566	ppb	1.2470	1.3	2513.44
Be 313.042	0.3941	ppb	0.0074	1.9	523.625
Ca 370.602	33887	ppb	546.1	1.6	106749
Cd 226.502	0.7413	ppb	0.0464	6.3	94.4024
Co 228.615	2.6156	ppb	0.2623	10.0	29.8056
Cr 267.716	99.7547	ppb	1.9113	1.9	6333.39
Cu 324.754	67.6913	ppb	1.9647	2.9	4555.24
Fe 271.441	11476.8	ppb	181.021	1.6	21999.1
K 766.491	1532.28	ppb	26.7222	1.7	51713.2
Mg 279.078	6740.24	ppb	116.499	1.7	19257.0
Mn 257.610	1108.98	ppb	17.8616	1.6	299745
Mo 202.032	3.5725	ppb	0.2678	7.5	35.7358
Na 330.237	2355.31	ppb	128.208	5.4	148.928
Ni 231.604	40.7413	ppb	0.7211	1.8	154.062
Pb 220.353	36.1126	ppb	0.5944	1.6	90.2677
Sb 206.834	130.388	ppb	1.3348	1.0	222.517
Se 196.026	3.0982	ppb	8.2701	266.9	2.5212
Sn 189.925	26.2863	ppb	2.4535	9.3	21.8213
Sr 216.596	64.3342	ppb	1.1843	1.8	1102.81
Ti 334.941	212.889	ppb	5.1259	2.4	67917.7
Tl 190.794	3.9663	ppb	2.0970	52.9	-6.2322
V 292.401	26.1891	ppb	0.5821	2.2	784.234
Zn 206.200	727.885	ppb	15.0928	2.1	1274.23

680-92662-a-39-b (Samp) **8/1/2013, 9:16:29 AM** **Rack 4, Tube 58**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.0653	-0.0902u	0.0055
Al 308.215	283.762	283.602	285.931
As 188.980	1.7013	2.0738	3.1361
B 249.678	365.317	364.707	366.096
Ba 389.178	7.7438	8.9314	8.4495
Be 313.042	0.0328	0.0396	0.0414
Ca 370.602	6018	6003	6044
Cd 226.502	0.1655	0.1928	0.1627
Co 228.615	0.3039	0.8652	0.6711
Cr 267.716	5.6737	5.9400	5.8374
Cu 324.754	20.1163	19.9587	20.5407
Fe 271.441	647.600	645.638	643.662
K 766.491	475.759	478.005	479.594
Mg 279.078	254.637	251.830	252.049
Mn 257.610	19.5417	19.6256	19.5977
Mo 202.032	2.4739	2.1939	2.3404
Na 330.237	2573.27	2431.46	2374.29
Ni 231.604	55.9485	55.6321	55.7729
Pb 220.353	7.5875	7.3332	3.6617
Sb 206.834	192.706	194.351	195.353
Se 196.026	4.1538	5.5387	2.2400
Sn 189.925	142.007	141.891	140.878
Sr 216.596	10.9088	10.5443	11.0386
Ti 334.941	245.080	261.343	261.175
Tl 190.794	0.5590	0.3528	3.1568
V 292.401	1.0741	0.9549	0.8479
Zn 206.200	554.704	556.166	559.290

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0065	ppb	0.0785	1215.7	-6.3270
Al 308.215	284.432	ppb	1.3009	0.5	872.502
As 188.980	2.3038	ppb	0.7445	32.3	-6.9134
B 249.678	365.373	ppb	0.6964	0.2	6390.71
Ba 389.178	8.3749	ppb	0.5973	7.1	202.397
Be 313.042	0.0379	ppb	0.0045	11.9	-205.108
Ca 370.602	6022	ppb	20.65	0.3	19194
Cd 226.502	0.1737	ppb	0.0167	9.6	19.0485
Co 228.615	0.6134	ppb	0.2851	46.5	1.5510
Cr 267.716	5.8170	ppb	0.1343	2.3	392.450
Cu 324.754	20.2053	ppb	0.3010	1.5	1535.46
Fe 271.441	645.633	ppb	1.9692	0.3	1252.22
K 766.491	477.786	ppb	1.9266	0.4	16252.2
Mg 279.078	252.839	ppb	1.5613	0.6	754.352
Mn 257.610	19.5883	ppb	0.0427	0.2	5378.12
Mo 202.032	2.3361	ppb	0.1400	6.0	25.8529
Na 330.237	2459.67	ppb	102.444	4.2	159.663
Ni 231.604	55.7845	ppb	0.1585	0.3	212.364
Pb 220.353	6.1942	ppb	2.1969	35.5	27.5608
Sb 206.834	194.136	ppb	1.3366	0.7	326.032
Se 196.026	3.9775	ppb	1.6564	41.6	2.6759
Sn 189.925	141.592	ppb	0.6213	0.4	150.518
Sr 216.596	10.8305	ppb	0.2563	2.4	189.819
Ti 334.941	255.866	ppb	9.3410	3.7	81597.3
Tl 190.794	1.3562	ppb	1.5628	115.2	-8.3234
V 292.401	0.9590	ppb	0.1131	11.8	29.5270
Zn 206.200	556.720	ppb	2.3425	0.4	876.216

X (Samp) **8/1/2013, 9:21:07 AM** **Rack 4, Tube 59**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	0.0848	-0.1051u	-0.1678u
Al 308.215	-1.2507u	-1.6472u	3.1548
As 188.980	5.0375	1.0960	-3.2924u
B 249.678	1.5543	0.8615	1.6153
Ba 389.178	-0.2347u	0.0371	0.0830
Be 313.042	0.0125	0.0100	0.0086
Ca 370.602	3.017	6.403	3.461
Cd 226.502	0.0742	0.1092	0.1411
Co 228.615	1.1847	0.3853	0.4969
Cr 267.716	-0.1012u	0.0464	-0.0112u
Cu 324.754	-0.5331u	-0.2000u	0.0313
Fe 271.441	0.1121	-5.8816u	-4.0397u
K 766.491	-1.2575u	-1.1088u	-0.6288u
Mg 279.078	-0.6430u	-2.7739u	-0.9330u
Mn 257.610	-0.1528u	-0.1657u	-0.1546u
Mo 202.032	-0.0848u	0.0148	-0.2258u
Na 330.237	-56.8076u	-14.0416u	-126.745u
Ni 231.604	1.2094	1.9943	1.1772
Pb 220.353	-0.9094u	0.6131	-0.3183u
Sb 206.834	0.3023	-1.1994u	1.7419
Se 196.026	-3.4021u	6.0441	3.5399
Sn 189.925	2.2721	-0.8832u	1.8185
Sr 216.596	-0.0384u	-0.3122u	0.0883
Ti 334.941	0.0206	-0.0369u	0.0578
Tl 190.794	0.5469	-0.7530u	1.2572
V 292.401	-0.3674u	-0.1187u	-0.3324u
Zn 206.200	0.3751	-0.4938u	-0.4180u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0627	ppb	0.1315	209.7	-10.7198
Al 308.215	0.0857	ppb	2.6654	3111.7	33.7746
As 188.980	0.9470	ppb	4.1669	440.0	-8.1325
B 249.678	1.3437	ppb	0.4188	31.2	134.391
Ba 389.178	-0.0382	ppb	0.1717	449.8	-20.4035
Be 313.042	0.0104	ppb	0.0020	19.0	-262.418
Ca 370.602	4.294	ppb	1.840	42.9	16.10
Cd 226.502	0.1082	ppb	0.0334	30.9	12.8765
Co 228.615	0.6889	ppb	0.4329	62.8	-4.3494
Cr 267.716	-0.0220	ppb	0.0744	338.3	22.7521
Cu 324.754	-0.2339	ppb	0.2837	121.3	236.983
Fe 271.441	-3.2697	ppb	3.0701	93.9	9.2103
K 766.491	-0.9984	ppb	0.3285	32.9	151.455
Mg 279.078	-1.4500	ppb	1.1557	79.7	28.6132
Mn 257.610	-0.1577	ppb	0.0069	4.4	39.6773
Mo 202.032	-0.0986	ppb	0.1209	122.6	5.0699
Na 330.237	-65.8647	ppb	56.8949	86.4	41.7143
Ni 231.604	1.4603	ppb	0.4627	31.7	0.6189
Pb 220.353	-0.2049	ppb	0.7676	374.6	14.5219
Sb 206.834	0.2816	ppb	1.4708	522.3	5.9555
Se 196.026	2.0606	ppb	4.8937	237.5	1.5382
Sn 189.925	1.0691	ppb	1.7059	159.6	-6.3480
Sr 216.596	-0.0874	ppb	0.2047	234.1	7.1511
Ti 334.941	0.0138	ppb	0.0477	345.0	-51.5103
Tl 190.794	0.3504	ppb	1.0195	291.0	-9.7205
V 292.401	-0.2728	ppb	0.1346	49.3	-11.2892
Zn 206.200	-0.1789	ppb	0.4813	269.0	5.7324

CRI (Samp) **8/1/2013, 9:25:46 AM** **Rack 4, Tube 60**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	9.7946	9.0167	8.8557
Al 308.215	182.978	176.388	171.566
As 188.980	21.9934	18.6031	20.0827
B 249.678	92.5889	89.5604	87.7774
Ba 389.178	10.1922	10.3003	9.5741
Be 313.042	3.9036	3.7992	3.6993
Ca 370.602	470.0	455.0	440.8
Cd 226.502	5.0894	4.7720	4.6728
Co 228.615	10.3098	10.2781	9.9173
Cr 267.716	10.1042	9.7989	9.6503
Cu 324.754	19.3093	19.5418	18.3126
Fe 271.441	47.5647	43.1352	42.3207
K 766.491	929.504	902.041	887.726
Mg 279.078	481.093	461.252	450.951
Mn 257.610	10.0291	9.6564	9.4204
Mo 202.032	9.8490	9.2514	8.7615
Na 330.237	865.111	755.452	791.097
Ni 231.604	39.4812	37.4853	37.9735
Pb 220.353	8.5397	8.3666	6.8143
Sb 206.834	16.4998	16.6641	17.8271
Se 196.026	17.3416	20.8847	19.1031
Sn 189.925	49.4312	46.3685	45.7509
Sr 216.596	9.8993	9.1585	8.7256
Ti 334.941	9.4839	9.1108	8.9788
Tl 190.794	24.1978	21.2517	21.1190
V 292.401	9.5538	8.4756	8.5743
Zn 206.200	19.8380	19.0898	18.2689

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	9.2224	ppb	0.5021	5.4	790.240
Al 308.215	176.977	ppb	5.7290	3.2	554.884
As 188.980	20.2264	ppb	1.6997	8.4	9.2727
B 249.678	89.9755	ppb	2.4325	2.7	1657.91
Ba 389.178	10.0222	ppb	0.3918	3.9	245.404
Be 313.042	3.8007	ppb	0.1021	2.7	7398.01
Ca 370.602	455.3	ppb	14.59	3.2	1448
Cd 226.502	4.8447	ppb	0.2176	4.5	268.204
Co 228.615	10.1684	ppb	0.2181	2.1	130.819
Cr 267.716	9.8511	ppb	0.2314	2.3	646.146
Cu 324.754	19.0546	ppb	0.6530	3.4	1462.30
Fe 271.441	44.3402	ppb	2.8220	6.4	101.881
K 766.491	906.424	ppb	21.2313	2.3	30666.7
Mg 279.078	464.432	ppb	15.3204	3.3	1358.67
Mn 257.610	9.7020	ppb	0.3069	3.2	2707.63
Mo 202.032	9.2873	ppb	0.5446	5.9	85.3254
Na 330.237	803.887	ppb	55.9371	7.0	85.1606
Ni 231.604	38.3133	ppb	1.0404	2.7	144.224
Pb 220.353	7.9069	ppb	0.9501	12.0	31.1806
Sb 206.834	16.9970	ppb	0.7235	4.3	33.5586
Se 196.026	19.1098	ppb	1.7716	9.3	11.5857
Sn 189.925	47.1835	ppb	1.9709	4.2	45.1287
Sr 216.596	9.2611	ppb	0.5936	6.4	162.209
Ti 334.941	9.1912	ppb	0.2620	2.9	2879.53
Tl 190.794	22.1895	ppb	1.7405	7.8	22.2112
V 292.401	8.8679	ppb	0.5961	6.7	262.293
Zn 206.200	19.0655	ppb	0.7848	4.1	39.2277

CCV (Samp) **8/1/2013, 9:30:22 AM** **Rack 1, Tube 1**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	488.146	489.542	487.368
Al 308.215	4795.88	4789.16	4782.99
As 188.980	480.338	479.237	475.078
B 249.678	483.608	483.172	482.588
Ba 389.178	4847.16	4861.22	4838.59
Be 313.042	489.719	487.867	484.793
Ca 370.602	4915	4931	4907
Cd 226.502	489.831	489.290	488.230
Co 228.615	489.241	487.731	486.737
Cr 267.716	5002.39	5003.49	4988.47
Cu 324.754	4965.69	5010.42	4969.58
Fe 271.441	4866.70	4855.79	4845.45
K 766.491	9674.41	9702.76	9753.77
Mg 279.078	4834.46	4832.71	4815.97
Mn 257.610	4952.41	4947.62	4932.09
Mo 202.032	487.503	486.848	485.809
Na 330.237	6806.38	7008.84	6896.25
Ni 231.604	2434.98	2443.96	2421.17
Pb 220.353	493.202	490.798	486.101
Sb 206.834	958.668	960.375	957.265
Se 196.026	4805.48	4790.89	4792.42
Sn 189.925	4890.74	4941.24	4914.94
Sr 216.596	2471.09	2472.03	2458.37
Ti 334.941	478.788	477.736	477.693
Tl 190.794	4933.21	4937.08	4900.82
V 292.401	4847.33	4828.55	4828.91
Zn 206.200	2481.02	2482.91	2466.34

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	488.352	ppb	1.1014	0.2	42073.1
Al 308.215	4789.34	ppb	6.4497	0.1	13768.0
As 188.980	478.218	ppb	2.7741	0.6	422.595
B 249.678	483.123	ppb	0.5117	0.1	8404.73
Ba 389.178	4848.99	ppb	11.4290	0.2	127390
Be 313.042	487.460	ppb	2.4882	0.5	984871
Ca 370.602	4918	ppb	12.44	0.3	15658
Cd 226.502	489.117	ppb	0.8143	0.2	26373.1
Co 228.615	487.903	ppb	1.2606	0.3	6958.67
Cr 267.716	4998.12	ppb	8.3680	0.2	315601
Cu 324.754	4981.89	ppb	24.7776	0.5	316628
Fe 271.441	4855.98	ppb	10.6226	0.2	9438.02
K 766.491	9710.31	ppb	40.2158	0.4	326728
Mg 279.078	4827.71	ppb	10.2113	0.2	13710.8
Mn 257.610	4944.04	ppb	10.6217	0.2	1335644
Mo 202.032	486.720	ppb	0.8541	0.2	4157.83
Na 330.237	6903.82	ppb	101.440	1.5	353.728
Ni 231.604	2433.37	ppb	11.4772	0.5	9477.51
Pb 220.353	490.034	ppb	3.6117	0.7	1022.98
Sb 206.834	958.769	ppb	1.5575	0.2	1658.39
Se 196.026	4796.26	ppb	8.0188	0.2	2827.49
Sn 189.925	4915.64	ppb	25.2599	0.5	5479.64
Sr 216.596	2467.16	ppb	7.6303	0.3	41135.5
Ti 334.941	478.072	ppb	0.6200	0.1	152532
Tl 190.794	4923.70	ppb	19.9130	0.4	7183.60
V 292.401	4834.93	ppb	10.7407	0.2	145476
Zn 206.200	2476.76	ppb	9.0690	0.4	4300.95

CCB (Samp) **8/1/2013, 9:34:56 AM** **Rack 1, Tube 2**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.4795	-0.1090u	0.0987
Al 308.215	7.2402	-1.2131u	2.3750
As 188.980	-0.8516u	-1.1411u	2.0173
B 249.678	2.0140	0.9123	1.0762
Ba 389.178	1.4640	1.1454	0.6754
Be 313.042	0.0774	0.0567	0.0374
Ca 370.602	2.605	7.599	3.572
Cd 226.502	0.0727	0.2816	0.1348
Co 228.615	0.9227	0.4487	1.1309
Cr 267.716	0.7277	0.5750	0.2365
Cu 324.754	0.8430	-0.0253u	0.2894
Fe 271.441	-8.9396u	0.9176	-0.2629u
K 766.491	0.6375	0.3474	-0.3682u
Mg 279.078	-2.1514u	0.4400	0.4195
Mn 257.610	1.4560	1.1835	1.0496
Mo 202.032	0.8929	0.7021	0.6381
Na 330.237	-265.669u	-338.805u	-62.3394u
Ni 231.604	1.5770	1.3709	0.3285
Pb 220.353	0.0594	-0.6806u	2.0701
Sb 206.834	0.7614	1.4265	0.7285
Se 196.026	4.6880	0.3871	6.0524
Sn 189.925	1.4470	0.6192	1.2662
Sr 216.596	0.2113	0.2725	-0.2678u
Ti 334.941	0.1127	0.0665	0.0775
Tl 190.794	0.1961	3.9372	2.7730
V 292.401	0.4347	0.4906	-0.0012u
Zn 206.200	0.4393	-0.9022u	0.7046

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1564	ppb	0.2985	190.8	8.2100
Al 308.215	2.8007	ppb	4.2427	151.5	41.7556
As 188.980	0.0082	ppb	1.7460	21278.4	-8.9805
B 249.678	1.3342	ppb	0.5945	44.6	134.223
Ba 389.178	1.0949	ppb	0.3967	36.2	9.3724
Be 313.042	0.0572	ppb	0.0200	34.9	-167.916
Ca 370.602	4.592	ppb	2.648	57.7	16.99
Cd 226.502	0.1631	ppb	0.1073	65.8	15.8412
Co 228.615	0.8341	ppb	0.3496	41.9	-2.3040
Cr 267.716	0.5131	ppb	0.2514	49.0	56.5394
Cu 324.754	0.3691	ppb	0.4396	119.1	275.306
Fe 271.441	-2.7616	ppb	5.3827	194.9	10.2109
K 766.491	0.2056	ppb	0.5176	251.8	191.942
Mg 279.078	-0.4306	ppb	1.4903	346.1	31.4938
Mn 257.610	1.2297	ppb	0.2071	16.8	414.458
Mo 202.032	0.7444	ppb	0.1326	17.8	12.2788
Na 330.237	-222.271	ppb	143.251	64.4	33.8376
Ni 231.604	1.0921	ppb	0.6693	61.3	-0.8164
Pb 220.353	0.4830	ppb	1.4234	294.7	15.9354
Sb 206.834	0.9721	ppb	0.3938	40.5	7.0858
Se 196.026	3.7092	ppb	2.9568	79.7	2.5098
Sn 189.925	1.1108	ppb	0.4352	39.2	-6.3015
Sr 216.596	0.0720	ppb	0.2959	411.1	9.8033
Ti 334.941	0.0856	ppb	0.0241	28.2	-28.6050
Tl 190.794	2.3021	ppb	1.9145	83.2	-6.8701
V 292.401	0.3080	ppb	0.2692	87.4	6.0472
Zn 206.200	0.0806	ppb	0.8614	1069.0	6.1824

mb 680-287029/1-a (Samp) **8/1/2013, 9:48:26 AM** **Rack 1, Tube 3**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.2257u	-0.4532u	0.0847
Al 308.215	-2.5575u	-4.7902u	1.0990
As 188.980	-0.3395u	1.7625	2.2473
B 249.678	3.2746	3.6482	3.1106
Ba 389.178	0.1997	-0.1111u	0.2599
Be 313.042	0.0144	0.0066	0.0122
Ca 370.602	26.83	25.29	30.05
Cd 226.502	0.1609	0.0613	0.0421
Co 228.615	0.5364	0.4269	0.7365
Cr 267.716	0.3069	0.1750	0.2438
Cu 324.754	0.0489	-0.1602u	0.2568
Fe 271.441	2.8039	-1.7352u	0.4259
K 766.491	3.7893	4.0014	4.1677
Mg 279.078	11.4541	10.8180	13.9540
Mn 257.610	1.2344	1.1806	1.1915
Mo 202.032	0.4078	0.3777	0.3921
Na 330.237	-12.0167u	-84.0944u	145.117
Ni 231.604	0.2477	0.9466	1.6054
Pb 220.353	2.0308	-0.0764u	-1.3350u
Sb 206.834	0.0190	-0.7001u	2.3125
Se 196.026	0.7652	5.3915	8.0744
Sn 189.925	1.4709	0.3444	2.1806
Sr 216.596	0.1917	0.2280	-0.0284u
Ti 334.941	-0.0163u	0.0091	-0.0107u
Tl 190.794	1.1150	0.4525	-0.4330u
V 292.401	-0.2395u	0.0289	-0.1467u
Zn 206.200	37.3325	37.9217	38.5826

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1981	ppb	0.2700	136.3	-22.4115
Al 308.215	-2.0829	ppb	2.9731	142.7	27.3799
As 188.980	1.2234	ppb	1.3751	112.4	-7.8832
B 249.678	3.3445	ppb	0.2756	8.2	168.780
Ba 389.178	0.1162	ppb	0.1991	171.4	-16.3028
Be 313.042	0.0111	ppb	0.0040	36.2	-261.103
Ca 370.602	27.39	ppb	2.430	8.9	89.25
Cd 226.502	0.0881	ppb	0.0638	72.4	11.8023
Co 228.615	0.5666	ppb	0.1570	27.7	-6.1116
Cr 267.716	0.2419	ppb	0.0660	27.3	39.4241
Cu 324.754	0.0485	ppb	0.2085	429.7	254.940
Fe 271.441	0.4982	ppb	2.2704	455.7	16.4131
K 766.491	3.9861	ppb	0.1896	4.8	319.075
Mg 279.078	12.0754	ppb	1.6577	13.7	67.2067
Mn 257.610	1.2022	ppb	0.0284	2.4	407.140
Mo 202.032	0.3925	ppb	0.0151	3.8	9.2702
Na 330.237	16.3352	ppb	117.206	717.5	45.2969
Ni 231.604	0.9332	ppb	0.6790	72.8	-1.4348
Pb 220.353	0.2065	ppb	1.7007	823.7	15.3677
Sb 206.834	0.5438	ppb	1.5734	289.3	6.3824
Se 196.026	4.7437	ppb	3.6974	77.9	3.1193
Sn 189.925	1.3320	ppb	0.9259	69.5	-6.0545
Sr 216.596	0.1304	ppb	0.1387	106.4	10.7800
Ti 334.941	-0.0060	ppb	0.0134	224.7	-57.7682
Tl 190.794	0.3781	ppb	0.7767	205.4	-9.6817
V 292.401	-0.1191	ppb	0.1363	114.4	-6.7598
Zn 206.200	37.9456	ppb	0.6254	712.6	72.1704

lcs 680-287029/2-a (Samp) **8/1/2013, 9:53:01 AM** **Rack 1, Tube 4**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.0530	0.0871	0.1172
Al 308.215	-0.2782u	-5.1139u	-1.0238u
As 188.980	-1.0622u	-0.2695u	-0.3608u
B 249.678	3.1378	2.4537	3.0827
Ba 389.178	0.1947	-0.2693u	-0.6473u
Be 313.042	0.0210	0.0174	0.0060
Ca 370.602	3.274	7.136	4.232
Cd 226.502	0.2237	0.1074	0.0928
Co 228.615	0.7329	1.0637	0.1452
Cr 267.716	0.2281	0.1178	0.0895
Cu 324.754	-0.0196u	0.2826	0.0867
Fe 271.441	-3.6464u	-2.6043u	-5.4740u
K 766.491	0.8277	-0.2199u	0.0089
Mg 279.078	-0.2418u	-0.9958u	1.5045
Mn 257.610	-0.0159u	-0.0673u	0.0129
Mo 202.032	0.2098	-0.5747u	0.0509
Na 330.237	-116.316u	-207.231u	-181.747u
Ni 231.604	0.0566	0.4933	0.6374
Pb 220.353	3.8675	-1.5961u	-0.7301u
Sb 206.834	0.5384	-2.0613u	1.0679
Se 196.026	-0.8086u	-4.4161u	0.3358
Sn 189.925	0.3019	1.4488	1.0862
Sr 216.596	-0.4921u	-0.0502u	-0.3497u
Ti 334.941	-0.0196u	-0.0512u	-0.0825u
Tl 190.794	-0.7580u	1.2380	0.8303
V 292.401	0.1039	-0.1307u	-0.1766u
Zn 206.200	1.8741	1.4712	2.6666

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0858	ppb	0.0321	37.4	2.1119
Al 308.215	-2.1387	ppb	2.6035	121.7	27.1970
As 188.980	-0.5641	ppb	0.4337	76.9	-9.4969
B 249.678	2.8914	ppb	0.3801	13.1	160.999
Ba 389.178	-0.2407	ppb	0.4217	175.2	-25.7207
Be 313.042	0.0148	ppb	0.0078	52.7	-253.459
Ca 370.602	4.881	ppb	2.011	41.2	18.02
Cd 226.502	0.1413	ppb	0.0717	50.8	14.6580
Co 228.615	0.6473	ppb	0.4652	71.9	-4.9452
Cr 267.716	0.1451	ppb	0.0732	50.4	33.3012
Cu 324.754	0.1166	ppb	0.1533	131.5	259.242
Fe 271.441	-3.9082	ppb	1.4527	37.2	7.9820
K 766.491	0.2056	ppb	0.5508	267.9	191.943
Mg 279.078	0.0890	ppb	1.2826	1441.6	33.0048
Mn 257.610	-0.0234	ppb	0.0406	173.5	75.9580
Mo 202.032	-0.1047	ppb	0.4148	396.3	5.0178
Na 330.237	-168.431	ppb	46.8975	27.8	36.5263
Ni 231.604	0.3958	ppb	0.3024	76.4	-3.5299
Pb 220.353	0.5138	ppb	2.9365	571.6	15.9999
Sb 206.834	-0.1516	ppb	1.6748	1104.4	5.2423
Se 196.026	-1.6296	ppb	2.4800	152.2	-0.6359
Sn 189.925	0.9456	ppb	0.5863	62.0	-6.4859
Sr 216.596	-0.2973	ppb	0.2256	75.9	3.6699
Ti 334.941	-0.0511	ppb	0.0314	61.5	-72.2198
Tl 190.794	0.4368	ppb	1.0546	241.4	-9.5942
V 292.401	-0.0678	ppb	0.1505	221.9	-5.1091
Zn 206.200	2.0040	ppb	0.6082	30.3	9.5359

680-92704-a-1-a (Samp) **8/1/2013, 9:57:47 AM** **Rack 1, Tube 5**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.1647u	0.1944u	0.1951u
Al 308.215	351.171	356.212	359.801
As 188.980	1.9464	1.4580	0.0088
B 249.678	76.5754	76.7443	76.4552
Ba 389.178	59.7188	59.0463	59.2799
Be 313.042	0.0040	0.0085	0.0034
Ca 370.602	105454	105702	106009
Cd 226.502	0.0210	0.1486	-0.0028
Co 228.615	0.4823	0.2715	0.6722
Cr 267.716	0.7516	0.9135	0.8484
Cu 324.754	4.8537	4.7877	4.7555
Fe 271.441	639.267	642.175	640.577
K 766.491	3517.64	3515.97	3525.94
Mg 279.078	37619.9	37735.3	37594.0
Mn 257.610	23.5211	23.5857	23.5696
Mo 202.032	0.0741	0.2382	0.3137
Na 330.237	137699x	136772x	136701x
Ni 231.604	4.3895	4.0645	3.6526
Pb 220.353	1.2430	3.3450	1.1927
Sb 206.834	2.7717	0.2082	1.8675
Se 196.026	7.9187	8.5500	1.2841
Sn 189.925	1.6412	-1.3565u	3.0970
Sr 216.596	707.261	712.776	708.404
Ti 334.941	3.0969	3.2105	3.0926
Tl 190.794	1.7463	-1.3007u	-1.9681u
V 292.401	1.1259	0.8772	1.0847
Zn 206.200	21.1425	21.5351	23.5317

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1847b	ppb	0.0174	9.4	-26.5940
Al 308.215	355.728b	ppb	4.3352	1.2	1082.78
As 188.980	1.1377b	ppb	1.0077	88.6	-7.9644
B 249.678	76.5916b	ppb	0.1452	0.2	1426.41
Ba 389.178	59.3484b	ppb	0.3414	0.6	1652.88
Be 313.042	0.0053b	ppb	0.0028	52.5	-251.176
Ca 370.602	105722b	ppb	277.7	0.3	335362
Cd 226.502	0.0556b	ppb	0.0814	146.4	12.3109
Co 228.615	0.4754b	ppb	0.2004	42.2	-7.2693
Cr 267.716	0.8378b	ppb	0.0814	9.7	80.5486
Cu 324.754	4.7990b	ppb	0.0500	1.0	556.877
Fe 271.441	640.673b	ppb	1.4561	0.2	1242.61
K 766.491	3519.85b	ppb	5.3399	0.2	118552
Mg 279.078	37649.7b	ppb	75.2015	0.2	107542
Mn 257.610	23.5588b	ppb	0.0336	0.1	6809.75
Mo 202.032	0.2087b	ppb	0.1225	58.7	7.6572
Na 330.237	137057xb	ppb	556.768	0.4	6942.56
Ni 231.604	4.0356b	ppb	0.3693	9.2	10.6766
Pb 220.353	1.9269b	ppb	1.2284	63.7	18.9578
Sb 206.834	1.6158b	ppb	1.3002	80.5	8.1881
Se 196.026	5.9176b	ppb	4.0251	68.0	3.8204
Sn 189.925	1.1272b	ppb	2.2708	201.4	-6.1581
Sr 216.596	709.481b	ppb	2.9107	0.4	11872.4
Ti 334.941	3.1333b	ppb	0.0668	2.1	1126.97
Tl 190.794	-0.5075b	ppb	1.9802	390.2	-11.0510
V 292.401	1.0293b	ppb	0.1333	13.0	27.2790
Zn 206.200	22.0697b	ppb	1.2812	5.8	44.5087

680-92717-f-1-a (Samp) **8/1/2013, 10:02:23 AM** **Rack 1, Tube 6**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	-0.1678u	0.0982	0.0660
Al 308.215	117.203	121.483	115.992
As 188.980	0.2299	-1.0424u	-0.5731u
B 249.678	10.7886	11.7050	11.0408
Ba 389.178	27.9537	28.7609	27.8301
Be 313.042	0.0284	0.0303	0.0231
Ca 370.602	4640	4739	4613
Cd 226.502	-0.1174u	0.0058	0.0736
Co 228.615	0.8445	1.0888	1.1236
Cr 267.716	0.3331	0.4802	0.0531
Cu 324.754	1.7642	1.5315	1.4895
Fe 271.441	460.735	463.851	455.627
K 766.491	2314.86	2356.79	2330.70
Mg 279.078	1951.51	2005.29	1958.63
Mn 257.610	132.663	136.243	132.771
Mo 202.032	0.2407	0.3507	0.2077
Na 330.237	4026.07	4224.96	3946.61
Ni 231.604	1.0674	0.9873	1.3564
Pb 220.353	-1.2316u	3.8203	-1.1072u
Sb 206.834	0.3109	2.9024	-0.9513u
Se 196.026	2.3706	-3.1732u	4.8206
Sn 189.925	2.6886	0.0374	0.7802
Sr 216.596	43.9908	44.6455	43.3021
Ti 334.941	3.2872	3.3902	3.2166
Tl 190.794	1.5255	1.8939	1.5210
V 292.401	1.0045	1.4080	1.1061
Zn 206.200	2.5589	3.0202	2.3552

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0012	ppb	0.1452	12089.0	-7.0058
Al 308.215	118.226	ppb	2.8848	2.4	382.157
As 188.980	-0.4619	ppb	0.6434	139.3	-9.4095
B 249.678	11.1781	ppb	0.4734	4.2	302.356
Ba 389.178	28.1816	ppb	0.5055	1.8	727.498
Be 313.042	0.0273	ppb	0.0038	13.8	-227.401
Ca 370.602	4664	ppb	66.66	1.4	14768
Cd 226.502	-0.0127	ppb	0.0968	764.4	8.2783
Co 228.615	1.0189	ppb	0.1521	14.9	0.4613
Cr 267.716	0.2888	ppb	0.2170	75.1	43.3682
Cu 324.754	1.5951	ppb	0.1480	9.3	353.318
Fe 271.441	460.071	ppb	4.1523	0.9	896.762
K 766.491	2334.11	ppb	21.1720	0.9	78677.7
Mg 279.078	1971.81	ppb	29.2128	1.5	5660.48
Mn 257.610	133.892	ppb	2.0362	1.5	36270.1
Mo 202.032	0.2664	ppb	0.0749	28.1	8.1613
Na 330.237	4065.88	ppb	143.382	3.5	249.476
Ni 231.604	1.1370	ppb	0.1942	17.1	-0.6278
Pb 220.353	0.4938	ppb	2.8815	583.5	16.0290
Sb 206.834	0.7540	ppb	1.9647	260.6	6.7498
Se 196.026	1.3393	ppb	4.0954	305.8	1.1543
Sn 189.925	1.1687	ppb	1.3676	117.0	-6.2322
Sr 216.596	43.9795	ppb	0.6718	1.5	744.290
Ti 334.941	3.2980	ppb	0.0873	2.6	1006.45
Tl 190.794	1.6468	ppb	0.2140	13.0	-7.9582
V 292.401	1.1729	ppb	0.2099	17.9	32.2881
Zn 206.200	2.6448	ppb	0.3407	12.9	10.6574

680-92717-f-1-a SD^5 (Samp) **8/1/2013, 10:06:58 AM** **Rack 1, Tube 7**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.0526	-0.1172u	-0.2348u
Al 308.215	123.575	122.568	127.551
As 188.980	-3.7376u	0.4485	-3.0874u
B 249.678	11.1528	10.5651	10.7135
Ba 389.178	28.2574	28.2591	29.1378
Be 313.042	0.0237	0.0257	0.0271
Ca 370.602	4608	4619	4631
Cd 226.502	0.0109	0.0765	-0.0612u
Co 228.615	0.6484	0.4212	1.0258
Cr 267.716	0.3666	0.3772	0.2436
Cu 324.754	0.9533	1.2680	1.6316
Fe 271.441	462.496	466.786	458.589
K 766.491	2339.68	2325.27	2324.30
Mg 279.078	1964.99	1960.97	1956.76
Mn 257.610	132.988	132.932	133.053
Mo 202.032	0.1858	0.5753	0.1791
Na 330.237	4032.99	4074.11	3970.12
Ni 231.604	0.6631	1.3835	0.4332
Pb 220.353	0.3461	1.2114	-1.8260u
Sb 206.834	1.5253	-4.6380u	1.2103
Se 196.026	-4.7037u	-2.6034u	9.3207
Sn 189.925	0.5901	-1.2135u	-2.1172u
Sr 216.596	43.3448	43.2493	43.7211
Ti 334.941	3.4525	3.4196	3.4711
Tl 190.794	-0.6305u	1.1682	-0.8717u
V 292.401	1.0527	0.7594	0.8255
Zn 206.200	2.3253	2.0481	3.0143

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0998	ppb	0.1445	144.8	-15.4920
Al 308.215	124.565	ppb	2.6345	2.1	400.889
As 188.980	-2.1255	ppb	2.2527	106.0	-10.9115
B 249.678	10.8105	ppb	0.3057	2.8	296.034
Ba 389.178	28.5514	ppb	0.5078	1.8	737.187
Be 313.042	0.0255	ppb	0.0017	6.6	-230.944
Ca 370.602	4619	ppb	11.23	0.2	14626
Cd 226.502	0.0088	ppb	0.0689	786.3	9.4362
Co 228.615	0.6984	ppb	0.3054	43.7	-4.1071
Cr 267.716	0.3291	ppb	0.0743	22.6	45.9115
Cu 324.754	1.2843	ppb	0.3395	26.4	333.585
Fe 271.441	462.624	ppb	4.0998	0.9	901.603
K 766.491	2329.75	ppb	8.6159	0.4	78530.9
Mg 279.078	1960.90	ppb	4.1155	0.2	5629.35
Mn 257.610	132.991	ppb	0.0606	0.0	36026.6
Mo 202.032	0.3134	ppb	0.2269	72.4	8.5643
Na 330.237	4025.74	ppb	52.3722	1.3	247.459
Ni 231.604	0.8266	ppb	0.4958	60.0	-1.8366
Pb 220.353	-0.0895	ppb	1.5648	1748.5	14.8290
Sb 206.834	-0.6341	ppb	3.4710	547.4	4.4572
Se 196.026	0.6712	ppb	7.5640	1126.9	0.7604
Sn 189.925	-0.9135	ppb	1.3784	150.9	-8.5566
Sr 216.596	43.4384	ppb	0.2494	0.6	735.270
Ti 334.941	3.4477	ppb	0.0261	0.8	1054.19
Tl 190.794	-0.1113	ppb	1.1147	1001.1	-10.5275
V 292.401	0.8792	ppb	0.1539	17.5	23.4182
Zn 206.200	2.4626	ppb	0.4975	716.3	10.3397

680-92717-f-1-a PDS (Samp) **8/1/2013, 10:11:33 AM** **Rack 1, Tube 8**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.2305u	0.0732	0.4064
Al 308.215	143.150	137.765	146.981
As 188.980	2.9214	0.2564	-2.2034u
B 249.678	11.0438	11.3186	11.5305
Ba 389.178	28.4924	29.4902	30.8635
Be 313.042	0.0297	0.0233	0.0265
Ca 370.602	4676	4636	4854
Cd 226.502	0.0714	0.0254	0.0578
Co 228.615	1.1266	1.2262	0.5808
Cr 267.716	0.3642	0.1658	0.2755
Cu 324.754	1.6962	1.0972	1.6604
Fe 271.441	486.332	491.919	508.986
K 766.491	2388.40	2374.21	2444.73
Mg 279.078	2001.34	1993.59	2068.81
Mn 257.610	135.275	134.773	140.256
Mo 202.032	0.0109	0.6853	0.6528
Na 330.237	4055.11	4082.73	4285.28
Ni 231.604	0.9755	0.7888	1.0447
Pb 220.353	-0.0398u	-0.3830u	0.2123
Sb 206.834	-2.0618u	-1.0306u	-0.8644u
Se 196.026	-0.5108u	-1.8657u	3.6688
Sn 189.925	1.4049	1.2213	0.6177
Sr 216.596	43.9968	44.6586	46.0564
Ti 334.941	4.2102	4.0747	4.4465
Tl 190.794	-0.9748u	1.1786	-0.3990u
V 292.401	0.8945	0.9447	0.9636
Zn 206.200	0.9075	0.9602	1.4432

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0831	ppb	0.3185	383.5	0.2221
Al 308.215	142.632	ppb	4.6299	3.2	454.178
As 188.980	0.3248	ppb	2.5631	789.1	-8.6994
B 249.678	11.2976	ppb	0.2440	2.2	304.324
Ba 389.178	29.6154	ppb	1.1905	4.0	765.359
Be 313.042	0.0265	ppb	0.0032	12.1	-228.900
Ca 370.602	4722	ppb	115.7	2.4	14950
Cd 226.502	0.0515	ppb	0.0236	45.9	11.8862
Co 228.615	0.9779	ppb	0.3474	35.5	-0.1034
Cr 267.716	0.2685	ppb	0.0994	37.0	42.1217
Cu 324.754	1.4846	ppb	0.3360	22.6	346.325
Fe 271.441	495.746	ppb	11.8018	2.4	965.088
K 766.491	2402.45	ppb	37.2998	1.6	80975.6
Mg 279.078	2021.25	ppb	41.3691	2.0	5801.57
Mn 257.610	136.768	ppb	3.0310	2.2	37047.5
Mo 202.032	0.4497	ppb	0.3803	84.6	9.7275
Na 330.237	4141.04	ppb	125.676	3.0	253.266
Ni 231.604	0.9363	ppb	0.1324	14.1	-1.4088
Pb 220.353	-0.0702	ppb	0.2988	425.7	14.8715
Sb 206.834	-1.3189	ppb	0.6487	49.2	3.3247
Se 196.026	0.4308	ppb	2.8849	669.7	0.6201
Sn 189.925	1.0813	ppb	0.4119	38.1	-6.3297
Sr 216.596	44.9039	ppb	1.0515	2.3	759.800
Ti 334.941	4.2438	ppb	0.1882	4.4	1308.51
Tl 190.794	-0.0651	ppb	1.1149	1713.1	-10.4648
V 292.401	0.9342	ppb	0.0357	3.8	25.0694
Zn 206.200	1.1036	ppb	0.2952	26.8	7.9722

680-92717-f-1-b ms (Samp) **8/1/2013, 10:16:21 AM** **Rack 1, Tube 9**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.1127u	0.1496	0.0378
Al 308.215	79.0429	79.7303	71.8502
As 188.980	-0.5874u	1.9833	1.6783
B 249.678	9.2603	9.6808	9.2595
Ba 389.178	18.7277	18.9569	17.6466
Be 313.042	0.0480	0.0492	0.0423
Ca 370.602	7142	7148	7118
Cd 226.502	0.0708	0.0471	0.1241
Co 228.615	1.0510	1.0207	1.1809
Cr 267.716	0.0925	0.0613	0.0661
Cu 324.754	2.5460	2.8626	2.5958
Fe 271.441	40.3315	45.1022	43.6106
K 766.491	555.857	565.405	564.802
Mg 279.078	1138.92	1138.47	1137.01
Mn 257.610	21.5876	21.5765	21.5703
Mo 202.032	1.1766	1.1382	1.5258
Na 330.237	56019.3	56123.4	56246.1
Ni 231.604	2.2032	1.4848	1.3228
Pb 220.353	-1.4991u	-0.1677u	-2.0214u
Sb 206.834	0.7119	2.5232	1.1955
Se 196.026	6.2062	9.5089	7.9152
Sn 189.925	0.4055	1.5232	-0.3246u
Sr 216.596	31.9694	32.0994	31.6349
Ti 334.941	0.6027	0.6566	0.5922
Tl 190.794	1.3336	-0.0933u	-1.7234u
V 292.401	6.0855	6.2227	5.8853
Zn 206.200	0.3079	1.1259	-0.1285u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0249	ppb	0.1316	528.1	-4.6844
Al 308.215	76.8745	ppb	4.3647	5.7	259.800
As 188.980	1.0247	ppb	1.4044	137.1	-8.0624
B 249.678	9.4002	ppb	0.2430	2.6	272.779
Ba 389.178	18.4437	ppb	0.6998	3.8	468.571
Be 313.042	0.0465	ppb	0.0037	7.9	-194.039
Ca 370.602	7136	ppb	15.96	0.2	22640
Cd 226.502	0.0807	ppb	0.0395	48.9	11.1586
Co 228.615	1.0842	ppb	0.0851	7.8	1.2605
Cr 267.716	0.0733	ppb	0.0168	22.9	30.1216
Cu 324.754	2.6681	ppb	0.1702	6.4	421.290
Fe 271.441	43.0148	ppb	2.4405	5.7	97.9762
K 766.491	562.021	ppb	5.3468	1.0	19084.9
Mg 279.078	1138.14	ppb	0.9953	0.1	3282.23
Mn 257.610	21.5781	ppb	0.0088	0.0	5921.85
Mo 202.032	1.2802	ppb	0.2136	16.7	16.8464
Na 330.237	56129.6	ppb	113.531	0.2	2870.00
Ni 231.604	1.6702	ppb	0.4686	28.1	1.4373
Pb 220.353	-1.2294	ppb	0.9559	77.7	12.4201
Sb 206.834	1.4769	ppb	0.9379	63.5	7.9021
Se 196.026	7.8768	ppb	1.6517	21.0	4.9713
Sn 189.925	0.5347	ppb	0.9307	174.0	-6.9141
Sr 216.596	31.9012	ppb	0.2396	0.8	542.425
Ti 334.941	0.6172	ppb	0.0345	5.6	142.033
Tl 190.794	-0.1610	ppb	1.5296	950.0	-10.4810
V 292.401	6.0645	ppb	0.1696	2.8	179.163
Zn 206.200	0.4351	ppb	0.6368	146.4	6.8024

680-92717-f-1-c msd (Samp) **8/1/2013, 10:20:58 AM** **Rack 1, Tube 10**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	0.0019u	0.2404	-0.3155u
Al 308.215	79.4041	86.1489	83.3151
As 188.980	1.0549	-1.2701u	-0.5942u
B 249.678	10.3444	11.0717	10.9287
Ba 389.178	28.5981	28.5844	28.6873
Be 313.042	0.0271	0.0269	0.0323
Ca 370.602	4607	4641	4614
Cd 226.502	0.0208	0.0724	-0.0219
Co 228.615	0.7377	0.9877	0.8607
Cr 267.716	0.2540	0.1538	0.2482
Cu 324.754	1.6350	1.5630	1.3740
Fe 271.441	404.993	403.825	405.414
K 766.491	2292.42	2295.84	2291.41
Mg 279.078	1962.79	1971.19	1964.82
Mn 257.610	133.797	134.146	133.730
Mo 202.032	0.3594	0.4985	-0.1136u
Na 330.237	4349.64	4282.72	4119.33
Ni 231.604	1.1024	1.0215	1.4189
Pb 220.353	0.0884	-0.7889u	-1.4383u
Sb 206.834	-0.2648u	-2.8101u	1.8931
Se 196.026	2.6206	1.7331	-2.2042u
Sn 189.925	-1.5985u	0.2215	-1.3371u
Sr 216.596	43.5117	43.6275	43.8007
Ti 334.941	2.2661	2.1920	2.1290
Tl 190.794	-0.7580u	2.1094	-0.1946u
V 292.401	1.0781	1.0418	0.9567
Zn 206.200	1.7345	1.4606	0.9231

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0244	ppb	0.2789	1142.1	-9.0208
Al 308.215	82.9561	ppb	3.3867	4.1	278.131
As 188.980	-0.2698	ppb	1.1960	443.3	-9.2358
B 249.678	10.7816	ppb	0.3853	3.6	295.668
Ba 389.178	28.6233	ppb	0.0559	0.2	739.001
Be 313.042	0.0288	ppb	0.0031	10.7	-224.398
Ca 370.602	4621	ppb	18.20	0.4	14635
Cd 226.502	0.0237	ppb	0.0472	198.8	10.0162
Co 228.615	0.8620	ppb	0.1250	14.5	-1.8083
Cr 267.716	0.2187	ppb	0.0563	25.7	38.9262
Cu 324.754	1.5240	ppb	0.1348	8.8	348.784
Fe 271.441	404.744	ppb	0.8235	0.2	790.764
K 766.491	2293.23	ppb	2.3224	0.1	77302.7
Mg 279.078	1966.27	ppb	4.3833	0.2	5644.65
Mn 257.610	133.891	ppb	0.2232	0.2	36269.6
Mo 202.032	0.2481	ppb	0.3209	129.3	8.0084
Na 330.237	4250.56	ppb	118.474	2.8	258.807
Ni 231.604	1.1809	ppb	0.2100	17.8	-0.4579
Pb 220.353	-0.7129	ppb	0.7662	107.5	13.5444
Sb 206.834	-0.3939	ppb	2.3543	597.6	4.8510
Se 196.026	0.7165	ppb	2.5680	358.4	0.7872
Sn 189.925	-0.9047	ppb	0.9841	108.8	-8.5466
Sr 216.596	43.6467	ppb	0.1454	0.3	738.660
Ti 334.941	2.1957	ppb	0.0686	3.1	654.625
Tl 190.794	0.3856	ppb	1.5192	394.0	-9.7964
V 292.401	1.0255	ppb	0.0623	6.1	27.8310
Zn 206.200	1.3727	ppb	0.4128	30.1	8.4405

680-92717-f-2-a (Samp) **8/1/2013, 10:25:34 AM** **Rack 1, Tube 11**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.0161u	-0.0599u	-0.1726u
Al 308.215	5487.19	5523.55	5488.23
As 188.980	17.8401	12.7012	11.3002
B 249.678	30.4740	31.6742	31.4623
Ba 389.178	60.5798	61.8958	61.4201
Be 313.042	1.2486	1.2648	1.2488
Ca 370.602	35161	35438	35323
Cd 226.502	0.8474	0.8869	0.8439
Co 228.615	13.2772	13.1044	13.0081
Cr 267.716	6.5199	6.6050	6.6470
Cu 324.754	1.1497	1.2918	1.5268
Fe 271.441	4580.06	4648.90	4622.97
K 766.491	2407.28	2412.53	2372.32
Mg 279.078	4093.10	4147.46	4121.99
Mn 257.610	50.8656	51.3465	51.0748
Mo 202.032	2.4956	3.0350	2.4965
Na 330.237	242185x	244303x	244029x
Ni 231.604	12.6576	12.6968	12.3382
Pb 220.353	-0.3798u	-1.6837u	-1.1189u
Sb 206.834	-1.6081u	1.4720	-0.5475u
Se 196.026	9.7514	8.7888	2.3172
Sn 189.925	-0.7099u	0.0590	0.5137
Sr 216.596	59.8182	60.8510	60.6015
Ti 334.941	3.3153	3.3198	3.1916
Tl 190.794	0.7103	-1.6790u	-1.2104u
V 292.401	91.8678	92.6068	91.8903
Zn 206.200	29.2321	28.4508	29.4736

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0829b	ppb	0.0808	97.5	-14.8373
Al 308.215	5499.65b	ppb	20.6987	0.4	16249.1
As 188.980	13.9472b	ppb	3.4434	24.7	3.6191
B 249.678	31.2035b	ppb	0.6406	2.1	636.698
Ba 389.178	61.2985b	ppb	0.6664	1.1	1610.71
Be 313.042	1.2541b	ppb	0.0093	0.7	2231.76
Ca 370.602	35307b	ppb	139.0	0.4	111656
Cd 226.502	0.8594b	ppb	0.0239	2.8	70.5657
Co 228.615	13.1299b	ppb	0.1363	1.0	173.353
Cr 267.716	6.5906b	ppb	0.0647	1.0	446.529
Cu 324.754	1.3228b	ppb	0.1905	14.4	336.509
Fe 271.441	4617.31b	ppb	34.7668	0.8	8862.10
K 766.491	2397.38b	ppb	21.8556	0.9	80805.1
Mg 279.078	4120.85b	ppb	27.1996	0.7	11797.7
Mn 257.610	51.0956b	ppb	0.2411	0.5	13937.6
Mo 202.032	2.6757b	ppb	0.3112	11.6	28.3215
Na 330.237	243506xb	ppb	1152.31	0.5	12298.8
Ni 231.604	12.5642b	ppb	0.1967	1.6	44.0019
Pb 220.353	-1.0608b	ppb	0.6539	61.6	13.0390
Sb 206.834	-0.2279b	ppb	1.5648	686.7	5.3423
Se 196.026	6.9524b	ppb	4.0430	58.2	4.4540
Sn 189.925	-0.0458b	ppb	0.6185	1351.1	-7.4585
Sr 216.596	60.4235b	ppb	0.5389	0.9	1029.17
Ti 334.941	3.2755b	ppb	0.0727	2.2	990.407
Tl 190.794	-0.7264b	ppb	1.2661	174.3	-11.6403
V 292.401	92.1216b	ppb	0.4203	0.5	2773.03
Zn 206.200	29.0522b	ppb	0.5346	720.8	56.6998

680-92717-f-3-a (Samp) **8/1/2013, 10:30:11 AM** **Rack 1, Tube 12**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	-0.1059u	0.2171	0.0440
Al 308.215	418.915	413.179	432.020
As 188.980	-1.7870u	1.1513	0.2140
B 249.678	6.0165	5.7714	6.7361
Ba 389.178	24.6166	24.5053	25.3429
Be 313.042	0.7120	0.7087	0.7678
Ca 370.602	3107	3058	3249
Cd 226.502	0.2633	0.1563	0.0800
Co 228.615	15.1284	15.1545	15.9485
Cr 267.716	1.0695	0.9410	0.9602
Cu 324.754	0.5702	-0.1384u	0.3465
Fe 271.441	836.594	834.520	884.615
K 766.491	503.615	495.548	526.511
Mg 279.078	1783.88	1759.91	1893.07
Mn 257.610	128.578	126.929	135.510
Mo 202.032	-0.3141u	0.1446	-0.1713u
Na 330.237	12808.7	12609.2	13400.6
Ni 231.604	7.8117	7.1204	7.8032
Pb 220.353	-0.0402	2.6844	1.0146
Sb 206.834	-0.5642u	0.4650	1.4804
Se 196.026	0.3590	0.4878	-3.9433u
Sn 189.925	0.0164	-0.8578u	-0.2676u
Sr 216.596	20.3690	21.0761	21.8253
Ti 334.941	1.3288	1.2550	1.2812
Tl 190.794	1.5575	1.0415	-0.1191u
V 292.401	0.3593	0.5107	0.2857
Zn 206.200	20.9744	22.9280	22.3195

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0517	ppb	0.1616	312.5	-1.2852
Al 308.215	421.371	ppb	9.6574	2.3	1276.16
As 188.980	-0.1406	ppb	1.5009	1067.7	-9.1205
B 249.678	6.1746	ppb	0.5014	8.1	215.389
Ba 389.178	24.8216	ppb	0.4549	1.8	639.397
Be 313.042	0.7295	ppb	0.0332	4.6	1190.78
Ca 370.602	3138	ppb	99.39	3.2	9895
Cd 226.502	0.1666	ppb	0.0921	55.3	19.5057
Co 228.615	15.4105	ppb	0.4661	3.0	205.743
Cr 267.716	0.9903	ppb	0.0693	7.0	87.9737
Cu 324.754	0.2594	ppb	0.3622	139.6	268.634
Fe 271.441	851.909	ppb	28.3428	3.3	1649.37
K 766.491	508.558	ppb	16.0624	3.2	17287.1
Mg 279.078	1812.29	ppb	70.9780	3.9	5205.00
Mn 257.610	130.339	ppb	4.5535	3.5	35309.9
Mo 202.032	-0.1136	ppb	0.2347	206.6	4.8893
Na 330.237	12939.5	ppb	411.596	3.2	695.689
Ni 231.604	7.5784	ppb	0.3967	5.2	24.4449
Pb 220.353	1.2196	ppb	1.3738	112.6	17.5442
Sb 206.834	0.4604	ppb	1.0223	222.1	6.3056
Se 196.026	-1.0322	ppb	2.5219	244.3	-0.2422
Sn 189.925	-0.3697	ppb	0.4459	120.6	-7.9463
Sr 216.596	21.0901	ppb	0.7282	3.5	362.267
Ti 334.941	1.2883	ppb	0.0374	2.9	363.598
Tl 190.794	0.8266	ppb	0.8587	103.9	-9.1301
V 292.401	0.3852	ppb	0.1147	29.8	8.4323
Zn 206.200	22.0739	ppb	0.9997	724.5	44.5181

CCV (Samp) **8/1/2013, 10:34:46 AM** **Rack 1, Tube 13**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	481.699	485.977	485.861
Al 308.215	4729.47	4692.82	4746.47
As 188.980	474.167	475.953	468.624
B 249.678	480.657	478.941	480.792
Ba 389.178	4819.30	4797.09	4824.07
Be 313.042	484.132	483.213	485.749
Ca 370.602	4893	4861	4905
Cd 226.502	485.565	483.629	485.297
Co 228.615	491.237	485.535	489.268
Cr 267.716	4974.18	4943.12	4972.87
Cu 324.754	4999.07	4895.91	4885.28
Fe 271.441	4832.14	4799.54	4832.69
K 766.491	9567.32	9563.99	9676.71
Mg 279.078	4808.81	4781.51	4800.62
Mn 257.610	4935.45	4894.99	4930.97
Mo 202.032	484.835	483.875	483.864
Na 330.237	6882.40	6795.68	6933.84
Ni 231.604	2428.47	2419.77	2409.42
Pb 220.353	484.542	483.786	484.259
Sb 206.834	954.503	950.006	954.849
Se 196.026	4780.93	4784.36	4771.55
Sn 189.925	4888.70	4895.29	4931.72
Sr 216.596	2455.50	2443.02	2448.10
Ti 334.941	476.599	474.414	475.675
Tl 190.794	4894.95	4874.41	4879.05
V 292.401	4809.29	4784.44	4807.55
Zn 206.200	2459.64	2438.22	2463.93

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	484.512	ppb	2.4370	0.5	41742.3
Al 308.215	4722.92	ppb	27.4152	0.6	13574.8
As 188.980	472.915	ppb	3.8213	0.8	417.808
B 249.678	480.130	ppb	1.0318	0.2	8353.37
Ba 389.178	4813.49	ppb	14.3969	0.3	126458
Be 313.042	484.365	ppb	1.2842	0.3	978616
Ca 370.602	4886	ppb	23.04	0.5	15559
Cd 226.502	484.830	ppb	1.0487	0.2	26142.0
Co 228.615	488.680	ppb	2.8962	0.6	6969.67
Cr 267.716	4963.39	ppb	17.5656	0.4	313408
Cu 324.754	4926.75	ppb	62.8526	1.3	313126
Fe 271.441	4821.46	ppb	18.9824	0.4	9371.65
K 766.491	9602.67	ppb	64.1408	0.7	323108
Mg 279.078	4796.98	ppb	14.0072	0.3	13623.6
Mn 257.610	4920.47	ppb	22.1803	0.5	1329276
Mo 202.032	484.191	ppb	0.5572	0.1	4136.28
Na 330.237	6870.64	ppb	69.8270	1.0	352.363
Ni 231.604	2419.22	ppb	9.5353	0.4	9422.36
Pb 220.353	484.196	ppb	0.3820	0.1	1010.97
Sb 206.834	953.119	ppb	2.7022	0.3	1648.64
Se 196.026	4778.94	ppb	6.6306	0.1	2817.28
Sn 189.925	4905.24	ppb	23.1722	0.5	5468.03
Sr 216.596	2448.87	ppb	6.2767	0.3	40830.5
Ti 334.941	475.563	ppb	1.0967	0.2	151731
Tl 190.794	4882.80	ppb	10.7680	0.2	7123.86
V 292.401	4800.43	ppb	13.8737	0.3	144438
Zn 206.200	2453.93	ppb	13.7712	0.6	4261.30

CCB (Samp) **8/1/2013, 10:39:19 AM** **Rack 1, Tube 14**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.2081u	0.2538	0.0614
Al 308.215	-3.8569u	-5.0617u	-0.5264u
As 188.980	1.8863	3.8924	1.9097
B 249.678	0.8395	0.4050	0.5138
Ba 389.178	0.6233	0.6575	1.3134
Be 313.042	0.0124	0.0106	0.0096
Ca 370.602	0.1275	1.798	-1.268u
Cd 226.502	0.0603	0.0803	-0.0157u
Co 228.615	1.1985	0.7827	0.6741
Cr 267.716	-0.0115u	0.1225	-0.0119u
Cu 324.754	0.0039	0.0759	-0.3477u
Fe 271.441	-3.8114u	-5.7801u	-3.3029u
K 766.491	-0.7158u	-0.9574u	-0.7486u
Mg 279.078	-3.0541u	-1.8447u	-1.7375u
Mn 257.610	-0.1267u	-0.1254u	-0.1655u
Mo 202.032	0.8114	0.7211	0.4355
Na 330.237	-1.8270u	-117.285u	-25.4729u
Ni 231.604	-0.0013u	0.9935	0.8006
Pb 220.353	-0.9068u	-1.5167u	-0.2847u
Sb 206.834	-1.5901u	-0.8877u	1.0480
Se 196.026	1.5275	-0.4792u	-2.7414u
Sn 189.925	1.7558	0.4504	-3.5621u
Sr 216.596	-0.6205u	0.1749	0.0885
Ti 334.941	-0.0121u	-0.0421u	0.0052
Tl 190.794	-0.2166u	1.5985	2.6572
V 292.401	0.1103	-0.1010u	-0.1724u
Zn 206.200	-1.4131u	-0.8043u	-1.6736u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0357	ppb	0.2320	649.8	-2.2258
Al 308.215	-3.1483	ppb	2.3492	74.6	24.2334
As 188.980	2.5628	ppb	1.1515	44.9	-6.6740
B 249.678	0.5861	ppb	0.2261	38.6	121.372
Ba 389.178	0.8647	ppb	0.3889	45.0	3.3118
Be 313.042	0.0109	ppb	0.0014	12.9	-261.557
Ca 370.602	0.2190	ppb	1.535	700.9	3.303
Cd 226.502	0.0416	ppb	0.0507	121.7	9.2853
Co 228.615	0.8851	ppb	0.2768	31.3	-1.5784
Cr 267.716	0.0330	ppb	0.0775	234.6	26.2250
Cu 324.754	-0.0893	ppb	0.2267	253.9	246.195
Fe 271.441	-4.2981	ppb	1.3084	30.4	7.2708
K 766.491	-0.8073	ppb	0.1311	16.2	157.882
Mg 279.078	-2.2121	ppb	0.7312	33.1	26.4370
Mn 257.610	-0.1392	ppb	0.0227	16.3	44.6564
Mo 202.032	0.6560	ppb	0.1962	29.9	11.5239
Na 330.237	-48.1950	ppb	60.9908	126.6	42.6172
Ni 231.604	0.5976	ppb	0.5276	88.3	-2.7441
Pb 220.353	-0.9028	ppb	0.6160	68.2	13.0854
Sb 206.834	-0.4766	ppb	1.3663	286.7	4.6876
Se 196.026	-0.5644	ppb	2.1357	378.4	-0.0084
Sn 189.925	-0.4520	ppb	2.7714	613.2	-8.0460
Sr 216.596	-0.1190	ppb	0.4364	366.6	6.6135
Ti 334.941	-0.0163	ppb	0.0239	146.7	-61.1389
Tl 190.794	1.3463	ppb	1.4534	108.0	-8.2650
V 292.401	-0.0544	ppb	0.1470	270.3	-4.8476
Zn 206.200	-1.2970	ppb	0.4461	723.4	3.7838

680-92717-f-4-a (Samp) **8/1/2013, 10:43:54 AM** **Rack 1, Tube 15**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	-0.2539u	0.0508	0.0079u
Al 308.215	3729.25	3722.94	3699.87
As 188.980	9.6336	11.3315	14.0401
B 249.678	22.3089	22.3855	22.8004
Ba 389.178	49.4660	48.5634	47.4260
Be 313.042	1.1055	1.1066	1.0910
Ca 370.602	23175	23156	23042
Cd 226.502	0.6447	0.4825	0.6200
Co 228.615	14.5767	14.8759	13.9681
Cr 267.716	4.8774	4.9394	4.8308
Cu 324.754	1.2219	0.7509	1.1127
Fe 271.441	3343.98	3338.54	3330.78
K 766.491	1680.31	1675.76	1669.46
Mg 279.078	3308.69	3295.22	3270.98
Mn 257.610	85.8038	85.8541	85.1718
Mo 202.032	1.5090	1.8083	1.6381
Na 330.237	154806x	154867x	153821x
Ni 231.604	11.0030	11.4639	12.7620
Pb 220.353	-1.5063u	0.5154	0.6969
Sb 206.834	-0.5506u	-1.5273u	-2.7376u
Se 196.026	5.3426	8.5536	7.9633
Sn 189.925	-0.1669u	0.9034	-1.4381u
Sr 216.596	46.7779	46.6679	45.8591
Ti 334.941	2.8319	3.1982	3.1026
Tl 190.794	0.7014	-0.6155u	0.2835
V 292.401	58.3292	58.4962	58.3832
Zn 206.200	35.1346	34.9808	33.3262

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0651b	ppb	0.1649	253.5	-12.5895
Al 308.215	3717.35b	ppb	15.4659	0.4	10994.2
As 188.980	11.6684b	ppb	2.2225	19.0	1.5545
B 249.678	22.4982b	ppb	0.2644	1.2	490.103
Ba 389.178	48.4851b	ppb	1.0223	2.1	1269.51
Be 313.042	1.1010b	ppb	0.0087	0.8	1929.91
Ca 370.602	23124b	ppb	72.14	0.3	73106
Cd 226.502	0.5824b	ppb	0.0874	15.0	51.0427
Co 228.615	14.4736b	ppb	0.4626	3.2	192.488
Cr 267.716	4.8826b	ppb	0.0545	1.1	336.826
Cu 324.754	1.0285b	ppb	0.2465	24.0	317.727
Fe 271.441	3337.77b	ppb	6.6373	0.2	6411.17
K 766.491	1675.18b	ppb	5.4475	0.3	56518.7
Mg 279.078	3291.63b	ppb	19.1104	0.6	9429.49
Mn 257.610	85.6099b	ppb	0.3803	0.4	23249.1
Mo 202.032	1.6518b	ppb	0.1501	9.1	19.7143
Na 330.237	154498xb	ppb	587.276	0.4	7819.40
Ni 231.604	11.7430b	ppb	0.9121	7.8	40.7567
Pb 220.353	-0.0980b	ppb	1.2230	1248.0	14.9582
Sb 206.834	-1.6052b	ppb	1.0956	68.3	3.0156
Se 196.026	7.2865b	ppb	1.7091	23.5	4.6557
Sn 189.925	-0.2339b	ppb	1.1722	501.2	-7.7172
Sr 216.596	46.4350b	ppb	0.5017	1.1	791.909
Ti 334.941	3.0442b	ppb	0.1900	6.2	919.804
Tl 190.794	0.1231b	ppb	0.6729	546.4	-10.3213
V 292.401	58.4029b	ppb	0.0852	0.1	1756.90
Zn 206.200	34.4805b	ppb	1.0926	72.9	66.1518

680-92717-f-5-a (Samp) **8/1/2013, 10:48:28 AM** **Rack 1, Tube 16**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.1201u	0.2217	0.0886
Al 308.215	3791.76	3728.78	3773.45
As 188.980	10.9288	5.6333	7.7098
B 249.678	23.3126	22.6324	22.1783
Ba 389.178	46.0208	46.4987	46.5613
Be 313.042	1.1181	1.0966	1.0843
Ca 370.602	23165	22823	23004
Cd 226.502	0.9480	1.1344	0.8682
Co 228.615	17.3365	17.4762	17.3597
Cr 267.716	3.9888	3.8120	3.8053
Cu 324.754	10.3776	10.1617	10.2265
Fe 271.441	715.298	708.384	705.073
K 766.491	1599.22	1586.39	1592.16
Mg 279.078	2924.81	2887.37	2884.29
Mn 257.610	56.8483	56.0393	56.1819
Mo 202.032	1.2166	0.7324	1.7313
Na 330.237	129909x	127706x	127536x
Ni 231.604	14.7834	14.4659	14.8348
Pb 220.353	-0.6399u	1.2324	0.7032
Sb 206.834	2.4136	-0.8048u	-0.0351
Se 196.026	9.0542	10.9386	10.1868
Sn 189.925	1.4492	-1.3961u	1.0135
Sr 216.596	41.6733	41.6169	41.8946
Ti 334.941	9.0647	9.0891	9.2116
Tl 190.794	-0.9107u	2.2792	-0.1852u
V 292.401	34.2286	33.9565	34.1557
Zn 206.200	41.0229	39.0342	38.6487

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0634b	ppb	0.1723	271.8	-1.5493
Al 308.215	3764.66b	ppb	32.3979	0.9	11135.7
As 188.980	8.0906b	ppb	2.6682	33.0	-1.6382
B 249.678	22.7077b	ppb	0.5709	2.5	499.957
Ba 389.178	46.3603b	ppb	0.2956	0.6	1208.26
Be 313.042	1.0997b	ppb	0.0171	1.6	1931.41
Ca 370.602	22997b	ppb	171.0	0.7	72912
Cd 226.502	0.9835b	ppb	0.1366	13.9	62.0064
Co 228.615	17.3908b	ppb	0.0749	0.4	234.173
Cr 267.716	3.8687b	ppb	0.1040	2.7	271.550
Cu 324.754	10.2553b	ppb	0.1108	1.1	903.067
Fe 271.441	709.585b	ppb	5.2172	0.7	1377.33
K 766.491	1592.59b	ppb	6.4301	0.4	53741.3
Mg 279.078	2898.82b	ppb	22.5555	0.8	8307.81
Mn 257.610	56.3565b	ppb	0.4319	0.8	15335.1
Mo 202.032	1.2268b	ppb	0.4995	40.7	16.2877
Na 330.237	128384xb	ppb	1323.85	1.0	6505.75
Ni 231.604	14.6947b	ppb	0.1998	1.4	52.1714
Pb 220.353	0.4319b	ppb	0.9652	223.5	15.8071
Sb 206.834	0.5246b	ppb	1.6806	320.4	6.4270
Se 196.026	10.0599b	ppb	0.9486	9.4	6.2703
Sn 189.925	0.3556b	ppb	1.5325	431.0	-7.0713
Sr 216.596	41.7283b	ppb	0.1468	0.4	709.659
Ti 334.941	9.1218b	ppb	0.0787	0.9	2859.15
Tl 190.794	0.3944b	ppb	1.6721	423.9	-9.6653
V 292.401	34.1136b	ppb	0.1408	0.4	1024.63
Zn 206.200	39.5686b	ppb	1.2741	3.2	74.9914

680-92717-f-6-a (Samp) **8/1/2013, 10:53:02 AM** **Rack 1, Tube 17**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.0282	-0.1112u	-0.2409u
Al 308.215	3236.36	3223.29	3250.58
As 188.980	8.9674	2.7236	7.4301
B 249.678	21.9890	22.2658	21.6513
Ba 389.178	33.5703	32.7982	33.8571
Be 313.042	0.9218	0.9288	0.9259
Ca 370.602	19128	19102	19211
Cd 226.502	0.7496	0.7362	0.6200
Co 228.615	21.5285	20.6868	21.6063
Cr 267.716	3.0701	3.1271	3.2236
Cu 324.754	7.3432	7.2443	7.4394
Fe 271.441	2024.09	2017.52	2034.19
K 766.491	1492.10	1487.19	1499.18
Mg 279.078	3018.70	3008.91	3025.65
Mn 257.610	91.5542	91.3840	92.0345
Mo 202.032	1.0442	1.2087	1.3958
Na 330.237	121550x	121703x	122272x
Ni 231.604	17.1892	16.4999	16.1064
Pb 220.353	0.6505	-2.0095u	2.9742
Sb 206.834	1.9570	2.4579	1.9291
Se 196.026	1.9035	1.8179	5.3753
Sn 189.925	-3.0437u	1.7697	-1.4245u
Sr 216.596	40.0512	40.1874	40.2236
Ti 334.941	7.2784	7.4958	7.1200
Tl 190.794	-1.1951u	4.0504	-0.2883u
V 292.401	35.4453	35.4334	35.8131
Zn 206.200	58.1135	59.1876	59.5860

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1080b	ppb	0.1346	124.6	-16.0725
Al 308.215	3236.74b	ppb	13.6462	0.4	9578.23
As 188.980	6.3737b	ppb	3.2532	51.0	-3.2146
B 249.678	21.9687b	ppb	0.3077	1.4	484.127
Ba 389.178	33.4085b	ppb	0.5477	1.6	870.510
Be 313.042	0.9255b	ppb	0.0035	0.4	1578.52
Ca 370.602	19147b	ppb	57.03	0.3	60595
Cd 226.502	0.7019b	ppb	0.0712	10.1	52.3103
Co 228.615	21.2739b	ppb	0.5099	2.4	289.572
Cr 267.716	3.1403b	ppb	0.0776	2.5	225.978
Cu 324.754	7.3423b	ppb	0.0976	1.3	718.523
Fe 271.441	2025.27b	ppb	8.4009	0.4	3897.97
K 766.491	1492.82b	ppb	6.0276	0.4	50386.4
Mg 279.078	3017.75b	ppb	8.4105	0.3	8647.19
Mn 257.610	91.6576b	ppb	0.3374	0.4	24876.0
Mo 202.032	1.2162b	ppb	0.1759	14.5	16.1170
Na 330.237	121841xb	ppb	380.521	0.3	6175.81
Ni 231.604	16.5985b	ppb	0.5481	3.3	59.6193
Pb 220.353	0.5384b	ppb	2.4937	463.2	16.1611
Sb 206.834	2.1146b	ppb	0.2976	14.1	9.0869
Se 196.026	3.0322b	ppb	2.0296	66.9	2.1457
Sn 189.925	-0.8995b	ppb	2.4493	272.3	-8.4776
Sr 216.596	40.1541b	ppb	0.0909	0.2	684.486
Ti 334.941	7.2981b	ppb	0.1887	2.6	2278.51
Tl 190.794	0.8557b	ppb	2.8036	327.6	-9.1202
V 292.401	35.5639b	ppb	0.2159	0.6	1068.46
Zn 206.200	58.9624b	ppb	0.7617	1.3	108.808

680-92717-f-7-a (Samp) **8/1/2013, 10:57:36 AM** **Rack 1, Tube 18**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	-0.3305u	-0.2242u	0.0687
Al 308.215	308.634	305.891	300.230
As 188.980	0.9339	-3.1996u	4.0409
B 249.678	15.2105	14.6591	13.9054
Ba 389.178	39.8387	39.0555	38.0758
Be 313.042	0.1929	0.1930	0.1902
Ca 370.602	29068	28882	28234
Cd 226.502	0.0896	0.0024	0.1060
Co 228.615	3.9937	3.1916	3.7606
Cr 267.716	0.6304	0.6774	0.4742
Cu 324.754	0.8124	0.7905	0.5475
Fe 271.441	2373.28	2357.75	2313.28
K 766.491	1331.40	1325.27	1290.66
Mg 279.078	1393.27	1374.65	1343.15
Mn 257.610	556.112	550.844	538.459
Mo 202.032	0.5417	0.3957	0.1087
Na 330.237	5834.81	5953.82	5735.81
Ni 231.604	2.4759	2.3662	2.1418
Pb 220.353	0.6576	2.1449	0.4498
Sb 206.834	2.8134	0.0649	-0.0815u
Se 196.026	1.0472	4.3703	-1.4154u
Sn 189.925	-0.8726u	-0.4404u	0.3637
Sr 216.596	52.0676	51.2597	49.8231
Ti 334.941	3.6016	3.3954	3.3783
Tl 190.794	-1.7731u	-0.7357u	5.5565
V 292.401	1.8282	1.9451	1.9822
Zn 206.200	164.391	164.041	160.157

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1620	ppb	0.2067	127.6	-19.1479
Al 308.215	304.919	ppb	4.2855	1.4	932.767
As 188.980	0.5917	ppb	3.6324	613.9	-8.4823
B 249.678	14.5917	ppb	0.6552	4.5	356.549
Ba 389.178	38.9900	ppb	0.8833	2.3	1012.63
Be 313.042	0.1920	ppb	0.0016	0.8	114.553
Ca 370.602	28728	ppb	437.8	1.5	90975
Cd 226.502	0.0660	ppb	0.0557	84.4	20.2641
Co 228.615	3.6486	ppb	0.4126	11.3	38.0567
Cr 267.716	0.5940	ppb	0.1064	17.9	65.5952
Cu 324.754	0.7168	ppb	0.1470	20.5	298.235
Fe 271.441	2348.10	ppb	31.1422	1.3	4513.51
K 766.491	1315.78	ppb	21.9674	1.7	44432.6
Mg 279.078	1370.36	ppb	25.3329	1.8	3934.45
Mn 257.610	548.471	ppb	9.0624	1.7	148258
Mo 202.032	0.3487	ppb	0.2203	63.2	8.7530
Na 330.237	5841.48	ppb	109.160	1.9	335.968
Ni 231.604	2.3280	ppb	0.1703	7.3	4.0636
Pb 220.353	1.0841	ppb	0.9245	85.3	17.5111
Sb 206.834	0.9323	ppb	1.6307	174.9	7.1176
Se 196.026	1.3340	ppb	2.9035	217.6	1.2804
Sn 189.925	-0.3164	ppb	0.6274	198.3	-7.8754
Sr 216.596	51.0501	ppb	1.1368	2.2	868.787
Ti 334.941	3.4584	ppb	0.1243	3.6	1054.61
Tl 190.794	1.0159	ppb	3.9664	390.4	-9.3246
V 292.401	1.9185	ppb	0.0803	4.2	54.7160
Zn 206.200	162.863	ppb	2.3501	727.4	280.889

680-92717-f-8-a (Samp) **8/1/2013, 11:02:11 AM** **Rack 1, Tube 19**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.1038	-0.0108u	-0.1457u
Al 308.215	1718.24	1707.29	1702.45
As 188.980	0.8563	2.5165	-2.6126u
B 249.678	28.5266	29.6458	29.1833
Ba 389.178	44.0739	45.2367	44.4737
Be 313.042	0.7366	0.7356	0.7427
Ca 370.602	13084	13113	13088
Cd 226.502	0.0813	0.0937	0.2058
Co 228.615	7.7913	7.0235	7.6753
Cr 267.716	0.5202	0.6077	0.6139
Cu 324.754	3.1260	3.0030	3.0374
Fe 271.441	93.9742	100.710	98.4428
K 766.491	1082.10	1093.85	1090.75
Mg 279.078	2168.95	2185.56	2192.52
Mn 257.610	80.0790	80.5524	80.9770
Mo 202.032	0.2029	-0.0503u	0.4019
Na 330.237	160592x	163280x	163329x
Ni 231.604	9.0350	8.7248	9.2264
Pb 220.353	2.0239	-2.1783u	3.6823
Sb 206.834	1.3252	1.2910	1.0000
Se 196.026	10.4589	7.2760	5.3443
Sn 189.925	2.1904	-0.3182u	-0.2204u
Sr 216.596	100.658	101.897	102.995
Ti 334.941	1.1333	1.8263	1.2346
Tl 190.794	-1.9890u	-1.4610u	-2.1953u
V 292.401	4.2634	4.1152	4.3842
Zn 206.200	38.4244	38.4851	39.8680

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0176b	ppb	0.1249	710.2	-11.6833
Al 308.215	1709.33b	ppb	8.0892	0.5	5075.34
As 188.980	0.2534b	ppb	2.6172	1032.9	-8.7353
B 249.678	29.1186b	ppb	0.5624	1.9	611.615
Ba 389.178	44.5948b	ppb	0.5908	1.3	1158.69
Be 313.042	0.7383b	ppb	0.0038	0.5	1194.09
Ca 370.602	13095b	ppb	15.77	0.1	41542
Cd 226.502	0.1269b	ppb	0.0686	54.0	13.0641
Co 228.615	7.4967b	ppb	0.4139	5.5	92.8057
Cr 267.716	0.5806b	ppb	0.0524	9.0	64.9921
Cu 324.754	3.0555b	ppb	0.0635	2.1	445.898
Fe 271.441	97.7090b	ppb	3.4273	3.5	203.648
K 766.491	1088.90b	ppb	6.0868	0.6	36803.0
Mg 279.078	2182.34b	ppb	12.1142	0.6	6262.07
Mn 257.610	80.5361b	ppb	0.4492	0.6	21857.4
Mo 202.032	0.1849b	ppb	0.2267	122.6	7.4784
Na 330.237	162400xb	ppb	1566.15	1.0	8217.99
Ni 231.604	8.9954b	ppb	0.2531	2.8	29.9696
Pb 220.353	1.1760b	ppb	3.0209	256.9	17.3486
Sb 206.834	1.2054b	ppb	0.1787	14.8	7.4963
Se 196.026	7.6931b	ppb	2.5827	33.6	4.8806
Sn 189.925	0.5506b	ppb	1.4210	258.1	-6.8433
Sr 216.596	101.850b	ppb	1.1691	1.1	1711.22
Ti 334.941	1.3981b	ppb	0.3743	26.8	387.477
Tl 190.794	-1.8818b	ppb	0.3787	20.1	-13.0131
V 292.401	4.2543b	ppb	0.1347	3.2	123.841
Zn 206.200	38.9258b	ppb	0.8165	2.1	73.8782

680-92717-f-9-a (Samp) **8/1/2013, 11:06:46 AM** **Rack 1, Tube 20**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	-0.0218u	-0.3242u	0.0428
Al 308.215	1206.35	1239.77	1211.05
As 188.980	0.4072	4.3567	4.4759
B 249.678	22.9590	23.9912	23.4971
Ba 389.178	43.2484	45.0478	44.3041
Be 313.042	0.5164	0.5321	0.5229
Ca 370.602	19582	20061	19680
Cd 226.502	0.1716	0.3463	0.1116
Co 228.615	5.9209	6.0976	5.8451
Cr 267.716	0.7026	0.7912	0.5894
Cu 324.754	2.0668	2.2491	2.0850
Fe 271.441	1281.98	1321.97	1292.03
K 766.491	1192.05	1219.89	1205.06
Mg 279.078	1921.17	1969.08	1932.41
Mn 257.610	303.595	311.924	306.039
Mo 202.032	0.5017	0.1863	0.7675
Na 330.237	98306.8x	100812x	98779.6x
Ni 231.604	6.3103	7.1399	6.2388
Pb 220.353	0.8540	1.0804	0.4008
Sb 206.834	0.1823	-1.8385u	0.4526
Se 196.026	2.7155	3.1841	6.3061
Sn 189.925	-0.0615u	-0.4436u	2.6466
Sr 216.596	82.5427	84.4867	83.2236
Ti 334.941	3.6778	3.5148	3.3914
Tl 190.794	-2.3369u	-2.3585u	-0.6758u
V 292.401	4.1773	4.6799	4.2662
Zn 206.200	91.5537	93.9233	91.1572

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1010b	ppb	0.1959	193.9	-16.7648
Al 308.215	1219.06b	ppb	18.0926	1.5	3629.14
As 188.980	3.0800b	ppb	2.3154	75.2	-6.2077
B 249.678	23.4824b	ppb	0.5162	2.2	511.880
Ba 389.178	44.2001b	ppb	0.9042	2.0	1149.52
Be 313.042	0.5238b	ppb	0.0079	1.5	770.496
Ca 370.602	19774b	ppb	253.3	1.3	62646
Cd 226.502	0.2098b	ppb	0.1219	58.1	22.9559
Co 228.615	5.9545b	ppb	0.1295	2.2	70.9050
Cr 267.716	0.6944b	ppb	0.1012	14.6	72.3754
Cu 324.754	2.1336b	ppb	0.1004	4.7	387.805
Fe 271.441	1298.66b	ppb	20.8041	1.6	2503.75
K 766.491	1205.66b	ppb	13.9329	1.2	40729.7
Mg 279.078	1940.89b	ppb	25.0560	1.3	5568.19
Mn 257.610	307.186b	ppb	4.2813	1.4	83082.7
Mo 202.032	0.4851b	ppb	0.2910	60.0	9.9763
Na 330.237	99299.3xb	ppb	1330.79	1.3	5041.01
Ni 231.604	6.5630b	ppb	0.5009	7.6	20.5308
Pb 220.353	0.7784b	ppb	0.3460	44.5	16.7053
Sb 206.834	-0.4012b	ppb	1.2520	312.1	4.8809
Se 196.026	4.0686b	ppb	1.9519	48.0	2.8164
Sn 189.925	0.7139b	ppb	1.6847	236.0	-6.6867
Sr 216.596	83.4177b	ppb	0.9864	1.2	1406.22
Ti 334.941	3.5280b	ppb	0.1436	4.1	1071.54
Tl 190.794	-1.7904b	ppb	0.9653	53.9	-13.1512
V 292.401	4.3744b	ppb	0.2682	6.1	127.978
Zn 206.200	92.2114b	ppb	1.4957	729.6	166.752

680-92717-f-10-a (Samp) **8/1/2013, 11:11:22 AM** **Rack 1, Tube 21**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.2034	-0.0514u	-0.0468u
Al 308.215	265.140	270.018	264.054
As 188.980	3.2270	-0.2499u	-0.5167u
B 249.678	4.5761	4.9027	4.0720
Ba 389.178	9.8275	10.0805	9.4097
Be 313.042	0.1134	0.1170	0.1105
Ca 370.602	4347	4351	4284
Cd 226.502	0.1159	0.0070	0.1300
Co 228.615	1.6028	1.7055	1.4986
Cr 267.716	0.2004	-0.0795u	0.0459
Cu 324.754	0.2685	0.2937	0.3627
Fe 271.441	292.456	289.468	276.850
K 766.491	245.445	244.421	238.775
Mg 279.078	437.327	431.011	421.462
Mn 257.610	67.9756	67.7866	66.4769
Mo 202.032	0.3627	-0.0282u	0.1572
Na 330.237	20682.2	20491.2	20140.0
Ni 231.604	1.7362	1.7500	2.2427
Pb 220.353	1.5693	0.6498	0.1826
Sb 206.834	-2.2180u	0.6775	-3.2522u
Se 196.026	-2.1876u	-1.7634u	3.8702
Sn 189.925	4.0835	-0.1277u	-0.2282u
Sr 216.596	18.6855	18.4379	17.8530
Ti 334.941	0.9167	1.1450	0.8943
Tl 190.794	0.7260	0.8388	-1.8925u
V 292.401	0.7582	0.8703	0.8449
Zn 206.200	20.0231	19.3432	19.7145

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0351	ppb	0.1458	415.7	-2.8788
Al 308.215	266.404	ppb	3.1763	1.2	819.283
As 188.980	0.8201	ppb	2.0887	254.7	-8.2473
B 249.678	4.5169	ppb	0.4185	9.3	188.254
Ba 389.178	9.7726	ppb	0.3387	3.5	239.053
Be 313.042	0.1137	ppb	0.0032	2.9	-54.5957
Ca 370.602	4327	ppb	37.59	0.9	13711
Cd 226.502	0.0843	ppb	0.0673	79.9	12.6250
Co 228.615	1.6023	ppb	0.1035	6.5	8.7109
Cr 267.716	0.0556	ppb	0.1402	252.1	28.5873
Cu 324.754	0.3083	ppb	0.0488	15.8	271.529
Fe 271.441	286.258	ppb	8.2835	2.9	563.919
K 766.491	242.880	ppb	3.5916	1.5	8352.72
Mg 279.078	429.933	ppb	7.9873	1.9	1258.94
Mn 257.610	67.4130	ppb	0.8162	1.2	18297.1
Mo 202.032	0.1639	ppb	0.1955	119.3	7.2962
Na 330.237	20437.8	ppb	275.052	1.3	1073.28
Ni 231.604	1.9096	ppb	0.2885	15.1	2.3764
Pb 220.353	0.8005	ppb	0.7055	88.1	16.6250
Sb 206.834	-1.5975	ppb	2.0370	127.5	2.8611
Se 196.026	-0.0269	ppb	3.3817	12561.1	0.3293
Sn 189.925	1.2425	ppb	2.4608	198.0	-6.1423
Sr 216.596	18.3255	ppb	0.4275	2.3	315.662
Ti 334.941	0.9853	ppb	0.1387	14.1	258.997
Tl 190.794	-0.1092	ppb	1.5454	1414.7	-10.4599
V 292.401	0.8245	ppb	0.0588	7.1	21.6077
Zn 206.200	19.6936	ppb	0.3404	1.7	40.3673

680-92717-f-11-a (Samp) **8/1/2013, 11:15:58 AM** **Rack 1, Tube 22**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	29.7330	30.1095	30.0010
Al 308.215	3076.16	3073.28	3057.02
As 188.980	193.057	196.419	192.648
B 249.678	466.117	466.112	466.189
Ba 389.178	236.511	236.406	237.586
Be 313.042	48.2696	48.2428	48.2599
Ca 370.602	22185	22154	22101
Cd 226.502	46.9863	47.0715	47.0186
Co 228.615	196.393	195.329	193.597
Cr 267.716	193.400	193.615	193.380
Cu 324.754	199.250	197.084	200.160
Fe 271.441	3196.81	3199.45	3196.11
K 766.491	3316.79	3326.89	3327.81
Mg 279.078	3835.19	3835.14	3832.16
Mn 257.610	508.281	508.178	507.874
Mo 202.032	192.321	193.248	192.974
Na 330.237	105466x	105267x	105139x
Ni 231.604	190.547	192.629	192.362
Pb 220.353	183.787	184.506	184.222
Sb 206.834	179.839	180.853	180.345
Se 196.026	190.550	185.502	187.618
Sn 189.925	194.354	192.056	190.207
Sr 216.596	277.855	277.910	276.007
Ti 334.941	190.978	191.226	191.345
Tl 190.794	182.991	180.271	183.206
V 292.401	193.684	194.719	194.622
Zn 206.200	288.576	287.256	282.092

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	29.9478b	ppb	0.1938	0.6	2568.90
Al 308.215	3068.82b	ppb	10.3202	0.3	9071.26
As 188.980	194.041b	ppb	2.0692	1.1	166.132
B 249.678	466.140b	ppb	0.0431	0.0	8116.83
Ba 389.178	236.834b	ppb	0.6527	0.3	6219.89
Be 313.042	48.2574b	ppb	0.0136	0.0	97227.0
Ca 370.602	22147b	ppb	42.54	0.2	70130
Cd 226.502	47.0254b	ppb	0.0430	0.1	2552.51
Co 228.615	195.106b	ppb	1.4115	0.7	2768.61
Cr 267.716	193.465b	ppb	0.1304	0.1	12244.5
Cu 324.754	198.831b	ppb	1.5800	0.8	12885.9
Fe 271.441	3197.46b	ppb	1.7635	0.1	6170.27
K 766.491	3323.83b	ppb	6.1149	0.2	111960
Mg 279.078	3834.16b	ppb	1.7345	0.0	10969.8
Mn 257.610	508.111b	ppb	0.2118	0.0	137381
Mo 202.032	192.848b	ppb	0.4764	0.2	1654.74
Na 330.237	105291xb	ppb	164.996	0.2	5338.54
Ni 231.604	191.846b	ppb	1.1329	0.6	742.135
Pb 220.353	184.172b	ppb	0.3623	0.2	393.500
Sb 206.834	180.346b	ppb	0.5074	0.3	302.745
Se 196.026	187.890b	ppb	2.5351	1.3	111.181
Sn 189.925	192.206b	ppb	2.0775	1.1	207.074
Sr 216.596	277.257b	ppb	1.0833	0.4	4636.92
Ti 334.941	191.183b	ppb	0.1873	0.1	60965.7
Tl 190.794	182.156b	ppb	1.6358	0.9	256.058
V 292.401	194.342b	ppb	0.5715	0.3	5814.89
Zn 206.200	285.975b	ppb	3.4268	7312	503.621

680-92717-f-11-b ms (Samp) **8/1/2013, 11:20:33 AM** **Rack 1, Tube 23**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.1581u	-0.1072u	-0.0122u
Al 308.215	1207.07	1204.37	1179.59
As 188.980	0.3406	0.0479	-1.4309u
B 249.678	24.5743	24.5826	23.7524
Ba 389.178	45.0070	43.8999	43.9602
Be 313.042	0.5249	0.5156	0.5070
Ca 370.602	19611	19401	19135
Cd 226.502	0.2422	0.1194	0.0570
Co 228.615	5.9402	5.8203	6.1401
Cr 267.716	0.6007	0.8780	0.7230
Cu 324.754	1.8671	2.0268	1.9779
Fe 271.441	1292.94	1282.78	1261.12
K 766.491	1183.28	1187.30	1182.73
Mg 279.078	1930.96	1908.78	1878.36
Mn 257.610	304.550	302.465	298.064
Mo 202.032	0.9251	0.6400	0.5013
Na 330.237	97891.5x	97693.9x	96353.8x
Ni 231.604	6.0428	6.0589	7.3098
Pb 220.353	2.1660	1.7692	-1.3710u
Sb 206.834	1.9529	-1.6179u	-2.2924u
Se 196.026	8.1322	-4.4247u	4.3867
Sn 189.925	-0.2423u	-2.0267u	-0.3056u
Sr 216.596	82.8920	82.0203	80.0539
Ti 334.941	3.9030	4.2467	3.7394
Tl 190.794	-0.8802u	-0.0507u	-0.4616u
V 292.401	4.2684	4.3215	3.7722
Zn 206.200	93.9890	91.0790	92.6077

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0925b	ppb	0.0740	80.0	-15.9829
Al 308.215	1197.01b	ppb	15.1469	1.3	3564.12
As 188.980	-0.3475b	ppb	0.9497	273.3	-9.3022
B 249.678	24.3031b	ppb	0.4770	2.0	526.026
Ba 389.178	44.2890b	ppb	0.6225	1.4	1151.73
Be 313.042	0.5159b	ppb	0.0090	1.7	754.505
Ca 370.602	19382b	ppb	238.6	1.2	61404
Cd 226.502	0.1395b	ppb	0.0942	67.5	19.1218
Co 228.615	5.9669b	ppb	0.1615	2.7	71.0871
Cr 267.716	0.7339b	ppb	0.1389	18.9	74.7898
Cu 324.754	1.9573b	ppb	0.0818	4.2	376.608
Fe 271.441	1278.95b	ppb	16.2494	1.3	2465.99
K 766.491	1184.44b	ppb	2.4931	0.2	40015.8
Mg 279.078	1906.03b	ppb	26.4074	1.4	5468.77
Mn 257.610	301.693b	ppb	3.3115	1.1	81598.6
Mo 202.032	0.6888b	ppb	0.2161	31.4	11.7198
Na 330.237	97313.1xb	ppb	836.586	0.9	4941.04
Ni 231.604	6.4705b	ppb	0.7269	11.2	20.1695
Pb 220.353	0.8547b	ppb	1.9377	226.7	16.8591
Sb 206.834	-0.6525b	ppb	2.2814	349.7	4.4618
Se 196.026	2.6981b	ppb	6.4465	238.9	2.0073
Sn 189.925	-0.8582b	ppb	1.0124	118.0	-8.4428
Sr 216.596	81.6554b	ppb	1.4538	1.8	1376.71
Ti 334.941	3.9630b	ppb	0.2589	6.5	1210.38
Tl 190.794	-0.4641b	ppb	0.4148	89.4	-11.2089
V 292.401	4.1207b	ppb	0.3029	7.4	120.314
Zn 206.200	92.5586b	ppb	1.4556	732.6	167.357

680-92717-f-11-c msd (Samp) **8/1/2013, 11:25:10 AM** **Rack 1, Tube 24**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.0191u	-0.1674u	-0.1752u
Al 308.215	1212.46	1195.50	1154.18
As 188.980	3.5187	-4.1740u	2.7939
B 249.678	23.7871	23.7961	22.6722
Ba 389.178	44.4948	44.3775	43.0268
Be 313.042	0.5345	0.5228	0.4962
Ca 370.602	19770	19534	18874
Cd 226.502	0.2856	0.1644	0.0136
Co 228.615	5.5380	5.8849	5.7051
Cr 267.716	0.6826	0.6276	0.6853
Cu 324.754	2.0552	2.2841	2.0203
Fe 271.441	1302.16	1288.09	1249.10
K 766.491	1214.00	1194.64	1151.35
Mg 279.078	1944.31	1932.57	1859.03
Mn 257.610	307.293	305.182	294.197
Mo 202.032	0.1893	0.2489	0.1092
Na 330.237	99019.8x	98345.0x	94627.6x
Ni 231.604	7.4164	5.9554	6.4071
Pb 220.353	0.5692	-1.9712u	-1.6051u
Sb 206.834	0.6960	-2.5421u	-3.1550u
Se 196.026	8.6341	4.5254	7.5326
Sn 189.925	-1.4968u	-1.5968u	-1.4685u
Sr 216.596	83.3925	82.1365	79.6087
Ti 334.941	3.3336	3.7822	3.5694
Tl 190.794	-2.0941u	1.2348	1.3979
V 292.401	4.0630	4.0046	4.1528
Zn 206.200	93.8685	89.7096	89.3593

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1078b	ppb	0.1100	102.0	-17.3190
Al 308.215	1187.38b	ppb	29.9780	2.5	3535.71
As 188.980	0.7129b	ppb	4.2476	595.8	-8.3448
B 249.678	23.4184b	ppb	0.6463	2.8	510.815
Ba 389.178	43.9663b	ppb	0.8158	1.9	1143.27
Be 313.042	0.5178b	ppb	0.0196	3.8	758.595
Ca 370.602	19392b	ppb	464.4	2.4	61435
Cd 226.502	0.1546b	ppb	0.1363	88.2	19.9357
Co 228.615	5.7093b	ppb	0.1735	3.0	67.4192
Cr 267.716	0.6652b	ppb	0.0326	4.9	70.4558
Cu 324.754	2.1199b	ppb	0.1433	6.8	386.917
Fe 271.441	1279.78b	ppb	27.4870	2.1	2467.55
K 766.491	1186.66b	ppb	32.0775	2.7	40090.6
Mg 279.078	1911.97b	ppb	46.2260	2.4	5485.72
Mn 257.610	302.224b	ppb	7.0311	2.3	81742.0
Mo 202.032	0.1825b	ppb	0.0701	38.4	7.3891
Na 330.237	97330.8xb	ppb	2365.21	2.4	4941.96
Ni 231.604	6.5930b	ppb	0.7480	11.3	20.6478
Pb 220.353	-1.0024b	ppb	1.3733	137.0	13.0418
Sb 206.834	-1.6670b	ppb	2.0693	124.1	2.7962
Se 196.026	6.8974b	ppb	2.1267	30.8	4.4816
Sn 189.925	-1.5207b	ppb	0.0674	4.4	-9.1822
Sr 216.596	81.7126b	ppb	1.9272	2.4	1377.69
Ti 334.941	3.5617b	ppb	0.2244	6.3	1082.34
Tl 190.794	0.1795b	ppb	1.9707	1097.7	-10.2702
V 292.401	4.0735b	ppb	0.0747	1.8	118.972
Zn 206.200	90.9791b	ppb	2.5084	2.8	164.605

CCV (Samp) **8/1/2013, 11:29:45 AM** **Rack 1, Tube 25**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	486.983	476.104	490.996
Al 308.215	4796.98	4671.85	4785.83
As 188.980	481.327	458.637	476.229
B 249.678	482.573	469.211	482.994
Ba 389.178	4836.64	4707.00	4830.94
Be 313.042	485.077	474.787	485.818
Ca 370.602	4921	4806	4921
Cd 226.502	486.625	473.206	484.371
Co 228.615	492.257	480.163	489.782
Cr 267.716	4991.76	4856.43	4988.47
Cu 324.754	4968.05	4804.60	5000.18
Fe 271.441	4843.98	4707.27	4829.80
K 766.491	9739.82	9536.63	9782.84
Mg 279.078	4814.55	4680.71	4797.01
Mn 257.610	4944.49	4811.57	4939.48
Mo 202.032	486.115	473.878	485.404
Na 330.237	6802.15	6745.85	6787.92
Ni 231.604	2424.90	2365.61	2432.32
Pb 220.353	487.126	473.221	481.226
Sb 206.834	965.309	933.574	951.491
Se 196.026	4819.22	4685.79	4762.67
Sn 189.925	4881.99	4800.91	4865.57
Sr 216.596	2450.97	2387.15	2446.07
Ti 334.941	477.781	465.738	477.837
Tl 190.794	4904.74	4756.97	4882.05
V 292.401	4819.99	4698.25	4817.03
Zn 206.200	2462.26	2398.56	2449.75

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	484.694	ppb	7.7055	1.6	41759.3
Al 308.215	4751.55	ppb	69.2502	1.5	13661.0
As 188.980	472.064	ppb	11.9047	2.5	417.042
B 249.678	478.260	ppb	7.8389	1.6	8321.28
Ba 389.178	4791.53	ppb	73.2557	1.5	125881
Be 313.042	481.894	ppb	6.1660	1.3	973623
Ca 370.602	4883	ppb	66.54	1.4	15549
Cd 226.502	481.401	ppb	7.1855	1.5	25957.2
Co 228.615	487.400	ppb	6.3890	1.3	6951.41
Cr 267.716	4945.55	ppb	77.2024	1.6	312282
Cu 324.754	4924.28	ppb	104.877	2.1	312969
Fe 271.441	4793.68	ppb	75.1690	1.6	9318.01
K 766.491	9686.43	ppb	131.501	1.4	325925
Mg 279.078	4764.09	ppb	72.7389	1.5	13530.3
Mn 257.610	4898.52	ppb	75.3370	1.5	1323346
Mo 202.032	481.799	ppb	6.8687	1.4	4115.87
Na 330.237	6778.64	ppb	29.2774	0.4	348.041
Ni 231.604	2407.61	ppb	36.5641	1.5	9377.11
Pb 220.353	480.525	ppb	6.9789	1.5	1003.42
Sb 206.834	950.125	ppb	15.9118	1.7	1643.22
Se 196.026	4755.89	ppb	66.9727	1.4	2803.69
Sn 189.925	4849.49	ppb	42.8677	0.9	5405.80
Sr 216.596	2428.07	ppb	35.5171	1.5	40483.4
Ti 334.941	473.785	ppb	6.9692	1.5	151163
Tl 190.794	4847.92	ppb	79.5780	1.6	7072.90
V 292.401	4778.43	ppb	69.4480	1.5	143777
Zn 206.200	2436.86	ppb	33.7473	1.4	4231.69

CCB (Samp) **8/1/2013, 11:34:30 AM** **Rack 1, Tube 26**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.0022	0.3379	-0.1101u
Al 308.215	-0.3909u	-4.4548u	0.9708
As 188.980	-1.2231u	-0.0668u	3.6179
B 249.678	0.7874	0.8258	0.4765
Ba 389.178	1.1935	0.7248	0.9305
Be 313.042	0.0972	0.0456	0.0149
Ca 370.602	3.078	0.6280	-3.493u
Cd 226.502	0.1329	0.1179	0.0466
Co 228.615	0.2336	1.2308	1.0416
Cr 267.716	1.0138	0.5234	0.2173
Cu 324.754	0.6409	0.2483	-0.1330u
Fe 271.441	-5.0757u	-4.4184u	-3.5795u
K 766.491	-0.3909u	-0.3048u	-1.1585u
Mg 279.078	0.6782	-0.6737u	-4.4005u
Mn 257.610	0.8419	0.2494	-0.0909u
Mo 202.032	0.9933	1.4353	0.6871
Na 330.237	-98.4619u	-16.8193u	-60.9947u
Ni 231.604	0.6034	1.1612	0.6385
Pb 220.353	-0.1473u	-1.4400u	-2.3590u
Sb 206.834	1.0705	1.4808	-2.6894u
Se 196.026	2.4920	4.2636	-5.7933u
Sn 189.925	2.6671	0.1457	0.8120
Sr 216.596	0.4455	0.0837	-0.0278u
Ti 334.941	0.0664	0.0284	-0.0025u
Tl 190.794	0.7420	3.1504	0.5965
V 292.401	1.0627	0.4133	-0.3720u
Zn 206.200	0.1709	0.0595	-1.3355u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0767	ppb	0.2331	304.0	1.3096
Al 308.215	-1.2916	ppb	2.8227	218.5	29.6864
As 188.980	0.7760	ppb	2.5282	325.8	-8.2873
B 249.678	0.6966	ppb	0.1915	27.5	123.272
Ba 389.178	0.9496	ppb	0.2349	24.7	5.5470
Be 313.042	0.0526	ppb	0.0416	79.2	-177.313
Ca 370.602	0.0710	ppb	3.321	4680.0	2.885
Cd 226.502	0.0991	ppb	0.0461	46.5	12.3822
Co 228.615	0.8354	ppb	0.5296	63.4	-2.2974
Cr 267.716	0.5848	ppb	0.4018	68.7	61.0651
Cu 324.754	0.2521	ppb	0.3870	153.5	267.884
Fe 271.441	-4.3579	ppb	0.7499	17.2	7.1552
K 766.491	-0.6180	ppb	0.4700	76.0	164.245
Mg 279.078	-1.4654	ppb	2.6303	179.5	28.5582
Mn 257.610	0.3335	ppb	0.4720	141.6	172.341
Mo 202.032	1.0386	ppb	0.3762	36.2	14.7951
Na 330.237	-58.7586	ppb	40.8672	69.6	42.0742
Ni 231.604	0.8010	ppb	0.3124	39.0	-1.9511
Pb 220.353	-1.3154	ppb	1.1111	84.5	12.2362
Sb 206.834	-0.0460	ppb	2.2984	4994.7	5.3989
Se 196.026	0.3208	ppb	5.3685	1673.7	0.5133
Sn 189.925	1.2083	ppb	1.3066	108.1	-6.1927
Sr 216.596	0.1672	ppb	0.2474	148.0	11.3817
Ti 334.941	0.0308	ppb	0.0345	112.0	-46.1122
Tl 190.794	1.4963	ppb	1.4344	95.9	-8.0463
V 292.401	0.3680	ppb	0.7184	195.2	7.7963
Zn 206.200	-0.3684	ppb	0.8394	227.9	5.3998

680-92716-a-1-a (Samp) **8/1/2013, 11:39:05 AM** **Rack 1, Tube 27**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	-0.0625u	-0.0702u	-0.2898u
Al 308.215	154.384	154.876	155.482
As 188.980	4.7938	2.1428	4.7219
B 249.678	1704.92	1702.48	1708.38
Ba 389.178	50.2804	50.2462	50.2000
Be 313.042	0.2863	0.2861	0.2824
Ca 370.602	184576	183336	182873
Cd 226.502	26.9844	26.7885	26.6370
Co 228.615	1.4928	0.9853	1.5453
Cr 267.716	0.6308	0.7288	0.7409
Cu 324.754	0.7792	0.5586	0.5471
Fe 271.441	22.1846	16.9514	13.4839
K 766.491	258972x	258300x	258239x
Mg 279.078	6108.42	6078.57	6085.24
Mn 257.610	431.028	430.435	429.704
Mo 202.032	12.4281	12.5832	12.8880
Na 330.237	4895521x	4874475x	4862875x
Ni 231.604	26.4717	27.3919	28.5283
Pb 220.353	-1.0028u	-1.9422u	-1.2053u
Sb 206.834	5.8652	3.3408	2.5167
Se 196.026	17.8362	20.0284	22.1625
Sn 189.925	-3.2033u	0.1041	-3.5715u
Sr 216.596	319.145	317.569	318.103
Ti 334.941	1.5827	1.4883	1.6122
Tl 190.794	-5.4544u	-4.7864u	-6.5151u
V 292.401	3.3433	3.4959	3.5976
Zn 206.200	30.7940	30.7458	31.6646

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1408b	ppb	0.1291	91.7	-32.1749
Al 308.215	154.914b	ppb	0.5499	0.4	490.621
As 188.980	3.8862b	ppb	1.5102	38.9	-5.4816
B 249.678	1705.26b	ppb	2.9682	0.2	29426.3
Ba 389.178	50.2422b	ppb	0.0403	0.1	1318.65
Be 313.042	0.2850b	ppb	0.0022	0.8	-249.795
Ca 370.602	183595b	ppb	880.7	0.5	582477
Cd 226.502	26.8033b	ppb	0.1742	0.6	1412.29
Co 228.615	1.3412b	ppb	0.3093	23.1	4.7622
Cr 267.716	0.7002b	ppb	0.0604	8.6	182.724
Cu 324.754	0.6283b	ppb	0.1308	20.8	292.173
Fe 271.441	17.5400b	ppb	4.3801	25.0	49.2047
K 766.491	258504xb	ppb	406.769	0.2	8693272
Mg 279.078	6090.74b	ppb	15.6665	0.3	17415.6
Mn 257.610	430.389b	ppb	0.6632	0.2	116371
Mo 202.032	12.6331b	ppb	0.2340	1.9	113.959
Na 330.237	4877624xb	ppb	16548.9	0.3	245534
Ni 231.604	27.4640b	ppb	1.0302	3.8	101.966
Pb 220.353	-1.3834b	ppb	0.4944	35.7	12.1896
Sb 206.834	3.9076b	ppb	1.7447	44.6	11.7057
Se 196.026	20.0090b	ppb	2.1632	10.8	12.2387
Sn 189.925	-2.2236b	ppb	2.0242	91.0	-7.6322
Sr 216.596	318.272b	ppb	0.8014	0.3	5351.11
Ti 334.941	1.5611b	ppb	0.0647	4.1	48.1139
Tl 190.794	-5.5853b	ppb	0.8718	15.6	-18.6886
V 292.401	3.4789b	ppb	0.1280	3.7	57.7387
Zn 206.200	31.0681b	ppb	0.5171	1.7	60.1758

680-92716-a-2-a (Samp) **8/1/2013, 11:43:39 AM** **Rack 1, Tube 28**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.3036	-0.0026u	-0.1467u
Al 308.215	155.982	153.317	157.311
As 188.980	1.0473	0.2933	0.1496
B 249.678	341.745	342.301	340.068
Ba 389.178	11.5886	11.2993	11.6036
Be 313.042	0.1206	0.1190	0.1108
Ca 370.602	25543	25635	25457
Cd 226.502	74.3337	74.6718	74.0126
Co 228.615	0.8798	1.1238	0.5676
Cr 267.716	3.2670	3.4583	3.3113
Cu 324.754	2.4493	2.3586	2.5524
Fe 271.441	565.355	565.676	555.388
K 766.491	52713.7x	52757.7x	52313.5x
Mg 279.078	2476.84	2485.98	2472.16
Mn 257.610	66.6663	66.8444	66.4931
Mo 202.032	6.6131	6.7316	6.3141
Na 330.237	1583700x	1586375x	1592722x
Ni 231.604	36.4987	35.7160	35.3216
Pb 220.353	-0.8920u	0.9173	-1.4683u
Sb 206.834	2.9697	1.3361	9.2140
Se 196.026	5.5050	4.3539	10.5461
Sn 189.925	8.0322	7.0343	6.8727
Sr 216.596	58.5589	59.0178	57.9844
Ti 334.941	0.8437	0.8836	0.8740
Tl 190.794	-1.9660u	-1.5582u	-3.3818u
V 292.401	1.4325	1.4596	1.5465
Zn 206.200	28.1878	28.6292	26.1677

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0514b	ppb	0.2300	447.0	-3.6076
Al 308.215	155.537b	ppb	2.0338	1.3	492.398
As 188.980	0.4967b	ppb	0.4822	97.1	-8.5473
B 249.678	341.371b	ppb	1.1624	0.3	5978.44
Ba 389.178	11.4971b	ppb	0.1715	1.5	290.958
Be 313.042	0.1168b	ppb	0.0053	4.5	-236.105
Ca 370.602	25545b	ppb	89.15	0.3	81002
Cd 226.502	74.3394b	ppb	0.3296	0.4	4001.01
Co 228.615	0.8571b	ppb	0.2788	32.5	-2.0871
Cr 267.716	3.3455b	ppb	0.1001	3.0	271.660
Cu 324.754	2.4535b	ppb	0.0970	4.0	408.099
Fe 271.441	562.140b	ppb	5.8495	1.0	1092.26
K 766.491	52595.0xb	ppb	244.768	0.5	1768872
Mg 279.078	2478.33b	ppb	7.0333	0.3	7108.30
Mn 257.610	66.6679b	ppb	0.1756	0.3	18106.8
Mo 202.032	6.5529b	ppb	0.2151	3.3	61.9247
Na 330.237	1587599xb	ppb	4634.18	0.3	79947.9
Ni 231.604	35.8454b	ppb	0.5991	1.7	134.650
Pb 220.353	-0.4810b	ppb	1.2448	258.8	14.0062
Sb 206.834	4.5066b	ppb	4.1577	92.3	12.8663
Se 196.026	6.8017b	ppb	3.2934	48.4	4.3532
Sn 189.925	7.3130b	ppb	0.6280	8.6	1.3829
Sr 216.596	58.5204b	ppb	0.5178	0.9	989.499
Ti 334.941	0.8671b	ppb	0.0208	2.4	94.7196
Tl 190.794	-2.3020b	ppb	0.9571	41.6	-13.6958
V 292.401	1.4796b	ppb	0.0595	4.0	26.5298
Zn 206.200	27.6616b	ppb	1.3124	4.7	54.2398

680-92716-a-3-a (Samp) **8/1/2013, 11:48:13 AM** **Rack 1, Tube 29**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.1048	0.1339	0.1038
Al 308.215	866.676	873.332	886.614
As 188.980	3.6107	-2.9531u	0.5510
B 249.678	383.659	390.903	395.433
Ba 389.178	2.2077	1.9109	2.7725
Be 313.042	0.2751	0.2828	0.2699
Ca 370.602	2164	2201	2219
Cd 226.502	100.215	102.652	103.626
Co 228.615	2.9734	1.9932	2.9467
Cr 267.716	47.7188	48.5400	49.0720
Cu 324.754	53.8494	55.0894	55.7905
Fe 271.441	1030.86	1040.32	1052.44
K 766.491	224344x	228508x	229958x
Mg 279.078	1071.60	1094.58	1113.89
Mn 257.610	31.6618	32.1115	32.5945
Mo 202.032	24.4064	24.5680	24.2390
Na 330.237	3891944x	3971371x	4015420x
Ni 231.604	300.691	303.075	307.316
Pb 220.353	0.8051	-0.6649u	-1.5806u
Sb 206.834	3.5305	4.5542	8.1517
Se 196.026	22.7798	26.1990	27.3904
Sn 189.925	-2.9588u	-5.5247u	-1.7666u
Sr 216.596	4.4243	3.8790	3.8190
Ti 334.941	9.4078	9.5915	9.5956
Tl 190.794	-1.6860u	-4.3688u	-4.7249u
V 292.401	5.7819	6.0222	6.1182
Zn 206.200	37.4832	36.3324	38.5623

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1142b	ppb	0.0171	15.0	4.5701
Al 308.215	875.541b	ppb	10.1511	1.2	2616.45
As 188.980	0.4029b	ppb	3.2844	815.3	-8.6355
B 249.678	389.998b	ppb	5.9390	1.5	6813.75
Ba 389.178	2.2970b	ppb	0.4377	19.1	46.0343
Be 313.042	0.2759b	ppb	0.0065	2.3	-224.082
Ca 370.602	2195b	ppb	28.23	1.3	6888
Cd 226.502	102.164b	ppb	1.7568	1.7	5482.96
Co 228.615	2.6378b	ppb	0.5584	21.2	23.2865
Cr 267.716	48.4436b	ppb	0.6817	1.4	3173.47
Cu 324.754	54.9098b	ppb	0.9829	1.8	3740.55
Fe 271.441	1041.21b	ppb	10.8182	1.0	2010.28
K 766.491	227603xb	ppb	2914.09	1.3	7654131
Mg 279.078	1093.36b	ppb	21.1674	1.9	3154.06
Mn 257.610	32.1226b	ppb	0.4665	1.5	8748.45
Mo 202.032	24.4045b	ppb	0.1645	0.7	214.574
Na 330.237	3959579xb	ppb	62577.0	1.6	199329
Ni 231.604	303.694b	ppb	3.3557	1.1	1178.59
Pb 220.353	-0.4801b	ppb	1.2036	250.7	13.9887
Sb 206.834	5.4122b	ppb	2.4271	44.8	14.6683
Se 196.026	25.4564b	ppb	2.3933	9.4	15.3354
Sn 189.925	-3.4167b	ppb	1.9204	56.2	-9.4990
Sr 216.596	4.0408b	ppb	0.3335	8.3	69.3950
Ti 334.941	9.5316b	ppb	0.1072	1.1	2646.28
Tl 190.794	-3.5932b	ppb	1.6613	46.2	-15.6044
V 292.401	5.9741b	ppb	0.1733	2.9	135.986
Zn 206.200	37.4593b	ppb	1.1152	7380	71.1230

680-92716-a-4-a (Samp) **8/1/2013, 11:52:48 AM** **Rack 1, Tube 30**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.1824u	-0.1565u	-0.0733u
Al 308.215	842.129	833.885	836.218
As 188.980	4.4644	-2.6386u	-6.0813u
B 249.678	1163.77	1168.31	1167.51
Ba 389.178	2.6828	2.1152	2.2721
Be 313.042	0.1717	0.1669	0.1746
Ca 370.602	20625	20579	20552
Cd 226.502	16.7688	16.5895	16.4400
Co 228.615	0.2525	-0.1196	0.7151
Cr 267.716	1091.91	1092.29	1092.22
Cu 324.754	1.7265	1.6920	1.6600
Fe 271.441	133.910	139.314	140.711
K 766.491	54477.1x	54546.6x	54982.1x
Mg 279.078	2693.55	2704.94	2706.62
Mn 257.610	187.784	187.766	187.823
Mo 202.032	23.4299	22.6565	23.1805
Na 330.237	2558903x	2563061x	2565138x
Ni 231.604	127.794	126.509	125.343
Pb 220.353	-3.0549u	-0.1588u	-0.8762u
Sb 206.834	5.7367	3.9759	4.0437
Se 196.026	12.2691	6.1767	-3.7582u
Sn 189.925	-5.2540u	-3.2020u	-1.9206u
Sr 216.596	62.6254	62.4097	61.8953
Ti 334.941	3.0226	2.9570	2.9239
Tl 190.794	-5.8647u	1.1274	-3.8245u
V 292.401	2.2911u	2.5037u	2.0988u
Zn 206.200	8.5882	8.5811	7.8214

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1374b	ppb	0.0570	41.5	-19.4750
Al 308.215	837.411b	ppb	4.2495	0.5	2504.41
As 188.980	-1.4185b	ppb	5.3777	379.1	-10.2671
B 249.678	1166.53b	ppb	2.4278	0.2	20164.4
Ba 389.178	2.3567b	ppb	0.2931	12.4	50.9325
Be 313.042	0.1711b	ppb	0.0039	2.3	-250.235
Ca 370.602	20586b	ppb	36.53	0.2	65306
Cd 226.502	16.5994b	ppb	0.1646	1.0	881.430
Co 228.615	0.2827b	ppb	0.4182	148.0	-6.4780
Cr 267.716	1092.14b	ppb	0.2018	0.0	69048.7
Cu 324.754	1.6929b	ppb	0.0333	2.0	360.231
Fe 271.441	137.979b	ppb	3.5920	2.6	282.184
K 766.491	54668.6xb	ppb	273.724	0.5	1838605
Mg 279.078	2701.70b	ppb	7.1067	0.3	7743.16
Mn 257.610	187.791b	ppb	0.0291	0.0	50819.6
Mo 202.032	23.0890b	ppb	0.3947	1.7	203.388
Na 330.237	2562367xb	ppb	3174.88	0.1	129008
Ni 231.604	126.549b	ppb	1.2258	1.0	488.153
Pb 220.353	-1.3633b	ppb	1.5082	110.6	12.1437
Sb 206.834	4.5854b	ppb	0.9976	21.8	28.3569
Se 196.026	4.8959b	ppb	8.0900	165.2	3.2642
Sn 189.925	-3.4588b	ppb	1.6815	48.6	-10.1861
Sr 216.596	62.3101b	ppb	0.3751	0.6	1048.71
Ti 334.941	2.9679b	ppb	0.0502	1.7	680.983
Tl 190.794	-2.8539b	ppb	3.5957	126.0	-14.5576
V 292.401	2.2979b	ppb	0.2025	8.8	-23.5230
Zn 206.200	8.3302b	ppb	0.4407	7393	15.9053

680-92716-a-5-a (Samp) **8/1/2013, 11:57:22 AM** **Rack 1, Tube 31**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.9124	0.8006	0.6770
Al 308.215	387.433	394.944	397.844
As 188.980	1.3398	-1.3046u	-0.2671u
B 249.678	607.003	608.315	609.472
Ba 389.178	5.6315	6.4614	6.7527
Be 313.042	0.1435	0.1460	0.1421
Ca 370.602	33447	33718	33998
Cd 226.502	13.5569	13.5661	13.8185
Co 228.615	2.0711	2.2718	2.0405
Cr 267.716	32.2725	32.4015	32.6630
Cu 324.754	41.5803	41.5924	41.3444
Fe 271.441	216.042	217.077	218.537
K 766.491	82423.5x	81607.8x	81415.2x
Mg 279.078	2308.56	2315.50	2328.92
Mn 257.610	110.760	110.966	111.652
Mo 202.032	8.7485	7.9569	8.1710
Na 330.237	2165419x	2178206x	2193865x
Ni 231.604	1285.13	1294.71	1302.91
Pb 220.353	-2.2570u	-2.2094u	-0.0950u
Sb 206.834	1.5347	3.7392	10.3347
Se 196.026	13.1336	11.5239	6.3531
Sn 189.925	-1.5647u	-4.3482u	-2.9359u
Sr 216.596	52.0312	52.0383	52.1149
Ti 334.941	2.4718	2.5686	2.6634
Tl 190.794	-2.0402u	-2.3475u	-5.2086u
V 292.401	1.0666	1.2444	0.6789u
Zn 206.200	1.7232	2.2323	2.5479

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.7966b	ppb	0.1178	14.8	61.4371
Al 308.215	393.407b	ppb	5.3727	1.4	1194.17
As 188.980	-0.0773b	ppb	1.3324	1723.8	-9.0579
B 249.678	608.263b	ppb	1.2351	0.2	10567.4
Ba 389.178	6.2819b	ppb	0.5817	9.3	152.932
Be 313.042	0.1439b	ppb	0.0020	1.4	-252.181
Ca 370.602	33721b	ppb	275.1	0.8	106971
Cd 226.502	13.6472b	ppb	0.1485	1.1	725.778
Co 228.615	2.1278b	ppb	0.1256	5.9	16.1571
Cr 267.716	32.4457b	ppb	0.1989	0.6	2123.76
Cu 324.754	41.5057b	ppb	0.1398	0.3	2888.39
Fe 271.441	217.219b	ppb	1.2535	0.6	431.834
K 766.491	81815.5xb	ppb	535.293	0.7	2751513
Mg 279.078	2317.66b	ppb	10.3478	0.4	6648.37
Mn 257.610	111.126b	ppb	0.4668	0.4	30109.8
Mo 202.032	8.2921b	ppb	0.4095	4.9	76.8224
Na 330.237	2179163xb	ppb	14247.1	0.7	109722
Ni 231.604	1294.25b	ppb	8.8991	0.7	5039.22
Pb 220.353	-1.5205b	ppb	1.2347	81.2	11.8402
Sb 206.834	5.2029b	ppb	4.5790	88.0	14.3838
Se 196.026	10.3369b	ppb	3.5426	34.3	6.4476
Sn 189.925	-2.9496b	ppb	1.3918	47.2	-9.7912
Sr 216.596	52.0615b	ppb	0.0464	0.1	849.307
Ti 334.941	2.5679b	ppb	0.0958	3.7	585.070
Tl 190.794	-3.1988b	ppb	1.7473	54.6	-14.9998
V 292.401	0.9966b	ppb	0.2892	29.0	4.8904
Zn 206.200	2.1678b	ppb	0.4161	19.2	9.6833

680-92716-a-6-a (Samp) **8/1/2013, 12:04:59 PM** **Rack 1, Tube 32**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	7.1570	7.2698	7.1837
Al 308.215	804.351	790.508	797.748
As 188.980	-2.7843u	-3.4990u	-1.6443u
B 249.678	557.637	544.375	556.820
Ba 389.178	9.9309	8.8282	9.1405
Be 313.042	0.1250	0.1307	0.1334
Ca 370.602	32509	31737	32392
Cd 226.502	51.6184	50.4938	51.9127
Co 228.615	1.7682	1.8819	1.4833
Cr 267.716	30.8969	30.0702	30.7412
Cu 324.754	16.7156	16.5647	17.1171
Fe 271.441	362.885	358.864	367.941
K 766.491	78527.6x	76959.7x	78297.3x
Mg 279.078	2198.35	2143.84	2194.28
Mn 257.610	90.3053	88.0465	89.9142
Mo 202.032	7.6653	7.5242	7.5639
Na 330.237	2009172x	1977102x	2017280x
Ni 231.604	1182.50	1127.36	1157.35
Pb 220.353	-0.5330u	0.7385	-1.2192u
Sb 206.834	3.5638	4.5677	6.5523
Se 196.026	10.2344	13.2690	24.1362
Sn 189.925	-2.5452u	-1.7904u	-3.7607u
Sr 216.596	55.2096	53.5257	55.4961
Ti 334.941	3.3047	3.1420	3.2140
Tl 190.794	-2.5274u	-0.4957u	-1.4665u
V 292.401	1.2850	1.3882	1.3330
Zn 206.200	14.1159	13.8739	12.8828

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	7.2035b	ppb	0.0589	0.8	614.122
Al 308.215	797.536b	ppb	6.9244	0.9	2386.26
As 188.980	-2.6425b	ppb	0.9355	35.4	-11.3700
B 249.678	552.944b	ppb	7.4321	1.3	9616.06
Ba 389.178	9.2999b	ppb	0.5683	6.1	232.015
Be 313.042	0.1297b	ppb	0.0043	3.3	-259.714
Ca 370.602	32213b	ppb	416.0	1.3	102175
Cd 226.502	51.3416b	ppb	0.7488	1.5	2758.12
Co 228.615	1.7112b	ppb	0.2053	12.0	10.2553
Cr 267.716	30.5694b	ppb	0.4393	1.4	2000.69
Cu 324.754	16.7991b	ppb	0.2855	1.7	1319.21
Fe 271.441	363.230b	ppb	4.5481	1.3	711.448
K 766.491	77928.2xb	ppb	846.615	1.1	2620790
Mg 279.078	2178.82b	ppb	30.3660	1.4	6252.26
Mn 257.610	89.4220b	ppb	1.2072	1.3	24247.2
Mo 202.032	7.5845b	ppb	0.0727	1.0	70.7605
Na 330.237	2001185xb	ppb	21246.5	1.1	100764
Ni 231.604	1155.74b	ppb	27.6039	2.4	4499.37
Pb 220.353	-0.3379b	ppb	0.9933	294.0	14.2708
Sb 206.834	4.8946b	ppb	1.5208	31.1	13.8682
Se 196.026	15.8799b	ppb	7.3094	46.0	9.7074
Sn 189.925	-2.6987b	ppb	0.9941	36.8	-9.5943
Sr 216.596	54.7438b	ppb	1.0646	1.9	897.766
Ti 334.941	3.2202b	ppb	0.0815	2.5	807.831
Tl 190.794	-1.4965b	ppb	1.0162	67.9	-12.5125
V 292.401	1.3354b	ppb	0.0517	3.9	16.8833
Zn 206.200	13.6242b	ppb	0.6534	4.8	741.8 29.6584

680-92716-a-7-a (Samp) **8/1/2013, 12:09:35 PM** **Rack 1, Tube 33**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	1.2449	1.1572	1.1411
Al 308.215	1345.51	1332.43	1329.48
As 188.980	0.2029	-2.7150u	-1.1355u
B 249.678	605.651	604.957	603.157
Ba 389.178	9.4185	9.6998	9.4460
Be 313.042	0.1297	0.1401	0.1347
Ca 370.602	38392	38313	38183
Cd 226.502	33.1968	33.1977	32.7150
Co 228.615	1.2684	1.6055	1.8948
Cr 267.716	26.7358	26.5977	26.8525
Cu 324.754	16.1273	16.2476	16.1091
Fe 271.441	160.610	161.184	155.649
K 766.491	70167.6x	70489.1x	70530.3x
Mg 279.078	2482.45	2479.47	2464.41
Mn 257.610	140.645	140.101	139.671
Mo 202.032	7.8220	7.9222	7.4881
Na 330.237	1982994x	1996372x	1998441x
Ni 231.604	1095.59	1085.59	1090.82
Pb 220.353	-0.6318u	0.3235	-1.2734u
Sb 206.834	4.3795	3.5025	5.3457
Se 196.026	2.9926	8.7825	3.0787
Sn 189.925	-1.7571u	-0.2866	1.2277
Sr 216.596	57.9917	57.3342	57.2650
Ti 334.941	2.0341	2.0560	2.0214
Tl 190.794	-3.4562u	-1.9880u	-3.0990u
V 292.401	1.3436	1.5021	1.1754
Zn 206.200	43.7399	43.2292	42.5512

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	1.1810b	ppb	0.0559	4.7	94.4541
Al 308.215	1335.80b	ppb	8.5303	0.6	3974.10
As 188.980	-1.2159b	ppb	1.4606	120.1	-10.0712
B 249.678	604.588b	ppb	1.2870	0.2	10504.3
Ba 389.178	9.5215b	ppb	0.1551	1.6	238.410
Be 313.042	0.1348b	ppb	0.0052	3.9	-245.540
Ca 370.602	38296b	ppb	105.6	0.3	121490
Cd 226.502	33.0365b	ppb	0.2784	0.8	1771.38
Co 228.615	1.5896b	ppb	0.3135	19.7	8.4491
Cr 267.716	26.7287b	ppb	0.1275	0.5	1758.42
Cu 324.754	16.1613b	ppb	0.0753	0.5	1278.63
Fe 271.441	159.148b	ppb	3.0436	1.9	320.517
K 766.491	70395.7xb	ppb	198.564	0.3	2367483
Mg 279.078	2475.44b	ppb	9.6716	0.4	7097.90
Mn 257.610	140.139b	ppb	0.4883	0.3	37949.5
Mo 202.032	7.7441b	ppb	0.2273	2.9	72.1372
Na 330.237	1992602xb	ppb	8385.09	0.4	100332
Ni 231.604	1090.67b	ppb	5.0003	0.5	4245.76
Pb 220.353	-0.5273b	ppb	0.8036	152.4	13.8656
Sb 206.834	4.4092b	ppb	0.9220	20.9	13.0022
Se 196.026	4.9513b	ppb	3.3182	67.0	3.2829
Sn 189.925	-0.2720b	ppb	1.4925	548.7	-6.8858
Sr 216.596	57.5303b	ppb	0.4011	0.7	946.692
Ti 334.941	2.0372b	ppb	0.0175	0.9	432.602
Tl 190.794	-2.8477b	ppb	0.7657	26.9	-14.5026
V 292.401	1.3404b	ppb	0.1633	12.2	17.2671
Zn 206.200	43.1734b	ppb	0.5963	742.4	81.1670

680-92716-a-8-a (Samp) **8/1/2013, 12:14:11 PM** **Rack 1, Tube 34**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.3489	0.0546	0.1841
Al 308.215	280.699	281.289	272.015
As 188.980	-0.6073u	0.9354	1.0652
B 249.678	602.485	602.998	601.517
Ba 389.178	11.0856	11.4247	11.2817
Be 313.042	0.1207	0.1325	0.1299
Ca 370.602	38788	38620	38484
Cd 226.502	15.7736	15.5973	15.4092
Co 228.615	1.5000	1.3628	1.3545
Cr 267.716	17.0548	16.9527	16.8021
Cu 324.754	9.4505	9.3899	9.1595
Fe 271.441	129.075	137.967	131.045
K 766.491	70943.2x	70313.0x	69812.9x
Mg 279.078	2491.87	2506.88	2504.29
Mn 257.610	139.286	138.848	138.250
Mo 202.032	6.7769	7.5802	7.5215
Na 330.237	2013208x	1996675x	1984813x
Ni 231.604	905.579	905.147	899.419
Pb 220.353	-0.0219u	3.0237	-0.2041u
Sb 206.834	5.4152	3.8615	6.2236
Se 196.026	10.6005	14.7237	9.0094
Sn 189.925	-3.1853u	-2.0314u	-0.9137u
Sr 216.596	59.6886	59.7487	58.7766
Ti 334.941	1.1687	1.1761	1.1443
Tl 190.794	-6.5688u	-2.4113u	-3.3943u
V 292.401	0.5458u	0.8419	1.2892
Zn 206.200	42.6290	42.6291	42.2820

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1959b	ppb	0.1475	75.3	9.2730
Al 308.215	278.001b	ppb	5.1926	1.9	853.723
As 188.980	0.4644b	ppb	0.9304	200.3	-8.5688
B 249.678	602.333b	ppb	0.7525	0.1	10465.6
Ba 389.178	11.2640b	ppb	0.1703	1.5	284.209
Be 313.042	0.1277b	ppb	0.0062	4.9	-259.385
Ca 370.602	38631b	ppb	152.2	0.4	122554
Cd 226.502	15.5934b	ppb	0.1822	1.2	831.739
Co 228.615	1.4058b	ppb	0.0817	5.8	5.7799
Cr 267.716	16.9365b	ppb	0.1271	0.8	1140.22
Cu 324.754	9.3333b	ppb	0.1535	1.6	844.938
Fe 271.441	132.695b	ppb	4.6700	3.5	269.799
K 766.491	70356.4xb	ppb	566.381	0.8	2366161
Mg 279.078	2501.01b	ppb	8.0238	0.3	7171.36
Mn 257.610	138.794b	ppb	0.5200	0.4	37586.4
Mo 202.032	7.2928b	ppb	0.4478	6.1	68.2804
Na 330.237	1998232xb	ppb	14261.5	0.7	100615
Ni 231.604	903.382b	ppb	3.4388	0.4	3515.82
Pb 220.353	0.9326b	ppb	1.8133	194.4	16.8903
Sb 206.834	5.1668b	ppb	1.2005	23.2	14.1193
Se 196.026	11.4445b	ppb	2.9492	25.8	7.1079
Sn 189.925	-2.0435b	ppb	1.1358	55.6	-8.8642
Sr 216.596	59.4046b	ppb	0.5447	0.9	982.957
Ti 334.941	1.1630b	ppb	0.0167	1.4	153.948
Tl 190.794	-4.1248b	ppb	2.1729	52.7	-16.3657
V 292.401	0.8923b	ppb	0.3742	41.9	4.4172
Zn 206.200	42.5134b	ppb	0.2004	748.5	80.0580

X (Samp) **8/1/2013, 12:18:46 PM** **Rack 1, Tube 35**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	0.2104	0.2193	0.3767
Al 308.215	-2.1315u	-1.8184u	1.1205
As 188.980	1.3354	1.7934	1.5606
B 249.678	3.0613	2.5592	2.9065
Ba 389.178	0.1874	0.3608	-0.1839u
Be 313.042	-0.0007u	0.0103	0.0051
Ca 370.602	1.502	8.095	2.803
Cd 226.502	0.0893	0.1914	0.1563
Co 228.615	0.8770	0.3279	0.5890
Cr 267.716	0.0317	0.0660	-0.1016u
Cu 324.754	-0.1175u	-0.2310u	-0.0857u
Fe 271.441	-0.7650u	-0.4216u	-2.7589u
K 766.491	1.2889	0.6448	-0.2135u
Mg 279.078	-1.6048u	-3.5087u	-2.5674u
Mn 257.610	-0.1230u	-0.1431u	-0.1870u
Mo 202.032	0.1985	0.2077	0.2721
Na 330.237	-154.408u	-243.145u	-136.957u
Ni 231.604	0.1286	0.5862	-0.2697u
Pb 220.353	1.0353	-1.1804u	-1.1922u
Sb 206.834	-0.8719u	-0.3472u	0.4597
Se 196.026	4.3135	0.0034	-0.4515u
Sn 189.925	0.0214	1.7402	-0.0192u
Sr 216.596	-0.1679u	-0.4546u	-0.1191u
Ti 334.941	-0.0340u	-0.0680u	-0.0275u
Tl 190.794	1.3653	1.7696	0.9801
V 292.401	-0.3343u	-0.0127u	0.1484
Zn 206.200	-0.7438u	-2.0296u	-0.8590u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.2688	ppb	0.0936	34.8	17.8948
Al 308.215	-0.9431	ppb	1.7940	190.2	30.7332
As 188.980	1.5632	ppb	0.2290	14.7	-7.5763
B 249.678	2.8423	ppb	0.2571	9.0	160.153
Ba 389.178	0.1214	ppb	0.2783	229.2	-16.2120
Be 313.042	0.0049	ppb	0.0055	112.7	-273.542
Ca 370.602	4.133	ppb	3.492	84.5	15.57
Cd 226.502	0.1457	ppb	0.0519	35.6	14.8971
Co 228.615	0.5979	ppb	0.2747	45.9	-5.6605
Cr 267.716	-0.0013	ppb	0.0886	6884.8	24.0563
Cu 324.754	-0.1448	ppb	0.0764	52.8	242.657
Fe 271.441	-1.3152	ppb	1.2620	96.0	12.9433
K 766.491	0.5734	ppb	0.7538	131.5	204.312
Mg 279.078	-2.5603	ppb	0.9519	37.2	25.4423
Mn 257.610	-0.1510	ppb	0.0327	21.7	41.4681
Mo 202.032	0.2261	ppb	0.0401	17.7	7.8469
Na 330.237	-178.170	ppb	56.9428	32.0	36.0775
Ni 231.604	0.1484	ppb	0.4283	288.7	-4.4940
Pb 220.353	-0.4458	ppb	1.2826	287.7	14.0261
Sb 206.834	-0.2531	ppb	0.6708	265.0	5.0652
Se 196.026	1.2885	ppb	2.6296	204.1	1.0833
Sn 189.925	0.5808	ppb	1.0043	172.9	-6.8931
Sr 216.596	-0.2472	ppb	0.1813	73.3	4.5073
Ti 334.941	-0.0431	ppb	0.0218	50.4	-69.6986
Tl 190.794	1.3717	ppb	0.3948	28.8	-8.2290
V 292.401	-0.0662	ppb	0.2458	371.1	-5.1171
Zn 206.200	-1.2108	ppb	0.7114	744.8	3.9342

CRI (Samp) **8/1/2013, 12:23:23 PM** **Rack 1, Tube 36**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	9.0410	8.7643	9.1884
Al 308.215	172.919	169.905	178.135
As 188.980	21.2843	20.2853	20.7579
B 249.678	88.6913	87.9782	88.1164
Ba 389.178	9.2353	9.9990	9.3106
Be 313.042	3.6680	3.6287	3.6430
Ca 370.602	444.2	438.7	444.1
Cd 226.502	4.6411	4.6783	4.7197
Co 228.615	9.4884	9.5366	9.9190
Cr 267.716	9.5198	9.1272	9.2880
Cu 324.754	19.0227	18.7225	18.8633
Fe 271.441	48.5440	40.3057	46.0264
K 766.491	891.521	885.390	892.251
Mg 279.078	453.042	445.053	449.283
Mn 257.610	9.4706	9.3141	9.4480
Mo 202.032	9.3410	8.5214	8.9392
Na 330.237	761.300	768.699	796.717
Ni 231.604	37.9247	35.6050	37.8398
Pb 220.353	8.9627	7.7198	11.5438
Sb 206.834	15.0691	18.9110	18.4511
Se 196.026	26.4507	19.9752	14.0430
Sn 189.925	44.7779	45.1970	44.0240
Sr 216.596	8.8629	8.9306	9.2094
Ti 334.941	8.8431	8.7213	8.8105
Tl 190.794	23.0388	22.1855	22.3523
V 292.401	8.5401	8.5659	8.8969
Zn 206.200	19.1047	16.8642	17.8732

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	8.9979	ppb	0.2153	2.4	770.877
Al 308.215	173.653	ppb	4.1636	2.4	545.096
As 188.980	20.7758	ppb	0.4997	2.4	9.7689
B 249.678	88.2620	ppb	0.3782	0.4	1628.45
Ba 389.178	9.5150	ppb	0.4209	4.4	232.029
Be 313.042	3.6466	ppb	0.0199	0.5	7086.54
Ca 370.602	442.3	ppb	3.138	0.7	1407
Cd 226.502	4.6797	ppb	0.0393	0.8	259.313
Co 228.615	9.6480	ppb	0.2359	2.4	123.395
Cr 267.716	9.3117	ppb	0.1974	2.1	612.081
Cu 324.754	18.8695	ppb	0.1502	0.8	1450.53
Fe 271.441	44.9587	ppb	4.2216	9.4	102.987
K 766.491	889.721	ppb	3.7682	0.4	30105.0
Mg 279.078	449.126	ppb	3.9966	0.9	1314.98
Mn 257.610	9.4109	ppb	0.0846	0.9	2628.85
Mo 202.032	8.9339	ppb	0.4098	4.6	82.3029
Na 330.237	775.572	ppb	18.6820	2.4	83.7581
Ni 231.604	37.1232	ppb	1.3155	3.5	139.587
Pb 220.353	9.4088	ppb	1.9507	20.7	34.2701
Sb 206.834	17.4770	ppb	2.0980	12.0	34.3468
Se 196.026	20.1563	ppb	6.2058	30.8	12.2021
Sn 189.925	44.6663	ppb	0.5944	1.3	42.3188
Sr 216.596	9.0010	ppb	0.1836	2.0	157.901
Ti 334.941	8.7916	ppb	0.0630	0.7	2751.94
Tl 190.794	22.5255	ppb	0.4523	2.0	22.7002
V 292.401	8.6676	ppb	0.1989	2.3	256.343
Zn 206.200	17.9474	ppb	1.1221	6.3	37.2816

CCV (Samp) **8/1/2013, 12:27:58 PM** **Rack 1, Tube 37**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	488.547	495.204	486.548
Al 308.215	4934.38	4890.06	4808.24
As 188.980	490.449	485.165	476.657
B 249.678	491.571	491.474	485.531
Ba 389.178	4896.75	4881.96	4824.46
Be 313.042	490.952	489.965	484.168
Ca 370.602	5003	4975	4899
Cd 226.502	491.664	490.777	485.142
Co 228.615	495.438	493.620	485.099
Cr 267.716	5052.16	5043.58	4975.67
Cu 324.754	5003.71	5028.70	5061.58
Fe 271.441	4898.28	4897.60	4835.34
K 766.491	9949.90	9907.46	9875.03
Mg 279.078	4869.28	4864.58	4804.61
Mn 257.610	5014.73	4991.74	4921.25
Mo 202.032	491.911	490.419	484.583
Na 330.237	6858.68	6856.42	6970.10
Ni 231.604	2447.54	2449.10	2421.33
Pb 220.353	492.572	486.764	486.967
Sb 206.834	979.509	975.485	962.587
Se 196.026	4937.29	4894.69	4876.74
Sn 189.925	4918.54	5018.44	4918.60
Sr 216.596	2475.30	2465.75	2435.54
Ti 334.941	482.598	482.965	477.887
Tl 190.794	4945.89	4912.66	4869.91
V 292.401	4899.43	4880.48	4824.76
Zn 206.200	2487.45	2483.98	2442.08

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	490.100	ppb	4.5317	0.9	42225.5
Al 308.215	4877.56	ppb	63.9954	1.3	14025.5
As 188.980	484.090	ppb	6.9585	1.4	427.897
B 249.678	489.525	ppb	3.4594	0.7	8514.75
Ba 389.178	4867.72	ppb	38.1934	0.8	127883
Be 313.042	488.362	ppb	3.6650	0.8	986693
Ca 370.602	4959	ppb	53.62	1.1	15791
Cd 226.502	489.194	ppb	3.5377	0.7	26377.3
Co 228.615	491.386	ppb	5.5197	1.1	7008.40
Cr 267.716	5023.80	ppb	41.9050	0.8	317222
Cu 324.754	5031.33	ppb	29.0222	0.6	319767
Fe 271.441	4877.07	ppb	36.1428	0.7	9479.21
K 766.491	9910.80	ppb	37.5440	0.4	333470
Mg 279.078	4846.16	ppb	36.0598	0.7	13763.0
Mn 257.610	4975.91	ppb	48.7115	1.0	1344252
Mo 202.032	488.971	ppb	3.8727	0.8	4177.02
Na 330.237	6895.07	ppb	64.9907	0.9	353.347
Ni 231.604	2439.32	ppb	15.6033	0.6	9500.71
Pb 220.353	488.768	ppb	3.2963	0.7	1020.38
Sb 206.834	972.527	ppb	8.8402	0.9	1681.19
Se 196.026	4902.91	ppb	31.1008	0.6	2890.32
Sn 189.925	4951.86	ppb	57.6626	1.2	5520.07
Sr 216.596	2458.86	ppb	20.7559	0.8	40996.8
Ti 334.941	481.150	ppb	2.8317	0.6	153514
Tl 190.794	4909.49	ppb	38.0902	0.8	7162.86
V 292.401	4868.22	ppb	38.8170	0.8	146480
Zn 206.200	2471.17	ppb	25.2505	1.0	4291.19

CCB (Samp) **8/1/2013, 12:32:32 PM** **Rack 1, Tube 38**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	-0.0138u	0.0515	-0.0458u
Al 308.215	-2.4658u	0.0526	-3.7912u
As 188.980	5.1476	-1.8996u	-0.9317u
B 249.678	2.4557	1.5211	1.9129
Ba 389.178	0.9358	1.2928	0.8074
Be 313.042	0.0685	0.0643	0.0228
Ca 370.602	1.705	1.265	0.5585
Cd 226.502	0.2203	0.2748	-0.0072u
Co 228.615	0.9046	0.9030	0.4511
Cr 267.716	0.6295	0.3793	0.0837
Cu 324.754	0.6972	0.4594	0.2184
Fe 271.441	-0.1362u	-2.0775u	-6.6107u
K 766.491	-0.1331u	-0.1429u	-0.4534u
Mg 279.078	0.1038	0.1757	-1.5639u
Mn 257.610	0.5737	0.4311	-0.0188u
Mo 202.032	1.5477	0.9787	0.9653
Na 330.237	57.9099	-231.547u	-36.6381u
Ni 231.604	1.7058	0.8981	0.8286
Pb 220.353	0.0009u	-3.4237u	0.5490
Sb 206.834	-3.4619u	-0.1763u	0.8156
Se 196.026	0.9877	9.0207	5.8136
Sn 189.925	1.4178	-1.1384u	1.3559
Sr 216.596	0.5574	0.0716	-0.0023u
Ti 334.941	0.1098	0.0519	-0.0161u
Tl 190.794	1.7162	1.1355	1.1296
V 292.401	0.3945	0.5881	-0.0702u
Zn 206.200	-0.9431u	-0.1344u	-0.6533u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0027	ppb	0.0496	1837.6	-5.5545
Al 308.215	-2.0681	ppb	1.9525	94.4	27.4054
As 188.980	0.7721	ppb	3.8201	494.8	-8.2909
B 249.678	1.9632	ppb	0.4693	23.9	145.037
Ba 389.178	1.0120	ppb	0.2515	24.9	7.1948
Be 313.042	0.0519	ppb	0.0252	48.7	-178.722
Ca 370.602	1.176	ppb	0.5784	49.2	6.123
Cd 226.502	0.1626	ppb	0.1496	92.0	15.8165
Co 228.615	0.7529	ppb	0.2613	34.7	-3.4773
Cr 267.716	0.3642	ppb	0.2732	75.0	47.1324
Cu 324.754	0.4583	ppb	0.2394	52.2	280.990
Fe 271.441	-2.9415	ppb	3.3226	113.0	9.8556
K 766.491	-0.2431	ppb	0.1822	74.9	176.853
Mg 279.078	-0.4281	ppb	0.9842	229.9	31.5198
Mn 257.610	0.3287	ppb	0.3093	94.1	171.062
Mo 202.032	1.1639	ppb	0.3324	28.6	15.8666
Na 330.237	-70.0917	ppb	147.600	210.6	41.5068
Ni 231.604	1.1441	ppb	0.4876	42.6	-0.6134
Pb 220.353	-0.9580	ppb	2.1529	224.7	12.9714
Sb 206.834	-0.9409	ppb	2.2389	238.0	3.9166
Se 196.026	5.2740	ppb	4.0436	76.7	3.4315
Sn 189.925	0.5451	ppb	1.4583	267.5	-6.9330
Sr 216.596	0.2089	ppb	0.3041	145.6	12.0681
Ti 334.941	0.0485	ppb	0.0630	129.8	-40.4428
Tl 190.794	1.3271	ppb	0.3370	25.4	-8.2942
V 292.401	0.3041	ppb	0.3383	111.2	5.8617
Zn 206.200	-0.5770	ppb	0.4997	747.0	5.0371

mb 680-285857/1-a (Samp) **8/1/2013, 12:37:06 PM** **Rack 1, Tube 39**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.1236u	0.1905	0.0977
Al 308.215	-2.4024u	-1.3059u	-2.5942u
As 188.980	0.6931	0.1263	0.4359
B 249.678	3.8946	5.0020	4.3171
Ba 389.178	-0.5077u	0.4091	0.3850
Be 313.042	0.0043	0.0094	0.0078
Ca 370.602	0.8741	5.684	1.161
Cd 226.502	0.1486	0.1537	0.0224
Co 228.615	1.1667	0.1742	0.2554
Cr 267.716	0.1426	0.0675	-0.1039u
Cu 324.754	0.1542	0.4395	-0.0089u
Fe 271.441	-5.5417u	-0.5125u	-7.3197u
K 766.491	1.2627	0.6366	-0.0135u
Mg 279.078	-1.2796u	1.2324	-1.3363u
Mn 257.610	-0.0904u	-0.1497u	-0.1522u
Mo 202.032	0.1661	0.3342	0.0807
Na 330.237	-180.412u	14.9486	-202.101u
Ni 231.604	0.7349	0.5225	2.0857
Pb 220.353	-0.7021u	-0.8094u	-1.4596u
Sb 206.834	1.7617	5.1443	-1.4661u
Se 196.026	1.0390	-1.1564u	3.7384
Sn 189.925	-1.3259u	-0.2636u	0.1047
Sr 216.596	-0.2399u	-0.0235u	-0.0193u
Ti 334.941	-0.0709u	0.0197	-0.0752u
Tl 190.794	-0.1042u	-2.1904u	1.1694
V 292.401	-0.4137u	0.0240	0.0128
Zn 206.200	-0.6456u	-0.8768u	-1.3284u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0549	ppb	0.1613	294.1	-0.5699
Al 308.215	-2.1008	ppb	0.6951	33.1	27.3229
As 188.980	0.4184	ppb	0.2838	67.8	-8.6098
B 249.678	4.4046	ppb	0.5589	12.7	187.005
Ba 389.178	0.0955	ppb	0.5225	547.3	-16.8874
Be 313.042	0.0072	ppb	0.0026	36.3	-268.970
Ca 370.602	2.573	ppb	2.698	104.8	10.48
Cd 226.502	0.1082	ppb	0.0744	68.7	12.8862
Co 228.615	0.5321	ppb	0.5511	103.6	-6.5953
Cr 267.716	0.0354	ppb	0.1263	357.0	26.3742
Cu 324.754	0.1949	ppb	0.2270	116.4	264.231
Fe 271.441	-4.4580	ppb	3.5306	79.2	6.9125
K 766.491	0.6286	ppb	0.6381	101.5	206.168
Mg 279.078	-0.4612	ppb	1.4669	318.1	31.4353
Mn 257.610	-0.1307	ppb	0.0350	26.8	46.9693
Mo 202.032	0.1937	ppb	0.1290	66.6	7.5696
Na 330.237	-122.522	ppb	119.546	97.6	38.8729
Ni 231.604	1.1144	ppb	0.8479	76.1	-0.7287
Pb 220.353	-0.9904	ppb	0.4099	41.4	12.9064
Sb 206.834	1.8133	ppb	3.3055	182.3	8.4775
Se 196.026	1.2070	ppb	2.4517	203.1	1.0353
Sn 189.925	-0.4950	ppb	0.7428	150.1	-8.0940
Sr 216.596	-0.0942	ppb	0.1262	133.9	7.0457
Ti 334.941	-0.0422	ppb	0.0536	127.1	-69.3743
Tl 190.794	-0.3751	ppb	1.6962	452.2	-10.7811
V 292.401	-0.1256	ppb	0.2496	198.6	-6.8976
Zn 206.200	-0.9503	ppb	0.3472	36.5	4.3880

lcs 680-285857/2-a (Samp) **8/1/2013, 12:41:52 PM** **Rack 1, Tube 40**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	52.2634	52.1414	53.3186
Al 308.215	4842.86	4846.62	4890.08
As 188.980	98.6327	102.820	100.386
B 249.678	198.083	197.226	200.881
Ba 389.178	103.826	103.089	104.508
Be 313.042	50.4561	50.3041	51.0407
Ca 370.602	5036	5028	5082
Cd 226.502	51.9922	51.6256	52.2431
Co 228.615	52.3065	52.6950	53.4570
Cr 267.716	105.945	105.506	106.790
Cu 324.754	104.070	103.422	107.462
Fe 271.441	4967.64	4975.63	5039.63
K 766.491	5207.67	5223.32	5300.25
Mg 279.078	5084.01	5055.31	5126.15
Mn 257.610	529.577	528.074	535.468
Mo 202.032	96.1610	96.9078	97.3323
Na 330.237	4792.82	4922.69	4783.68
Ni 231.604	101.904	103.191	106.194
Pb 220.353	49.7186	51.4299	50.5673
Sb 206.834	45.1903	49.5182	50.1576
Se 196.026	107.008	104.477	103.548
Sn 189.925	135.403	138.875	137.243
Sr 216.596	105.079	104.045	105.276
Ti 334.941	97.7295	97.4779	99.0853
Tl 190.794	42.8205	38.5652	41.5938
V 292.401	101.657	101.439	102.882
Zn 206.200	106.098	103.848	104.328

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	52.5745	ppb	0.6473	1.2	4530.02
Al 308.215	4859.85	ppb	26.2450	0.5	14362.6
As 188.980	100.613	ppb	2.1030	2.1	81.8150
B 249.678	198.730	ppb	1.9115	1.0	3515.69
Ba 389.178	103.808	ppb	0.7094	0.7	2731.39
Be 313.042	50.6003	ppb	0.3889	0.8	101989
Ca 370.602	5049	ppb	29.29	0.6	15694
Cd 226.502	51.9536	ppb	0.3106	0.6	2826.13
Co 228.615	52.8195	ppb	0.5853	1.1	739.262
Cr 267.716	106.080	ppb	0.6525	0.6	6725.76
Cu 324.754	104.985	ppb	2.1696	2.1	6923.79
Fe 271.441	4994.30	ppb	39.4617	0.8	9590.36
K 766.491	5243.75	ppb	49.5583	0.9	176524
Mg 279.078	5088.49	ppb	35.6306	0.7	14550.8
Mn 257.610	531.039	ppb	3.9081	0.7	143593
Mo 202.032	96.8004	ppb	0.5930	0.6	833.335
Na 330.237	4833.06	ppb	77.7502	1.6	284.956
Ni 231.604	103.763	ppb	2.2016	2.1	399.334
Pb 220.353	50.5720	ppb	0.8557	1.7	119.160
Sb 206.834	48.2887	ppb	2.7023	5.6	85.5973
Se 196.026	105.011	ppb	1.7909	1.7	62.3667
Sn 189.925	137.174	ppb	1.7373	1.3	145.586
Sr 216.596	104.800	ppb	0.6614	0.6	1761.40
Ti 334.941	98.0976	ppb	0.8646	0.9	31275.8
Tl 190.794	40.9932	ppb	2.1903	5.3	49.0591
V 292.401	101.993	ppb	0.7774	0.8	3051.28
Zn 206.200	104.758	ppb	1.1848	749.1	188.213

680-92441-c-6-b (Samp) **8/1/2013, 12:46:27 PM** **Rack 1, Tube 41**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.1394u	-0.3127u	0.1363
Al 308.215	14.0258	13.2796	15.0647
As 188.980	2.9146	3.1872	0.1899
B 249.678	28.2272	27.4733	27.1725
Ba 389.178	6.7068	5.8671	6.3359
Be 313.042	0.0110	0.0140	0.0086
Ca 370.602	36982	37113	37343
Cd 226.502	-0.0202	0.0117	0.0389
Co 228.615	0.7898	0.3250	0.3034
Cr 267.716	0.1715	0.2413	0.2574
Cu 324.754	1.2457	1.3772	0.7871
Fe 271.441	697.361	703.433	705.468
K 766.491	2939.79	2932.87	2953.13
Mg 279.078	6018.47	6048.17	6057.32
Mn 257.610	32.5373	32.6618	32.7294
Mo 202.032	1.7959	1.7453	1.0454
Na 330.237	1160.52	1298.44	1389.43
Ni 231.604	2.8200	1.2752	0.9765
Pb 220.353	-1.3013u	-1.6006u	-0.4281u
Sb 206.834	-3.2851u	1.9169	0.1183
Se 196.026	0.4440	-0.0489u	3.9054
Sn 189.925	3.6114	1.4797	1.1242
Sr 216.596	46.7548	47.2059	47.0269
Ti 334.941	0.4180	0.3691	0.2884
Tl 190.794	0.2067	2.3754	0.3737
V 292.401	0.5808	0.4186	0.3564
Zn 206.200	-0.0583u	0.9512	0.7632

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1053	ppb	0.2264	215.1	-16.8483
Al 308.215	14.1234	ppb	0.8965	6.3	75.1706
As 188.980	2.0972	ppb	1.6574	79.0	-7.1043
B 249.678	27.6243	ppb	0.5434	2.0	584.508
Ba 389.178	6.3033	ppb	0.4208	6.7	165.342
Be 313.042	0.0112	ppb	0.0027	24.1	-247.494
Ca 370.602	37146	ppb	183.0	0.5	117796
Cd 226.502	0.0101	ppb	0.0296	291.9	10.5895
Co 228.615	0.4727	ppb	0.2748	58.1	-7.4460
Cr 267.716	0.2234	ppb	0.0456	20.4	38.6778
Cu 324.754	1.1367	ppb	0.3098	27.3	324.347
Fe 271.441	702.087	ppb	4.2175	0.6	1360.24
K 766.491	2941.93	ppb	10.3008	0.4	99117.6
Mg 279.078	6041.32	ppb	20.3115	0.3	17283.3
Mn 257.610	32.6428	ppb	0.0975	0.3	8960.63
Mo 202.032	1.5289	ppb	0.4194	27.4	18.9469
Na 330.237	1282.80	ppb	115.252	9.0	109.374
Ni 231.604	1.6906	ppb	0.9895	58.5	1.5385
Pb 220.353	-1.1100	ppb	0.6092	54.9	12.7270
Sb 206.834	-0.4166	ppb	2.6419	634.2	4.7975
Se 196.026	1.4335	ppb	2.1549	150.3	1.1812
Sn 189.925	2.0718	ppb	1.3451	64.9	-5.2068
Sr 216.596	46.9959	ppb	0.2271	0.5	800.204
Ti 334.941	0.3585	ppb	0.0655	18.3	89.7439
Tl 190.794	0.9853	ppb	1.2068	122.5	-8.8822
V 292.401	0.4520	ppb	0.1158	25.6	10.3342
Zn 206.200	0.5520	ppb	0.5269	7503	-7.0137

680-92441-c-6-b SD^5 (Samp) **8/1/2013, 12:51:01 PM** **Rack 1, Tube 42**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.2960	0.0611	-0.2825u
Al 308.215	0.2384	-0.2821u	5.8809
As 188.980	3.1108	-0.3107u	5.6302
B 249.678	7.3651	7.2408	6.7477
Ba 389.178	1.8957	1.3973	0.3879
Be 313.042	0.0079	0.0073	0.0120
Ca 370.602	9232	8924	8709
Cd 226.502	0.0936	0.0190	0.0940
Co 228.615	0.5989	0.6191	0.5332
Cr 267.716	0.1462	0.0712	0.1211
Cu 324.754	0.7925	0.1308	0.4344
Fe 271.441	169.942	163.355	162.188
K 766.491	733.267	702.641	685.380
Mg 279.078	1523.64	1468.62	1433.34
Mn 257.610	8.5930	8.3046	8.0828
Mo 202.032	0.1141	0.5178	0.4699
Na 330.237	340.767	318.635	250.150
Ni 231.604	1.5909	1.8253	1.6046
Pb 220.353	-0.7713u	0.1249	-1.4694u
Sb 206.834	-1.6728u	-1.1992u	1.3634
Se 196.026	-4.4897u	0.7702	-0.8781u
Sn 189.925	0.1072	-0.3925u	1.4796
Sr 216.596	11.0819	10.8205	10.7510
Ti 334.941	0.0755	0.0422	0.0763
Tl 190.794	0.7401	0.3051	0.2149
V 292.401	-0.0192u	0.1218	-0.0875u
Zn 206.200	-0.4829u	0.3661	-0.5802u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0249	ppb	0.2909	1169.4	-3.7237
Al 308.215	1.9457	ppb	3.4179	175.7	39.2533
As 188.980	2.8101	ppb	2.9819	106.1	-6.4528
B 249.678	7.1178	ppb	0.3265	4.6	233.252
Ba 389.178	1.2270	ppb	0.7682	62.6	17.5114
Be 313.042	0.0091	ppb	0.0026	28.4	-261.870
Ca 370.602	8955	ppb	263.0	2.9	28401
Cd 226.502	0.0688	ppb	0.0432	62.8	11.4778
Co 228.615	0.5837	ppb	0.0450	7.7	-5.8559
Cr 267.716	0.1128	ppb	0.0382	33.9	31.3716
Cu 324.754	0.4526	ppb	0.3312	73.2	280.662
Fe 271.441	165.162	ppb	4.1808	2.5	331.815
K 766.491	707.096	ppb	24.2521	3.4	23963.6
Mg 279.078	1475.20	ppb	45.5081	3.1	4245.07
Mn 257.610	8.3268	ppb	0.2558	3.1	2346.38
Mo 202.032	0.3673	ppb	0.2206	60.1	9.0442
Na 330.237	303.184	ppb	47.2428	15.6	60.2384
Ni 231.604	1.6736	ppb	0.1316	7.9	1.4559
Pb 220.353	-0.7053	ppb	0.7992	113.3	13.5089
Sb 206.834	-0.5029	ppb	1.6335	324.8	4.6582
Se 196.026	-1.5325	ppb	2.6903	175.5	-0.5756
Sn 189.925	0.3981	ppb	0.9694	243.5	-7.0918
Sr 216.596	10.8845	ppb	0.1745	1.6	191.994
Ti 334.941	0.0647	ppb	0.0195	30.1	-27.6402
Tl 190.794	0.4200	ppb	0.2808	66.9	-9.6407
V 292.401	0.0050	ppb	0.1067	2113.8	-2.9841
Zn 206.200	-0.2323	ppb	0.5205	224.0	-5.6407

680-92441-c-6-b PDS (Samp) **8/1/2013, 12:55:36 PM** **Rack 1, Tube 43**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	15.5649	15.4718	16.0271
Al 308.215	1787.74	1798.72	1825.44
As 188.980	184.261	179.306	190.675
B 249.678	467.289	465.828	472.703
Ba 389.178	198.680	197.247	200.919
Be 313.042	47.3254	47.0960	47.6560
Ca 370.602	38591	38714	39362
Cd 226.502	46.9891	46.9039	47.2868
Co 228.615	189.947	190.676	194.164
Cr 267.716	193.409	192.862	195.643
Cu 324.754	199.579	200.420	202.800
Fe 271.441	2560.20	2545.38	2583.76
K 766.491	4861.02	4855.68	4906.53
Mg 279.078	7910.70	7876.04	7980.91
Mn 257.610	229.607	229.272	232.391
Mo 202.032	193.545	193.676	196.244
Na 330.237	3160.92	3081.34	3186.53
Ni 231.604	187.484	189.018	189.027
Pb 220.353	185.359	188.009	188.186
Sb 206.834	181.755	175.070	188.774
Se 196.026	197.016	177.056	187.968
Sn 189.925	191.614	191.958	190.094
Sr 216.596	238.443	238.557	240.885
Ti 334.941	187.208	186.045	188.903
Tl 190.794	186.921	182.931	183.495
V 292.401	191.119	190.392	194.079
Zn 206.200	187.084	187.142	188.824

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	15.6879	ppb	0.2974	1.9	1338.63
Al 308.215	1803.97	ppb	19.3938	1.1	5340.39
As 188.980	184.748	ppb	5.7002	3.1	157.731
B 249.678	468.606	ppb	3.6220	0.8	8160.76
Ba 389.178	198.948	ppb	1.8507	0.9	5235.93
Be 313.042	47.3591	ppb	0.2815	0.6	95429.5
Ca 370.602	38889	ppb	414.3	1.1	123285
Cd 226.502	47.0600	ppb	0.2011	0.4	2552.64
Co 228.615	191.596	ppb	2.2537	1.2	2718.35
Cr 267.716	193.971	ppb	1.4733	0.8	12272.4
Cu 324.754	200.933	ppb	1.6706	0.8	13019.2
Fe 271.441	2563.11	ppb	19.3572	0.8	4954.73
K 766.491	4874.41	ppb	27.9437	0.6	164104
Mg 279.078	7922.55	ppb	53.4311	0.7	22650.7
Mn 257.610	230.423	ppb	1.7122	0.7	62409.7
Mo 202.032	194.488	ppb	1.5217	0.8	1668.81
Na 330.237	3142.93	ppb	54.8571	1.7	199.089
Ni 231.604	188.510	ppb	0.8881	0.5	729.121
Pb 220.353	187.185	ppb	1.5835	0.8	399.598
Sb 206.834	181.867	ppb	6.8527	3.8	305.188
Se 196.026	187.346	ppb	9.9947	5.3	110.776
Sn 189.925	191.222	ppb	0.9918	0.5	205.937
Sr 216.596	239.295	ppb	1.3784	0.6	4004.99
Ti 334.941	187.385	ppb	1.4372	0.8	59783.6
Tl 190.794	184.449	ppb	2.1593	1.2	259.638
V 292.401	191.863	ppb	1.9529	1.0	5740.76
Zn 206.200	187.683	ppb	0.9882	0.5	332.323

680-92477-g-19-d (Samp) **8/1/2013, 1:00:11 PM** **Rack 1, Tube 44**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.1476u	-0.4545u	-0.4292u
Al 308.215	-4.5252u	-0.6370u	0.7027
As 188.980	3.4006	-1.1159u	0.8424
B 249.678	7.3446	6.1178	6.2369
Ba 389.178	0.6196	0.2132	-0.0766u
Be 313.042	0.0065	0.0114	0.0136
Ca 370.602	47.75	51.52	47.55
Cd 226.502	0.0402	-0.0362u	0.1856
Co 228.615	-0.1521u	0.6862	0.5257
Cr 267.716	0.0914	0.0363	0.0432
Cu 324.754	0.7977	0.3800	0.5153
Fe 271.441	5.7085	0.7527	0.6941
K 766.491	2.4063	2.6576	3.2829
Mg 279.078	0.7198	-0.3745u	1.3131
Mn 257.610	-0.0891u	-0.0365u	-0.0824u
Mo 202.032	1.2173	0.0213	0.5288
Na 330.237	191.602	157.452	14.8177
Ni 231.604	0.3896	0.9900	-0.2791u
Pb 220.353	-1.1155u	-2.3443u	-0.7628u
Sb 206.834	-2.2439u	-2.9197u	-0.6928u
Se 196.026	4.1348	1.1305	7.9774
Sn 189.925	-0.9984u	0.3187	-2.4302u
Sr 216.596	-0.1052u	-0.3518u	-0.0434u
Ti 334.941	0.0434	0.0632	-0.0059u
Tl 190.794	-0.2975u	-0.5705u	0.3754
V 292.401	0.1015	-0.1199u	-0.1868u
Zn 206.200	-0.4529u	0.3510	0.0429

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.3438	ppb	0.1704	49.6	-34.9549
Al 308.215	-1.4865	ppb	2.7155	182.7	29.1450
As 188.980	1.0424	ppb	2.2649	217.3	-8.0467
B 249.678	6.5664	ppb	0.6765	10.3	224.154
Ba 389.178	0.2521	ppb	0.3497	138.7	-12.7584
Be 313.042	0.0105	ppb	0.0037	35.0	-262.316
Ca 370.602	48.94	ppb	2.239	4.6	157.1
Cd 226.502	0.0632	ppb	0.1127	178.3	10.4828
Co 228.615	0.3533	ppb	0.4449	125.9	-9.1603
Cr 267.716	0.0569	ppb	0.0300	52.7	27.7436
Cu 324.754	0.5644	ppb	0.2131	37.8	287.713
Fe 271.441	2.3851	ppb	2.8783	120.7	19.9954
K 766.491	2.7823	ppb	0.4514	16.2	278.593
Mg 279.078	0.5528	ppb	0.8561	154.9	34.3312
Mn 257.610	-0.0693	ppb	0.0286	41.3	63.5910
Mo 202.032	0.5891	ppb	0.6003	101.9	10.9512
Na 330.237	121.291	ppb	93.7758	77.3	51.1266
Ni 231.604	0.3668	ppb	0.6349	173.1	-3.6415
Pb 220.353	-1.4075	ppb	0.8302	59.0	12.0483
Sb 206.834	-1.9521	ppb	1.1418	58.5	2.2535
Se 196.026	4.4142	ppb	3.4320	77.7	2.9248
Sn 189.925	-1.0366	ppb	1.3749	132.6	-8.6985
Sr 216.596	-0.1668	ppb	0.1631	97.8	5.8406
Ti 334.941	0.0335	ppb	0.0356	106.1	-45.2376
Tl 190.794	-0.1642	ppb	0.4868	296.5	-10.4747
V 292.401	-0.0684	ppb	0.1509	220.7	-5.2637
Zn 206.200	-0.0197	ppb	0.4056	2763	-6.0096

680-92477-g-19-e ms (Samp) **8/1/2013, 1:04:47 PM** **Rack 1, Tube 45**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	51.3273	53.1125	52.1842
Al 308.215	4714.89	4871.20	4769.21
As 188.980	110.615	106.982	108.181
B 249.678	196.266	200.344	197.120
Ba 389.178	102.679	104.109	102.937
Be 313.042	50.4664	51.5493	50.5979
Ca 370.602	5021	5162	5074
Cd 226.502	50.3846	51.3838	50.7207
Co 228.615	51.9616	53.1836	51.5843
Cr 267.716	105.439	107.944	105.922
Cu 324.754	104.951	107.712	106.732
Fe 271.441	4948.96	5064.13	4973.34
K 766.491	4853.29	4973.47	4877.60
Mg 279.078	4937.82	5046.70	4957.09
Mn 257.610	526.422	538.893	529.062
Mo 202.032	101.828	104.525	103.084
Na 330.237	4884.23	5201.96	5072.33
Ni 231.604	101.426	104.266	101.764
Pb 220.353	53.0228	51.2970	51.1388
Sb 206.834	50.3451	52.2406	53.9731
Se 196.026	106.773	92.8333	100.290
Sn 189.925	202.948	204.487	207.741
Sr 216.596	103.069	105.643	103.824
Ti 334.941	98.2606	100.279	98.5958
Tl 190.794	40.6980	39.4163	41.0906
V 292.401	101.773	104.548	101.972
Zn 206.200	100.402	104.876	102.641

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	52.2080	ppb	0.8928	1.7	4498.41
Al 308.215	4785.10	ppb	79.3590	1.7	14142.2
As 188.980	108.593	ppb	1.8510	1.7	89.0165
B 249.678	197.910	ppb	2.1508	1.1	3501.59
Ba 389.178	103.242	ppb	0.7625	0.7	2716.25
Be 313.042	50.8712	ppb	0.5909	1.2	102535
Ca 370.602	5086	ppb	71.40	1.4	15812
Cd 226.502	50.8297	ppb	0.5084	1.0	2765.59
Co 228.615	52.2432	ppb	0.8360	1.6	730.790
Cr 267.716	106.435	ppb	1.3291	1.2	6748.17
Cu 324.754	106.465	ppb	1.3995	1.3	7018.00
Fe 271.441	4995.48	ppb	60.6938	1.2	9592.55
K 766.491	4901.45	ppb	63.5424	1.3	165013
Mg 279.078	4980.54	ppb	58.1073	1.2	14242.6
Mn 257.610	531.459	ppb	6.5720	1.2	143705
Mo 202.032	103.146	ppb	1.3496	1.3	887.605
Na 330.237	5052.84	ppb	159.757	3.2	296.042
Ni 231.604	102.485	ppb	1.5515	1.5	394.354
Pb 220.353	51.8195	ppb	1.0450	2.0	121.717
Sb 206.834	52.1863	ppb	1.8146	3.5	91.9276
Se 196.026	99.9655	ppb	6.9757	7.0	59.3942
Sn 189.925	205.059	ppb	2.4473	1.2	221.364
Sr 216.596	104.179	ppb	1.3231	1.3	1750.93
Ti 334.941	99.0451	ppb	1.0815	1.1	31577.7
Tl 190.794	40.4016	ppb	0.8756	2.2	48.1886
V 292.401	102.765	ppb	1.5479	1.5	3073.36
Zn 206.200	102.640	ppb	2.2372	2.2	184.520

680-92477-g-19-f msd (Samp) **8/1/2013, 1:09:22 PM** **Rack 1, Tube 46**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	51.5378	52.2598	53.0347
Al 308.215	4695.34	4678.65	4792.72
As 188.980	104.672	110.497	103.429
B 249.678	195.528	195.558	199.538
Ba 389.178	101.524	101.446	104.408
Be 313.042	49.9645	50.2056	51.1314
Ca 370.602	5002	5009	5106
Cd 226.502	50.0165	50.2375	51.3050
Co 228.615	51.5520	51.4223	52.8714
Cr 267.716	104.525	104.744	106.888
Cu 324.754	104.968	105.442	107.204
Fe 271.441	4902.86	4905.87	5023.09
K 766.491	4911.34	4898.18	4949.38
Mg 279.078	4883.77	4905.31	4995.33
Mn 257.610	521.758	522.700	534.539
Mo 202.032	101.620	101.824	103.546
Na 330.237	4809.30	5017.20	5088.77
Ni 231.604	101.594	101.565	103.201
Pb 220.353	50.5283	48.0072	53.3970
Sb 206.834	48.8620	49.6220	48.0738
Se 196.026	96.8517	101.180	105.732
Sn 189.925	203.797	203.085	201.850
Sr 216.596	102.080	102.865	105.356
Ti 334.941	97.5288	98.0190	99.7637
Tl 190.794	41.8373	41.1253	42.2015
V 292.401	100.667	101.619	103.748
Zn 206.200	101.306	99.8991	100.919

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	52.2774	ppb	0.7486	1.4	4504.41
Al 308.215	4722.24	ppb	61.6063	1.3	13956.8
As 188.980	106.199	ppb	3.7736	3.6	86.8559
B 249.678	196.875	ppb	2.3066	1.2	3483.93
Ba 389.178	102.460	ppb	1.6881	1.6	2695.45
Be 313.042	50.4338	ppb	0.6160	1.2	101651
Ca 370.602	5039	ppb	58.29	1.2	15667
Cd 226.502	50.5197	ppb	0.6890	1.4	2748.67
Co 228.615	51.9486	ppb	0.8018	1.5	726.593
Cr 267.716	105.386	ppb	1.3056	1.2	6681.87
Cu 324.754	105.871	ppb	1.1783	1.1	6980.25
Fe 271.441	4943.94	ppb	68.5612	1.4	9493.78
K 766.491	4919.63	ppb	26.5880	0.5	165625
Mg 279.078	4928.14	ppb	59.1815	1.2	14093.1
Mn 257.610	526.332	ppb	7.1227	1.4	142320
Mo 202.032	102.330	ppb	1.0581	1.0	880.636
Na 330.237	4971.75	ppb	145.171	2.9	292.004
Ni 231.604	102.120	ppb	0.9361	0.9	392.930
Pb 220.353	50.6442	ppb	2.6968	5.3	119.296
Sb 206.834	48.8526	ppb	0.7741	1.6	86.4171
Se 196.026	101.255	ppb	4.4405	4.4	60.1519
Sn 189.925	202.911	ppb	0.9849	0.5	218.966
Sr 216.596	103.434	ppb	1.7105	1.7	1738.44
Ti 334.941	98.4372	ppb	1.1746	1.2	31383.4
Tl 190.794	41.7214	ppb	0.5474	1.3	50.1236
V 292.401	102.011	ppb	1.5775	1.5	3050.84
Zn 206.200	100.708	ppb	0.7268	0.7	181.157

X (Samp) **8/1/2013, 1:13:59 PM** **Rack 1, Tube 47**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	0.1362	0.0968	0.1541
Al 308.215	1.4390	3.4909	0.9007
As 188.980	-0.1869u	3.2457	-2.0688u
B 249.678	0.6404	0.2040	0.4048
Ba 389.178	0.7626	-0.4826u	-0.0648u
Be 313.042	0.0058	0.0114	0.0161
Ca 370.602	6.950	5.228	8.891
Cd 226.502	0.0256	0.2260	0.2884
Co 228.615	0.6171	0.9652	0.3966
Cr 267.716	-0.1728u	-0.0749u	0.1158
Cu 324.754	-0.1819u	0.2334	0.3655
Fe 271.441	31.3145	25.7553	26.1304
K 766.491	-0.4263u	1.0241	0.1412
Mg 279.078	-3.3862u	-0.1446u	0.6060
Mn 257.610	1.0641	1.0438	1.0753
Mo 202.032	0.5596	0.1033	-0.0937u
Na 330.237	-146.016u	-173.755u	-179.636u
Ni 231.604	-0.0962u	0.5194	1.3182
Pb 220.353	-0.9941u	-1.1790u	0.4325
Sb 206.834	-1.5492u	1.8271	-0.7376u
Se 196.026	-3.6431u	-2.1560u	5.5577
Sn 189.925	3.6174	3.8913	-0.2450u
Sr 216.596	-0.2353u	-0.1672u	-0.4329u
Ti 334.941	0.0147	0.0507	0.0850
Tl 190.794	-0.1819u	-1.1279u	0.6467
V 292.401	-0.4724u	-0.1497u	0.1254
Zn 206.200	-1.5544u	-1.3485u	-0.3854u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1290	ppb	0.0293	22.7	5.8500
Al 308.215	1.9435	ppb	1.3668	70.3	39.2546
As 188.980	0.3300	ppb	2.6947	816.6	-8.6901
B 249.678	0.4164	ppb	0.2184	52.5	118.373
Ba 389.178	0.0717	ppb	0.6337	883.4	-17.4622
Be 313.042	0.0111	ppb	0.0052	46.4	-260.966
Ca 370.602	7.023	ppb	1.833	26.1	22.26
Cd 226.502	0.1800	ppb	0.1373	76.3	16.8798
Co 228.615	0.6596	ppb	0.2867	43.5	-4.7762
Cr 267.716	-0.0440	ppb	0.1468	333.8	21.3778
Cu 324.754	0.1390	ppb	0.2856	205.5	260.692
Fe 271.441	27.7334	ppb	3.1070	11.2	68.5896
K 766.491	0.2463	ppb	0.7309	296.7	193.313
Mg 279.078	-0.9749	ppb	2.1217	217.6	29.9489
Mn 257.610	1.0611	ppb	0.0160	1.5	368.999
Mo 202.032	0.1897	ppb	0.3351	176.6	7.5341
Na 330.237	-166.469	ppb	17.9551	10.8	36.6568
Ni 231.604	0.5805	ppb	0.7091	122.2	-2.8090
Pb 220.353	-0.5802	ppb	0.8819	152.0	13.7527
Sb 206.834	-0.1532	ppb	1.7624	1150.3	5.2324
Se 196.026	-0.0805	ppb	4.9391	6138.0	0.2772
Sn 189.925	2.4212	ppb	2.3131	95.5	-4.8388
Sr 216.596	-0.2785	ppb	0.1380	49.6	4.0093
Ti 334.941	0.0501	ppb	0.0351	70.1	-39.9152
Tl 190.794	-0.2210	ppb	0.8879	401.7	-10.5592
V 292.401	-0.1656	ppb	0.2992	180.7	-8.1026
Zn 206.200	-1.0961	ppb	0.6241	756.9	-4.1346

CRI (Samp) **8/1/2013, 1:18:35 PM** **Rack 1, Tube 48**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	8.6613	8.5053	9.0064
Al 308.215	171.206	173.843	175.704
As 188.980	19.8346	18.2701	19.5385
B 249.678	86.4224	87.0022	86.6427
Ba 389.178	8.8588	10.1293	9.1875
Be 313.042	3.6458	3.6581	3.6237
Ca 370.602	442.8	445.4	444.1
Cd 226.502	4.5354	4.6876	4.6542
Co 228.615	9.4729	9.6588	9.8800
Cr 267.716	9.4128	9.3126	9.3443
Cu 324.754	18.4803	19.0882	18.8893
Fe 271.441	44.0528	47.1931	45.4674
K 766.491	875.121	886.282	885.231
Mg 279.078	446.798	449.066	451.077
Mn 257.610	9.6635	9.6766	9.7232
Mo 202.032	8.9636	8.8095	9.3665
Na 330.237	843.805	814.114	497.420
Ni 231.604	36.4097	36.2783	36.1413
Pb 220.353	9.4386	8.2018	8.3002
Sb 206.834	20.5384	16.4045	15.2987
Se 196.026	21.2466	18.9306	19.6004
Sn 189.925	42.6688	44.5538	44.5943
Sr 216.596	9.1878	9.4278	9.4116
Ti 334.941	8.7725	8.7810	8.7483
Tl 190.794	22.9635	21.5936	24.3088
V 292.401	8.7671	8.8372	8.5950
Zn 206.200	17.9775	17.6740	17.4873

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	8.7243	ppb	0.2564	2.9	747.259
Al 308.215	173.584	ppb	2.2599	1.3	544.891
As 188.980	19.2144	ppb	0.8311	4.3	8.3590
B 249.678	86.6891	ppb	0.2926	0.3	1601.41
Ba 389.178	9.3919	ppb	0.6594	7.0	228.802
Be 313.042	3.6425	ppb	0.0175	0.5	7078.33
Ca 370.602	444.1	ppb	1.283	0.3	1413
Cd 226.502	4.6257	ppb	0.0800	1.7	256.418
Co 228.615	9.6706	ppb	0.2038	2.1	123.715
Cr 267.716	9.3566	ppb	0.0512	0.5	614.920
Cu 324.754	18.8193	ppb	0.3100	1.6	1447.35
Fe 271.441	45.5711	ppb	1.5727	3.5	104.163
K 766.491	882.211	ppb	6.1629	0.7	29852.4
Mg 279.078	448.980	ppb	2.1410	0.5	1314.56
Mn 257.610	9.6878	ppb	0.0314	0.3	2703.65
Mo 202.032	9.0465	ppb	0.2876	3.2	83.2663
Na 330.237	718.446	ppb	191.989	26.7	80.8853
Ni 231.604	36.2765	ppb	0.1342	0.4	136.287
Pb 220.353	8.6469	ppb	0.6874	8.0	32.7036
Sb 206.834	17.4139	ppb	2.7618	15.9	34.2411
Se 196.026	19.9259	ppb	1.1919	6.0	12.0665
Sn 189.925	43.9390	ppb	1.1002	2.5	41.5069
Sr 216.596	9.3424	ppb	0.1342	1.4	163.627
Ti 334.941	8.7673	ppb	0.0169	0.2	2744.16
Tl 190.794	22.9553	ppb	1.3576	5.9	23.3275
V 292.401	8.7331	ppb	0.1246	1.4	258.300
Zn 206.200	17.7129	ppb	0.2474	1.4	36.8730

CCV (Samp) **8/1/2013, 1:23:10 PM** **Rack 1, Tube 49**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	485.406	496.725	485.419
Al 308.215	4845.25	4937.70	4851.83
As 188.980	474.001	483.235	474.625
B 249.678	483.371	493.085	485.816
Ba 389.178	4790.72	4887.04	4809.67
Be 313.042	481.747	493.048	484.902
Ca 370.602	4910	5002	4926
Cd 226.502	483.583	494.385	486.226
Co 228.615	487.829	497.252	487.987
Cr 267.716	4962.63	5062.33	4981.70
Cu 324.754	4976.61	5094.68	4939.67
Fe 271.441	4823.04	4919.23	4839.14
K 766.491	9721.93	9923.53	9758.31
Mg 279.078	4798.03	4896.61	4804.20
Mn 257.610	4915.91	5016.83	4931.65
Mo 202.032	482.950	492.661	483.677
Na 330.237	6819.71	6894.49	6819.91
Ni 231.604	2421.89	2470.22	2425.36
Pb 220.353	484.800	494.192	489.754
Sb 206.834	961.427	976.620	955.767
Se 196.026	4846.50	4977.46	4873.32
Sn 189.925	4897.48	5027.16	4876.80
Sr 216.596	2430.47	2481.58	2440.46
Ti 334.941	472.832	483.080	475.121
Tl 190.794	4854.17	4969.28	4867.92
V 292.401	4790.40	4900.43	4822.09
Zn 206.200	2453.19	2506.02	2453.29

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	489.183	ppb	6.5316	1.3	42146.9
Al 308.215	4878.26	ppb	51.5840	1.1	14030.1
As 188.980	477.287	ppb	5.1605	1.1	421.756
B 249.678	487.424	ppb	5.0526	1.0	8478.68
Ba 389.178	4829.14	ppb	51.0254	1.1	126869
Be 313.042	486.566	ppb	5.8313	1.2	983065
Ca 370.602	4946	ppb	49.51	1.0	15747
Cd 226.502	488.065	ppb	5.6308	1.2	26316.4
Co 228.615	491.023	ppb	5.3952	1.1	7003.09
Cr 267.716	5002.22	ppb	52.9216	1.1	315860
Cu 324.754	5003.65	ppb	80.9635	1.6	318010
Fe 271.441	4860.47	ppb	51.5179	1.1	9447.04
K 766.491	9801.25	ppb	107.444	1.1	329786
Mg 279.078	4832.95	ppb	55.2203	1.1	13725.7
Mn 257.610	4954.80	ppb	54.2971	1.1	1338551
Mo 202.032	486.429	ppb	5.4091	1.1	4155.35
Na 330.237	6844.70	ppb	43.1174	0.6	350.857
Ni 231.604	2439.16	ppb	26.9564	1.1	9500.07
Pb 220.353	489.582	ppb	4.6983	1.0	1022.06
Sb 206.834	964.605	ppb	10.7836	1.1	1667.72
Se 196.026	4899.09	ppb	69.1791	1.4	2888.07
Sn 189.925	4933.81	ppb	81.5005	1.7	5499.92
Sr 216.596	2450.84	ppb	27.0895	1.1	40862.8
Ti 334.941	477.011	ppb	5.3788	1.1	152193
Tl 190.794	4897.12	ppb	62.8677	1.3	7144.79
V 292.401	4837.64	ppb	56.6387	1.2	145560
Zn 206.200	2470.83	ppb	30.4737	1.2	4290.72

CCB (Samp) **8/1/2013, 1:27:45 PM** **Rack 1, Tube 50**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	0.4163	0.2872	0.0026
Al 308.215	-1.5342u	1.3824	-2.6328u
As 188.980	3.6697	0.5036	1.4959
B 249.678	2.1240	0.8343	1.7368
Ba 389.178	0.4652	-0.4215u	0.0474
Be 313.042	0.0175	0.0154	0.0093
Ca 370.602	1.214	-0.0852	2.774
Cd 226.502	0.1230	0.0339	0.0232
Co 228.615	0.5993	0.1451	0.5731
Cr 267.716	0.3008	0.0220	0.0386
Cu 324.754	0.1532	-0.1300u	0.1367
Fe 271.441	-4.6249u	-1.1657u	-1.9036u
K 766.491	-0.0025u	-0.3721u	-0.5296u
Mg 279.078	0.1632	-5.9622u	-1.9454u
Mn 257.610	0.0243	-0.0903u	-0.0935u
Mo 202.032	1.4485	1.0384	1.1671
Na 330.237	-28.7165u	-428.958u	-111.609u
Ni 231.604	0.3372	0.4825	1.4317
Pb 220.353	-0.5150u	-0.1990u	1.2430
Sb 206.834	0.2766	0.0975	2.6402
Se 196.026	-6.4423u	5.2858	5.9267
Sn 189.925	-1.2906u	0.7427	-1.6871u
Sr 216.596	-0.0768u	-0.3994u	-0.0329u
Ti 334.941	0.0072	-0.0146u	-0.0352u
Tl 190.794	1.4685	1.4983	0.1231
V 292.401	-0.1508u	0.1656	-0.1593u
Zn 206.200	-0.2375u	0.3723	-0.3313u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.2353	ppb	0.2117	89.9	15.0068
Al 308.215	-0.9282	ppb	2.0751	223.6	30.8036
As 188.980	1.8897	ppb	1.6193	85.7	-7.2818
B 249.678	1.5650	ppb	0.6618	42.3	138.197
Ba 389.178	0.0304	ppb	0.4436	1459.5	-18.5997
Be 313.042	0.0141	ppb	0.0043	30.3	-255.142
Ca 370.602	1.301	ppb	1.432	110.0	6.646
Cd 226.502	0.0601	ppb	0.0548	91.2	10.2826
Co 228.615	0.4392	ppb	0.2550	58.1	-7.9553
Cr 267.716	0.1205	ppb	0.1564	129.8	31.7450
Cu 324.754	0.0533	ppb	0.1589	298.1	255.271
Fe 271.441	-2.5647	ppb	1.8219	71.0	10.5290
K 766.491	-0.3014	ppb	0.2706	89.8	174.894
Mg 279.078	-2.5814	ppb	3.1118	120.5	25.3790
Mn 257.610	-0.0532	ppb	0.0671	126.2	67.8982
Mo 202.032	1.2180	ppb	0.2097	17.2	16.3305
Na 330.237	-189.761	ppb	211.256	111.3	35.4801
Ni 231.604	0.7505	ppb	0.5944	79.2	-2.1467
Pb 220.353	0.1764	ppb	0.9372	531.4	15.3039
Sb 206.834	1.0048	ppb	1.4192	141.2	7.1230
Se 196.026	1.5901	ppb	6.9636	437.9	1.2610
Sn 189.925	-0.7450	ppb	1.3036	175.0	-8.3731
Sr 216.596	-0.1697	ppb	0.2002	118.0	5.7661
Ti 334.941	-0.0142	ppb	0.0212	149.6	-60.4527
Tl 190.794	1.0300	ppb	0.7855	76.3	-8.7294
V 292.401	-0.0482	ppb	0.1852	384.4	-4.7541
Zn 206.200	-0.0655	ppb	0.3820	759.4	5.9296

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Blank (Blk) **8/2/2013, 1:10:15 PM** **Rack S, Tube 1**

Label	Replicates	Concentration	
Ag 328.068	0.0963	0.0162	-0.1125
Al 308.215	0.6967	-0.9370	0.2403
As 188.980	3.9299	0.2400	-4.1699
B 249.678	-0.1838	0.1129	0.0709
Ba 389.178	0.5109	-0.2624	-0.2485
Be 313.042	0.0057	-0.0070	0.0013
Ca 370.602	1.040	-2.554	1.514
Cd 226.502	-0.1323	0.0517	0.0807
Co 228.615	0.0275	0.2161	-0.2436
Cr 267.716	0.0704	-0.0853	0.0149
Cu 324.754	0.0715	0.1023	-0.1738
Fe 271.441	-0.1338	0.6881	-0.5543
K 766.491	-0.1004	0.2134	-0.1130
Mg 279.078	-0.6232	0.4189	0.2043
Mn 257.610	-0.0118	0.0219	-0.0101
Mo 202.032	-0.2683	0.0530	0.2153
Na 330.237	-3.6636	-40.0653	43.7290
Ni 231.604	0.1181	0.2946	-0.4128
Pb 220.353	0.9997	-1.3588	0.3592
Sb 206.834	-0.2512	0.6965	-0.4452
Se 196.026	2.9235	2.0997	-5.0231
Sn 189.925	-1.6464	0.7522	0.8942
Sr 216.596	0.0212	0.0820	-0.1031
Ti 334.941	-0.0076	-0.0247	0.0323
Tl 190.794	-0.4823	-0.2614	0.7436
V 292.401	0.1141	-0.2357	0.1216
Zn 206.200	-0.2814	0.0510	0.2304

Label	Sol'n Conc.	Units	SD(Int)	%RSD(Int)	Int. (c/s)
Ag 328.068	0.0000	ppb	7.880	147.1	-5.3573
Al 308.215	0.0000	ppb	6.113	2.4	259.512
As 188.980	0.0000	ppb	3.574	40.7	-8.7737
B 249.678	0.0000	ppb	2.776	2.2	126.497
Ba 389.178	0.0000	ppb	11.317	1854.2	0.6104
Be 313.042	0.0000	ppb	12.860	9.8	-131.802
Ca 370.602	0.0000	ppb	6.777	114.8	-5.905
Cd 226.502	0.0000	ppb	6.440	30.8	20.9363
Co 228.615	0.0000	ppb	3.236	37.3	-8.6685
Cr 267.716	0.0000	ppb	4.709	14.4	32.6594
Cu 324.754	0.0000	ppb	9.551	12.0	79.9204
Fe 271.441	0.0000	ppb	1.133	5.4	20.9212
K 766.491	0.0000	ppb	6.503	2.6	253.977
Mg 279.078	0.0000	ppb	1.575	4.5	35.3242
Mn 257.610	0.0000	ppb	5.047	5.2	96.5894
Mo 202.032	0.0000	ppb	2.053	22.7	9.0427
Na 330.237	0.0000	ppb	2.287	4.5	50.9486
Ni 231.604	0.0000	ppb	1.406	45.5	-3.0893
Pb 220.353	0.0000	ppb	2.473	13.7	18.0642
Sb 206.834	0.0000	ppb	0.985	18.8	5.2475
Se 196.026	0.0000	ppb	2.464	357.9	-0.6883
Sn 189.925	0.0000	ppb	1.571	18.7	-8.4158
Sr 216.596	0.0000	ppb	1.538	13.1	11.7527
Ti 334.941	0.0000	ppb	9.070	21.1	-42.9387
Tl 190.794	0.0000	ppb	0.934	9.8	-9.4927
V 292.401	0.0000	ppb	6.040	68.2	-8.8594
Zn 206.200	0.0000	ppb	0.444	156.3	0.2843

HIGH STD (Std) **8/2/2013, 1:14:50 PM** **Rack S, Tube 2**

Label	Replicates	Concentration	
Ag 328.068	997.081	1002.18	1000.74
Al 308.215	9992.35	10035.3	9972.37
As 188.980	998.619	994.530	1006.85
B 249.678	998.943	1001.92	999.137
Ba 389.178	9987.58	10035.1	9977.30
Be 313.042	996.609	1002.64	1000.75
Ca 370.602	9999	10052	9949
Cd 226.502	1000.04	1002.52	997.448
Co 228.615	998.792	1002.18	999.026
Cr 267.716	9961.83	10038.0	10000.2
Cu 324.754	10056.9	9988.53	9954.55
Fe 271.441	9983.23	10019.2	9997.53
K 766.491	19974.9	20082.3	19942.8
Mg 279.078	9988.56	10033.4	9978.01
Mn 257.610	10024.0	10005.5	9970.48
Mo 202.032	999.681	1002.27	998.043
Na 330.237	15147.4	14952.4	14900.2
Ni 231.604	4997.50	5019.39	4983.11
Pb 220.353	1006.00	1000.32	993.682
Sb 206.834	2005.85	2006.47	1987.68
Se 196.026	10011.7	10033.1	9955.20
Sn 189.925	10064.5	9984.26	9951.25
Sr 216.596	5002.99	5009.89	4987.12
Ti 334.941	998.664	1002.70	998.635
Tl 190.794	10001.3	10006.7	9992.04
V 292.401	9981.94	10025.1	9992.92
Zn 206.200	5005.30	5013.93	4980.77

Label	Sol'n Conc.	Units	SD(Int)	%RSD(Int)	Int. (c/s)
Ag 328.068	1000.00	ppb	196.538	0.3	74779.0
Al 308.215	10000.0	ppb	233.087	0.3	72773.1
As 188.980	1000.00	ppb	5.531	0.6	872.593
B 249.678	1000.00	ppb	28.804	0.2	17415.7
Ba 389.178	10000.0	ppb	788.878	0.3	255736
Be 313.042	1000.00	ppb	6134.974	0.3	1987609
Ca 370.602	10000	ppb	156.459	0.5	30457
Cd 226.502	1000.00	ppb	141.279	0.3	55780.5
Co 228.615	1000.00	ppb	26.501	0.2	13995.4
Cr 267.716	10000.0	ppb	2272.089	0.4	596857
Cu 324.754	10000.0	ppb	3290.661	0.5	631183
Fe 271.441	10000.0	ppb	32.517	0.2	17957.3
K 766.491	20000.0	ppb	2570.104	0.4	703594
Mg 279.078	10000.0	ppb	84.255	0.3	28662.8
Mn 257.610	10000.0	ppb	7239.365	0.3	2661907
Mo 202.032	1000.00	ppb	17.793	0.2	8348.58
Na 330.237	15000.0	ppb	7.092	0.8	867.440
Ni 231.604	5000.00	ppb	69.766	0.4	19090.8
Pb 220.353	1000.00	ppb	12.502	0.6	2045.51
Sb 206.834	2000.00	ppb	17.219	0.5	3231.38
Se 196.026	10000.0	ppb	22.689	0.4	5637.28
Sn 189.925	10000.0	ppb	64.096	0.6	10998.0
Sr 216.596	5000.00	ppb	190.354	0.2	81522.2
Ti 334.941	1000.00	ppb	725.725	0.2	310297
Tl 190.794	10000.0	ppb	10.579	0.1	14291.0
V 292.401	10000.0	ppb	664.119	0.2	295883
Zn 206.200	5000.00	ppb	29.446	0.3	8555.84

Ag 328.068 Calibration (ppb) **8/2/2013, 1:14:50 PM** **Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-5.3573	0.0000	0.0000	-	-
HIGH STD		74779.0	1000.00	1000.00	0.0001	0.0

Curve Type: Linear Equation: y = 74.8 x + -5.4

Al 308.215 Calibration (ppb) **8/2/2013, 1:14:50 PM** **Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		259.512	0.0000	0.0000	-	-
HIGH STD		72773.1	10000.0	10000.0	0.0000	0.0

Curve Type: Linear Equation: y = 7.3 x + 259.5

As 188.980 Calibration (ppb) **8/2/2013, 1:14:50 PM** **Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-8.7737	0.0000	0.0000	-	-
HIGH STD		872.593	1000.00	1000.00	0.0000	0.0

Curve Type: Linear Equation: y = 0.9 x + -8.8

B 249.678 Calibration (ppb) **8/2/2013, 1:14:50 PM** **Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		126.497	0.0000	0.0000	-	-
HIGH STD		17415.7	1000.00	1000.00	0.0001	0.0

Curve Type: Linear Equation: y = 17.3 x + 126.5

Ba 389.178 Calibration (ppb) **8/2/2013, 1:14:50 PM** **Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		0.6104	0.0000	0.0000	-	-
HIGH STD		255736	10000.0	10000.0	0.0000	0.0

Curve Type: Linear Equation: y = 25.6 x + 0.6

Be 313.042 Calibration (ppb) **8/2/2013, 1:14:50 PM** **Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-131.802	0.0000	0.0000	-	-
HIGH STD		1987609	1000.00	1000.00	0.0000	0.0

Curve Type: Linear Equation: y = 1987.7 x + -131.8

Ca 370.602 Calibration (ppb) **8/2/2013, 1:14:50 PM** **Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-5.905	0.0000	0.0000	-	-
HIGH STD		30457	10000	10000	0.0000	0.0

Curve Type: Linear Equation: y = 3.0 x + -5.9

Cd 226.502 Calibration (ppb) **8/2/2013, 1:14:50 PM** **Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		20.9363	0.0000	0.0000	-	-
HIGH STD		55780.5	1000.00	1000.00	0.0000	0.0

Curve Type: Linear Equation: y = 55.8 x + 20.9

Co 228.615 Calibration (ppb) **8/2/2013, 1:14:50 PM** **Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-8.6685	0.0000	0.0000	-	-
HIGH STD		13995.4	1000.00	1000.00	0.0000	0.0

Curve Type: Linear Equation: y = 14.0 x + -8.7

Cr 267.716 Calibration (ppb) **8/2/2013, 1:14:50 PM** **Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		32.6594	0.0000	0.0000	-	-
HIGH STD		596857	10000.0	10000.0	0.0010	0.0

Curve Type: Linear Equation: y = 59.7 x + 32.7

Cu 324.754 Calibration (ppb) **8/2/2013, 1:14:50 PM** **Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		79.9204	0.0000	0.0000	-	-
HIGH STD		631183	10000.0	10000.00	-0.0010	0.0

Curve Type: Linear Equation: y = 63.1 x + 79.9

Fe 271.441 Calibration (ppb) **8/2/2013, 1:14:50 PM** **Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		20.9212	0.0000	0.0000	-	-
HIGH STD		17957.3	10000.0	10000.0	0.0010	0.0

Curve Type: Linear Equation: y = 1.8 x + 20.9

K 766.491 Calibration (ppb) **8/2/2013, 1:14:50 PM** **Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		253.977	0.0000	0.0000	-	-
HIGH STD		703594	20000.0	20000.0	-0.0020	0.0

Curve Type: Linear Equation: y = 35.2 x + 254.0

Mg 279.078 Calibration (ppb) **8/2/2013, 1:14:50 PM** **Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		35.3242	0.0000	0.0000	-	-
HIGH STD		28662.8	10000.0	10000.0	0.0000	0.0

Curve Type: Linear Equation: y = 2.9 x + 35.3

Mn 257.610 Calibration (ppb) **8/2/2013, 1:14:50 PM** **Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		96.5894	0.0000	0.0000	-	-
HIGH STD		2661907	10000.0	10000.00	-0.0010	0.0

Curve Type: Linear Equation: y = 266.2 x + 96.6

Mo 202.032 Calibration (ppb) **8/2/2013, 1:14:50 PM** **Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		9.0427	0.0000	0.0000	-	-
HIGH STD		8348.58	1000.00	1000.000	-0.0002	0.0

Curve Type: Linear Equation: y = 8.3 x + 9.0

Na 330.237 Calibration (ppb) **8/2/2013, 1:14:50 PM** **Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		50.9486	0.0000	0.0000	-	-
HIGH STD		867.440	15000.0	15000.0	0.0000	0.0

Curve Type: Linear Equation: y = 0.1 x + 50.9

Ni 231.604 Calibration (ppb) **8/2/2013, 1:14:50 PM** **Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-3.0893	0.0000	0.0000	-	-
HIGH STD		19090.8	5000.00	5000.00	-0.0005	0.0

Curve Type: Linear Equation: y = 3.8 x + -3.1

Pb 220.353 Calibration (ppb) **8/2/2013, 1:14:50 PM** **Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		18.0642	0.0000	0.0000	-	-
HIGH STD		2045.51	1000.00	1000.00	0.0000	0.0

Curve Type: Linear Equation: y = 2.0 x + 18.1

Sb 206.834 Calibration (ppb) **8/2/2013, 1:14:50 PM** **Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		5.2475	0.0000	0.0000	-	-
HIGH STD		3231.38	2000.00	2000.00	0.0000	0.0

Curve Type: Linear Equation: y = 1.6 x + 5.2

Se 196.026 Calibration (ppb) **8/2/2013, 1:14:50 PM** **Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-0.6883	0.0000	0.0000	-	-
HIGH STD		5637.28	10000.0	10000.0	0.0000	0.0

Curve Type: Linear Equation: y = 0.6 x + -0.7

Sn 189.925 Calibration (ppb) **8/2/2013, 1:14:50 PM** **Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-8.4158	0.0000	0.0000	-	-
HIGH STD		10998.0	10000.0	10000.0	0.0000	0.0

Curve Type: Linear Equation: y = 1.1 x + -8.4

Sr 216.596 Calibration (ppb) **8/2/2013, 1:14:50 PM** **Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		11.7527	0.0000	0.0000	-	-
HIGH STD		81522.2	5000.00	5000.00	0.0000	0.0

Curve Type: Linear Equation: y = 16.3 x + 11.8

Ti 334.941 Calibration (ppb) **8/2/2013, 1:14:50 PM** **Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-42.9387	0.0000	0.0000	-	-
HIGH STD		310297	1000.00	1000.000	-0.0001	0.0

Curve Type: Linear Equation: y = 310.3 x + -42.9

Tl 190.794 Calibration (ppb) **8/2/2013, 1:14:50 PM** **Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-9.4927	0.0000	0.0000	-	-
HIGH STD		14291.0	10000.0	10000.0	0.0000	0.0

Curve Type: Linear Equation: y = 1.4 x + -9.5

V 292.401 Calibration (ppb) **8/2/2013, 1:14:50 PM** **Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-8.8594	0.0000	0.0000	-	-
HIGH STD		295883	10000.0	10000.00	-0.0010	0.0

Curve Type: Linear Equation: y = 29.6 x + -8.9

Zn 206.200 Calibration (ppb) **8/2/2013, 1:14:50 PM** **Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		0.2843	0.0000	0.0000	-	-
HIGH STD		8555.84	5000.00	5000.00	0.0005	0.0

Curve Type: Linear Equation: y = 1.7 x + 0.3

LRA1 (Samp) **8/2/2013, 1:59:17 PM** **Rack S, Tube 7**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	1.8015	1.7248	1.7320
Al 308.215	122.041	125.038	120.606
As 188.980	22049.2x	22084.0x	21887.1x
B 249.678	5028.15	5009.49	5011.19
Ba 389.178	-0.3961u	-0.9633u	-1.8097u

Label	Replicates Concentration		
Be 313.042	0.1040	0.0942	0.0930
Ca 370.602	512.5	502.6	484.7
Cd 226.502	-0.9631u	-0.9853u	-0.7540u
Co 228.615	10486.4	10393.7	10430.2
Cr 267.716	-2.5489	-2.5752	-2.3983
Cu 324.754	-0.5959u	-0.4917u	-0.0957u
Fe 271.441	-128.166	-125.482	-130.212
K 766.491	9.9006	10.0251	9.0787
Mg 279.078	7.6367u	16.2419u	7.1237u
Mn 257.610	27796.8x	27648.9x	27764.0x
Mo 202.032	0.1976	0.3980	-0.1174u
Na 330.237	109045x	108119x	107817x
Ni 231.604	10406.9x	10362.0x	10336.2x
Pb 220.353	20965.0x	20810.8x	20815.7x
Sb 206.834	7.5243	4.0016	8.3599
Se 196.026	2.1980	5.4832	8.4266
Sn 189.925	-1.9350u	1.6995	2.0244
Sr 216.596	-13.9216u	-13.5410u	-13.9262u
Ti 334.941	27275.2	27147.4	27173.0
Tl 190.794	53.0298	55.6098	54.9718
V 292.401	-2.0734	-1.8011	-2.4180
Zn 206.200	-0.5936u	0.2789	1.0391

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	1.7527b	ppb	0.0424	2.4	254.673
Al 308.215	122.562b	ppb	2.2616	1.8	614.229
As 188.980	22006.8xb	ppb	105.096	0.5	19387.2
B 249.678	5016.28b	ppb	10.3208	0.2	86852.3
Ba 389.178	-1.0564b	ppb	0.7113	67.3	-25.7514
Be 313.042	0.0971b	ppb	0.0060	6.2	28.8219
Ca 370.602	499.9b	ppb	14.11	2.8	16283
Cd 226.502	-0.9008b	ppb	0.1276	14.2	-26.5254
Co 228.615	10436.8b	ppb	46.6841	0.4	146891
Cr 267.716	-2.5075b	ppb	0.0954	3.8	99.5863
Cu 324.754	-0.3944b	ppb	0.2639	66.9	54.9247
Fe 271.441	-127.953b	ppb	2.3726	1.9	1209.72
K 766.491	9.6681b	ppb	0.5143	5.3	593.977
Mg 279.078	10.3341b	ppb	5.1227	49.6	-539.624
Mn 257.610	27736.6xb	ppb	77.6497	0.3	7383046
Mo 202.032	0.1594b	ppb	0.2598	163.0	10.2987
Na 330.237	108327xb	ppb	640.140	0.6	5842.52
Ni 231.604	10368.4xb	ppb	35.7888	0.3	39559.6
Pb 220.353	20863.9xb	ppb	87.6450	0.4	42303.7
Sb 206.834	6.6286b	ppb	2.3131	34.9	15.9724
Se 196.026	5.3693b	ppb	3.1159	58.0	10.1766
Sn 189.925	0.5963b	ppb	2.1982	368.6	-7.7088
Sr 216.596	-13.7963b	ppb	0.2211	1.6	-478.702
Ti 334.941	27198.5b	ppb	67.6365	0.2	8440737
Tl 190.794	54.5371b	ppb	1.3438	2.5	93.7646
V 292.401	-2.0975b	ppb	0.3092	14.7	390.281
Zn 206.200	0.2415b	ppb	0.8170	338.4	0.7014

LRA2 (Samp) **8/2/2013, 2:04:06 PM** **Rack S, Tube 8**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.1995u	0.0014u	-1.7082u
Al 308.215	803797	799010	795170

Label	Replicates Concentration		
As 188.980	19.5229	14.8342	17.8896
B 249.678	-59.2238u	-60.8305u	-61.7791u
Ba 389.178	-14.5524	-13.8702	-14.1334
Be 313.042	-0.0658	-0.0819	-0.0784
Ca 370.602	786518	784437	781315
Cd 226.502	9.8221	9.6368	8.8118
Co 228.615	5.9845	5.2032	5.1773
Cr 267.716	8.7332	8.5927	8.3581
Cu 324.754	4.1425	4.9545	5.2035
Fe 271.441	913857	906462	899428
K 766.491	71776.5x	71717.5x	71676.0x
Mg 279.078	837368	832845	829090
Mn 257.610	7.2447	6.9440	6.7804
Mo 202.032	4.5372u	3.8425u	3.8041u
Na 330.237	-2513.88u	-2036.08u	-2162.36u
Ni 231.604	12.8366	15.2768	11.4537
Pb 220.353	-6.4216	0.5611	-4.4507
Sb 206.834	11.6664	9.6746	2.3140
Se 196.026	-15.4950u	-35.3876u	-31.2573u
Sn 189.925	-0.3046	1.1317	-1.8190u
Sr 216.596	33.9248	32.9233	32.6968
Ti 334.941	5.2683	4.8993	4.7166
Tl 190.794	-61.4644u	-54.8402u	-49.6941u
V 292.401	14.5213	14.3549	13.7302
Zn 206.200	27413.5	27170.1	27068.1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.6355b	ppb	0.9345	147.1	-71.2357
Al 308.215	799326b	ppb	4321.99	0.5	5796456
As 188.980	17.4155b	ppb	2.3800	13.7	5.3404
B 249.678	-60.6111b	ppb	1.2917	2.1	-3096.12
Ba 389.178	-14.1853b	ppb	0.3441	2.4	3463.79
Be 313.042	-0.0754b	ppb	0.0084	11.2	28.7443
Ca 370.602	784090b	ppb	2619	0.3	2319554
Cd 226.502	9.4236b	ppb	0.5378	5.7	4442.45
Co 228.615	5.4550b	ppb	0.4587	8.4	105.908
Cr 267.716	8.5613b	ppb	0.1895	2.2	818.107
Cu 324.754	4.7668b	ppb	0.5548	11.6	718.299
Fe 271.441	906583b	ppb	7215.25	0.8	1626105
K 766.491	71723.3xb	ppb	50.5248	0.1	2522549
Mg 279.078	833101b	ppb	4145.18	0.5	2384884
Mn 257.610	6.9897b	ppb	0.2355	3.4	12661.1
Mo 202.032	4.0613b	ppb	0.4126	10.2	-9.2062
Na 330.237	-2237.44b	ppb	247.595	11.1	-783.843
Ni 231.604	13.1890b	ppb	1.9357	14.7	74.9839
Pb 220.353	-3.4371b	ppb	3.6000	104.7	70.9335
Sb 206.834	7.8850b	ppb	4.9264	62.5	51.2946
Se 196.026	-27.3799b	ppb	10.4978	38.3	-12.5907
Sn 189.925	-0.3306b	ppb	1.4755	446.3	-8.3841
Sr 216.596	33.1816b	ppb	0.6535	2.0	1885.18
Ti 334.941	4.9614b	ppb	0.2810	5.7	5836.45
Tl 190.794	-55.3329b	ppb	5.9006	10.7	-171.536
V 292.401	14.2021b	ppb	0.4171	2.9	416.136
Zn 206.200	27217.3b	ppb	177.461	0.7	46582.7

K NA ZN (Samp) **8/2/2013, 2:08:45 PM** **Rack S, Tube 9**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	0.0617	-0.0706u	0.3034
Al 308.215	41.6725	34.0500	32.2149
As 188.980	4.0793	4.1885	2.3499
B 249.678	5.5227	5.7350	5.3346
Ba 389.178	1.1708	0.1577	-0.1861u
Be 313.042	-0.0260u	-0.0204u	-0.0220u
Ca 370.602	43.86	34.62	33.24
Cd 226.502	0.0694	0.0850	-0.1585u
Co 228.615	0.1242	0.0509	0.0359
Cr 267.716	0.0704	-0.1470u	-0.2735u
Cu 324.754	0.0711	0.3991	-0.1635u
Fe 271.441	43.6766	44.5836	40.3757
K 766.491	44869.4x	46014.4x	45410.2x
Mg 279.078	36.4735	34.4582	29.7699
Mn 257.610	0.1107	0.0322	0.0216
Mo 202.032	0.2144	-0.4741u	-0.2290u
Na 330.237	106632x	109239x	109293x
Ni 231.604	0.4378	-0.6292u	-0.7838u
Pb 220.353	-1.5388u	-1.0886u	-0.6408u
Sb 206.834	2.6563	0.6146	1.9217
Se 196.026	4.6850	-5.4549u	0.7128
Sn 189.925	-1.0368u	2.6423	0.5384
Sr 216.596	0.0215	-0.3117u	0.2066
Ti 334.941	0.4204	0.3927	0.2847
Tl 190.794	-1.9669u	-0.9994u	-1.3405u
V 292.401	-0.1942u	-0.1349u	-0.0235u
Zn 206.200	31164.8x	31936.2x	31681.5x

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0982b	ppb	0.1897	193.1	1.9785
Al 308.215	35.9791b	ppb	5.0153	13.9	520.431
As 188.980	3.5392b	ppb	1.0314	29.1	-5.6543
B 249.678	5.5307b	ppb	0.2003	3.6	222.155
Ba 389.178	0.3808b	ppb	0.7054	185.3	10.5101
Be 313.042	-0.0228b	ppb	0.0029	12.6	-190.319
Ca 370.602	37.24b	ppb	5.776	15.5	104.5
Cd 226.502	-0.0014b	ppb	0.1363	9965.0	20.1563
Co 228.615	0.0703b	ppb	0.0473	67.2	-7.6311
Cr 267.716	-0.1167b	ppb	0.1740	149.1	27.3782
Cu 324.754	0.1023b	ppb	0.2826	276.3	86.3885
Fe 271.441	42.8786b	ppb	2.2146	5.2	97.8370
K 766.491	45431.3xb	ppb	572.800	1.3	1597937
Mg 279.078	33.5672b	ppb	3.4395	10.2	131.413
Mn 257.610	0.0549b	ppb	0.0487	88.7	110.975
Mo 202.032	-0.1629b	ppb	0.3490	214.3	7.6822
Na 330.237	108388xb	ppb	1520.99	1.4	5456.01
Ni 231.604	-0.3251b	ppb	0.6652	204.6	-4.2857
Pb 220.353	-1.0894b	ppb	0.4490	41.2	15.8583
Sb 206.834	1.7309b	ppb	1.0341	59.7	8.0415
Se 196.026	-0.0190b	ppb	5.1094	26845.9	-0.6989
Sn 189.925	0.7146b	ppb	1.8459	258.3	-7.5794
Sr 216.596	-0.0279b	ppb	0.2627	941.3	11.3487
Ti 334.941	0.3659b	ppb	0.0717	19.6	61.6329
Tl 190.794	-1.4356b	ppb	0.4907	34.2	-11.5494
V 292.401	-0.1175b	ppb	0.0867	73.7	-13.2112
Zn 206.200	31594.2xb	ppb	393.043	769.2	54061.4

mb 680-286279/1-a (Samp) **8/2/2013, 2:22:28 PM** **Rack 1, Tube 3**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.1489u	-0.3852u	0.0541
Al 308.215	13.6835	13.6671	15.1700
As 188.980	0.2784	1.6800	1.0441
B 249.678	1.8290	1.8622	1.7191
Ba 389.178	-0.1738u	-0.2950u	-0.5170u
Be 313.042	-0.0231u	-0.0201u	-0.0287u
Ca 370.602	74.42	68.28	72.01
Cd 226.502	-0.0474u	0.0011	-0.0563u
Co 228.615	-0.0377u	-0.5782u	0.0508
Cr 267.716	0.5541	0.3856	0.3533
Cu 324.754	-0.2244u	0.3940	0.4516
Fe 271.441	15.1909	20.2236	15.5519
K 766.491	8.2642	7.9718	6.8588
Mg 279.078	61.6051	61.9726	63.3066
Mn 257.610	0.2430	0.2695	0.2627
Mo 202.032	-0.3265u	0.1746	-0.3857u
Na 330.237	121.865	42.9690	172.419
Ni 231.604	0.9375	-0.5797u	1.1852
Pb 220.353	0.7376	-2.5356u	0.4625
Sb 206.834	4.3501	0.3644	-0.4691u
Se 196.026	-4.8308u	3.5331	3.4102
Sn 189.925	9.6499	9.9993	8.8490
Sr 216.596	-0.0123u	0.1828	-0.5265u
Ti 334.941	0.2945	0.3150	0.2807
Tl 190.794	-2.3440u	-0.1879u	-2.3029u
V 292.401	-0.0004u	0.2104	0.1948
Zn 206.200	0.4927	1.3383	1.8578

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1600	ppb	0.2199	137.4	-17.3196
Al 308.215	14.1735	ppb	0.8630	6.1	362.263
As 188.980	1.0009	ppb	0.7018	70.1	-7.8915
B 249.678	1.8034	ppb	0.0749	4.2	157.634
Ba 389.178	-0.3286	ppb	0.1740	53.0	-7.5855
Be 313.042	-0.0240	ppb	0.0043	18.1	-179.381
Ca 370.602	71.57	ppb	3.094	4.3	210.9
Cd 226.502	-0.0342	ppb	0.0309	90.4	19.1071
Co 228.615	-0.1883	ppb	0.3405	180.8	-11.2993
Cr 267.716	0.4310	ppb	0.1078	25.0	58.3898
Cu 324.754	0.2071	ppb	0.3748	181.0	92.9886
Fe 271.441	16.9888	ppb	2.8072	16.5	51.3687
K 766.491	7.6983	ppb	0.7416	9.6	524.702
Mg 279.078	62.2948	ppb	0.8953	1.4	213.650
Mn 257.610	0.2584	ppb	0.0137	5.3	166.016
Mo 202.032	-0.1792	ppb	0.3078	171.8	7.5468
Na 330.237	112.418	ppb	65.2402	58.0	57.0386
Ni 231.604	0.5143	ppb	0.9555	185.8	-1.1240
Pb 220.353	-0.4452	ppb	1.8156	407.8	17.1630
Sb 206.834	1.4151	ppb	2.5757	182.0	7.5420
Se 196.026	0.7042	ppb	4.7938	680.8	-0.2912
Sn 189.925	9.4994	ppb	0.5897	6.2	2.0396
Sr 216.596	-0.1187	ppb	0.3665	308.8	9.8395
Ti 334.941	0.2968	ppb	0.0173	5.8	49.4732
Tl 190.794	-1.6116	ppb	1.2331	76.5	-11.7998
V 292.401	0.1349	ppb	0.1175	87.1	-4.8643
Zn 206.200	1.2296	ppb	0.6890	770.0	2.3867

lcs 680-286279/2-a (Samp) **8/2/2013, 2:27:02 PM** **Rack 1, Tube 4**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	52.3583	52.0335	51.1600
Al 308.215	4740.65	4732.95	4700.45
As 188.980	107.230	100.073	107.808
B 249.678	187.670	187.114	186.956
Ba 389.178	103.903	104.588	102.896
Be 313.042	50.8599	50.9205	50.4744
Ca 370.602	5100	5074	5042
Cd 226.502	51.2270	50.9008	51.0031
Co 228.615	51.6546	52.3832	51.8208
Cr 267.716	106.077	105.930	105.226
Cu 324.754	107.203	104.991	104.607
Fe 271.441	5004.92	5003.37	4965.40
K 766.491	4955.02	4938.80	4895.79
Mg 279.078	5010.38	5016.36	4986.03
Mn 257.610	527.049	527.284	523.422
Mo 202.032	103.573	103.879	101.455
Na 330.237	4676.88	4745.85	4742.74
Ni 231.604	102.528	102.090	101.340
Pb 220.353	53.4455	50.2265	49.4038
Sb 206.834	49.6765	48.0012	48.0672
Se 196.026	102.322	92.8448	101.851
Sn 189.925	219.635	214.199	215.255
Sr 216.596	105.370	105.085	104.128
Ti 334.941	100.078	100.087	99.2269
Tl 190.794	36.8060	40.1799	36.7004
V 292.401	102.174	102.331	101.336
Zn 206.200	102.814	103.445	103.364

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	51.8506	ppb	0.6197	1.2	3870.47
Al 308.215	4724.68	ppb	21.3396	0.5	34503.3
As 188.980	105.037	ppb	4.3087	4.1	83.7609
B 249.678	187.247	ppb	0.3751	0.2	3351.88
Ba 389.178	103.796	ppb	0.8513	0.8	2678.13
Be 313.042	50.7516	ppb	0.2420	0.5	100729
Ca 370.602	5072	ppb	28.94	0.6	15132
Cd 226.502	51.0436	ppb	0.1668	0.3	2888.54
Co 228.615	51.9529	ppb	0.3818	0.7	718.565
Cr 267.716	105.744	ppb	0.4551	0.4	6346.60
Cu 324.754	105.600	ppb	1.4012	1.3	6748.56
Fe 271.441	4991.23	ppb	22.3823	0.4	8981.55
K 766.491	4929.87	ppb	30.6087	0.6	173623
Mg 279.078	5004.25	ppb	16.0671	0.3	14349.0
Mn 257.610	525.918	ppb	2.1647	0.4	140149
Mo 202.032	102.969	ppb	1.3200	1.3	867.250
Na 330.237	4721.82	ppb	38.9508	0.8	304.388
Ni 231.604	101.986	ppb	0.6012	0.6	386.367
Pb 220.353	51.0253	ppb	2.1360	4.2	121.722
Sb 206.834	48.5816	ppb	0.9487	2.0	83.9066
Se 196.026	99.0062	ppb	5.3411	5.4	55.2992
Sn 189.925	216.363	ppb	2.8827	1.3	229.726
Sr 216.596	104.861	ppb	0.6507	0.6	1724.01
Ti 334.941	99.7975	ppb	0.4942	0.5	30953.8
Tl 190.794	37.8955	ppb	1.9791	5.2	44.1166
V 292.401	101.947	ppb	0.5351	0.5	2984.47
Zn 206.200	103.207	ppb	0.3434	0.3	176.497

680-92626-b-1-a (Samp) **8/2/2013, 2:31:37 PM** **Rack 1, Tube 5**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.6121	-0.0095	0.7796
Al 308.215	81039.8	80790.0	80751.8
As 188.980	438.605	451.521	440.607
B 249.678	32.5139u	32.7018u	32.0875u
Ba 389.178	1694.02	1696.56	1697.64
Be 313.042	6.9889	6.9792	6.9858
Ca 370.602	117057	117137	117161
Cd 226.502	9.7658	9.7848	9.7494
Co 228.615	56.6591	56.5564	56.1156
Cr 267.716	209.837	209.779	209.497
Cu 324.754	488.928	492.102	498.131
Fe 271.441	283970	284040	284461
K 766.491	15420.9	15415.1	15427.2
Mg 279.078	47484.2	47497.5	47488.1
Mn 257.610	5796.23	5816.73	5813.52
Mo 202.032	16.1033	16.2648	15.8658
Na 330.237	1291.78u	1274.96u	1270.95u
Ni 231.604	145.404	146.801	145.229
Pb 220.353	1118.94	1112.69	1111.88
Sb 206.834	1.2417	6.2287	4.6076
Se 196.026	-2.8600	0.7129	2.9745
Sn 189.925	202.762	209.544	209.858
Sr 216.596	446.646	444.932	444.292
Ti 334.941	814.819	813.762	816.037
Tl 190.794	-1.8556u	-6.8404u	-4.2397u
V 292.401	175.867	176.138	175.974
Zn 206.200	5031.12	5040.43	5008.36

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.4607	ppb	0.4158	90.2	34.2303
Al 308.215	80860.5	ppb	156.440	0.2	586571
As 188.980	443.578	ppb	6.9516	1.6	379.376
B 249.678	32.4344	ppb	0.3148	1.0	5.0099
Ba 389.178	1696.08	ppb	1.8562	0.1	43957.1
Be 313.042	6.9846	ppb	0.0050	0.1	13781.6
Ca 370.602	117118	ppb	54.43	0.0	335702
Cd 226.502	9.7666	ppb	0.0177	0.2	1783.75
Co 228.615	56.4437	ppb	0.2887	0.5	815.961
Cr 267.716	209.704	ppb	0.1817	0.1	12663.4
Cu 324.754	493.053	ppb	4.6747	0.9	31300.9
Fe 271.441	284157	ppb	265.376	0.1	509706
K 766.491	15421.1	ppb	6.0594	0.0	542566
Mg 279.078	47489.9	ppb	6.8696	0.0	135897
Mn 257.610	5808.83	ppb	11.0310	0.2	1547639
Mo 202.032	16.0779	ppb	0.2007	1.2	126.402
Na 330.237	1279.23	ppb	11.0487	0.9	-51.2507
Ni 231.604	145.812	ppb	0.8618	0.6	562.156
Pb 220.353	1114.50	ppb	3.8647	0.3	2301.19
Sb 206.834	4.0260	ppb	2.5439	63.2	24.9960
Se 196.026	0.2758	ppb	2.9417	1066.5	2.2128
Sn 189.925	207.388	ppb	4.0091	1.9	219.897
Sr 216.596	445.290	ppb	1.2172	0.3	7665.20
Ti 334.941	814.873	ppb	1.1387	0.1	253123
Tl 190.794	-4.3119	ppb	2.4932	57.8	-45.1914
V 292.401	175.993	ppb	0.1364	0.1	5197.76
Zn 206.200	5026.64	ppb	16.4991	7723	8603.88

680-92626-b-1-a SD^5 (Samp) **8/2/2013, 2:36:12 PM** **Rack 1, Tube 6**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.3024u	-0.1061u	0.0337
Al 308.215	17783.9	17137.9	16500.6
As 188.980	93.3764	92.9715	90.4276
B 249.678	7.0194u	7.3886u	7.3522u
Ba 389.178	382.914	368.385	354.293
Be 313.042	1.5506	1.5001	1.4424
Ca 370.602	25720	24825	24068
Cd 226.502	2.3649	2.1389	1.9799
Co 228.615	13.1559	12.3088	12.1123
Cr 267.716	47.7334	45.8978	44.1411
Cu 324.754	108.044	104.130	100.887
Fe 271.441	64130.7	61997.1	59643.7
K 766.491	3147.86	3047.00	2946.88
Mg 279.078	10778.3	10408.8	10083.7
Mn 257.610	1353.91	1308.14	1263.45
Mo 202.032	3.5245	3.4805	3.0071
Na 330.237	483.862u	427.796u	466.252u
Ni 231.604	33.4759	33.0236	30.6475
Pb 220.353	253.160	244.059	237.767
Sb 206.834	0.8060	-1.4364	6.4108
Se 196.026	1.4468	1.7571	-1.4049u
Sn 189.925	49.0366	46.1547	45.9241
Sr 216.596	102.113	99.2182	95.7669
Ti 334.941	184.832	177.716	170.943
Tl 190.794	-0.1964u	-1.6130u	-1.6457u
V 292.401	39.5238	37.6844	36.5777
Zn 206.200	1166.84	1119.52	1084.80

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1249	ppb	0.1688	135.1	-13.4998
Al 308.215	17140.8	ppb	641.657	3.7	124546
As 188.980	92.2585	ppb	1.5985	1.7	71.9223
B 249.678	7.2534	ppb	0.2035	2.8	103.316
Ba 389.178	368.531	ppb	14.3109	3.9	9552.16
Be 313.042	1.4977	ppb	0.0542	3.6	2851.61
Ca 370.602	24871	ppb	827.0	3.3	71172
Cd 226.502	2.1612	ppb	0.1935	9.0	406.760
Co 228.615	12.5257	ppb	0.5546	4.4	174.206
Cr 267.716	45.9241	ppb	1.7963	3.9	2798.83
Cu 324.754	104.354	ppb	3.5838	3.4	6688.43
Fe 271.441	61923.8	ppb	2244.42	3.6	111092
K 766.491	3047.25	ppb	100.488	3.3	107417
Mg 279.078	10423.6	ppb	347.576	3.3	29855.1
Mn 257.610	1308.50	ppb	45.2290	3.5	348688
Mo 202.032	3.3374	ppb	0.2869	8.6	33.2338
Na 330.237	459.303	ppb	28.6717	6.2	38.0579
Ni 231.604	32.3823	ppb	1.5194	4.7	122.405
Pb 220.353	244.995	ppb	7.7391	3.2	519.927
Sb 206.834	1.9268	ppb	4.0419	209.8	11.2495
Se 196.026	0.5997	ppb	1.7430	290.6	0.2602
Sn 189.925	47.0385	ppb	1.7343	3.7	43.3681
Sr 216.596	99.0327	ppb	3.1770	3.2	1711.97
Ti 334.941	177.830	ppb	6.9452	3.9	55205.9
Tl 190.794	-1.1517	ppb	0.8275	71.8	-17.6002
V 292.401	37.9286	ppb	1.4881	3.9	1113.26
Zn 206.200	1123.72	ppb	41.1786	7737	1023.62

680-92626-b-1-a PDS (Samp) **8/2/2013, 2:40:59 PM** **Rack 1, Tube 7**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates		Concentration
Ag 328.068	37.6742	37.6535	37.0211
Al 308.215	81632.3	81739.9	81855.1
As 188.980	635.201	641.984	626.405
B 249.678	487.806	488.729	488.985
Ba 389.178	1868.58	1873.18	1870.96
Be 313.042	55.2729	55.3830	55.3921
Ca 370.602	116919	117069	117035
Cd 226.502	56.8517	57.3833	57.0217
Co 228.615	247.609	249.703	248.150
Cr 267.716	403.316	404.665	403.942
Cu 324.754	693.574	702.704	698.535
Fe 271.441	282471	282812	282646
K 766.491	17438.9	17475.8	17490.4
Mg 279.078	48824.4	48860.1	48834.8
Mn 257.610	5918.43	5930.11	5923.11
Mo 202.032	212.849	211.653	212.818
Na 330.237	2970.75u	3286.21	3252.42
Ni 231.604	336.251	331.700	334.327
Pb 220.353	1276.89	1286.83	1279.87
Sb 206.834	199.540	190.073	193.687
Se 196.026	185.125	211.247	193.974
Sn 189.925	403.083	397.256	396.689
Sr 216.596	630.361	633.015	632.514
Ti 334.941	993.868	997.661	997.049
Tl 190.794	180.150	179.969	179.095
V 292.401	363.372	363.982	365.195
Zn 206.200	5135.11	5145.97	5136.80

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	37.4496	ppb	0.3713	1.0	2793.72
Al 308.215	81742.4	ppb	111.424	0.1	592931
As 188.980	634.530	ppb	7.8107	1.2	547.633
B 249.678	488.507	ppb	0.6205	0.1	7893.77
Ba 389.178	1870.91	ppb	2.3019	0.1	48431.3
Be 313.042	55.3493	ppb	0.0664	0.1	109878
Ca 370.602	117008	ppb	78.66	0.1	335578
Cd 226.502	57.0856	ppb	0.2715	0.5	4415.80
Co 228.615	248.487	ppb	1.0872	0.4	3504.20
Cr 267.716	403.974	ppb	0.6755	0.2	24255.8
Cu 324.754	698.271	ppb	4.5705	0.7	44256.2
Fe 271.441	282643	ppb	170.647	0.1	507018
K 766.491	17468.3	ppb	26.5352	0.2	614563
Mg 279.078	48839.8	ppb	18.3607	0.0	139758
Mn 257.610	5923.88	ppb	5.8742	0.1	1578274
Mo 202.032	212.440	ppb	0.6817	0.3	1763.65
Na 330.237	3169.79	ppb	173.204	5.5	49.7714
Ni 231.604	334.093	ppb	2.2846	0.7	1280.53
Pb 220.353	1281.19	ppb	5.1022	0.4	2638.52
Sb 206.834	194.433	ppb	4.7774	2.5	331.503
Se 196.026	196.782	ppb	13.2854	6.8	113.029
Sn 189.925	399.009	ppb	3.5391	0.9	430.804
Sr 216.596	631.963	ppb	1.4098	0.2	10697.7
Ti 334.941	996.193	ppb	2.0365	0.2	309401
Tl 190.794	179.738	ppb	0.5642	0.3	218.883
V 292.401	364.183	ppb	0.9280	0.3	10722.2
Zn 206.200	5139.29	ppb	5.8413	774.1	8795.81

680-92626-b-1-b ms (Samp) **8/2/2013, 2:45:36 PM** **Rack 1, Tube 8**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	51.4021	51.5126	51.4180
Al 308.215	66709.0	66753.2	66742.8
As 188.980	843.729	841.265	851.463
B 249.678	194.301	195.499	194.993
Ba 389.178	2113.51	2114.79	2115.03
Be 313.042	55.2392	55.2242	55.1549
Ca 370.602	106506	106971	106937
Cd 226.502	62.7480	63.1977	62.8889
Co 228.615	109.853	107.377	111.269
Cr 267.716	357.134	358.063	356.556
Cu 324.754	874.543	862.287	876.760
Fe 271.441	390047	389746	390285
K 766.491	20632.4	20551.7	20600.8
Mg 279.078	26009.3	26060.9	25988.4
Mn 257.610	7447.65	7437.59	7451.83
Mo 202.032	123.224	123.800	123.979
Na 330.237	6147.56	6202.82	6165.09
Ni 231.604	267.746	267.912	265.751
Pb 220.353	1612.87	1614.21	1620.37
Sb 206.834	29.5324	32.5390	29.2179
Se 196.026	100.389	100.392	94.2429
Sn 189.925	1233.51	1243.96	1232.85
Sr 216.596	526.357	529.938	527.717
Ti 334.941	945.390	944.037	942.399
Tl 190.794	4.2101u	9.4332u	3.7357u
V 292.401	268.698	268.333	268.934
Zn 206.200	6815.65	6888.36	6871.57

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	51.4442	ppb	0.0597	0.1	3850.81
Al 308.215	66735.0	ppb	23.0946	0.0	484127
As 188.980	845.485	ppb	5.3207	0.6	731.899
B 249.678	194.931	ppb	0.6017	0.3	2561.35
Ba 389.178	2114.44	ppb	0.8184	0.0	54759.3
Be 313.042	55.2061	ppb	0.0449	0.1	109604
Ca 370.602	106805	ppb	259.3	0.2	296365
Cd 226.502	62.9449	ppb	0.2300	0.4	5200.10
Co 228.615	109.500	ppb	1.9699	1.8	1562.96
Cr 267.716	357.251	ppb	0.7605	0.2	21507.6
Cu 324.754	871.197	ppb	7.7953	0.9	55207.5
Fe 271.441	390026	ppb	270.464	0.1	699605
K 766.491	20595.0	ppb	40.6381	0.2	724517
Mg 279.078	26019.5	ppb	37.3075	0.1	74428.3
Mn 257.610	7445.69	ppb	7.3230	0.1	1983470
Mo 202.032	123.668	ppb	0.3946	0.3	1017.39
Na 330.237	6171.82	ppb	28.2373	0.5	152.457
Ni 231.604	267.136	ppb	1.2029	0.5	1028.47
Pb 220.353	1615.82	ppb	3.9986	0.2	3327.10
Sb 206.834	30.4298	ppb	1.8334	6.0	72.3056
Se 196.026	98.3410	ppb	3.5491	3.6	58.3761
Sn 189.925	1236.77	ppb	6.2337	0.5	1352.87
Sr 216.596	528.004	ppb	1.8076	0.3	9147.84
Ti 334.941	943.942	ppb	1.4976	0.2	293083
Tl 190.794	5.7930	ppb	3.1614	54.6	-41.2687
V 292.401	268.655	ppb	0.3028	0.1	7913.52
Zn 206.200	6858.52	ppb	38.0705	7756	11739.1

680-92626-b-1-c msd (Samp) **8/2/2013, 2:50:11 PM** **Rack 1, Tube 9**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	55.7849	55.2684	55.3603
Al 308.215	67812.6	67558.9	67738.7
As 188.980	701.791	697.913	690.200
B 249.678	203.232	203.504	204.920
Ba 389.178	2021.68	2019.27	2021.33
Be 313.042	55.4175	55.1817	55.2996
Ca 370.602	260592	258912	258468
Cd 226.502	60.0832	59.6721	59.8068
Co 228.615	1460.72	1454.63	1462.93
Cr 267.716	339.797	339.240	339.988
Cu 324.754	863.487	852.505	856.032
Fe 271.441	308642	307723	307695
K 766.491	21852.2	21726.8	21854.6
Mg 279.078	123287	122938	123098
Mn 257.610	16684.2	16644.6	16636.6
Mo 202.032	123.191	121.955	123.613
Na 330.237	6613.57	6365.75	6188.47
Ni 231.604	883.315	881.038	877.456
Pb 220.353	1365.71	1353.79	1355.46
Sb 206.834	29.7669	28.8703	31.7549
Se 196.026	106.549	111.320	105.448
Sn 189.925	605.668	607.460	611.199
Sr 216.596	516.651	515.299	515.556
Ti 334.941	1097.60	1094.52	1097.55
Tl 190.794	23.6063	19.6594u	26.0565
V 292.401	284.993	284.315	284.184
Zn 206.200	5663.09	5639.63	5649.69

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	55.4712	ppb	0.2755	0.5	4193.57
Al 308.215	67703.4	ppb	130.521	0.2	491077
As 188.980	696.635	ppb	5.9006	0.8	601.849
B 249.678	203.885	ppb	0.9061	0.4	2911.34
Ba 389.178	2020.76	ppb	1.3002	0.1	52517.8
Be 313.042	55.2996	ppb	0.1179	0.2	109841
Ca 370.602	259324	ppb	1120	0.4	767504
Cd 226.502	59.8540	ppb	0.2096	0.4	4681.36
Co 228.615	1459.43	ppb	4.3002	0.3	20468.8
Cr 267.716	339.675	ppb	0.3890	0.1	20484.6
Cu 324.754	857.341	ppb	5.6064	0.7	54302.5
Fe 271.441	308020	ppb	539.080	0.2	552699
K 766.491	21811.2	ppb	73.0749	0.3	767288
Mg 279.078	123108	ppb	174.870	0.1	352146
Mn 257.610	16655.1	ppb	25.4834	0.2	4435510
Mo 202.032	122.919	ppb	0.8617	0.7	1015.79
Na 330.237	6389.26	ppb	213.521	3.3	208.493
Ni 231.604	880.603	ppb	2.9532	0.3	3364.61
Pb 220.353	1358.32	ppb	6.4566	0.5	2799.82
Sb 206.834	30.1307	ppb	1.4763	4.9	68.4137
Se 196.026	107.772	ppb	3.1213	2.9	65.9778
Sn 189.925	608.109	ppb	2.8223	0.5	661.028
Sr 216.596	515.836	ppb	0.7182	0.1	8848.65
Ti 334.941	1096.55	ppb	1.7638	0.2	340921
Tl 190.794	23.1074	ppb	3.2276	14.0	-9.5578
V 292.401	284.497	ppb	0.4344	0.2	8387.20
Zn 206.200	5650.80	ppb	11.7695	776	0671.63

680-92626-b-2-a (Samp) **8/2/2013, 2:54:48 PM** **Rack 1, Tube 10**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.4475	0.8812	1.8011
Al 308.215	52831.6	52642.9	53309.0
As 188.980	545.611	543.297	548.517
B 249.678	43.9324	44.3821	42.5490
Ba 389.178	1819.54	1812.25	1833.68
Be 313.042	7.2260	7.1738	7.2490
Ca 370.602	102347	102245	103732
Cd 226.502	13.2176	12.6798	13.1618
Co 228.615	50.1706	50.2795	51.4209
Cr 267.716	188.985	187.890	189.632
Cu 324.754	520.085	513.586	526.051
Fe 271.441	234387	233465	235482
K 766.491	14379.9	14316.6	14448.5
Mg 279.078	20678.5	20598.8	20791.3
Mn 257.610	7539.48	7542.40	7610.93
Mo 202.032	17.9258	17.2781	17.6192
Na 330.237	1301.36u	1145.69u	1293.99u
Ni 231.604	109.140	106.243	111.069
Pb 220.353	1314.26	1314.19	1331.15
Sb 206.834	12.2570	7.1299	9.3883
Se 196.026	5.4073	8.4228	13.3528
Sn 189.925	255.031	253.667	261.015
Sr 216.596	470.033	467.660	473.319
Ti 334.941	895.228	890.513	899.809
Tl 190.794	-1.8454u	1.0530u	-2.1579u
V 292.401	168.109	167.692	169.182
Zn 206.200	5726.94	5680.56	5752.32

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	1.0432	ppb	0.6912	66.3	85.2421
Al 308.215	52927.8	ppb	343.291	0.6	384023
As 188.980	545.809	ppb	2.6153	0.5	469.773
B 249.678	43.6212	ppb	0.9554	2.2	318.001
Ba 389.178	1821.83	ppb	10.8981	0.6	47017.4
Be 313.042	7.2162	ppb	0.0385	0.5	14235.9
Ca 370.602	102775	ppb	830.7	0.8	295892
Cd 226.502	13.0197	ppb	0.2957	2.3	1751.29
Co 228.615	50.6237	ppb	0.6926	1.4	734.401
Cr 267.716	188.836	ppb	0.8810	0.5	11412.7
Cu 324.754	519.907	ppb	6.2347	1.2	32977.2
Fe 271.441	234444	ppb	1009.60	0.4	420539
K 766.491	14381.7	ppb	65.9983	0.5	506014
Mg 279.078	20689.6	ppb	96.7186	0.5	59134.9
Mn 257.610	7564.27	ppb	40.4362	0.5	2014494
Mo 202.032	17.6077	ppb	0.3240	1.8	142.040
Na 330.237	1247.01	ppb	87.8228	7.0	-48.4649
Ni 231.604	108.818	ppb	2.4291	2.2	419.388
Pb 220.353	1319.86	ppb	9.7714	0.7	2714.32
Sb 206.834	9.5918	ppb	2.5696	26.8	31.8365
Se 196.026	9.0610	ppb	4.0110	44.3	7.4706
Sn 189.925	256.571	ppb	3.9085	1.5	274.024
Sr 216.596	470.337	ppb	2.8417	0.6	8005.70
Ti 334.941	895.183	ppb	4.6484	0.5	277904
Tl 190.794	-0.9834	ppb	1.7705	180.0	-37.0810
V 292.401	168.328	ppb	0.7689	0.5	4973.03
Zn 206.200	5719.94	ppb	36.3877	0.6	6789.70

680-92626-b-3-a (Samp) **8/2/2013, 2:59:24 PM** **Rack 1, Tube 11**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-1.2615u	-1.4031u	-1.9379u
Al 308.215	148432	148215	147837
As 188.980	332.213	336.841	328.378
B 249.678	-0.5994u	-1.6466u	-2.2918u
Ba 389.178	1634.44	1631.82	1627.71
Be 313.042	21.5227	21.4779	21.4361
Ca 370.602	178850	177768	178740
Cd 226.502	3.2830	3.2756	3.2210
Co 228.615	201.675	199.290	197.154
Cr 267.716	748.608	747.758	745.187
Cu 324.754	287.083	288.454	287.555
Fe 271.441	594889	590685	590108
K 766.491	14915.8	14901.7	14887.8
Mg 279.078	25005.3	24939.7	24887.2
Mn 257.610	17638.1	17541.0	17567.3
Mo 202.032	19.0075	19.7532	19.8585
Na 330.237	864.612u	1314.04u	1397.94u
Ni 231.604	141.515	141.590	141.893
Pb 220.353	952.155	951.214	952.627
Sb 206.834	-10.2155	-4.4526	1.3954
Se 196.026	-11.9302	-11.8944	-3.8474
Sn 189.925	51.9337	49.1936	44.0001
Sr 216.596	391.675	393.051	390.340
Ti 334.941	1332.85	1331.16	1328.36
Tl 190.794	1.3785u	-0.4424u	-0.0858u
V 292.401	673.367	673.304	670.960
Zn 206.200	2834.92	2826.12	2809.07

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.5342	ppb	0.3567	23.3	-57.4016
Al 308.215	148161	ppb	300.748	0.2	1074485
As 188.980	332.477	ppb	4.2373	1.3	278.136
B 249.678	-1.5126	ppb	0.8541	56.5	-1320.53
Ba 389.178	1631.32	ppb	3.3928	0.2	42717.1
Be 313.042	21.4789	ppb	0.0433	0.2	42591.5
Ca 370.602	178453	ppb	595.7	0.3	499700
Cd 226.502	3.2599	ppb	0.0338	1.0	2738.30
Co 228.615	199.373	ppb	2.2614	1.1	2846.57
Cr 267.716	747.185	ppb	1.7810	0.2	44891.2
Cu 324.754	287.698	ppb	0.6967	0.2	18449.3
Fe 271.441	591894	ppb	2609.66	0.4	1061700
K 766.491	14901.8	ppb	14.0417	0.1	524304
Mg 279.078	24944.1	ppb	59.2063	0.2	71145.1
Mn 257.610	17582.1	ppb	50.2273	0.3	4682222
Mo 202.032	19.5397	ppb	0.4639	2.4	136.505
Na 330.237	1192.20	ppb	286.781	24.1	-120.745
Ni 231.604	141.666	ppb	0.1998	0.1	555.173
Pb 220.353	951.999	ppb	0.7197	0.1	1999.34
Sb 206.834	-4.4242	ppb	5.8055	131.2	30.3801
Se 196.026	-9.2240	ppb	4.6563	50.5	1.3781
Sn 189.925	48.3758	ppb	4.0295	8.3	44.9028
Sr 216.596	391.688	ppb	1.3555	0.3	7212.27
Ti 334.941	1330.79	ppb	2.2694	0.2	413162
Tl 190.794	0.2835	ppb	0.9650	340.4	-73.6841
V 292.401	672.544	ppb	1.3721	0.2	19867.0
Zn 206.200	2823.37	ppb	13.1403	778	4835.20

680-92626-b-4-a (Samp) **8/2/2013, 3:04:01 PM** **Rack 1, Tube 12**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.6651	-0.8408u	-1.1018u
Al 308.215	163885	163923	164134
As 188.980	284.267	283.796	293.022
B 249.678	21.9729u	19.4122u	18.9364u
Ba 389.178	1413.28	1417.92	1416.89
Be 313.042	22.4236	22.4850	22.4524
Ca 370.602	246722	248057	246970
Cd 226.502	5.1302	5.2783	5.2094
Co 228.615	175.899	174.667	175.354
Cr 267.716	676.926	678.570	678.093
Cu 324.754	317.900	318.395	315.063
Fe 271.441	489280	490118	490702
K 766.491	18223.7	18229.6	18239.8
Mg 279.078	36834.0	36847.5	36816.2
Mn 257.610	16059.1	16117.6	16065.7
Mo 202.032	16.5150	17.0799	16.6562
Na 330.237	1760.74u	1793.45u	1825.93u
Ni 231.604	136.811	136.584	135.262
Pb 220.353	898.245	902.483	892.338
Sb 206.834	1.4075	-6.2067	-1.2813
Se 196.026	-13.9248u	-14.6280u	2.2231
Sn 189.925	31.4592	31.4002	33.1551
Sr 216.596	508.519	509.031	508.669
Ti 334.941	1616.33	1617.92	1616.21
Tl 190.794	3.8907u	2.0365u	-2.9565u
V 292.401	574.517	575.051	575.594
Zn 206.200	2955.81	2968.96	2973.51

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.8692	ppb	0.2197	25.3	-19.9292
Al 308.215	163981	ppb	134.075	0.1	1189219
As 188.980	287.028	ppb	5.1958	1.8	239.719
B 249.678	20.1072	ppb	1.6331	8.1	-702.015
Ba 389.178	1416.03	ppb	2.4371	0.2	37086.4
Be 313.042	22.4537	ppb	0.0307	0.1	44562.9
Ca 370.602	247250	ppb	710.0	0.3	717146
Cd 226.502	5.2060	ppb	0.0741	1.4	2410.42
Co 228.615	175.306	ppb	0.6174	0.4	2512.94
Cr 267.716	677.863	ppb	0.8460	0.1	40718.1
Cu 324.754	317.119	ppb	1.7983	0.6	20269.3
Fe 271.441	490033	ppb	715.027	0.1	878995
K 766.491	18231.0	ppb	8.1591	0.0	641385
Mg 279.078	36832.6	ppb	15.6938	0.0	105180
Mn 257.610	16080.8	ppb	32.0287	0.2	4282389
Mo 202.032	16.7504	ppb	0.2939	1.8	119.315
Na 330.237	1793.38	ppb	32.5944	1.8	-59.0874
Ni 231.604	136.219	ppb	0.8367	0.6	531.387
Pb 220.353	897.689	ppb	5.0952	0.6	1879.55
Sb 206.834	-2.0268	ppb	3.8615	190.5	29.5819
Se 196.026	-8.7765	ppb	9.5325	108.6	0.8105
Sn 189.925	32.0049	ppb	0.9966	3.1	26.9279
Sr 216.596	508.740	ppb	0.2633	0.1	8995.12
Ti 334.941	1616.82	ppb	0.9580	0.1	501976
Tl 190.794	0.9902	ppb	3.5415	357.6	-62.5087
V 292.401	575.054	ppb	0.5385	0.1	16991.7
Zn 206.200	2966.10	ppb	9.1902	0.3	5078.51

680-92626-b-5-a (Samp) **8/2/2013, 3:17:55 PM** **Rack 1, Tube 15**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	2.6989	2.1870	1.7550
Al 308.215	128500	128279	128204
As 188.980	243.257	253.092	248.023
B 249.678	90.4392	92.5601	92.6358
Ba 389.178	4976.65	4964.68	4974.83
Be 313.042	21.1400	21.0891	21.1595
Ca 370.602	186252	186243	185839
Cd 226.502	21.6165	21.9458	22.0961
Co 228.615	110.684	108.620	111.496
Cr 267.716	347.581	346.143	347.822
Cu 324.754	595.643	597.392	603.528
Fe 271.441	324880	323747	323487
K 766.491	15228.7	15198.3	15250.9
Mg 279.078	23288.2	23242.5	23264.2
Mn 257.610	19593.6	19514.1	19536.8
Mo 202.032	20.4217	19.0412	19.9119
Na 330.237	1296.27u	1242.20u	1461.04u
Ni 231.604	151.996	150.419	150.977
Pb 220.353	3324.57	3317.18	3326.92
Sb 206.834	11.4688	15.4919	15.2303
Se 196.026	-1.6878	-2.3245	0.3577
Sn 189.925	142.885	141.173	142.868
Sr 216.596	810.739	808.356	809.985
Ti 334.941	2404.40	2402.37	2411.34
Tl 190.794	16.4948u	21.5297u	17.5719u
V 292.401	492.059	490.225	492.804
Zn 206.200	6890.19	6871.97	6862.77

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	2.2136	ppb	0.4725	21.3	213.821
Al 308.215	128328	ppb	154.106	0.1	930706
As 188.980	248.124	ppb	4.9181	2.0	207.224
B 249.678	91.8784	ppb	1.2469	1.4	936.835
Ba 389.178	4972.05	ppb	6.4502	0.1	127728
Be 313.042	21.1296	ppb	0.0363	0.2	41909.5
Ca 370.602	186112	ppb	235.7	0.1	544030
Cd 226.502	21.8861	ppb	0.2453	1.1	2630.24
Co 228.615	110.267	ppb	1.4831	1.3	1615.23
Cr 267.716	347.182	ppb	0.9079	0.3	20954.4
Cu 324.754	598.855	ppb	4.1410	0.7	37989.1
Fe 271.441	324038	ppb	740.778	0.2	581248
K 766.491	15226.0	ppb	26.3631	0.2	535706
Mg 279.078	23265.0	ppb	22.8316	0.1	66238.1
Mn 257.610	19548.1	ppb	40.9498	0.2	5204680
Mo 202.032	19.7916	ppb	0.6980	3.5	154.388
Na 330.237	1333.17	ppb	113.990	8.6	-95.9608
Ni 231.604	151.131	ppb	0.7996	0.5	583.526
Pb 220.353	3322.89	ppb	5.0799	0.2	6783.50
Sb 206.834	14.0637	ppb	2.2510	16.0	44.7134
Se 196.026	-1.2182	ppb	1.4014	115.0	5.4028
Sn 189.925	142.309	ppb	0.9834	0.7	148.305
Sr 216.596	809.693	ppb	1.2183	0.2	13669.5
Ti 334.941	2406.04	ppb	4.7038	0.2	746812
Tl 190.794	18.5321	ppb	2.6513	14.3	-24.8835
V 292.401	491.696	ppb	1.3273	0.3	14556.9
Zn 206.200	6874.98	ppb	13.9531	780.3	11766.5

680-92626-b-6-a (Samp) **8/2/2013, 3:22:29 PM** **Rack 1, Tube 16**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	9.9677	11.1999	10.3487
Al 308.215	106897	106956	106543
As 188.980	301.801	295.696	296.298
B 249.678	152.831	151.620	152.558
Ba 389.178	3597.37	3597.42	3590.51
Be 313.042	15.5835	15.5347	15.5316
Ca 370.602	189807	190020	189435
Cd 226.502	25.0818	25.4875	24.8105
Co 228.615	86.3855	88.1784	87.8221
Cr 267.716	318.169	317.514	317.183
Cu 324.754	1779.76	1821.32	1797.17
Fe 271.441	661361	659730	661852
K 766.491	17525.5	17538.5	17526.0
Mg 279.078	31244.8	31247.9	31111.7
Mn 257.610	23809.8	23794.9	23743.0
Mo 202.032	33.2705	33.4245	32.4289
Na 330.237	1477.24u	1454.87u	1421.39u
Ni 231.604	207.287	208.971	207.228
Pb 220.353	7296.75	7269.94	7260.85
Sb 206.834	31.2239	23.2892	29.9431
Se 196.026	-17.2561u	-30.4158u	-7.4033
Sn 189.925	5163.98	5171.81	5177.55
Sr 216.596	1028.04	1025.94	1026.56
Ti 334.941	2696.40	2689.41	2690.51
Tl 190.794	10.8083u	9.0919u	6.3078u
V 292.401	326.374	326.562	325.674
Zn 206.200	13011.7	12974.5	12942.8

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	10.5055	ppb	0.6309	6.0	839.838
Al 308.215	106799	ppb	223.361	0.2	774625
As 188.980	297.932	ppb	3.3644	1.1	246.128
B 249.678	152.337	ppb	0.6354	0.4	1172.00
Ba 389.178	3595.10	ppb	3.9799	0.1	93064.2
Be 313.042	15.5499	ppb	0.0291	0.2	30811.3
Ca 370.602	189754	ppb	296.5	0.2	529684
Cd 226.502	25.1266	ppb	0.3407	1.4	4256.53
Co 228.615	87.4620	ppb	0.9491	1.1	1312.94
Cr 267.716	317.622	ppb	0.5016	0.2	19313.9
Cu 324.754	1799.42	ppb	20.8707	1.2	113885
Fe 271.441	660981	ppb	1111.10	0.2	1185599
K 766.491	17530.0	ppb	7.3770	0.0	616731
Mg 279.078	31201.4	ppb	77.7756	0.2	88958.0
Mn 257.610	23782.6	ppb	35.0946	0.1	6332946
Mo 202.032	33.0413	ppb	0.5359	1.6	245.842
Na 330.237	1451.17	ppb	28.1069	1.9	-292.906
Ni 231.604	207.829	ppb	0.9899	0.5	810.257
Pb 220.353	7275.85	ppb	18.6634	0.3	14828.3
Sb 206.834	28.1521	ppb	4.2598	15.1	80.7032
Se 196.026	-18.3584	ppb	11.5458	62.9	-1.7593
Sn 189.925	5171.12	ppb	6.8114	0.1	5683.20
Sr 216.596	1026.85	ppb	1.0802	0.1	17659.5
Ti 334.941	2692.11	ppb	3.7586	0.1	835672
Tl 190.794	8.7360	ppb	2.2712	26.0	-72.8101
V 292.401	326.203	ppb	0.4680	0.1	9664.87
Zn 206.200	12976.3	ppb	34.5130	7801.3	22210.7

680-92626-b-7-a (Samp) **8/2/2013, 3:27:04 PM** **Rack 1, Tube 17**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	-4.4901u	-4.6549u	-4.6104u
Al 308.215	84739.3	84360.9	84307.8
As 188.980	159.272	169.342	169.866
B 249.678	-8.9098u	-7.7425u	-8.3163u
Ba 389.178	1521.40	1518.68	1516.11
Be 313.042	11.9006	11.8657	11.8639
Ca 370.602	36282	36187	36144
Cd 226.502	3.2649	3.3130	3.4692
Co 228.615	506.908	499.578	502.525
Cr 267.716	538.861	536.724	537.401
Cu 324.754	228.392	227.416	227.976
Fe 271.441	407490	406445	406899
K 766.491	6705.79	6684.05	6690.55
Mg 279.078	6899.12	6876.12	6876.31
Mn 257.610	18276.6	18224.6	18201.0
Mo 202.032	12.7476	13.0594	13.5472
Na 330.237	549.250u	696.954u	767.625u
Ni 231.604	104.369	102.757	103.902
Pb 220.353	1065.25	1061.80	1056.16
Sb 206.834	-6.7163	-2.7209	-2.7300
Se 196.026	-12.7370u	-11.2730	-9.4403
Sn 189.925	48.1105	44.7427	47.2648
Sr 216.596	132.926	132.103	132.134
Ti 334.941	1111.29	1108.27	1109.18
Tl 190.794	12.3197u	15.3292u	10.9734u
V 292.401	521.488	517.684	518.289
Zn 206.200	2632.89	2627.10	2619.12

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-4.5851	ppb	0.0853	1.9	-270.384
Al 308.215	84469.3	ppb	235.282	0.3	612647
As 188.980	166.160	ppb	5.9708	3.6	133.209
B 249.678	-8.3229	ppb	0.5837	7.0	-995.244
Ba 389.178	1518.73	ppb	2.6427	0.2	39496.9
Be 313.042	11.8768	ppb	0.0207	0.2	23458.6
Ca 370.602	36204	ppb	70.61	0.2	80329
Cd 226.502	3.3490	ppb	0.1068	3.2	1952.47
Co 228.615	503.004	ppb	3.6880	0.7	7084.30
Cr 267.716	537.662	ppb	1.0922	0.2	32336.3
Cu 324.754	227.928	ppb	0.4896	0.2	14610.2
Fe 271.441	406945	ppb	523.973	0.1	730007
K 766.491	6693.46	ppb	11.1596	0.2	235643
Mg 279.078	6883.85	ppb	13.2260	0.2	19410.5
Mn 257.610	18234.0	ppb	38.6794	0.2	4855001
Mo 202.032	13.1181	ppb	0.4030	3.1	93.8950
Na 330.237	671.276	ppb	111.429	16.6	-86.8163
Ni 231.604	103.676	ppb	0.8296	0.8	403.588
Pb 220.353	1061.07	ppb	4.5921	0.4	2206.26
Sb 206.834	-4.0557	ppb	2.3041	56.8	21.2283
Se 196.026	-11.1501	ppb	1.6518	14.8	-0.2485
Sn 189.925	46.7060	ppb	1.7521	3.8	42.9931
Sr 216.596	132.387	ppb	0.4665	0.4	2717.30
Ti 334.941	1109.58	ppb	1.5475	0.1	344395
Tl 190.794	12.8741	ppb	2.2302	17.3	-38.0441
V 292.401	519.154	ppb	2.0438	0.4	15337.8
Zn 206.200	2626.37	ppb	6.9180	0.3	4496.82

mb 680-287136/1-a (Samp) **8/2/2013, 3:31:38 PM** **Rack 1, Tube 18**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.1065	-0.2097u	-0.0437u
Al 308.215	17.1005	16.8732	19.7883
As 188.980	-2.0679u	-4.6390u	-1.1639u
B 249.678	0.7669	0.6614	1.3613
Ba 389.178	-0.0010	-0.4242u	-0.5041u
Be 313.042	-0.0317u	-0.0303u	-0.0302u
Ca 370.602	76.54	75.19	76.85
Cd 226.502	-0.2132u	-0.0622u	-0.0101u
Co 228.615	-0.4022u	-0.0383u	0.1991
Cr 267.716	0.3716	0.6732	0.3604
Cu 324.754	0.0661	0.2200	0.0976
Fe 271.441	17.3006	19.7564	18.3030
K 766.491	9.5639	8.8753	9.1628
Mg 279.078	60.0694	56.9534	57.6862
Mn 257.610	0.2856	0.3095	0.3276
Mo 202.032	0.1854	0.1766	-0.5052u
Na 330.237	-53.9011u	-120.992u	181.636
Ni 231.604	-0.2939u	0.4715	0.3589
Pb 220.353	0.2370	1.1277	1.6110
Sb 206.834	-1.4468u	2.4045	1.4992
Se 196.026	-0.6071u	4.3903	6.3155
Sn 189.925	12.5527	12.2192	10.8400
Sr 216.596	-0.1842u	0.2711	-0.2353u
Ti 334.941	0.5625	0.4588	0.4957
Tl 190.794	-0.5062u	-1.3432u	-2.5178u
V 292.401	0.1613	0.2675	0.0397
Zn 206.200	2.0903	2.8863	1.6478

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0490	ppb	0.1582	323.1	-9.0116
Al 308.215	17.9207	ppb	1.6214	9.0	389.434
As 188.980	-2.6236	ppb	1.8029	68.7	-11.0860
B 249.678	0.9299	ppb	0.3774	40.6	142.534
Ba 389.178	-0.3098	ppb	0.2704	87.3	-7.1171
Be 313.042	-0.0307	ppb	0.0008	2.7	-192.888
Ca 370.602	76.20	ppb	0.8824	1.2	225.2
Cd 226.502	-0.0952	ppb	0.1055	110.8	15.6992
Co 228.615	-0.0805	ppb	0.3029	376.2	-9.7884
Cr 267.716	0.4684	ppb	0.1775	37.9	60.6209
Cu 324.754	0.1279	ppb	0.0813	63.6	87.9952
Fe 271.441	18.4533	ppb	1.2348	6.7	54.0109
K 766.491	9.2007	ppb	0.3459	3.8	577.538
Mg 279.078	58.2363	ppb	1.6292	2.8	202.029
Mn 257.610	0.3076	ppb	0.0211	6.9	179.063
Mo 202.032	-0.0477	ppb	0.3962	830.0	8.6433
Na 330.237	2.2477	ppb	158.935	7070.9	51.0240
Ni 231.604	0.1788	ppb	0.4132	231.1	-2.4056
Pb 220.353	0.9919	ppb	0.6970	70.3	20.0761
Sb 206.834	0.8190	ppb	2.0137	245.9	6.5796
Se 196.026	3.3662	ppb	3.5731	106.1	1.2097
Sn 189.925	11.8706	ppb	0.9080	7.6	4.6495
Sr 216.596	-0.0495	ppb	0.2788	563.5	10.9665
Ti 334.941	0.5057	ppb	0.0526	10.4	114.284
Tl 190.794	-1.4557	ppb	1.0105	69.4	-11.5764
V 292.401	0.1561	ppb	0.1140	73.0	-4.2494
Zn 206.200	2.2081	ppb	0.6276	28.4	4.0609

lcs 680-287136/2-a (Samp) **8/2/2013, 3:36:13 PM** **Rack 1, Tube 19**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	53.0217	52.3507	52.8984
Al 308.215	4586.37	4593.83	4592.92
As 188.980	94.1126	103.350	99.4328
B 249.678	180.820	180.923	181.718
Ba 389.178	100.002	100.417	100.365
Be 313.042	48.9239	48.9998	49.0963
Ca 370.602	5015	5001	5001
Cd 226.502	49.3156	49.4998	49.2131
Co 228.615	50.2229	50.0017	50.8346
Cr 267.716	102.497	102.528	102.325
Cu 324.754	103.390	102.069	102.019
Fe 271.441	4817.86	4816.56	4838.20
K 766.491	4822.48	4828.51	4828.07
Mg 279.078	4837.91	4834.91	4839.28
Mn 257.610	512.128	511.763	511.417
Mo 202.032	100.631	102.286	100.216
Na 330.237	4496.64	4608.67	4469.91
Ni 231.604	99.0575	98.8152	98.5207
Pb 220.353	50.8506	49.8520	50.4922
Sb 206.834	48.2226	48.8429	46.0512
Se 196.026	103.742	103.507	99.1475
Sn 189.925	206.097	208.668	205.966
Sr 216.596	101.037	102.033	101.739
Ti 334.941	96.9735	97.1093	97.1621
Tl 190.794	38.3503	39.0110	37.0432
V 292.401	99.3658	99.4160	99.6159
Zn 206.200	103.212	100.964	101.259

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	52.7569	ppb	0.3571	0.7	3938.34
Al 308.215	4591.04	ppb	4.0715	0.1	33534.6
As 188.980	98.9652	ppb	4.6365	4.7	78.4104
B 249.678	181.154	ppb	0.4918	0.3	3246.91
Ba 389.178	100.261	ppb	0.2262	0.2	2587.01
Be 313.042	49.0067	ppb	0.0864	0.2	97261.5
Ca 370.602	5006	ppb	7.978	0.2	14939
Cd 226.502	49.3428	ppb	0.1453	0.3	2793.03
Co 228.615	50.3531	ppb	0.4315	0.9	696.158
Cr 267.716	102.450	ppb	0.1092	0.1	6149.90
Cu 324.754	102.493	ppb	0.7774	0.8	6552.33
Fe 271.441	4824.21	ppb	12.1370	0.3	8681.72
K 766.491	4826.35	ppb	3.3600	0.1	169982
Mg 279.078	4837.37	ppb	2.2335	0.0	13871.6
Mn 257.610	511.769	ppb	0.3552	0.1	136381
Mo 202.032	101.044	ppb	1.0952	1.1	851.210
Na 330.237	4525.07	ppb	73.6167	1.6	293.772
Ni 231.604	98.7978	ppb	0.2688	0.3	374.193
Pb 220.353	50.3982	ppb	0.5059	1.0	120.443
Sb 206.834	47.7056	ppb	1.4659	3.1	82.4654
Se 196.026	102.132	ppb	2.5874	2.5	57.0566
Sn 189.925	206.911	ppb	1.5233	0.7	219.323
Sr 216.596	101.603	ppb	0.5117	0.5	1670.80
Ti 334.941	97.0816	ppb	0.0973	0.1	30110.1
Tl 190.794	38.1348	ppb	1.0014	2.6	44.4767
V 292.401	99.4659	ppb	0.1323	0.1	2911.64
Zn 206.200	101.812	ppb	1.2316	1.2	174.121

680-92667-a-1-a (Samp) **8/2/2013, 3:40:48 PM** **Rack 1, Tube 20**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	7.9804	7.8425	7.9278
Al 308.215	18637.6	18643.3	18625.1
As 188.980	0.9867	10.3345	6.5931
B 249.678	46.1642	46.0455	46.0929
Ba 389.178	1001.90	1000.64	1001.60
Be 313.042	0.5912	0.5926	0.5921
Ca 370.602	17813	17839	17779
Cd 226.502	59.2456	59.0877	58.9700
Co 228.615	9.9371	9.7446	9.5866
Cr 267.716	173.352	173.250	173.463
Cu 324.754	258.765	260.829	261.891
Fe 271.441	29946.5	29930.4	29990.8
K 766.491	3537.45	3540.65	3544.56
Mg 279.078	3305.31	3294.56	3297.35
Mn 257.610	13436.0	13441.6	13436.0
Mo 202.032	51.5380	51.5434	51.6934
Na 330.237	1884.01	2028.00	1910.16
Ni 231.604	36.3156	35.5449	36.2059
Pb 220.353	31.6548	30.9106	27.4120
Sb 206.834	6.4162	2.4683	0.3994
Se 196.026	4.6826	4.5648	5.9690
Sn 189.925	29.0598	32.8442	31.0238
Sr 216.596	173.905	173.097	174.061
Ti 334.941	328.915	330.033	331.488
Tl 190.794	16.5315	17.3617	14.8179
V 292.401	31.6354	31.6125	31.5860
Zn 206.200	469.247	470.160	467.824

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	7.9169	ppb	0.0696	0.9	640.210
Al 308.215	18635.3	ppb	9.2837	0.0	135387
As 188.980	5.9715	ppb	4.7048	78.8	-3.6827
B 249.678	46.1009	ppb	0.0597	0.1	851.564
Ba 389.178	1001.38	ppb	0.6620	0.1	25666.0
Be 313.042	0.5920	ppb	0.0007	0.1	1038.14
Ca 370.602	17810	ppb	29.75	0.2	52500
Cd 226.502	59.1011	ppb	0.1383	0.2	3444.88
Co 228.615	9.7561	ppb	0.1755	1.8	137.129
Cr 267.716	173.355	ppb	0.1064	0.1	10459.8
Cu 324.754	260.495	ppb	1.5894	0.6	16532.4
Fe 271.441	29955.9	ppb	31.3001	0.1	53753.1
K 766.491	3540.88	ppb	3.5633	0.1	124776
Mg 279.078	3299.07	ppb	5.5795	0.2	9187.12
Mn 257.610	13437.9	ppb	3.2446	0.0	3577123
Mo 202.032	51.5916	ppb	0.0882	0.2	437.501
Na 330.237	1940.72	ppb	76.7090	4.0	138.468
Ni 231.604	36.0221	ppb	0.4169	1.2	135.353
Pb 220.353	29.9925	ppb	2.2655	7.6	84.2658
Sb 206.834	3.0946	ppb	3.0569	98.8	12.7838
Se 196.026	5.0721	ppb	0.7789	15.4	6.0757
Sn 189.925	30.9760	ppb	1.8926	6.1	25.6871
Sr 216.596	173.688	ppb	0.5175	0.3	2884.15
Ti 334.941	330.145	ppb	1.2901	0.4	102435
Tl 190.794	16.2371	ppb	1.2972	8.0	2.0612
V 292.401	31.6113	ppb	0.0247	0.1	912.593
Zn 206.200	469.077	ppb	1.1777	0.3	802.545

680-92667-a-1-a SD^5 (Samp) **8/2/2013, 3:45:35 PM** **Rack 1, Tube 21**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	1.3651	1.6716	1.5819
Al 308.215	3698.64	3714.89	3681.59
As 188.980	0.8870	2.4480	0.9698
B 249.678	8.5999	8.7290	8.5070
Ba 389.178	196.657	197.896	196.442
Be 313.042	0.0769	0.0924	0.0892
Ca 370.602	3552	3570	3530
Cd 226.502	11.6459	11.7629	11.6677
Co 228.615	1.5072	1.7557	1.8678
Cr 267.716	34.4257	34.3391	34.2808
Cu 324.754	50.7547	51.9072	50.8555
Fe 271.441	5899.85	5935.51	5863.16
K 766.491	689.602	693.730	687.519
Mg 279.078	665.329	664.993	652.245
Mn 257.610	2706.86	2726.81	2698.42
Mo 202.032	9.8310	10.4397	9.3477
Na 330.237	411.486	428.215	504.778
Ni 231.604	6.7287	7.7031	7.4847
Pb 220.353	3.8876	4.2170	5.4472
Sb 206.834	4.1223	-0.4526u	2.7212
Se 196.026	1.8442	0.3615	6.2321
Sn 189.925	8.4028	7.0776	9.8013
Sr 216.596	34.1070	34.8584	34.2423
Ti 334.941	70.6273	71.1579	70.7371
Tl 190.794	2.4101	5.0544	2.5475
V 292.401	6.2345	6.1248	6.2176
Zn 206.200	91.5779	94.4882	94.5641

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	1.5395	ppb	0.1576	10.2	120.581
Al 308.215	3698.37	ppb	16.6484	0.5	27077.0
As 188.980	1.4349	ppb	0.8783	61.2	-7.5423
B 249.678	8.6120	ppb	0.1115	1.3	261.218
Ba 389.178	196.999	ppb	0.7849	0.4	5049.71
Be 313.042	0.0862	ppb	0.0082	9.5	38.1892
Ca 370.602	3551	ppb	19.71	0.6	10471
Cd 226.502	11.6922	ppb	0.0622	0.5	698.185
Co 228.615	1.7102	ppb	0.1846	10.8	17.2584
Cr 267.716	34.3485	ppb	0.0729	0.2	2098.95
Cu 324.754	51.1725	ppb	0.6383	1.2	3311.89
Fe 271.441	5899.51	ppb	36.1741	0.6	10602.9
K 766.491	690.284	ppb	3.1610	0.5	24529.2
Mg 279.078	660.856	ppb	7.4589	1.1	1868.19
Mn 257.610	2710.70	ppb	14.5781	0.5	721658
Mo 202.032	9.8728	ppb	0.5472	5.5	91.0242
Na 330.237	448.160	ppb	49.7416	11.1	71.7321
Ni 231.604	7.3055	ppb	0.5114	7.0	24.9831
Pb 220.353	4.5173	ppb	0.8220	18.2	28.2977
Sb 206.834	2.1303	ppb	2.3440	110.0	9.1956
Se 196.026	2.8126	ppb	3.0528	108.5	1.6840
Sn 189.925	8.4272	ppb	1.3620	16.2	0.8614
Sr 216.596	34.4026	ppb	0.4005	1.2	580.638
Ti 334.941	70.8408	ppb	0.2801	0.4	21945.9
Tl 190.794	3.3373	ppb	1.4886	44.6	-7.0599
V 292.401	6.1923	ppb	0.0591	1.0	171.781
Zn 206.200	93.5434	ppb	1.7026	1.8	160.271

680-92667-a-1-a PDS (Samp) **8/2/2013, 3:50:11 PM** **Rack 1, Tube 22**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	46.8189	46.1222	48.6225
Al 308.215	19505.3	19420.7	20024.2
As 188.980	199.105	194.075	197.851
B 249.678	481.903	481.701	496.654
Ba 389.178	1139.06	1134.71	1165.88
Be 313.042	47.6453	47.4803	48.9447
Ca 370.602	18704	18603	19111
Cd 226.502	103.627	103.461	106.220
Co 228.615	202.131	198.962	205.660
Cr 267.716	357.617	356.368	367.196
Cu 324.754	449.244	437.961	455.246
Fe 271.441	30213.3	30118.9	31013.6
K 766.491	5347.57	5334.27	5469.31
Mg 279.078	4997.71	4969.93	5123.51
Mn 257.610	12957.6	12906.8	13288.3
Mo 202.032	243.846	243.219	250.528
Na 330.237	3747.31	3808.34	3883.10
Ni 231.604	221.814	221.675	227.771
Pb 220.353	218.942	218.420	222.756
Sb 206.834	185.202	187.432	190.752
Se 196.026	187.993	186.612	199.602
Sn 189.925	222.066	223.887	219.929
Sr 216.596	358.142	356.327	367.596
Ti 334.941	527.903	528.574	543.089
Tl 190.794	199.639	195.042	205.577
V 292.401	217.264	216.209	223.805
Zn 206.200	638.998	636.195	649.329

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	47.1879	ppb	1.2904	2.7	3568.05
Al 308.215	19650.0	ppb	326.759	1.7	142710
As 188.980	197.010	ppb	2.6179	1.3	164.625
B 249.678	486.753	ppb	8.5754	1.8	8468.81
Ba 389.178	1146.55	ppb	16.8812	1.5	29385.8
Be 313.042	48.0234	ppb	0.8021	1.7	95280.8
Ca 370.602	18806	ppb	268.9	1.4	55588
Cd 226.502	104.436	ppb	1.5471	1.5	5975.05
Co 228.615	202.251	ppb	3.3508	1.7	2832.44
Cr 267.716	360.394	ppb	5.9239	1.6	21618.5
Cu 324.754	447.484	ppb	8.7759	2.0	28337.9
Fe 271.441	30448.6	ppb	491.566	1.6	54664.9
K 766.491	5383.72	ppb	74.4280	1.4	189583
Mg 279.078	5030.38	ppb	81.8366	1.6	14152.0
Mn 257.610	13050.9	ppb	207.144	1.6	3474142
Mo 202.032	245.864	ppb	4.0510	1.6	2057.21
Na 330.237	3812.92	ppb	68.0146	1.8	236.776
Ni 231.604	223.754	ppb	3.4795	1.6	851.688
Pb 220.353	220.039	ppb	2.3669	1.1	468.966
Sb 206.834	187.795	ppb	2.7928	1.5	310.110
Se 196.026	191.403	ppb	7.1346	3.7	111.016
Sn 189.925	221.961	ppb	1.9814	0.9	235.894
Sr 216.596	360.688	ppb	6.0508	1.7	5924.90
Ti 334.941	533.189	ppb	8.5806	1.6	165456
Tl 190.794	200.086	ppb	5.2817	2.6	266.013
V 292.401	219.093	ppb	4.1149	1.9	6417.47
Zn 206.200	641.507	ppb	6.9174	787.1	1096.81

680-92667-a-1-b ms (Samp) **8/2/2013, 3:54:47 PM** **Rack 1, Tube 23**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	61.1774	60.8884	62.1362
Al 308.215	24347.3	24455.0	24315.5
As 188.980	88.0012	89.4063	90.1317
B 249.678	223.836	225.452	223.583
Ba 389.178	1093.95	1096.78	1091.22
Be 313.042	50.1513	50.3028	50.0911
Ca 370.602	22715	22745	22571
Cd 226.502	108.368	108.426	108.208
Co 228.615	60.3686	60.7117	59.2282
Cr 267.716	276.014	276.847	275.834
Cu 324.754	362.549	366.705	364.413
Fe 271.441	34681.7	34761.1	34721.1
K 766.491	8548.58	8592.78	8529.18
Mg 279.078	8129.71	8166.17	8124.55
Mn 257.610	13846.0	13872.7	13826.1
Mo 202.032	150.628	151.203	149.515
Na 330.237	6726.55	6437.48	6671.73
Ni 231.604	135.074	134.321	134.749
Pb 220.353	78.1286	78.5724	78.7498
Sb 206.834	48.5554	45.8909	48.1268
Se 196.026	89.6647	88.7872	91.0215
Sn 189.925	219.595	220.511	218.345
Sr 216.596	275.642	275.339	274.936
Ti 334.941	363.515	363.416	362.896
Tl 190.794	57.7824	55.5133	55.3559
V 292.401	129.330	129.804	128.773
Zn 206.200	559.367	559.709	561.108

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	61.4007	ppb	0.6532	1.1	4637.90
Al 308.215	24372.6	ppb	73.1048	0.3	176975
As 188.980	89.1798	ppb	1.0832	1.2	69.6326
B 249.678	224.290	ppb	1.0140	0.5	3920.98
Ba 389.178	1093.98	ppb	2.7829	0.3	28056.3
Be 313.042	50.1818	ppb	0.1091	0.2	99591.0
Ca 370.602	22677	ppb	93.03	0.4	66995
Cd 226.502	108.334	ppb	0.1131	0.1	6210.41
Co 228.615	60.1028	ppb	0.7766	1.3	840.209
Cr 267.716	276.232	ppb	0.5405	0.2	16602.0
Cu 324.754	364.556	ppb	2.0820	0.6	23103.7
Fe 271.441	34721.3	ppb	39.7211	0.1	62308.4
K 766.491	8556.85	ppb	32.5966	0.4	301173
Mg 279.078	8140.14	ppb	22.6849	0.3	23035.2
Mn 257.610	13848.2	ppb	23.3559	0.2	3686423
Mo 202.032	150.448	ppb	0.8582	0.6	1261.44
Na 330.237	6611.92	ppb	153.536	2.3	389.699
Ni 231.604	134.715	ppb	0.3780	0.3	512.231
Pb 220.353	78.4836	ppb	0.3200	0.4	182.768
Sb 206.834	47.5244	ppb	1.4308	3.0	84.7643
Se 196.026	89.8245	ppb	1.1257	1.3	53.9996
Sn 189.925	219.484	ppb	1.0872	0.5	233.171
Sr 216.596	275.306	ppb	0.3542	0.1	4543.35
Ti 334.941	363.276	ppb	0.3326	0.1	112742
Tl 190.794	56.2172	ppb	1.3578	2.4	58.7302
V 292.401	129.302	ppb	0.5158	0.4	3779.84
Zn 206.200	560.061	ppb	0.9223	0.2	788.2 057.852

680-92667-a-1-c msd (Samp) **8/2/2013, 3:59:24 PM** **Rack 1, Tube 24**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	57.0990	57.7611	57.5979
Al 308.215	22914.4	22944.7	22897.9
As 188.980	81.8952	80.9745	79.5057
B 249.678	211.530	211.953	210.928
Ba 389.178	1034.74	1035.67	1034.12
Be 313.042	46.4527	46.5503	46.4161
Ca 370.602	21507	21493	21480
Cd 226.502	102.444	102.617	102.586
Co 228.615	56.1303	56.1759	55.9285
Cr 267.716	258.961	259.383	258.697
Cu 324.754	343.512	341.124	338.026
Fe 271.441	32641.7	32678.0	32576.2
K 766.491	7925.08	7933.19	7924.93
Mg 279.078	7620.77	7619.74	7609.97
Mn 257.610	13122.1	13135.8	13062.6
Mo 202.032	142.014	139.962	140.671
Na 330.237	6237.43	6094.47	6274.56
Ni 231.604	125.564	126.867	125.844
Pb 220.353	72.1726	75.8593	73.8557
Sb 206.834	41.9425	46.5214	42.3687
Se 196.026	86.8279	87.1940	87.5610
Sn 189.925	205.171	205.612	207.681
Sr 216.596	259.457	259.577	258.400
Ti 334.941	346.525	347.312	344.714
Tl 190.794	51.6375	51.5945	55.1498
V 292.401	120.646	120.380	120.261
Zn 206.200	526.199	531.251	524.218

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	57.4860	ppb	0.3449	0.6	4342.40
Al 308.215	22919.0	ppb	23.7647	0.1	166435
As 188.980	80.7918	ppb	1.2052	1.5	62.2509
B 249.678	211.470	ppb	0.5151	0.2	3704.27
Ba 389.178	1034.84	ppb	0.7813	0.1	26539.1
Be 313.042	46.4730	ppb	0.0694	0.1	92220.6
Ca 370.602	21493	ppb	13.59	0.1	63516
Cd 226.502	102.549	ppb	0.0923	0.1	5879.00
Co 228.615	56.0782	ppb	0.1317	0.2	783.560
Cr 267.716	259.014	ppb	0.3461	0.1	15569.8
Cu 324.754	340.887	ppb	2.7505	0.8	21609.0
Fe 271.441	32632.0	ppb	51.5876	0.2	58560.2
K 766.491	7927.73	ppb	4.7256	0.1	279049
Mg 279.078	7616.83	ppb	5.9608	0.1	21553.7
Mn 257.610	13106.8	ppb	38.8877	0.3	3489061
Mo 202.032	140.882	ppb	1.0422	0.7	1181.80
Na 330.237	6202.16	ppb	95.0852	1.5	368.629
Ni 231.604	126.091	ppb	0.6858	0.5	479.250
Pb 220.353	73.9625	ppb	1.8457	2.5	173.287
Sb 206.834	43.6109	ppb	2.5296	5.8	78.2759
Se 196.026	87.1943	ppb	0.3665	0.4	52.2953
Sn 189.925	206.155	ppb	1.3400	0.6	218.500
Sr 216.596	259.144	ppb	0.6475	0.2	4277.34
Ti 334.941	346.184	ppb	1.3323	0.4	107434
Tl 190.794	52.7939	ppb	2.0404	3.9	54.5107
V 292.401	120.429	ppb	0.1971	0.2	3519.75
Zn 206.200	527.223	ppb	3.6265	0.7	901.710

680-92706-a-8-a (Samp) **8/2/2013, 4:13:06 PM** **Rack 1, Tube 27**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.4719	0.4843	0.1663u
Al 308.215	108790	108013	109610
As 188.980	5.0831	6.4193	3.7738
B 249.678	82.0903	82.0663	84.0113
Ba 389.178	908.738	903.103	917.392
Be 313.042	0.8579	0.8434	0.8614
Ca 370.602	552922	545256	555454
Cd 226.502	38.1795	38.1353	38.7001
Co 228.615	509.982	504.869	514.311
Cr 267.716	62.3617	61.8159	63.3490
Cu 324.754	112.631	112.890	114.862
Fe 271.441	50736.4	50421.6	51276.6
K 766.491	13732.7	13706.0	13832.2
Mg 279.078	52799.2	52539.0	53444.4
Mn 257.610	648.874	644.460	655.126
Mo 202.032	3.1295	2.5746	3.1702
Na 330.237	9896.90u	9974.42u	10070.9u
Ni 231.604	47.8484	45.1181	47.3579
Pb 220.353	841.585	838.377	842.006
Sb 206.834	8.7520	10.0028	8.0289
Se 196.026	-9.6633u	-10.5107u	-12.2797u
Sn 189.925	83.0124	80.8958	83.0731
Sr 216.596	412.146	408.906	415.918
Ti 334.941	2725.98	2719.39	2758.04
Tl 190.794	-4.2195u	-4.9212u	-4.2227u
V 292.401	63.6798	62.7352	63.6709
Zn 206.200	43328.6x	43013.9x	43754.7x

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.3742b	ppb	0.1801	48.1	5.7032
Al 308.215	108805b	ppb	798.716	0.7	789202
As 188.980	5.0921b	ppb	1.3227	26.0	-3.4523
B 249.678	82.7226b	ppb	1.1161	1.3	1434.60
Ba 389.178	909.744b	ppb	7.1974	0.8	23499.0
Be 313.042	0.8542b	ppb	0.0095	1.1	1775.56
Ca 370.602	551211b	ppb	5310	1.0	1676690
Cd 226.502	38.3383b	ppb	0.3141	0.8	2377.56
Co 228.615	509.721b	ppb	4.7266	0.9	7206.29
Cr 267.716	62.5089b	ppb	0.7771	1.2	3787.58
Cu 324.754	113.461b	ppb	1.2203	1.1	7258.70
Fe 271.441	50811.5b	ppb	432.424	0.9	91228.8
K 766.491	13757.0b	ppb	66.4805	0.5	484045
Mg 279.078	52927.6b	ppb	466.129	0.9	151507
Mn 257.610	649.487b	ppb	5.3593	0.8	173645
Mo 202.032	2.9581b	ppb	0.3327	11.2	30.6455
Na 330.237	9980.73b	ppb	87.1624	0.9	-111.150
Ni 231.604	46.7748b	ppb	1.4555	3.1	175.614
Pb 220.353	840.656b	ppb	1.9846	0.2	1722.54
Sb 206.834	8.9279b	ppb	0.9986	11.2	22.3835
Se 196.026	-10.8179b	ppb	1.3350	12.3	-6.4058
Sn 189.925	82.3271b	ppb	1.2399	1.5	82.5071
Sr 216.596	412.323b	ppb	3.5091	0.9	6886.23
Ti 334.941	2734.47b	ppb	20.6760	0.8	848850
Tl 190.794	-4.4544b	ppb	0.4042	9.1	-18.7568
V 292.401	63.3620b	ppb	0.5428	0.9	1908.15
Zn 206.200	43365.7xb	ppb	371.828	790.9	74204.2

680-92706-a-9-a (Samp) **8/2/2013, 4:17:40 PM** **Rack 1, Tube 28**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.8754	0.6402	0.4468
Al 308.215	74035.2	74199.3	74237.1
As 188.980	0.1227	2.0887	3.8966
B 249.678	92.3178	91.1762	91.6843
Ba 389.178	951.631	951.333	950.365
Be 313.042	0.5548	0.5595	0.5575
Ca 370.602	326227	327061	327002
Cd 226.502	19.8606	19.8171	19.6470
Co 228.615	819.060	820.873	820.406
Cr 267.716	376.483	376.429	376.786
Cu 324.754	69.2805	67.6096	70.1791
Fe 271.441	70719.6	70796.1	70896.7
K 766.491	15117.8	15122.1	15092.6
Mg 279.078	53649.3	53677.5	53688.7
Mn 257.610	721.098	722.533	721.562
Mo 202.032	6.0028	4.9318	5.3872
Na 330.237	16516.6	16933.7	16588.0
Ni 231.604	29.5706	31.1050	30.9359
Pb 220.353	1360.81	1371.83	1368.59
Sb 206.834	8.3977	12.0828	15.5816
Se 196.026	-0.6219	-12.0885u	4.1004
Sn 189.925	185.547	181.211	181.257
Sr 216.596	332.687	331.958	331.638
Ti 334.941	3531.00	3539.42	3533.30
Tl 190.794	-2.1412u	-1.8128u	-1.7425u
V 292.401	32.7150	33.2517	32.6003
Zn 206.200	32900.8x	32953.6x	32911.1x

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.6541b	ppb	0.2146	32.8	30.5517
Al 308.215	74157.2b	ppb	107.351	0.1	537952
As 188.980	2.0360b	ppb	1.8875	92.7	-6.9171
B 249.678	91.7261b	ppb	0.5719	0.6	1542.10
Ba 389.178	951.110b	ppb	0.6615	0.1	24590.3
Be 313.042	0.5573b	ppb	0.0024	0.4	1096.42
Ca 370.602	326763b	ppb	465.3	0.1	991849
Cd 226.502	19.7749b	ppb	0.1129	0.6	1428.38
Co 228.615	820.113b	ppb	0.9414	0.1	11576.7
Cr 267.716	376.566b	ppb	0.1926	0.1	22540.0
Cu 324.754	69.0231b	ppb	1.3039	1.9	4462.17
Fe 271.441	70804.1b	ppb	88.8317	0.1	127131
K 766.491	15110.8b	ppb	15.9140	0.1	531656
Mg 279.078	53671.9b	ppb	20.3257	0.0	153656
Mn 257.610	721.731b	ppb	0.7324	0.1	192942
Mo 202.032	5.4406b	ppb	0.5375	9.9	50.2615
Na 330.237	16679.4b	ppb	223.093	1.3	407.586
Ni 231.604	30.5372b	ppb	0.8413	2.8	113.225
Pb 220.353	1367.08b	ppb	5.6631	0.4	2791.69
Sb 206.834	12.0207b	ppb	3.5924	29.9	32.5468
Se 196.026	-2.8700b	ppb	8.3253	290.1	-1.8266
Sn 189.925	182.672b	ppb	2.4902	1.4	192.826
Sr 216.596	332.094b	ppb	0.5380	0.2	5570.31
Ti 334.941	3534.57b	ppb	4.3555	0.1	1097158
Tl 190.794	-1.8988b	ppb	0.2128	11.2	-15.7053
V 292.401	32.8557b	ppb	0.3477	1.1	1000.81
Zn 206.200	32921.8xb	ppb	28.0147	791.1	56332.5

680-92706-a-10-a (Samp) **8/2/2013, 4:22:14 PM** **Rack 1, Tube 29**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.0749u	0.1889	0.2076
Al 308.215	102438	102320	102281
As 188.980	25.3104	26.9550	26.0346
B 249.678	73.4295	73.2013	73.7492
Ba 389.178	1243.37	1241.23	1239.60
Be 313.042	1.6182	1.6007	1.6147
Ca 370.602	348435	346450	345131
Cd 226.502	38.2003	38.4180	38.5732
Co 228.615	398.680	392.976	396.187
Cr 267.716	131.001	130.590	130.315
Cu 324.754	350.087	347.987	349.786
Fe 271.441	159128	158769	159078
K 766.491	13689.3	13679.1	13633.8
Mg 279.078	50891.3	50926.7	50904.2
Mn 257.610	1118.91	1116.26	1115.16
Mo 202.032	9.4575	9.0654	9.2563
Na 330.237	-5737.98u	-5219.34u	-5079.09u
Ni 231.604	86.7326	88.0509	85.9124
Pb 220.353	1489.09	1482.89	1478.26
Sb 206.834	24.7714	23.6453	22.4073
Se 196.026	-4.2136u	2.2949	-12.3399u
Sn 189.925	277.917	276.406	280.111
Sr 216.596	347.736	347.410	348.781
Ti 334.941	2623.52	2599.74	2621.44
Tl 190.794	-7.3370u	-5.1962u	-6.5773u
V 292.401	74.4921	74.6613	74.2407
Zn 206.200	143733x	143496x	143563x

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1571b	ppb	0.0718	45.7	-5.7176
Al 308.215	102346b	ppb	82.1067	0.1	742375
As 188.980	26.1000b	ppb	0.8242	3.2	13.4678
B 249.678	73.4600b	ppb	0.2752	0.4	1014.68
Ba 389.178	1241.40b	ppb	1.8921	0.2	32143.6
Be 313.042	1.6112b	ppb	0.0093	0.6	3208.57
Ca 370.602	346672b	ppb	1663	0.5	1045319
Cd 226.502	38.3972b	ppb	0.1873	0.5	2844.45
Co 228.615	395.947b	ppb	2.8597	0.7	5614.14
Cr 267.716	130.635b	ppb	0.3451	0.3	7884.65
Cu 324.754	349.287b	ppb	1.1357	0.3	22182.1
Fe 271.441	158992b	ppb	194.171	0.1	285250
K 766.491	13667.4b	ppb	29.5429	0.2	480896
Mg 279.078	50907.4b	ppb	17.8970	0.0	145743
Mn 257.610	1116.77b	ppb	1.9268	0.2	298346
Mo 202.032	9.2597b	ppb	0.1960	2.1	76.9531
Na 330.237	-5345.47b	ppb	347.079	6.5	-2543.83
Ni 231.604	86.8986b	ppb	1.0789	1.2	332.575
Pb 220.353	1483.41b	ppb	5.4320	0.4	3035.37
Sb 206.834	23.6080b	ppb	1.1825	5.0	50.9527
Se 196.026	-4.7529b	ppb	7.3323	154.3	-2.4337
Sn 189.925	278.144b	ppb	1.8630	0.7	297.903
Sr 216.596	347.976b	ppb	0.7163	0.2	5948.92
Ti 334.941	2614.90b	ppb	13.1685	0.5	811748
Tl 190.794	-6.3702b	ppb	1.0853	17.0	-32.1850
V 292.401	74.4647b	ppb	0.2116	0.3	2229.89
Zn 206.200	143597xb	ppb	121.050	7921	345713

640-44513-a-3-a (Samp) **8/2/2013, 4:26:49 PM** **Rack 1, Tube 30**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	5.3066	5.1600	4.9523
Al 308.215	5735.50	5717.79	5750.14
As 188.980	5.6472	6.0591	2.4038
B 249.678	57.3890	57.6910	57.4076
Ba 389.178	452.335	451.004	453.979
Be 313.042	0.0991	0.0802	0.0886
Ca 370.602	22427	22379	22530
Cd 226.502	1.1187	1.3179	1.2254
Co 228.615	1.9434	1.0347	1.1784
Cr 267.716	18.7650	18.6849	18.8442
Cu 324.754	933.936	924.990	939.043
Fe 271.441	6049.11	6026.16	6054.50
K 766.491	1125.94	1125.07	1127.64
Mg 279.078	3134.90	3115.59	3131.01
Mn 257.610	132.839	132.084	132.888
Mo 202.032	17.3295	18.0507	16.7938
Na 330.237	472.404	519.809	244.525u
Ni 231.604	17.9564	18.3714	17.9052
Pb 220.353	18.0710	20.3410	20.7195
Sb 206.834	0.9673	2.8030	0.0396
Se 196.026	5.2516	15.9277	7.0114
Sn 189.925	63.2479	61.4795	63.8150
Sr 216.596	117.536	117.027	117.865
Ti 334.941	32.5029	31.8974	32.2571
Tl 190.794	0.3327u	1.1965	-1.9258u
V 292.401	10.6066	10.3309	10.5079
Zn 206.200	890.726	881.250	887.760

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	5.1396	ppb	0.1780	3.5	374.326
Al 308.215	5734.48	ppb	16.2005	0.3	41841.2
As 188.980	4.7034	ppb	2.0021	42.6	-4.6377
B 249.678	57.4959	ppb	0.1693	0.3	1106.03
Ba 389.178	452.439	ppb	1.4901	0.3	11589.7
Be 313.042	0.0893	ppb	0.0095	10.6	50.8719
Ca 370.602	22445	ppb	76.85	0.3	67928
Cd 226.502	1.2207	ppb	0.0997	8.2	114.975
Co 228.615	1.3855	ppb	0.4885	35.3	11.3020
Cr 267.716	18.7647	ppb	0.0796	0.4	1155.06
Cu 324.754	932.656	ppb	7.1131	0.8	58942.8
Fe 271.441	6043.26	ppb	15.0502	0.2	10860.7
K 766.491	1126.22	ppb	1.3087	0.1	39859.7
Mg 279.078	3127.17	ppb	10.2163	0.3	8983.86
Mn 257.610	132.604	ppb	0.4507	0.3	35442.0
Mo 202.032	17.3913	ppb	0.6307	3.6	153.708
Na 330.237	412.246	ppb	147.172	35.7	57.4592
Ni 231.604	18.0777	ppb	0.2557	1.4	66.1274
Pb 220.353	19.7105	ppb	1.4324	7.3	58.4024
Sb 206.834	1.2700	ppb	1.4063	110.7	7.4519
Se 196.026	9.3969	ppb	5.7239	60.9	4.6706
Sn 189.925	62.8475	ppb	1.2181	1.9	60.7690
Sr 216.596	117.476	ppb	0.4223	0.4	1937.62
Ti 334.941	32.2191	ppb	0.3045	0.9	9972.72
Tl 190.794	-0.1322	ppb	1.6122	1219.5	-10.3217
V 292.401	10.4818	ppb	0.1397	1.3	297.599
Zn 206.200	886.579	ppb	4.8473	0.5	1517.31

X (Samp) **8/2/2013, 4:31:24 PM** **Rack 1, Tube 31**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	0.1490	-0.4114u	-0.0646u
Al 308.215	1.5179	3.0654	0.9319
As 188.980	-1.8486u	-1.2838u	-3.9673u
B 249.678	-0.5596u	-0.1649u	-0.7490u
Ba 389.178	0.2604	-0.3824u	0.4076
Be 313.042	-0.0097u	-0.0147u	-0.0204u
Ca 370.602	3.945	3.148	2.958
Cd 226.502	-0.1053u	-0.0744u	0.1335
Co 228.615	-0.1930u	0.1642	0.1729
Cr 267.716	0.1454	0.2163	0.1420
Cu 324.754	-0.1492u	0.1002	0.3364
Fe 271.441	-1.5215u	-3.3308u	-1.3720u
K 766.491	-1.3351u	-1.1919u	-0.4424u
Mg 279.078	-2.9718u	-2.2955u	1.1107
Mn 257.610	-0.0175u	-0.0132u	0.0480
Mo 202.032	-0.2611u	-0.2230u	0.0714
Na 330.237	-70.0155u	-28.3119u	-121.790u
Ni 231.604	0.4057	0.7531	-0.5754u
Pb 220.353	-1.0301u	-0.4158u	0.7635
Sb 206.834	2.4147	0.6705	-2.4697u
Se 196.026	-7.8266u	0.7363	3.7395
Sn 189.925	3.8223	-0.9806u	0.6876
Sr 216.596	-0.2306u	-0.1069u	-0.0753u
Ti 334.941	0.0069	-0.0178u	0.0625
Tl 190.794	-0.3923u	0.2526	-1.3613u
V 292.401	0.4687	0.0799	0.2384
Zn 206.200	1.4212	2.3140	1.5350

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1090	ppb	0.2828	259.4	-13.5125
Al 308.215	1.8384	ppb	1.1023	60.0	272.784
As 188.980	-2.3666	ppb	1.4147	59.8	-10.8594
B 249.678	-0.4912	ppb	0.2980	60.7	118.009
Ba 389.178	0.0952	ppb	0.4201	441.2	3.0403
Be 313.042	-0.0150	ppb	0.0054	35.8	-161.529
Ca 370.602	3.350	ppb	0.5236	15.6	4.448
Cd 226.502	-0.0154	ppb	0.1299	844.5	20.0717
Co 228.615	0.0480	ppb	0.2088	434.7	-7.9927
Cr 267.716	0.1679	ppb	0.0420	25.0	42.6760
Cu 324.754	0.0958	ppb	0.2429	253.5	85.9607
Fe 271.441	-2.0748	ppb	1.0903	52.6	17.2065
K 766.491	-0.9898	ppb	0.4794	48.4	219.169
Mg 279.078	-1.3856	ppb	2.1881	157.9	31.3563
Mn 257.610	0.0057	ppb	0.0366	639.4	98.1009
Mo 202.032	-0.1376	ppb	0.1819	132.3	7.8951
Na 330.237	-73.3725	ppb	46.8295	63.8	46.9208
Ni 231.604	0.1945	ppb	0.6890	354.3	-2.3468
Pb 220.353	-0.2275	ppb	0.9115	400.7	17.6030
Sb 206.834	0.2052	ppb	2.4752	1206.5	5.5822
Se 196.026	-1.1170	ppb	6.0016	537.3	-1.3181
Sn 189.925	1.1764	ppb	2.4385	207.3	-7.1211
Sr 216.596	-0.1376	ppb	0.0821	59.6	9.4962
Ti 334.941	0.0172	ppb	0.0412	239.4	-37.6012
Tl 190.794	-0.5003	ppb	0.8124	162.4	-10.2077
V 292.401	0.2624	ppb	0.1955	74.5	-1.0899
Zn 206.200	1.7567	ppb	0.4859	794.7	3.2895

CRI (Samp) **8/2/2013, 4:36:11 PM** **Rack 1, Tube 32**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	8.9058	9.0741	9.0537
Al 308.215	174.628	175.838	177.258
As 188.980	19.8289	23.2104	19.7193
B 249.678	86.3368	87.3342	86.8909
Ba 389.178	10.1410	9.4459	8.9212
Be 313.042	3.6322	3.6398	3.6471
Ca 370.602	459.9	457.4	460.0
Cd 226.502	4.4649	4.5802	4.5730
Co 228.615	9.5672	9.1065	8.8988
Cr 267.716	9.4192	9.5109	9.2451
Cu 324.754	18.7823	18.3840	19.4577
Fe 271.441	47.8168	44.1405	40.8344
K 766.491	898.818	902.097	904.437
Mg 279.078	453.243	458.444	459.543
Mn 257.610	9.2762	9.3150	9.2787
Mo 202.032	9.4031	9.1705	9.1177
Na 330.237	807.294	882.971	923.199
Ni 231.604	36.4021	37.1538	37.1319
Pb 220.353	6.7958	7.8050	7.3324
Sb 206.834	19.4458	20.4891	17.0095
Se 196.026	14.7640	16.4467	17.1093
Sn 189.925	46.9623	49.5510	45.6819
Sr 216.596	9.1394	9.3699	9.1150
Ti 334.941	8.9955	8.9821	8.9963
Tl 190.794	22.5341	21.6541	22.0903
V 292.401	9.3657	9.2275	9.3243
Zn 206.200	18.6728	19.7461	18.6070

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	9.0112	ppb	0.0918	1.0	668.221
Al 308.215	175.908	ppb	1.3165	0.7	1533.34
As 188.980	20.9195	ppb	1.9847	9.5	9.6624
B 249.678	86.8540	ppb	0.4997	0.6	1628.03
Ba 389.178	9.5027	ppb	0.6119	6.4	245.099
Be 313.042	3.6397	ppb	0.0074	0.2	7101.12
Ca 370.602	459.1	ppb	1.452	0.3	1394
Cd 226.502	4.5394	ppb	0.0645	1.4	274.241
Co 228.615	9.1908	ppb	0.3421	3.7	119.973
Cr 267.716	9.3917	ppb	0.1350	1.4	593.120
Cu 324.754	18.8747	ppb	0.5428	2.9	1271.33
Fe 271.441	44.2639	ppb	3.4928	7.9	101.659
K 766.491	901.784	ppb	2.8229	0.3	31967.0
Mg 279.078	457.077	ppb	3.3649	0.7	1343.55
Mn 257.610	9.2900	ppb	0.0217	0.2	2573.87
Mo 202.032	9.2304	ppb	0.1519	1.6	85.9976
Na 330.237	871.155	ppb	58.8493	6.8	98.0173
Ni 231.604	36.8959	ppb	0.4278	1.2	137.782
Pb 220.353	7.3110	ppb	0.5049	6.9	32.8646
Sb 206.834	18.9815	ppb	1.7857	9.4	35.8729
Se 196.026	16.1067	ppb	1.2091	7.5	8.3954
Sn 189.925	47.3984	ppb	1.9711	4.2	43.7534
Sr 216.596	9.2081	ppb	0.1407	1.5	160.853
Ti 334.941	8.9913	ppb	0.0080	0.1	2749.67
Tl 190.794	22.0928	ppb	0.4400	2.0	22.1300
V 292.401	9.3058	ppb	0.0709	0.8	264.415
Zn 206.200	19.0086	ppb	0.6295	3.3	33.7711

mb 680-287106/1-a (Samp) **8/2/2013, 4:49:56 PM** **Rack 2, Tube 3**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.1586	0.0830	-0.0177u
Al 308.215	4.4290	3.5607	2.5032
As 188.980	-1.8119u	0.4273	0.3344
B 249.678	3.6129	3.4785	3.1652
Ba 389.178	0.2373	0.3420	0.4901
Be 313.042	-0.0224u	-0.0207u	-0.0298u
Ca 370.602	-1.567u	5.363	-0.6535u
Cd 226.502	-0.1053u	0.0421	0.0208
Co 228.615	0.2854	0.1311	-0.1474u
Cr 267.716	0.0296	-0.1030u	-0.1688u
Cu 324.754	-0.3896u	0.3248	-0.4421u
Fe 271.441	0.9091	-1.1092u	0.8938
K 766.491	-1.0297u	-0.5627u	-1.2831u
Mg 279.078	-2.6393u	3.5495	-0.6130u
Mn 257.610	0.1664	0.2264	0.1917
Mo 202.032	-0.2138u	-0.4977u	-0.4960u
Na 330.237	257.136	121.517	-36.0360u
Ni 231.604	-1.1448u	-0.3046u	-0.8301u
Pb 220.353	-0.6107u	-0.4474u	-1.3522u
Sb 206.834	-0.8934u	1.2734	0.4976
Se 196.026	0.0447	-3.4189u	0.2270
Sn 189.925	-0.1072u	1.1065	0.7337
Sr 216.596	-0.1400u	-0.6299u	-0.0150u
Ti 334.941	0.0378	0.0326	0.0325
Tl 190.794	-1.5248u	-1.7213u	-3.4059u
V 292.401	0.0333	0.0534	0.0721
Zn 206.200	0.8882	1.6419	1.0927

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0746	ppb	0.0885	118.6	0.2230
Al 308.215	3.4976	ppb	0.9644	27.6	284.836
As 188.980	-0.3501	ppb	1.2668	361.9	-9.0820
B 249.678	3.4189	ppb	0.2297	6.7	185.601
Ba 389.178	0.3565	ppb	0.1270	35.6	9.7276
Be 313.042	-0.0243	ppb	0.0049	20.0	-180.061
Ca 370.602	1.047	ppb	3.765	359.5	-2.840
Cd 226.502	-0.0141	ppb	0.0797	563.7	20.1561
Co 228.615	0.0897	ppb	0.2193	244.5	-7.3997
Cr 267.716	-0.0808	ppb	0.1011	125.1	27.8418
Cu 324.754	-0.1690	ppb	0.4284	253.5	69.2444
Fe 271.441	0.2312	ppb	1.1609	502.1	21.3464
K 766.491	-0.9585	ppb	0.3655	38.1	220.270
Mg 279.078	0.0990	ppb	3.1553	3185.5	35.6020
Mn 257.610	0.1948	ppb	0.0301	15.5	148.454
Mo 202.032	-0.4025	ppb	0.1634	40.6	5.6858
Na 330.237	114.206	ppb	146.723	128.5	57.1447
Ni 231.604	-0.7598	ppb	0.4245	55.9	-5.9911
Pb 220.353	-0.8034	ppb	0.4822	60.0	16.4360
Sb 206.834	0.2925	ppb	1.0978	375.3	5.7247
Se 196.026	-1.0491	ppb	2.0543	195.8	-1.2797
Sn 189.925	0.5777	ppb	0.6217	107.6	-7.7800
Sr 216.596	-0.2617	ppb	0.3250	124.2	7.4939
Ti 334.941	0.0343	ppb	0.0030	8.8	-32.3036
Tl 190.794	-2.2173	ppb	1.0340	46.6	-12.6633
V 292.401	0.0529	ppb	0.0194	36.7	-7.2223
Zn 206.200	1.2076	ppb	0.3898	32.3	2.3510

lcs 680-287106/2-a (Samp) **8/2/2013, 4:54:30 PM** **Rack 2, Tube 4**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	56.0087	54.7222	54.1800
Al 308.215	4876.15	4870.92	4868.67
As 188.980	110.329	107.693	107.000
B 249.678	200.410	200.078	200.142
Ba 389.178	105.911	105.375	105.018
Be 313.042	51.6479	51.5445	51.4958
Ca 370.602	5164	5159	5148
Cd 226.502	52.6512	52.6111	52.4251
Co 228.615	53.0058	53.3572	53.2146
Cr 267.716	107.310	106.824	106.892
Cu 324.754	107.033	107.643	106.856
Fe 271.441	5191.69	5186.50	5178.14
K 766.491	5230.72	5231.47	5220.11
Mg 279.078	5164.22	5145.61	5140.15
Mn 257.610	538.492	537.450	536.815
Mo 202.032	105.605	105.231	105.049
Na 330.237	5059.10	4608.51	4991.17
Ni 231.604	105.114	105.098	103.907
Pb 220.353	51.1177	55.0800	53.9829
Sb 206.834	52.4229	52.2861	54.7759
Se 196.026	105.479	108.282	97.9136
Sn 189.925	210.613	210.429	211.576
Sr 216.596	107.760	107.399	107.083
Ti 334.941	101.097	100.950	100.983
Tl 190.794	41.3076	41.4585	42.7723
V 292.401	105.062	104.207	104.383
Zn 206.200	105.789	107.648	106.402

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	54.9703	ppb	0.9392	1.7	4103.77
Al 308.215	4871.91	ppb	3.8394	0.1	35570.5
As 188.980	108.341	ppb	1.7562	1.6	86.6708
B 249.678	200.210	ppb	0.1758	0.1	3575.51
Ba 389.178	105.435	ppb	0.4496	0.4	2720.82
Be 313.042	51.5627	ppb	0.0777	0.2	102341
Ca 370.602	5157	ppb	7.961	0.2	15375
Cd 226.502	52.5625	ppb	0.1207	0.2	2974.12
Co 228.615	53.1925	ppb	0.1768	0.3	735.915
Cr 267.716	107.009	ppb	0.2633	0.2	6422.15
Cu 324.754	107.177	ppb	0.4127	0.4	6848.19
Fe 271.441	5185.44	ppb	6.8364	0.1	9330.08
K 766.491	5227.44	ppb	6.3531	0.1	184087
Mg 279.078	5149.99	ppb	12.6161	0.2	14766.0
Mn 257.610	537.586	ppb	0.8463	0.2	143257
Mo 202.032	105.295	ppb	0.2836	0.3	886.631
Na 330.237	4886.26	ppb	242.921	5.0	313.229
Ni 231.604	104.706	ppb	0.6927	0.7	396.759
Pb 220.353	53.3935	ppb	2.0459	3.8	126.537
Sb 206.834	53.1616	ppb	1.3997	2.6	91.2909
Se 196.026	103.892	ppb	5.3635	5.2	58.0573
Sn 189.925	210.873	ppb	0.6158	0.3	223.684
Sr 216.596	107.414	ppb	0.3391	0.3	1765.81
Ti 334.941	101.010	ppb	0.0771	0.1	31330.9
Tl 190.794	41.8461	ppb	0.8056	1.9	49.7463
V 292.401	104.551	ppb	0.4514	0.4	3061.12
Zn 206.200	106.613	ppb	0.9471	797.9	182.321

640-44492-s-1-a (Samp) **8/2/2013, 4:59:05 PM** **Rack 2, Tube 5**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	-0.1243u	-0.2021u	-0.0891u
Al 308.215	249.086	248.657	247.530
As 188.980	-1.7578u	-2.3029u	-4.0552u
B 249.678	6.9020	6.3372	6.7657
Ba 389.178	23.1016	23.1954	22.9060
Be 313.042	-0.0192u	-0.0117u	-0.0170u
Ca 370.602	11763	11683	11593
Cd 226.502	0.9163	0.7180	0.7388
Co 228.615	-0.0663u	0.0818	-0.0675u
Cr 267.716	1.4100	1.1775	1.2832
Cu 324.754	12.2615	12.2256	13.0383
Fe 271.441	256.953	251.617	254.538
K 766.491	3507.45	3494.64	3491.43
Mg 279.078	1345.70	1336.05	1341.93
Mn 257.610	37.4410	37.3662	37.2976
Mo 202.032	0.0703	0.2652	0.1778
Na 330.237	543.998	521.226	582.131
Ni 231.604	0.9008	1.2369	1.8045
Pb 220.353	7.6526	4.3561	3.7512
Sb 206.834	0.5049	2.3878	0.1940
Se 196.026	6.1789	0.4632	3.0875
Sn 189.925	-0.2351u	-1.9038u	2.5387
Sr 216.596	21.8676	22.0107	21.8060
Ti 334.941	9.1871	8.8897	8.9181
Tl 190.794	-2.2589u	0.5774	-4.3822u
V 292.401	1.3002	1.0966	1.0285
Zn 206.200	331.242	331.015	331.878

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1385	ppb	0.0578	41.8	-16.5758
Al 308.215	248.425	ppb	0.8035	0.3	2060.71
As 188.980	-2.7053	ppb	1.2004	44.4	-11.1580
B 249.678	6.6683	ppb	0.2947	4.4	241.194
Ba 389.178	23.0676	ppb	0.1477	0.6	594.811
Be 313.042	-0.0160	ppb	0.0038	23.9	-159.548
Ca 370.602	11679	ppb	84.79	0.7	35560
Cd 226.502	0.7910	ppb	0.1090	13.8	66.1403
Co 228.615	-0.0174	ppb	0.0859	494.5	-8.6523
Cr 267.716	1.2903	ppb	0.1164	9.0	109.943
Cu 324.754	12.5085	ppb	0.4592	3.7	869.417
Fe 271.441	254.369	ppb	2.6721	1.1	477.178
K 766.491	3497.84	ppb	8.4768	0.2	123263
Mg 279.078	1341.23	ppb	4.8650	0.4	3874.06
Mn 257.610	37.3683	ppb	0.0718	0.2	10056.9
Mo 202.032	0.1711	ppb	0.0976	57.0	10.4526
Na 330.237	549.119	ppb	30.7738	5.6	75.5242
Ni 231.604	1.3141	ppb	0.4568	34.8	1.9370
Pb 220.353	5.2533	ppb	2.0998	40.0	28.7347
Sb 206.834	1.0289	ppb	1.1871	115.4	6.9305
Se 196.026	3.2432	ppb	2.8610	88.2	1.1517
Sn 189.925	0.1333	ppb	2.2440	1683.6	-8.2624
Sr 216.596	21.8948	ppb	0.1050	0.5	370.789
Ti 334.941	8.9983	ppb	0.1641	1.8	2756.34
Tl 190.794	-2.0212	ppb	2.4884	123.1	-12.4304
V 292.401	1.1417	ppb	0.1414	12.4	24.9876
Zn 206.200	331.378	ppb	0.4472	798.1	567.307

640-44512-d-1-a (Samp) **8/2/2013, 5:03:40 PM** **Rack 2, Tube 6**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.3855u	0.1597u	0.3686u
Al 308.215	94.3946	93.6563	95.4804
As 188.980	-3.6364u	-7.3182u	0.2881
B 249.678	54.1853	54.0110	54.3072
Ba 389.178	47.2562	46.8760	47.2063
Be 313.042	-0.0269u	-0.0241u	-0.0208u
Ca 370.602	13930	13905	13908
Cd 226.502	-0.0770u	-0.0366	-0.0158
Co 228.615	0.7752	1.2401	1.1547
Cr 267.716	0.2375	0.2286	0.0576
Cu 324.754	0.7371	1.1023	1.1523
Fe 271.441	1135.38	1137.25	1131.70
K 766.491	2947.31	2953.74	2948.28
Mg 279.078	9273.57	9272.80	9258.61
Mn 257.610	66.6040	66.7544	66.6531
Mo 202.032	-0.2806u	0.0310	-0.0111u
Na 330.237	117037x	117342x	117443x
Ni 231.604	1.6319	1.4627	1.9483
Pb 220.353	-1.3549u	0.2509	-1.4588u
Sb 206.834	1.6054	0.5104	3.2414
Se 196.026	6.4991	-0.2502u	1.9241
Sn 189.925	-2.8251u	-1.7282u	-0.5515u
Sr 216.596	824.602	824.886	823.501
Ti 334.941	0.9454	0.9576	0.9061
Tl 190.794	0.8092	-3.0857u	-4.9652u
V 292.401	0.3147	0.5858	0.6193
Zn 206.200	2.0516	3.1411	2.0182

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.3046b	ppb	0.1258	41.3	-19.2989
Al 308.215	94.5104b	ppb	0.9176	1.0	944.684
As 188.980	-3.5555b	ppb	3.8038	107.0	-11.9217
B 249.678	54.1678b	ppb	0.1488	0.3	1060.30
Ba 389.178	47.1128b	ppb	0.2066	0.4	1234.10
Be 313.042	-0.0240b	ppb	0.0031	12.7	-189.368
Ca 370.602	13914b	ppb	13.77	0.1	42297
Cd 226.502	-0.0431b	ppb	0.0311	72.2	22.5861
Co 228.615	1.0567b	ppb	0.2475	23.4	6.2137
Cr 267.716	0.1746b	ppb	0.1014	58.1	46.3936
Cu 324.754	0.9973b	ppb	0.2267	22.7	143.272
Fe 271.441	1134.78b	ppb	2.8211	0.2	2056.45
K 766.491	2949.78b	ppb	3.4704	0.1	103989
Mg 279.078	9268.33b	ppb	8.4230	0.1	26567.0
Mn 257.610	66.6705b	ppb	0.0767	0.1	17933.4
Mo 202.032	-0.0869b	ppb	0.1690	194.5	8.2514
Na 330.237	117274xb	ppb	211.361	0.2	6434.09
Ni 231.604	1.6810b	ppb	0.2465	14.7	3.3610
Pb 220.353	-0.8543b	ppb	0.9585	112.2	16.4444
Sb 206.834	1.7857b	ppb	1.3744	77.0	8.1727
Se 196.026	2.7243b	ppb	3.4451	126.5	0.8709
Sn 189.925	-1.7016b	ppb	1.1371	66.8	-10.2252
Sr 216.596	824.330b	ppb	0.7316	0.1	13453.7
Ti 334.941	0.9364b	ppb	0.0269	2.9	284.139
Tl 190.794	-2.4139b	ppb	2.9452	122.0	-13.0886
V 292.401	0.5066b	ppb	0.1670	33.0	5.2646
Zn 206.200	2.4036b	ppb	0.6289	26.2	4.4096

680-92761-b-1-a (Samp) **8/2/2013, 5:08:15 PM** **Rack 2, Tube 7**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.4451	-0.0073u	0.1053
Al 308.215	276.963	282.184	280.221
As 188.980	-0.7537u	-0.7439u	-1.5721u
B 249.678	7.5047	6.8108	7.2468
Ba 389.178	17.5095	17.7361	18.0701
Be 313.042	0.0171	0.0180	0.0102
Ca 370.602	976.1	990.8	982.8
Cd 226.502	0.0270	0.0225	-0.0759u
Co 228.615	0.5800	0.8898	0.5820
Cr 267.716	0.3315	0.3223	0.3980
Cu 324.754	0.7887	0.9784	0.6533
Fe 271.441	507.211	514.763	520.474
K 766.491	867.402	883.110	875.965
Mg 279.078	777.289	790.335	791.763
Mn 257.610	47.8154	48.6318	48.4414
Mo 202.032	-0.3746u	0.2289	-0.2386u
Na 330.237	1706.36	1866.35	1905.92
Ni 231.604	0.7095	1.3685	1.9721
Pb 220.353	-0.7119u	-0.5839u	-0.0420u
Sb 206.834	0.4469	1.1394	2.0521
Se 196.026	5.6743	3.1708	2.3891
Sn 189.925	0.5828	0.8401	-0.6109u
Sr 216.596	9.1240	9.1791	8.9553
Ti 334.941	1.0728	1.0854	1.1344
Tl 190.794	-0.1800u	1.2243	-3.9467u
V 292.401	0.9773	0.9107	0.9085
Zn 206.200	4.9035	6.4574	6.8985

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1810	ppb	0.2355	130.1	7.9776
Al 308.215	279.789	ppb	2.6375	0.9	2288.14
As 188.980	-1.0232	ppb	0.4754	46.5	-9.6787
B 249.678	7.1874	ppb	0.3507	4.9	249.524
Ba 389.178	17.7719	ppb	0.2820	1.6	458.187
Be 313.042	0.0151	ppb	0.0043	28.4	-101.692
Ca 370.602	983.2	ppb	7.379	0.8	2952
Cd 226.502	-0.0088	ppb	0.0582	661.0	22.6600
Co 228.615	0.6839	ppb	0.1783	26.1	0.9655
Cr 267.716	0.3506	ppb	0.0413	11.8	54.0275
Cu 324.754	0.8068	ppb	0.1633	20.2	131.017
Fe 271.441	514.150	ppb	6.6530	1.3	943.220
K 766.491	875.492	ppb	7.8648	0.9	31042.4
Mg 279.078	786.462	ppb	7.9760	1.0	2285.73
Mn 257.610	48.2962	ppb	0.4271	0.9	12961.2
Mo 202.032	-0.1281	ppb	0.3166	247.2	7.9428
Na 330.237	1826.21	ppb	105.661	5.8	150.087
Ni 231.604	1.3500	ppb	0.6315	46.8	2.0797
Pb 220.353	-0.4459	ppb	0.3556	79.7	17.2101
Sb 206.834	1.2128	ppb	0.8051	66.4	7.2289
Se 196.026	3.7448	ppb	1.7162	45.8	1.4386
Sn 189.925	0.2707	ppb	0.7742	286.0	-8.1166
Sr 216.596	9.0861	ppb	0.1166	1.3	160.677
Ti 334.941	1.0975	ppb	0.0325	3.0	301.552
Tl 190.794	-0.9675	ppb	2.6740	276.4	-10.9522
V 292.401	0.9322	ppb	0.0391	4.2	18.7301
Zn 206.200	6.0864	ppb	1.0479	800.2	10.7034

680-92761-b-1-a SD^5 (Samp) **8/2/2013, 5:12:50 PM** **Rack 2, Tube 8**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.0792	0.1311	-0.0817u
Al 308.215	57.8425	57.5898	58.7439
As 188.980	-3.2329u	-5.0681u	0.1222
B 249.678	1.2572	0.4696	0.5914
Ba 389.178	3.3875	4.1136	3.3913
Be 313.042	-0.0197u	-0.0184u	-0.0283u
Ca 370.602	210.6	206.9	209.0
Cd 226.502	-0.1647u	-0.0505u	-0.1509u
Co 228.615	0.6445	0.0329	-0.1116u
Cr 267.716	-0.0334u	-0.0838u	0.0584
Cu 324.754	0.1541	-0.0847u	0.3402
Fe 271.441	102.984	106.987	99.6360
K 766.491	172.445	174.043	174.317
Mg 279.078	154.871	161.783	157.122
Mn 257.610	10.1763	10.2517	10.2765
Mo 202.032	-0.0635u	-0.2525u	0.3068
Na 330.237	416.385	427.747	342.126
Ni 231.604	-0.3440u	-0.7753u	-0.8442u
Pb 220.353	0.8288	-0.0502u	-2.0253u
Sb 206.834	-1.3301u	2.6242	3.2618
Se 196.026	-2.3898u	-2.1754u	3.0166
Sn 189.925	1.6432	-0.1413u	-1.1818u
Sr 216.596	1.9004	1.7185	1.4855
Ti 334.941	0.2198	0.2312	0.2066
Tl 190.794	-0.6625u	-4.9819u	-2.8024u
V 292.401	0.2704	0.4949	0.2461
Zn 206.200	0.4601	1.3577	2.5339

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0429	ppb	0.1109	258.6	-2.1821
Al 308.215	58.0587	ppb	0.6067	1.0	680.445
As 188.980	-2.7262	ppb	2.6320	96.5	-11.1771
B 249.678	0.7727	ppb	0.4240	54.9	139.610
Ba 389.178	3.6308	ppb	0.4181	11.5	94.0828
Be 313.042	-0.0221	ppb	0.0054	24.5	-175.736
Ca 370.602	208.8	ppb	1.895	0.9	622.9
Cd 226.502	-0.1220	ppb	0.0623	51.1	14.5721
Co 228.615	0.1886	ppb	0.4014	212.8	-6.0181
Cr 267.716	-0.0196	ppb	0.0721	367.6	31.5799
Cu 324.754	0.1366	ppb	0.2130	156.0	88.5741
Fe 271.441	103.202	ppb	3.6805	3.6	206.055
K 766.491	173.602	ppb	1.0109	0.6	6359.03
Mg 279.078	157.925	ppb	3.5253	2.2	487.201
Mn 257.610	10.2348	ppb	0.0522	0.5	2822.72
Mo 202.032	-0.0030	ppb	0.2845	9327.4	9.0106
Na 330.237	395.419	ppb	46.5020	11.8	72.4115
Ni 231.604	-0.6545	ppb	0.2711	41.4	-5.5862
Pb 220.353	-0.4156	ppb	1.4618	351.8	17.2316
Sb 206.834	1.5186	ppb	2.4876	163.8	7.6992
Se 196.026	-0.5162	ppb	3.0614	593.1	-0.9761
Sn 189.925	0.1067	ppb	1.4287	1338.6	-8.2981
Sr 216.596	1.7015	ppb	0.2080	12.2	39.6608
Ti 334.941	0.2192	ppb	0.0123	5.6	25.8705
Tl 190.794	-2.8156	ppb	2.1597	76.7	-13.5345
V 292.401	0.3371	ppb	0.1372	40.7	1.1127
Zn 206.200	1.4506	ppb	1.0400	891.7	2.7677

680-92761-b-1-a PDS (Samp) **8/2/2013, 5:17:25 PM** **Rack 2, Tube 9**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	40.4391	40.7940	40.9993
Al 308.215	2138.34	2158.89	2157.87
As 188.980	193.544	204.977	195.970
B 249.678	470.655	475.720	474.590
Ba 389.178	219.294	222.270	222.152
Be 313.042	49.6080	50.0294	50.0227
Ca 370.602	2826	2850	2831
Cd 226.502	50.3195	50.7093	50.5647
Co 228.615	202.282	202.094	205.274
Cr 267.716	203.543	205.279	205.427
Cu 324.754	205.199	209.695	208.758
Fe 271.441	2481.74	2501.16	2502.64
K 766.491	2882.12	2907.00	2901.34
Mg 279.078	2780.59	2798.95	2802.76
Mn 257.610	256.408	258.356	257.920
Mo 202.032	202.839	205.136	204.758
Na 330.237	3686.54	3877.81	3531.47
Ni 231.604	200.830	203.132	203.893
Pb 220.353	199.471	200.328	203.382
Sb 206.834	191.469	193.334	195.392
Se 196.026	193.430	198.894	196.319
Sn 189.925	201.289	204.495	206.283
Sr 216.596	211.735	214.152	213.837
Ti 334.941	198.678	200.781	200.435
Tl 190.794	198.224	198.878	196.760
V 292.401	201.226	203.451	202.847
Zn 206.200	206.850	212.147	208.531

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	40.7441	ppb	0.2834	0.7	3034.45
Al 308.215	2151.70	ppb	11.5802	0.5	15824.2
As 188.980	198.164	ppb	6.0234	3.0	165.799
B 249.678	473.655	ppb	2.6590	0.6	8309.60
Ba 389.178	221.239	ppb	1.6855	0.8	5672.12
Be 313.042	49.8867	ppb	0.2414	0.5	98989.1
Ca 370.602	2836	ppb	12.54	0.4	8553
Cd 226.502	50.5312	ppb	0.1970	0.4	2849.34
Co 228.615	203.217	ppb	1.7844	0.9	2836.50
Cr 267.716	204.750	ppb	1.0479	0.5	12252.3
Cu 324.754	207.884	ppb	2.3718	1.1	13205.1
Fe 271.441	2495.18	ppb	11.6637	0.5	4526.07
K 766.491	2896.82	ppb	13.0411	0.5	102126
Mg 279.078	2794.10	ppb	11.8532	0.4	8028.24
Mn 257.610	257.561	ppb	1.0222	0.4	68688.8
Mo 202.032	204.244	ppb	1.2314	0.6	1711.76
Na 330.237	3698.61	ppb	173.490	4.7	247.430
Ni 231.604	202.618	ppb	1.5948	0.8	770.123
Pb 220.353	201.060	ppb	2.0554	1.0	425.392
Sb 206.834	193.398	ppb	1.9625	1.0	316.744
Se 196.026	196.214	ppb	2.7332	1.4	110.019
Sn 189.925	204.023	ppb	2.5303	1.2	216.143
Sr 216.596	213.241	ppb	1.3138	0.6	3482.60
Ti 334.941	199.965	ppb	1.1275	0.6	62028.3
Tl 190.794	197.954	ppb	1.0844	0.5	274.055
V 292.401	202.508	ppb	1.1506	0.6	5937.62
Zn 206.200	209.176	ppb	2.7067	1.3	357.375

680-92761-b-1-b ms (Samp) **8/2/2013, 5:22:01 PM** **Rack 2, Tube 10**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	55.3324	54.9708	54.0850
Al 308.215	5284.02	5259.68	5252.16
As 188.980	115.743	110.255	116.981
B 249.678	209.191	208.611	208.304
Ba 389.178	126.041	125.458	125.589
Be 313.042	53.0655	52.8481	52.7276
Ca 370.602	6251	6229	6211
Cd 226.502	53.5381	53.6211	53.4434
Co 228.615	54.7335	54.6076	54.5041
Cr 267.716	110.056	109.456	109.683
Cu 324.754	109.523	111.812	109.979
Fe 271.441	5724.93	5707.09	5713.35
K 766.491	6231.68	6212.27	6203.35
Mg 279.078	6086.20	6065.68	6060.37
Mn 257.610	599.354	596.392	595.864
Mo 202.032	107.528	107.728	106.897
Na 330.237	6796.16	6904.11	6945.66
Ni 231.604	108.284	107.511	106.990
Pb 220.353	50.8110	53.6332	52.4837
Sb 206.834	55.2730	51.1244	53.2922
Se 196.026	102.714	109.421	110.927
Sn 189.925	216.955	216.479	214.761
Sr 216.596	119.184	119.181	117.976
Ti 334.941	104.523	103.962	104.001
Tl 190.794	41.6030	42.5511	43.0815
V 292.401	107.507	107.591	107.054
Zn 206.200	112.205	113.348	113.112

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	54.7961	ppb	0.6418	1.2	4090.48
Al 308.215	5265.29	ppb	16.6494	0.3	38422.4
As 188.980	114.326	ppb	3.5799	3.1	91.9439
B 249.678	208.702	ppb	0.4502	0.2	3721.07
Ba 389.178	125.696	ppb	0.3060	0.2	3242.49
Be 313.042	52.8804	ppb	0.1713	0.3	104960
Ca 370.602	6230	ppb	19.69	0.3	18608
Cd 226.502	53.5342	ppb	0.0889	0.2	3030.56
Co 228.615	54.6150	ppb	0.1149	0.2	755.874
Cr 267.716	109.732	ppb	0.3026	0.3	6585.14
Cu 324.754	110.438	ppb	1.2114	1.1	7054.23
Fe 271.441	5715.12	ppb	9.0494	0.2	10280.4
K 766.491	6215.77	ppb	14.4858	0.2	218844
Mg 279.078	6070.75	ppb	13.6438	0.2	17400.6
Mn 257.610	597.203	ppb	1.8815	0.3	159136
Mo 202.032	107.384	ppb	0.4340	0.4	904.018
Na 330.237	6881.98	ppb	77.1674	1.1	421.573
Ni 231.604	107.595	ppb	0.6510	0.6	407.803
Pb 220.353	52.3093	ppb	1.4192	2.7	124.384
Sb 206.834	53.2299	ppb	2.0750	3.9	91.4305
Se 196.026	107.688	ppb	4.3725	4.1	60.2165
Sn 189.925	216.065	ppb	1.1544	0.5	229.400
Sr 216.596	118.780	ppb	0.6965	0.6	1951.86
Ti 334.941	104.162	ppb	0.3129	0.3	32313.6
Tl 190.794	42.4119	ppb	0.7490	1.8	50.4735
V 292.401	107.384	ppb	0.2889	0.3	3144.43
Zn 206.200	112.888	ppb	0.6033	0.5	193.054

680-92761-b-1-c msd (Samp) **8/2/2013, 5:26:37 PM** **Rack 2, Tube 11**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	55.8359	55.0925	55.1320
Al 308.215	5302.69	5294.39	5266.99
As 188.980	113.508	111.712	117.357
B 249.678	209.297	208.140	208.879
Ba 389.178	126.578	126.862	125.627
Be 313.042	53.2907	53.2368	53.1100
Ca 370.602	6264	6261	6193
Cd 226.502	53.6895	53.6246	53.5393
Co 228.615	54.8726	54.7659	54.9121
Cr 267.716	110.470	110.625	110.656
Cu 324.754	111.776	112.426	111.053
Fe 271.441	5750.97	5744.53	5726.74
K 766.491	6299.05	6283.99	6254.35
Mg 279.078	6101.67	6096.67	6074.30
Mn 257.610	726.430	725.401	722.469
Mo 202.032	108.054	107.747	106.641
Na 330.237	6700.24	6860.89	6896.55
Ni 231.604	108.433	107.240	107.376
Pb 220.353	52.0106	55.3568	52.9467
Sb 206.834	55.0454	51.9340	54.8459
Se 196.026	106.963	110.604	104.999
Sn 189.925	214.724	215.041	214.039
Sr 216.596	118.914	118.835	118.574
Ti 334.941	105.089	105.191	104.823
Tl 190.794	41.5235	42.1384	43.5519
V 292.401	107.898	107.864	107.313
Zn 206.200	114.312	112.356	113.520

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	55.3535	ppb	0.4183	0.8	4132.75
Al 308.215	5288.02	ppb	18.6831	0.4	38587.2
As 188.980	114.192	ppb	2.8837	2.5	91.8258
B 249.678	208.772	ppb	0.5860	0.3	3722.23
Ba 389.178	126.356	ppb	0.6467	0.5	3259.45
Be 313.042	53.2125	ppb	0.0928	0.2	105620
Ca 370.602	6239	ppb	40.09	0.6	18638
Cd 226.502	53.6178	ppb	0.0754	0.1	3035.32
Co 228.615	54.8502	ppb	0.0756	0.1	759.191
Cr 267.716	110.584	ppb	0.0996	0.1	6636.69
Cu 324.754	111.752	ppb	0.6871	0.6	7137.13
Fe 271.441	5740.75	ppb	12.5501	0.2	10326.4
K 766.491	6279.13	ppb	22.7449	0.4	221072
Mg 279.078	6090.88	ppb	14.5726	0.2	17455.4
Mn 257.610	724.766	ppb	2.0552	0.3	193091
Mo 202.032	107.481	ppb	0.7436	0.7	904.820
Na 330.237	6819.23	ppb	104.577	1.5	418.137
Ni 231.604	107.683	ppb	0.6531	0.6	408.138
Pb 220.353	53.4380	ppb	1.7263	3.2	126.707
Sb 206.834	53.9418	ppb	1.7416	3.2	92.5927
Se 196.026	107.522	ppb	2.8440	2.6	60.1590
Sn 189.925	214.601	ppb	0.5119	0.2	227.789
Sr 216.596	118.774	ppb	0.1778	0.1	1951.80
Ti 334.941	105.034	ppb	0.1896	0.2	32584.4
Tl 190.794	42.4046	ppb	1.0401	2.5	50.3770
V 292.401	107.692	ppb	0.3287	0.3	3153.47
Zn 206.200	113.396	ppb	0.9841	0.9	193.919

680-92761-b-2-a (Samp) **8/2/2013, 5:31:13 PM** **Rack 2, Tube 12**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	-0.0563u	0.7115	0.0815
Al 308.215	219.457	221.142	219.391
As 188.980	-0.6479u	-4.6663u	-1.8760u
B 249.678	7.4094	6.8771	6.9581
Ba 389.178	18.7824	18.8298	18.5854
Be 313.042	0.0016	0.0037	0.0045
Ca 370.602	1126	1135	1123
Cd 226.502	-0.0510u	-0.0521u	0.0006
Co 228.615	0.6674	0.7298	0.7916
Cr 267.716	0.4913	0.4652	0.6591
Cu 324.754	0.2202	0.2884	0.7478
Fe 271.441	562.717	558.402	559.212
K 766.491	558.446	557.406	558.303
Mg 279.078	802.554	807.365	803.724
Mn 257.610	60.3268	60.3578	60.1158
Mo 202.032	0.1284	-0.0900u	0.1542
Na 330.237	2027.32	2216.40	2024.06
Ni 231.604	0.9915	0.6249	0.6787
Pb 220.353	-2.1845u	-2.7603u	-1.0064u
Sb 206.834	4.0185	2.1316	1.7562
Se 196.026	-5.0520u	1.4842	-5.2620u
Sn 189.925	0.1176	0.2507	3.7874
Sr 216.596	11.0422	10.8952	10.7123
Ti 334.941	0.8831	0.9083	0.8553
Tl 190.794	-3.6054u	-1.9590u	-3.0281u
V 292.401	0.8329	0.2516	0.5873
Zn 206.200	4.6695	5.3436	3.7922

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.2456	ppb	0.4094	166.7	12.7713
Al 308.215	219.996	ppb	0.9925	0.5	1854.65
As 188.980	-2.3968	ppb	2.0592	85.9	-10.8909
B 249.678	7.0815	ppb	0.2868	4.1	247.579
Ba 389.178	18.7325	ppb	0.1296	0.7	482.880
Be 313.042	0.0033	ppb	0.0015	45.4	-125.207
Ca 370.602	1128	ppb	6.176	0.5	3389
Cd 226.502	-0.0342	ppb	0.0301	88.1	21.4437
Co 228.615	0.7296	ppb	0.0621	8.5	1.5929
Cr 267.716	0.5385	ppb	0.1052	19.5	65.3341
Cu 324.754	0.4188	ppb	0.2870	68.5	106.560
Fe 271.441	560.110	ppb	2.2935	0.4	1025.66
K 766.491	558.052	ppb	0.5639	0.1	19879.0
Mg 279.078	804.548	ppb	2.5093	0.3	2337.27
Mn 257.610	60.2668	ppb	0.1317	0.2	16147.8
Mo 202.032	0.0642	ppb	0.1342	209.0	9.5443
Na 330.237	2089.26	ppb	110.115	5.3	164.413
Ni 231.604	0.7650	ppb	0.1980	25.9	-0.1529
Pb 220.353	-1.9837	ppb	0.8940	45.1	14.1006
Sb 206.834	2.6354	ppb	1.2124	46.0	9.5236
Se 196.026	-2.9433	ppb	3.8357	130.3	-2.3285
Sn 189.925	1.3852	ppb	2.0814	150.3	-6.8896
Sr 216.596	10.8832	ppb	0.1653	1.5	190.067
Ti 334.941	0.8822	ppb	0.0265	3.0	234.801
Tl 190.794	-2.8642	ppb	0.8353	29.2	-13.6772
V 292.401	0.5573	ppb	0.2918	52.4	7.5757
Zn 206.200	4.6018	ppb	0.7779	16.9	8.1627

680-92761-b-3-a (Samp) **8/2/2013, 5:44:58 PM** **Rack 2, Tube 15**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.0245	0.1168	0.1687
Al 308.215	415.454	411.960	415.275
As 188.980	-2.3801u	0.1248	-4.3062u
B 249.678	7.5872	7.3794	7.1328
Ba 389.178	20.0328	19.4254	20.1906
Be 313.042	0.0191	0.0230	0.0268
Ca 370.602	1018	1005	1010
Cd 226.502	-0.2589u	-0.0322	-0.1203u
Co 228.615	1.4037	1.3789	0.7375
Cr 267.716	0.6105	0.7504	0.5476
Cu 324.754	0.4643	0.3542	0.8290
Fe 271.441	812.439	814.182	817.982
K 766.491	431.933	432.116	433.465
Mg 279.078	564.457	562.770	566.050
Mn 257.610	51.3116	51.2047	51.5427
Mo 202.032	-0.2273u	-0.3111u	-0.5125u
Na 330.237	1638.27	1596.44	1675.82
Ni 231.604	0.5525	1.2159	-0.2054u
Pb 220.353	0.7494	0.4068	1.4534
Sb 206.834	1.8243	3.6228	4.0067
Se 196.026	3.6725	-0.5017u	2.1989
Sn 189.925	1.1698	0.5698	-1.8664u
Sr 216.596	9.8980	10.6259	10.5237
Ti 334.941	0.9341	0.9944	0.9823
Tl 190.794	1.6532	2.2760	-3.4124u
V 292.401	0.9668	1.0978	0.4040
Zn 206.200	5.3672	6.5842	4.4957

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1033	ppb	0.0730	70.7	2.1231
Al 308.215	414.230	ppb	1.9678	0.5	3263.00
As 188.980	-2.1872	ppb	2.2218	101.6	-10.7067
B 249.678	7.3664	ppb	0.2275	3.1	251.902
Ba 389.178	19.8829	ppb	0.4040	2.0	511.994
Be 313.042	0.0230	ppb	0.0039	16.9	-85.9677
Ca 370.602	1011	ppb	6.912	0.7	3013
Cd 226.502	-0.1371	ppb	0.1143	83.3	16.7777
Co 228.615	1.1733	ppb	0.3777	32.2	7.8364
Cr 267.716	0.6362	ppb	0.1038	16.3	71.1758
Cu 324.754	0.5492	ppb	0.2485	45.3	114.861
Fe 271.441	814.868	ppb	2.8341	0.3	1482.67
K 766.491	432.505	ppb	0.8365	0.2	15463.9
Mg 279.078	564.425	ppb	1.6401	0.3	1650.04
Mn 257.610	51.3530	ppb	0.1727	0.3	13773.7
Mo 202.032	-0.3503	ppb	0.1466	41.8	6.0725
Na 330.237	1636.85	ppb	39.7102	2.4	139.696
Ni 231.604	0.5210	ppb	0.7111	136.5	-1.0785
Pb 220.353	0.8699	ppb	0.5336	61.3	19.9014
Sb 206.834	3.1513	ppb	1.1651	37.0	10.3752
Se 196.026	1.7899	ppb	2.1170	118.3	0.3385
Sn 189.925	-0.0423	ppb	1.6079	3803.6	-8.4611
Sr 216.596	10.3492	ppb	0.3941	3.8	181.687
Ti 334.941	0.9702	ppb	0.0319	3.3	260.993
Tl 190.794	0.1723	ppb	3.1200	1811.1	-9.3496
V 292.401	0.8229	ppb	0.3686	44.8	15.5139
Zn 206.200	5.4824	ppb	1.0490	19.1	9.6721

680-92761-c-4-a (Samp) **8/2/2013, 5:49:33 PM** **Rack 2, Tube 16**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.3725	-0.0505u	-0.1278u
Al 308.215	565.610	567.020	575.060
As 188.980	-2.1316u	0.5599	-2.3529u
B 249.678	8.6246	8.5547	8.8565
Ba 389.178	19.1492	18.6923	19.7400
Be 313.042	0.0236	0.0332	0.0261
Ca 370.602	334.3	327.7	339.9
Cd 226.502	-0.0394u	-0.0700u	0.0469
Co 228.615	0.8774	1.1084	0.1583
Cr 267.716	0.4601	0.5068	0.4541
Cu 324.754	0.2536	-0.1719u	0.7165
Fe 271.441	506.086	500.465	501.729
K 766.491	520.893	524.248	526.673
Mg 279.078	417.590	417.932	423.276
Mn 257.610	15.8472	15.9848	16.1852
Mo 202.032	-0.0244u	-0.3148u	-0.5607u
Na 330.237	1284.52	1120.09	1456.52
Ni 231.604	0.6099	1.3069	-0.5388u
Pb 220.353	3.6426	-1.2824u	2.7361
Sb 206.834	-0.7235u	3.6406	-0.3086u
Se 196.026	5.3543	2.8634	-5.5211u
Sn 189.925	2.3595	-0.5681u	0.6658
Sr 216.596	5.0997	4.8940	5.3146
Ti 334.941	2.4783	2.4193	2.5210
Tl 190.794	-0.1205u	-3.2971u	-3.6216u
V 292.401	1.0559	1.1031	1.0861
Zn 206.200	3.5795	4.2181	3.7329

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0647	ppb	0.2693	416.0	-0.6740
Al 308.215	569.230	ppb	5.0978	0.9	4386.94
As 188.980	-1.3082	ppb	1.6216	124.0	-9.9255
B 249.678	8.6786	ppb	0.1580	1.8	275.340
Ba 389.178	19.1938	ppb	0.5252	2.7	493.464
Be 313.042	0.0276	ppb	0.0050	18.0	-76.9585
Ca 370.602	334.0	ppb	6.105	1.8	974.9
Cd 226.502	-0.0208	ppb	0.0606	291.2	21.9215
Co 228.615	0.7147	ppb	0.4955	69.3	1.4361
Cr 267.716	0.4737	ppb	0.0289	6.1	61.1911
Cu 324.754	0.2661	ppb	0.4444	167.0	96.8792
Fe 271.441	502.760	ppb	2.9486	0.6	922.796
K 766.491	523.938	ppb	2.9021	0.6	18679.3
Mg 279.078	419.599	ppb	3.1887	0.8	1236.07
Mn 257.610	16.0057	ppb	0.1700	1.1	4362.54
Mo 202.032	-0.3000	ppb	0.2685	89.5	6.5101
Na 330.237	1287.04	ppb	168.228	13.1	120.774
Ni 231.604	0.4594	ppb	0.9320	202.9	-1.3218
Pb 220.353	1.6988	ppb	2.6213	154.3	21.5413
Sb 206.834	0.8695	ppb	2.4088	277.0	6.6785
Se 196.026	0.8989	ppb	5.6977	633.9	-0.1751
Sn 189.925	0.8191	ppb	1.4698	179.5	-7.5136
Sr 216.596	5.1027	ppb	0.2103	4.1	95.6339
Ti 334.941	2.4729	ppb	0.0511	2.1	726.586
Tl 190.794	-2.3464	ppb	1.9345	82.4	-12.9010
V 292.401	1.0817	ppb	0.0239	2.2	23.1841
Zn 206.200	3.8435	ppb	0.3234	8.4	6.8648

680-92761-b-5-a (Samp) **8/2/2013, 5:54:07 PM** **Rack 2, Tube 17**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.0946	-0.1223u	-0.2625u
Al 308.215	444.429	452.628	439.129
As 188.980	-3.4768u	-4.3017u	2.3899
B 249.678	6.9756	7.6526	7.0498
Ba 389.178	27.3808	27.7059	26.5033
Be 313.042	0.0229	0.0223	0.0228
Ca 370.602	659.2	669.9	644.8
Cd 226.502	-0.1419u	0.0209	-0.1005u
Co 228.615	0.4408	0.9809	0.5311
Cr 267.716	0.3588	0.5156	0.4358
Cu 324.754	0.4087	-0.1194u	0.8687
Fe 271.441	641.383	657.055	639.544
K 766.491	317.555	322.508	315.813
Mg 279.078	414.577	418.807	408.073
Mn 257.610	25.8946	26.2205	25.5513
Mo 202.032	-0.5253u	-0.1322u	-0.2211u
Na 330.237	1571.57	1571.30	1549.99
Ni 231.604	2.0102	0.4310	0.9743
Pb 220.353	-2.3601u	-0.6408u	-0.5108u
Sb 206.834	3.8499	4.2420	1.2652
Se 196.026	-0.6585u	-1.1443u	2.1779
Sn 189.925	-0.2715u	0.5646	-1.0049u
Sr 216.596	8.7863	8.8638	8.6241
Ti 334.941	1.3049	1.3094	1.3293
Tl 190.794	-0.5094u	-0.4453u	0.3152
V 292.401	0.9771	0.4965	1.1157
Zn 206.200	5.3190	4.8757	7.6076

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0967	ppb	0.1799	186.0	-12.8613
Al 308.215	445.395	ppb	6.8009	1.5	3489.01
As 188.980	-1.7962	ppb	3.6487	203.1	-10.3593
B 249.678	7.2260	ppb	0.3713	5.1	249.879
Ba 389.178	27.1967	ppb	0.6221	2.3	698.332
Be 313.042	0.0226	ppb	0.0003	1.4	-86.7499
Ca 370.602	658.0	ppb	12.61	1.9	1951
Cd 226.502	-0.0738	ppb	0.0846	114.5	19.5803
Co 228.615	0.6510	ppb	0.2893	44.4	0.5225
Cr 267.716	0.4367	ppb	0.0784	17.9	59.0858
Cu 324.754	0.3860	ppb	0.4944	128.1	104.500
Fe 271.441	645.994	ppb	9.6229	1.5	1179.70
K 766.491	318.626	ppb	3.4735	1.1	11459.1
Mg 279.078	413.819	ppb	5.4070	1.3	1219.39
Mn 257.610	25.8888	ppb	0.3346	1.3	6993.63
Mo 202.032	-0.2928	ppb	0.2061	70.4	6.5615
Na 330.237	1564.29	ppb	12.3787	0.8	135.787
Ni 231.604	1.1385	ppb	0.8023	70.5	1.2762
Pb 220.353	-1.1705	ppb	1.0322	88.2	15.7426
Sb 206.834	3.1190	ppb	1.6174	51.9	10.3141
Se 196.026	0.1250	ppb	1.7943	1435.0	-0.6080
Sn 189.925	-0.2373	ppb	0.7853	331.0	-8.6760
Sr 216.596	8.7581	ppb	0.1223	1.4	155.470
Ti 334.941	1.3145	ppb	0.0130	1.0	367.072
Tl 190.794	-0.2132	ppb	0.4587	215.2	-9.8706
V 292.401	0.8631	ppb	0.3250	37.7	16.7192
Zn 206.200	5.9341	ppb	1.4661	24.7	10.4439

680-92761-b-6-a (Samp) **8/2/2013, 5:58:42 PM** **Rack 2, Tube 18**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	0.1830	0.2608	0.3673
Al 308.215	117.082	113.246	116.723
As 188.980	-7.7095u	-0.2371u	-0.5249u
B 249.678	6.1954	5.5933	5.9630
Ba 389.178	14.9023	15.0330	15.0222
Be 313.042	-0.0068u	-0.0137u	-0.0043u
Ca 370.602	1380	1393	1392
Cd 226.502	0.0277	-0.1220u	-0.0892u
Co 228.615	1.4104	1.2552	1.1504
Cr 267.716	0.4812	0.6398	0.8608
Cu 324.754	0.1689	0.8344	0.9259
Fe 271.441	302.728	301.800	296.371
K 766.491	298.574	299.845	299.779
Mg 279.078	800.031	799.284	799.731
Mn 257.610	92.4203	92.7385	92.6408
Mo 202.032	-0.3454u	-0.3696u	0.2676
Na 330.237	2357.27	2566.72	2589.97
Ni 231.604	2.5723	1.9552	2.4745
Pb 220.353	-2.2769u	0.9359	-0.3723u
Sb 206.834	-1.2990u	-0.8083u	1.4460
Se 196.026	5.1817	-4.4660u	-2.1661u
Sn 189.925	1.4459	0.7413	-0.1496u
Sr 216.596	11.4345	11.4805	11.6353
Ti 334.941	0.4475	0.5137	0.4527
Tl 190.794	-0.6445u	-1.1989u	0.9779
V 292.401	0.7479	0.6869	0.3168
Zn 206.200	4.5722	5.0744	4.7518

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.2704	ppb	0.0925	34.2	14.7626
Al 308.215	115.684	ppb	2.1187	1.8	1098.20
As 188.980	-2.8238	ppb	4.2336	149.9	-11.2651
B 249.678	5.9172	ppb	0.3036	5.1	228.069
Ba 389.178	14.9858	ppb	0.0726	0.5	386.646
Be 313.042	-0.0083	ppb	0.0049	59.0	-148.104
Ca 370.602	1388	ppb	6.847	0.5	4203
Cd 226.502	-0.0612	ppb	0.0787	128.6	18.8267
Co 228.615	1.2720	ppb	0.1308	10.3	9.1746
Cr 267.716	0.6606	ppb	0.1906	28.9	72.7220
Cu 324.754	0.6431	ppb	0.4132	64.2	120.611
Fe 271.441	300.300	ppb	3.4339	1.1	559.727
K 766.491	299.399	ppb	0.7156	0.2	10783.0
Mg 279.078	799.682	ppb	0.3759	0.0	2322.62
Mn 257.610	92.5999	ppb	0.1630	0.2	24753.4
Mo 202.032	-0.1491	ppb	0.3611	242.2	7.7805
Na 330.237	2504.65	ppb	128.164	5.1	187.107
Ni 231.604	2.3340	ppb	0.3317	14.2	5.8292
Pb 220.353	-0.5711	ppb	1.6156	282.9	16.9536
Sb 206.834	-0.2204	ppb	1.4639	664.2	4.9129
Se 196.026	-0.4834	ppb	5.0391	1042.4	-0.9336
Sn 189.925	0.6792	ppb	0.7995	117.7	-7.6664
Sr 216.596	11.5168	ppb	0.1052	0.9	200.060
Ti 334.941	0.4713	ppb	0.0368	7.8	107.174
Tl 190.794	-0.2885	ppb	1.1312	392.1	-9.9893
V 292.401	0.5838	ppb	0.2333	40.0	8.3837
Zn 206.200	4.7995	ppb	0.2545	5.3	8.4975

mb 680-286998/1-a (Samp) **8/2/2013, 6:03:17 PM** **Rack 2, Tube 19**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.4630	0.0025u	-0.2138u
Al 308.215	62.5327	62.8424	60.9738
As 188.980	0.4063	-4.8644u	-0.5508u
B 249.678	0.3356	0.1230	0.2447
Ba 389.178	4.0187	4.8001	4.5539
Be 313.042	-0.0217u	-0.0284u	-0.0231u
Ca 370.602	3967	3973	3954
Cd 226.502	-0.0005	0.1276	0.0393
Co 228.615	-0.1218	0.1625	-0.2284
Cr 267.716	0.8098	0.7375	0.9100
Cu 324.754	0.6267	1.0450	0.3793
Fe 271.441	19.7554	22.2278	20.5607
K 766.491	168.575	168.637	167.509
Mg 279.078	298.858	292.213	294.067
Mn 257.610	1.2088	1.1684	1.1812
Mo 202.032	0.1397	0.2458	0.1245
Na 330.237	1194.64	1228.14	1002.61
Ni 231.604	2.9771	1.4714	1.5374
Pb 220.353	0.0631	-0.6125u	1.8863
Sb 206.834	176.631	173.614	174.936
Se 196.026	-0.7339u	2.0074	4.6192
Sn 189.925	11.8690	16.0748	13.0486
Sr 216.596	10.2329	9.7384	10.5292
Ti 334.941	148.926	155.192	150.846
Tl 190.794	-4.7753u	-2.5126u	-0.7546u
V 292.401	0.2043	0.0308	0.2824
Zn 206.200	127.930	125.547	126.480

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0839	ppb	0.3457	412.0	0.4534
Al 308.215	62.1163	ppb	1.0015	1.6	709.888
As 188.980	-1.6696	ppb	2.8078	168.2	-10.2447
B 249.678	0.2344	ppb	0.1067	45.5	130.499
Ba 389.178	4.4576	ppb	0.3995	9.0	115.494
Be 313.042	-0.0244	ppb	0.0035	14.5	-179.020
Ca 370.602	3965	ppb	9.571	0.2	12148
Cd 226.502	0.0555	ppb	0.0656	118.2	24.1124
Co 228.615	-0.0626	ppb	0.2021	323.0	-5.4222
Cr 267.716	0.8191	ppb	0.0866	10.6	81.9369
Cu 324.754	0.6837	ppb	0.3365	49.2	123.079
Fe 271.441	20.8480	ppb	1.2610	6.0	58.3506
K 766.491	168.240	ppb	0.6340	0.4	6170.48
Mg 279.078	295.046	ppb	3.4291	1.2	879.919
Mn 257.610	1.1861	ppb	0.0206	1.7	415.217
Mo 202.032	0.1700	ppb	0.0661	38.9	10.4585
Na 330.237	1141.80	ppb	121.698	10.7	110.525
Ni 231.604	1.9953	ppb	0.8509	42.6	4.5305
Pb 220.353	0.4456	ppb	1.2926	290.0	18.8683
Sb 206.834	175.060	ppb	1.5123	0.9	287.645
Se 196.026	1.9642	ppb	2.6768	136.3	0.4195
Sn 189.925	13.6641	ppb	2.1694	15.9	6.6261
Sr 216.596	10.1669	ppb	0.3995	3.9	178.078
Ti 334.941	151.655	ppb	3.2103	2.1	47022.9
Tl 190.794	-2.6808	ppb	2.0156	75.2	-13.3281
V 292.401	0.1725	ppb	0.1288	74.7	-1.2591
Zn 206.200	126.652	ppb	1.2012	810.9	216.997

lcs 680-286998/2-a (Samp) **8/2/2013, 6:08:04 PM** **Rack 2, Tube 20**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	49.9978	49.5475	48.5312
Al 308.215	4535.92	4521.43	4525.57
As 188.980	100.701	100.686	97.1227
B 249.678	181.606	181.950	182.672
Ba 389.178	102.285	102.706	101.744
Be 313.042	49.7101	49.5863	49.7102
Ca 370.602	8473	8475	8466
Cd 226.502	48.1014	48.2513	48.0067
Co 228.615	49.0642	49.1832	49.2828
Cr 267.716	101.718	101.633	101.792
Cu 324.754	104.603	102.235	102.923
Fe 271.441	4749.38	4744.04	4752.00
K 766.491	4750.62	4728.81	4738.16
Mg 279.078	4893.46	4876.21	4877.28
Mn 257.610	505.048	503.666	504.072
Mo 202.032	95.5932	95.1026	95.9144
Na 330.237	5637.25	5680.35	5599.05
Ni 231.604	97.6936	98.3270	98.9913
Pb 220.353	47.7614	46.4084	48.9505
Sb 206.834	220.777	219.667	217.985
Se 196.026	99.1267	100.394	98.3996
Sn 189.925	204.962	203.951	204.727
Sr 216.596	108.523	108.754	109.017
Ti 334.941	203.094	194.180	196.059
Tl 190.794	35.4808	35.2649	36.8178
V 292.401	98.5904	98.6446	98.4256
Zn 206.200	228.456	229.743	226.793

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	49.3589	ppb	0.7513	1.5	3683.84
Al 308.215	4527.64	ppb	7.4655	0.2	33074.8
As 188.980	99.5030	ppb	2.0614	2.1	78.8867
B 249.678	182.076	ppb	0.5441	0.3	3263.04
Ba 389.178	102.245	ppb	0.4825	0.5	2637.71
Be 313.042	49.6689	ppb	0.0715	0.1	98579.8
Ca 370.602	8471	ppb	4.678	0.1	25554
Cd 226.502	48.1198	ppb	0.1234	0.3	2724.49
Co 228.615	49.1767	ppb	0.1094	0.2	682.606
Cr 267.716	101.714	ppb	0.0794	0.1	6106.22
Cu 324.754	103.254	ppb	1.2184	1.2	6600.15
Fe 271.441	4748.48	ppb	4.0575	0.1	8545.74
K 766.491	4739.20	ppb	10.9400	0.2	166917
Mg 279.078	4882.32	ppb	9.6667	0.2	14000.5
Mn 257.610	504.262	ppb	0.7103	0.1	134383
Mo 202.032	95.5367	ppb	0.4089	0.4	805.288
Na 330.237	5638.88	ppb	40.6776	0.7	352.040
Ni 231.604	98.3373	ppb	0.6489	0.7	372.435
Pb 220.353	47.7067	ppb	1.2719	2.7	114.922
Sb 206.834	219.476	ppb	1.4056	0.6	359.648
Se 196.026	99.3068	ppb	1.0094	1.0	55.4614
Sn 189.925	204.546	ppb	0.5287	0.3	216.723
Sr 216.596	108.765	ppb	0.2470	0.2	1788.12
Ti 334.941	197.778	ppb	4.6988	2.4	61360.2
Tl 190.794	35.8545	ppb	0.8412	2.3	41.2261
V 292.401	98.5535	ppb	0.1140	0.1	2887.37
Zn 206.200	228.331	ppb	1.4787	0.6	390.611

lcsd 680-286998/3-a (Samp) **8/2/2013, 6:12:40 PM** **Rack 2, Tube 21**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	49.6862	50.8936	50.4328
Al 308.215	4384.71	4392.64	4376.54
As 188.980	96.8352	94.7711	99.3767
B 249.678	181.600	182.579	182.286
Ba 389.178	99.4954	101.696	100.591
Be 313.042	48.5365	48.7423	48.6365
Ca 370.602	8406	8419	8358
Cd 226.502	48.7278	48.7184	48.5395
Co 228.615	48.6748	47.8634	47.9845
Cr 267.716	98.9117	99.3345	99.0461
Cu 324.754	99.3982	100.682	100.415
Fe 271.441	4643.79	4652.28	4644.08
K 766.491	4631.30	4662.50	4625.96
Mg 279.078	4735.46	4747.89	4740.17
Mn 257.610	491.646	492.656	491.348
Mo 202.032	95.5581	94.3966	94.7701
Na 330.237	5481.16	5273.54	5563.53
Ni 231.604	96.6939	96.7829	94.2634
Pb 220.353	48.1976	50.3286	45.7316
Sb 206.834	219.518	219.707	221.725
Se 196.026	102.233	93.1848	91.7973
Sn 189.925	205.468	201.849	203.503
Sr 216.596	106.497	106.599	107.077
Ti 334.941	220.272	216.052	212.269
Tl 190.794	37.3824	38.6807	37.8269
V 292.401	96.3725	96.7097	95.8183
Zn 206.200	227.404	227.407	229.985

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	50.3375	ppb	0.6093	1.2	3757.03
Al 308.215	4384.63	ppb	8.0474	0.2	32038.2
As 188.980	96.9943	ppb	2.3069	2.4	76.6753
B 249.678	182.155	ppb	0.5024	0.3	3264.66
Ba 389.178	100.594	ppb	1.1002	1.1	2594.91
Be 313.042	48.6385	ppb	0.1029	0.2	96531.8
Ca 370.602	8394	ppb	31.95	0.4	25337
Cd 226.502	48.6619	ppb	0.1061	0.2	2754.26
Co 228.615	48.1743	ppb	0.4377	0.9	669.075
Cr 267.716	99.0974	ppb	0.2161	0.2	5950.00
Cu 324.754	100.165	ppb	0.6773	0.7	6405.19
Fe 271.441	4646.72	ppb	4.8221	0.1	8363.06
K 766.491	4639.92	ppb	19.7381	0.4	163426
Mg 279.078	4741.17	ppb	6.2769	0.1	13596.7
Mn 257.610	491.884	ppb	0.6854	0.1	131086
Mo 202.032	94.9083	ppb	0.5929	0.6	800.058
Na 330.237	5439.41	ppb	149.432	2.7	341.152
Ni 231.604	95.9134	ppb	1.4297	1.5	363.178
Pb 220.353	48.0859	ppb	2.3005	4.8	115.670
Sb 206.834	220.317	ppb	1.2236	0.6	360.960
Se 196.026	95.7384	ppb	5.6672	5.9	53.4456
Sn 189.925	203.607	ppb	1.8116	0.9	215.689
Sr 216.596	106.724	ppb	0.3095	0.3	1754.77
Ti 334.941	216.197	ppb	4.0032	1.9	67075.9
Tl 190.794	37.9633	ppb	0.6598	1.7	44.2545
V 292.401	96.3002	ppb	0.4501	0.5	2821.26
Zn 206.200	228.265	ppb	1.4892	0.7	390.509

680-92662-a-81-b (Samp) **8/2/2013, 6:17:15 PM** **Rack 2, Tube 22**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.3667	-0.1198u	-0.1292u
Al 308.215	2340.32	2343.83	2344.32
As 188.980	0.5867	2.6149	4.5805
B 249.678	355.619	354.786	354.211
Ba 389.178	56.5204	57.8174	56.2772
Be 313.042	0.1906	0.1982	0.1887
Ca 370.602	17733	17726	17723
Cd 226.502	11.0622	10.9650	11.0233
Co 228.615	2.4402	2.3107	2.4845
Cr 267.716	16.9209	16.6938	16.7711
Cu 324.754	28.3424	27.9271	27.7789
Fe 271.441	5387.22	5381.98	5387.82
K 766.491	1703.96	1704.21	1700.56
Mg 279.078	3065.19	3071.53	3070.36
Mn 257.610	219.329	219.366	219.582
Mo 202.032	0.9748	1.6694	0.8891
Na 330.237	2265.89	2117.81	2418.55
Ni 231.604	8.2027	8.5107	7.4922
Pb 220.353	30.6664	28.3600	30.1891
Sb 206.834	211.526	209.480	213.101
Se 196.026	2.5776	-2.2372u	-0.3203u
Sn 189.925	19.5614	18.9677	19.0248
Sr 216.596	33.6985	33.8005	33.9812
Ti 334.941	229.390	230.001	230.334
Tl 190.794	-3.7030u	-1.6362u	-0.3563u
V 292.401	6.5093	6.4381	6.6815
Zn 206.200	894.547	891.922	891.034

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0392	ppb	0.2836	723.0	-3.0088
Al 308.215	2342.82	ppb	2.1782	0.1	17246.8
As 188.980	2.5940	ppb	1.9970	77.0	-6.5295
B 249.678	354.872	ppb	0.7080	0.2	6249.03
Ba 389.178	56.8717	ppb	0.8280	1.5	1472.35
Be 313.042	0.1925	ppb	0.0050	2.6	256.569
Ca 370.602	17727	ppb	5.400	0.0	53710
Cd 226.502	11.0168	ppb	0.0489	0.4	658.361
Co 228.615	2.4118	ppb	0.0903	3.7	31.6106
Cr 267.716	16.7953	ppb	0.1154	0.7	1038.19
Cu 324.754	28.0161	ppb	0.2921	1.0	1849.99
Fe 271.441	5385.67	ppb	3.2137	0.1	9681.36
K 766.491	1702.91	ppb	2.0393	0.1	60140.2
Mg 279.078	3069.03	ppb	3.3735	0.1	8816.74
Mn 257.610	219.425	ppb	0.1367	0.1	58549.6
Mo 202.032	1.1778	ppb	0.4279	36.3	18.5402
Na 330.237	2267.42	ppb	150.375	6.6	157.780
Ni 231.604	8.0685	ppb	0.5223	6.5	27.8787
Pb 220.353	29.7385	ppb	1.2174	4.1	78.6715
Sb 206.834	211.369	ppb	1.8155	0.9	346.621
Se 196.026	0.0067	ppb	2.4240	36066.1	-0.6016
Sn 189.925	19.1846	ppb	0.3275	1.7	12.7103
Sr 216.596	33.8267	ppb	0.1432	0.4	572.938
Ti 334.941	229.908	ppb	0.4783	0.2	71322.8
Tl 190.794	-1.8985	ppb	1.6887	89.0	-12.8317
V 292.401	6.5430	ppb	0.1251	1.9	187.476
Zn 206.200	892.501	ppb	1.8265	810.3	1527.44

680-92662-a-81-b SD^ (Samp) **8/2/2013, 6:21:51 PM** **Rack 2, Tube 23**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.3727	0.0371	0.2167
Al 308.215	534.745	529.060	520.603
As 188.980	-3.8579u	-2.4299u	1.4747
B 249.678	80.0367	78.8168	78.0543
Ba 389.178	12.4727	12.3352	13.3027
Be 313.042	0.0131	0.0235	0.0106
Ca 370.602	3912	3873	3829
Cd 226.502	2.4834	2.4833	2.3063
Co 228.615	0.1218	0.8124	0.2086
Cr 267.716	3.6068	3.6125	3.5213
Cu 324.754	6.1046	5.9456	5.9520
Fe 271.441	1199.60	1183.00	1172.19
K 766.491	378.200	375.280	372.548
Mg 279.078	700.561	694.784	682.634
Mn 257.610	49.2349	48.5313	48.0490
Mo 202.032	-0.0475u	0.0571	0.0496
Na 330.237	556.977	470.580	411.607
Ni 231.604	2.5459	2.1057	1.8457
Pb 220.353	6.1978	5.9897	5.7040
Sb 206.834	50.4965	49.5889	49.7204
Se 196.026	-4.9520u	-3.7299u	4.7022
Sn 189.925	5.2982	5.4614	5.0562
Sr 216.596	7.4332	7.3294	7.5470
Ti 334.941	69.0981	66.8052	65.9157
Tl 190.794	-1.0211u	-1.5001u	0.2851
V 292.401	1.4992	1.5508	1.4213
Zn 206.200	197.902	197.428	197.850

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.2088	ppb	0.1679	80.4	10.1264
Al 308.215	528.136	ppb	7.1163	1.3	4088.89
As 188.980	-1.6044	ppb	2.7605	172.1	-10.1967
B 249.678	78.9693	ppb	0.9999	1.3	1488.97
Ba 389.178	12.7035	ppb	0.5234	4.1	329.347
Be 313.042	0.0157	ppb	0.0068	43.4	-99.2696
Ca 370.602	3871	ppb	41.35	1.1	11732
Cd 226.502	2.4243	ppb	0.1022	4.2	161.206
Co 228.615	0.3809	ppb	0.3762	98.8	-1.4425
Cr 267.716	3.5802	ppb	0.0511	1.4	247.066
Cu 324.754	6.0007	ppb	0.0900	1.5	459.054
Fe 271.441	1184.93	ppb	13.8054	1.2	2146.35
K 766.491	375.343	ppb	2.8266	0.8	13453.7
Mg 279.078	692.660	ppb	9.1502	1.3	2017.25
Mn 257.610	48.6051	ppb	0.5964	1.2	13044.7
Mo 202.032	0.0197	ppb	0.0583	295.3	9.1358
Na 330.237	479.721	ppb	73.1150	15.2	73.3174
Ni 231.604	2.1658	ppb	0.3539	16.3	5.2160
Pb 220.353	5.9639	ppb	0.2479	4.2	30.2138
Sb 206.834	49.9353	ppb	0.4905	1.0	85.8908
Se 196.026	-1.3265	ppb	5.2567	396.3	-1.4179
Sn 189.925	5.2719	ppb	0.2039	3.9	-2.6110
Sr 216.596	7.4365	ppb	0.1089	1.5	135.105
Ti 334.941	67.2730	ppb	1.6420	2.4	20838.2
Tl 190.794	-0.7454	ppb	0.9240	124.0	-10.6966
V 292.401	1.4904	ppb	0.0652	4.4	36.1672
Zn 206.200	197.727	ppb	0.2598	0.1	338.615

680-92662-a-81-b PDS (Samp) **8/2/2013, 6:26:28 PM** **Rack 2, Tube 24**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	39.3712	39.9091	39.8444
Al 308.215	4107.66	4104.60	4087.67
As 188.980	197.084	198.648	193.129
B 249.678	793.616	791.448	789.193
Ba 389.178	251.040	250.936	248.672
Be 313.042	48.1726	48.1236	47.9274
Ca 370.602	19237	19194	19175
Cd 226.502	58.7491	58.7132	58.1810
Co 228.615	195.120	196.163	193.181
Cr 267.716	213.073	212.191	211.166
Cu 324.754	229.457	228.611	225.440
Fe 271.441	7184.65	7181.09	7154.90
K 766.491	3508.75	3509.42	3509.66
Mg 279.078	4897.23	4890.25	4870.76
Mn 257.610	412.481	411.351	409.791
Mo 202.032	200.099	200.352	198.182
Na 330.237	4050.88	4198.94	3897.51
Ni 231.604	197.210	195.244	197.021
Pb 220.353	213.871	216.651	216.185
Sb 206.834	394.839	392.398	396.198
Se 196.026	188.326	200.810	190.811
Sn 189.925	210.132	211.969	206.158
Sr 216.596	227.466	227.631	225.504
Ti 334.941	495.941	494.167	491.387
Tl 190.794	185.677	185.325	184.517
V 292.401	200.697	201.191	201.412
Zn 206.200	1075.66	1064.81	1063.63

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	39.7082	ppb	0.2937	0.7	2957.02
Al 308.215	4099.98	ppb	10.7671	0.3	29952.2
As 188.980	196.287	ppb	2.8445	1.4	164.109
B 249.678	791.419	ppb	2.2115	0.3	13792.3
Ba 389.178	250.216	ppb	1.3380	0.5	6426.53
Be 313.042	48.0745	ppb	0.1298	0.3	95393.8
Ca 370.602	19202	ppb	31.70	0.2	58208
Cd 226.502	58.5478	ppb	0.3181	0.5	3316.44
Co 228.615	194.821	ppb	1.5134	0.8	2727.31
Cr 267.716	212.143	ppb	0.9544	0.4	12696.4
Cu 324.754	227.836	ppb	2.1177	0.9	14465.8
Fe 271.441	7173.54	ppb	16.2479	0.2	12916.3
K 766.491	3509.28	ppb	0.4704	0.0	123665
Mg 279.078	4886.08	ppb	13.7148	0.3	14014.1
Mn 257.610	411.208	ppb	1.3508	0.3	109621
Mo 202.032	199.544	ppb	1.1868	0.6	1672.30
Na 330.237	4049.11	ppb	150.724	3.7	250.433
Ni 231.604	196.492	ppb	1.0843	0.6	746.895
Pb 220.353	215.569	ppb	1.4890	0.7	455.024
Sb 206.834	394.479	ppb	1.9255	0.5	641.449
Se 196.026	193.316	ppb	6.6084	3.4	108.447
Sn 189.925	209.420	ppb	2.9704	1.4	222.092
Sr 216.596	226.867	ppb	1.1834	0.5	3713.79
Ti 334.941	493.832	ppb	2.2957	0.5	153238
Tl 190.794	185.173	ppb	0.5951	0.3	255.216
V 292.401	201.100	ppb	0.3657	0.2	5901.38
Zn 206.200	1068.03	ppb	6.6300	0.6	1827.00

680-92662-a-83-b (Samp) **8/2/2013, 6:40:13 PM** **Rack 2, Tube 27**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.6177	0.3252	0.7951
Al 308.215	3889.12	3882.89	3875.09
As 188.980	12.8718	11.3586	12.1973
B 249.678	383.460	381.813	382.039
Ba 389.178	72.8793	72.4821	72.4512
Be 313.042	0.2780	0.2769	0.2720
Ca 370.602	12450	12422	12419
Cd 226.502	6.0319	5.8337	5.8803
Co 228.615	1.7202	1.5776	1.4759
Cr 267.716	13.6266	13.7477	13.5195
Cu 324.754	20.1359	20.3313	20.1924
Fe 271.441	9016.61	9025.23	9008.59
K 766.491	1451.29	1446.63	1449.49
Mg 279.078	1952.06	1943.22	1940.41
Mn 257.610	167.404	166.921	166.682
Mo 202.032	0.6882	0.3334	1.1390
Na 330.237	2634.89	2516.99	2465.57
Ni 231.604	12.4579	11.6229	11.4561
Pb 220.353	60.8483	57.6407	62.5025
Sb 206.834	206.386	212.598	206.369
Se 196.026	1.2373	-0.7031u	-6.4444u
Sn 189.925	17.0375	19.2226	18.3523
Sr 216.596	32.9939	33.1325	33.1794
Ti 334.941	1571.39	1570.93	1576.97
Tl 190.794	-0.2603u	-1.5562u	0.6533
V 292.401	4.7257	4.6834	4.4584
Zn 206.200	533.366	533.350	531.182

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.5794	ppb	0.2373	41.0	37.1805
Al 308.215	3882.36	ppb	7.0263	0.2	28410.6
As 188.980	12.1426	ppb	0.7581	6.2	1.8580
B 249.678	382.437	ppb	0.8930	0.2	6716.89
Ba 389.178	72.6042	ppb	0.2387	0.3	1877.09
Be 313.042	0.2757	ppb	0.0032	1.2	420.100
Ca 370.602	12430	ppb	17.28	0.1	37992
Cd 226.502	5.9153	ppb	0.1036	1.8	389.420
Co 228.615	1.5912	ppb	0.1227	7.7	56.9111
Cr 267.716	13.6313	ppb	0.1142	0.8	853.448
Cu 324.754	20.2198	ppb	0.1006	0.5	1359.32
Fe 271.441	9016.81	ppb	8.3212	0.1	16194.5
K 766.491	1449.14	ppb	2.3472	0.2	51215.8
Mg 279.078	1945.23	ppb	6.0787	0.3	5601.00
Mn 257.610	167.002	ppb	0.3680	0.2	44596.3
Mo 202.032	0.7202	ppb	0.4037	56.1	14.5181
Na 330.237	2539.15	ppb	86.8071	3.4	171.891
Ni 231.604	11.8456	ppb	0.5368	4.5	42.4066
Pb 220.353	60.3305	ppb	2.4719	4.1	140.074
Sb 206.834	208.451	ppb	3.5915	1.7	342.012
Se 196.026	-1.9701	ppb	3.9945	202.8	-1.7168
Sn 189.925	18.2041	ppb	1.1001	6.0	11.6281
Sr 216.596	33.1019	ppb	0.0965	0.3	565.079
Ti 334.941	1573.10	ppb	3.3582	0.2	488163
Tl 190.794	-0.3877	ppb	1.1103	286.4	-10.9614
V 292.401	4.6225	ppb	0.1437	3.1	153.711
Zn 206.200	532.633	ppb	1.2565	0.2	811.727

680-92662-a-85-b (Samp) **8/2/2013, 6:44:49 PM** **Rack 2, Tube 28**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.3780	0.4573	-0.1374u
Al 308.215	2502.98	2499.23	2503.05
As 188.980	4.5557	2.9744	6.4026
B 249.678	292.679	291.218	291.499
Ba 389.178	79.8148	80.2809	80.8163
Be 313.042	0.1843	0.1794	0.1785
Ca 370.602	25301	25401	25428
Cd 226.502	1.2659	1.3702	1.2248
Co 228.615	2.4047	2.1820	2.4865
Cr 267.716	24.6833	24.3645	24.4931
Cu 324.754	61.5820	61.1138	60.8623
Fe 271.441	8748.48	8729.57	8703.80
K 766.491	2118.86	2115.38	2112.45
Mg 279.078	4672.40	4661.92	4663.57
Mn 257.610	380.531	380.623	380.437
Mo 202.032	2.8393	3.2370	2.7372
Na 330.237	1582.76	1664.03	1721.52
Ni 231.604	12.1107	10.6343	12.0250
Pb 220.353	48.0272	46.4051	49.1084
Sb 206.834	115.690	114.856	111.984
Se 196.026	0.4509	3.2336	-4.2229u
Sn 189.925	14.8536	11.8291	10.3138
Sr 216.596	49.6794	50.0161	49.2396
Ti 334.941	105.669	105.272	105.307
Tl 190.794	-1.3055u	0.1728u	-1.2747u
V 292.401	10.2896	10.5242	10.4963
Zn 206.200	563.335	560.776	566.324

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.2326	ppb	0.3229	138.8	11.4284
Al 308.215	2501.75	ppb	2.1838	0.1	18398.6
As 188.980	4.6442	ppb	1.7158	36.9	-4.7672
B 249.678	291.799	ppb	0.7754	0.3	5150.53
Ba 389.178	80.3040	ppb	0.5011	0.6	2081.44
Be 313.042	0.1808	ppb	0.0031	1.7	235.482
Ca 370.602	25376	ppb	66.96	0.3	76698
Cd 226.502	1.2870	ppb	0.0750	5.8	130.143
Co 228.615	2.3578	ppb	0.1576	6.7	27.5785
Cr 267.716	24.5136	ppb	0.1604	0.7	1500.46
Cu 324.754	61.1860	ppb	0.3653	0.6	3944.61
Fe 271.441	8727.28	ppb	22.4294	0.3	15675.0
K 766.491	2115.57	ppb	3.2107	0.2	74652.1
Mg 279.078	4665.96	ppb	5.6328	0.1	13385.6
Mn 257.610	380.530	ppb	0.0929	0.0	101458
Mo 202.032	2.9378	ppb	0.2641	9.0	33.0184
Na 330.237	1656.11	ppb	69.7185	4.2	129.100
Ni 231.604	11.5900	ppb	0.8287	7.2	41.4272
Pb 220.353	47.8469	ppb	1.3607	2.8	115.790
Sb 206.834	114.177	ppb	1.9440	1.7	190.037
Se 196.026	-0.1795	ppb	3.7680	2099.3	-0.6480
Sn 189.925	12.3322	ppb	2.3113	18.7	5.1721
Sr 216.596	49.6450	ppb	0.3894	0.8	836.358
Ti 334.941	105.416	ppb	0.2201	0.2	32696.4
Tl 190.794	-0.8025	ppb	0.8448	105.3	-11.6769
V 292.401	10.4367	ppb	0.1282	1.2	299.837
Zn 206.200	563.478	ppb	2.7767	817.5	964.458

680-92662-a-87-b (Samp) **8/2/2013, 6:49:24 PM** **Rack 2, Tube 29**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.0616	0.1840	0.4604
Al 308.215	1613.44	1611.55	1610.30
As 188.980	8.7071	5.9384	2.7691
B 249.678	296.272	296.245	294.902
Ba 389.178	52.2155	52.7757	52.3316
Be 313.042	0.1166	0.1090	0.1198
Ca 370.602	22650	22587	22525
Cd 226.502	0.5385	0.5381	0.8187
Co 228.615	0.8138	0.8866	1.3488
Cr 267.716	11.5487	11.4618	11.3735
Cu 324.754	29.7949	29.3979	29.1767
Fe 271.441	4253.43	4257.41	4232.10
K 766.491	1638.51	1637.79	1643.76
Mg 279.078	2463.67	2462.93	2453.38
Mn 257.610	181.448	181.209	180.687
Mo 202.032	1.6397	0.9629	1.6812
Na 330.237	2182.80	2288.31	2263.22
Ni 231.604	14.9298	14.7919	15.0775
Pb 220.353	26.3665	24.7484	26.7364
Sb 206.834	132.102	142.082	135.496
Se 196.026	-4.1978u	2.8640	1.4803
Sn 189.925	12.4970	14.6513	12.5003
Sr 216.596	43.2014	43.5739	42.9663
Ti 334.941	109.789	109.599	109.529
Tl 190.794	-3.7617u	-0.9446u	-1.3550u
V 292.401	5.3211	5.2537	5.4745
Zn 206.200	349.806	347.396	347.618

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.2353	ppb	0.2043	86.8	11.0350
Al 308.215	1611.76	ppb	1.5847	0.1	11945.9
As 188.980	5.8049	ppb	2.9712	51.2	-3.6940
B 249.678	295.806	ppb	0.7834	0.3	5230.59
Ba 389.178	52.4409	ppb	0.2957	0.6	1355.47
Be 313.042	0.1152	ppb	0.0055	4.8	104.603
Ca 370.602	22587	ppb	62.60	0.3	68540
Cd 226.502	0.6318	ppb	0.1619	25.6	74.3550
Co 228.615	1.0164	ppb	0.2901	28.5	8.7206
Cr 267.716	11.4613	ppb	0.0876	0.8	719.165
Cu 324.754	29.4565	ppb	0.3132	1.1	1940.49
Fe 271.441	4247.64	ppb	13.6093	0.3	7639.90
K 766.491	1640.02	ppb	3.2572	0.2	57928.5
Mg 279.078	2459.99	ppb	5.7394	0.2	7074.09
Mn 257.610	181.114	ppb	0.3892	0.2	48342.6
Mo 202.032	1.4280	ppb	0.4033	28.2	20.6956
Na 330.237	2244.78	ppb	55.1214	2.5	165.899
Ni 231.604	14.9331	ppb	0.1428	1.0	54.0620
Pb 220.353	25.9505	ppb	1.0573	4.1	70.9781
Sb 206.834	136.560	ppb	5.0742	3.7	225.822
Se 196.026	0.0488	ppb	3.7422	7663.6	-0.5931
Sn 189.925	13.2162	ppb	1.2429	9.4	6.1440
Sr 216.596	43.2472	ppb	0.3063	0.7	725.559
Ti 334.941	109.639	ppb	0.1345	0.1	33995.2
Tl 190.794	-2.0204	ppb	1.5219	75.3	-12.8832
V 292.401	5.3498	ppb	0.1131	2.1	150.386
Zn 206.200	348.273	ppb	1.3318	818.4	506.220

mb 680-287109/1-a (Samp) **8/2/2013, 6:53:59 PM** **Rack 2, Tube 30**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	0.0206	0.1596	0.0217
Al 308.215	0.6959	1.6015	1.9980
As 188.980	-3.6971u	-4.3529u	-4.0001u
B 249.678	4.8240	3.6983	4.0379
Ba 389.178	0.4474	-0.4702u	-0.3486u
Be 313.042	-0.0260u	-0.0391u	-0.0319u
Ca 370.602	3.943	5.064	2.862
Cd 226.502	-0.0196u	-0.0665u	0.1434
Co 228.615	-0.3794u	-0.2322u	-0.3882u
Cr 267.716	-0.0260u	-0.0723u	0.0309
Cu 324.754	0.0107	-0.2566u	0.0084
Fe 271.441	-0.4155u	-1.4310u	-1.6022u
K 766.491	-1.6117u	-1.0915u	-0.9389u
Mg 279.078	-0.2465u	-0.8698u	-3.0115u
Mn 257.610	-0.2347u	-0.2110u	-0.1967u
Mo 202.032	0.3714	0.2587	-0.1772u
Na 330.237	195.382	19.5544	82.5303
Ni 231.604	-0.3551u	-0.2745u	0.2103
Pb 220.353	1.4928	-0.4442u	0.4435
Sb 206.834	2.1929	3.9234	5.6034
Se 196.026	2.9671	-5.4871u	-2.1036u
Sn 189.925	0.7186	2.3396	-2.3258u
Sr 216.596	-0.0331u	0.3720	0.1534
Ti 334.941	-0.0007u	0.0338	0.0256
Tl 190.794	-1.8423u	-2.2559u	-1.1810u
V 292.401	-0.1364u	-0.1701u	-0.0503u
Zn 206.200	-0.0383u	-0.8048u	-0.6100u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0673	ppb	0.0800	118.8	-0.3298
Al 308.215	1.4318	ppb	0.6675	46.6	269.948
As 188.980	-4.0167	ppb	0.3282	8.2	-12.3139
B 249.678	4.1867	ppb	0.5774	13.8	198.881
Ba 389.178	-0.1238	ppb	0.4984	402.7	-2.5568
Be 313.042	-0.0323	ppb	0.0066	20.3	-196.066
Ca 370.602	3.956	ppb	1.101	27.8	6.129
Cd 226.502	0.0191	ppb	0.1102	576.9	22.0030
Co 228.615	-0.3333	ppb	0.0876	26.3	-13.3413
Cr 267.716	-0.0225	ppb	0.0517	230.0	31.3160
Cu 324.754	-0.0792	ppb	0.1537	194.1	74.9320
Fe 271.441	-1.1496	ppb	0.6415	55.8	18.8127
K 766.491	-1.2140	ppb	0.3527	29.1	211.284
Mg 279.078	-1.3759	ppb	1.4503	105.4	31.3887
Mn 257.610	-0.2141	ppb	0.0192	9.0	39.5830
Mo 202.032	0.1509	ppb	0.2898	192.0	10.3017
Na 330.237	99.1555	ppb	89.0849	89.8	56.3474
Ni 231.604	-0.1397	ppb	0.3058	218.9	-3.6219
Pb 220.353	0.4974	ppb	0.9696	195.0	19.0724
Sb 206.834	3.9066	ppb	1.7053	43.7	11.5446
Se 196.026	-1.5412	ppb	4.2551	276.1	-1.5573
Sn 189.925	0.2441	ppb	2.3686	970.2	-8.1472
Sr 216.596	0.1641	ppb	0.2028	123.6	14.4199
Ti 334.941	0.0196	ppb	0.0180	92.2	-36.8675
Tl 190.794	-1.7597	ppb	0.5422	30.8	-12.0107
V 292.401	-0.1189	ppb	0.0618	51.9	-12.4089
Zn 206.200	-0.4844	ppb	0.3984	82.3	-0.5444

lcs 680-287109/2-a (Samp) **8/2/2013, 6:58:34 PM** **Rack 2, Tube 31**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	53.1366	52.7569	53.4085
Al 308.215	4863.23	4854.73	4858.13
As 188.980	111.403	106.199	110.227
B 249.678	199.757	198.692	200.922
Ba 389.178	104.917	105.485	105.911
Be 313.042	52.2491	52.2148	52.2903
Ca 370.602	5103	5095	5086
Cd 226.502	52.2009	52.2881	51.9691
Co 228.615	53.2508	52.5753	53.2813
Cr 267.716	108.388	107.919	108.440
Cu 324.754	108.645	107.597	108.646
Fe 271.441	5112.25	5106.32	5118.72
K 766.491	5020.79	5033.98	5091.53
Mg 279.078	5127.74	5123.62	5132.38
Mn 257.610	539.266	538.706	539.481
Mo 202.032	106.466	105.970	105.936
Na 330.237	5074.88	4856.48	4924.98
Ni 231.604	103.705	103.224	102.036
Pb 220.353	53.5228	51.3406	48.5978
Sb 206.834	51.5552	54.9163	52.9893
Se 196.026	105.169	104.171	114.256
Sn 189.925	213.158	205.740	205.937
Sr 216.596	106.441	107.035	106.821
Ti 334.941	102.264	102.295	102.495
Tl 190.794	39.8361	38.3765	40.6269
V 292.401	105.657	105.360	106.131
Zn 206.200	104.825	105.040	102.268

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	53.1006	ppb	0.3273	0.6	3963.94
Al 308.215	4858.70	ppb	4.2784	0.1	35474.5
As 188.980	109.276	ppb	2.7295	2.5	87.4963
B 249.678	199.790	ppb	1.1150	0.6	3568.46
Ba 389.178	105.438	ppb	0.4991	0.5	2720.68
Be 313.042	52.2514	ppb	0.0378	0.1	103710
Ca 370.602	5095	ppb	8.556	0.2	15193
Cd 226.502	52.1527	ppb	0.1649	0.3	2950.90
Co 228.615	53.0358	ppb	0.3991	0.8	733.723
Cr 267.716	108.249	ppb	0.2868	0.3	6496.17
Cu 324.754	108.296	ppb	0.6056	0.6	6918.79
Fe 271.441	5112.43	ppb	6.2019	0.1	9199.11
K 766.491	5048.77	ppb	37.6146	0.7	177804
Mg 279.078	5127.91	ppb	4.3850	0.1	14702.7
Mn 257.610	539.151	ppb	0.4000	0.1	143673
Mo 202.032	106.124	ppb	0.2967	0.3	893.545
Na 330.237	4952.12	ppb	111.699	2.3	316.865
Ni 231.604	102.988	ppb	0.8592	0.8	390.196
Pb 220.353	51.1537	ppb	2.4678	4.8	121.986
Sb 206.834	53.1536	ppb	1.6866	3.2	91.2757
Se 196.026	107.865	ppb	5.5566	5.2	60.2984
Sn 189.925	208.278	ppb	4.2269	2.0	220.829
Sr 216.596	106.766	ppb	0.3009	0.3	1755.14
Ti 334.941	102.351	ppb	0.1255	0.1	31747.0
Tl 190.794	39.6132	ppb	1.1417	2.9	46.5581
V 292.401	105.716	ppb	0.3885	0.4	3095.34
Zn 206.200	104.044	ppb	1.5419	1.5	8205 177.920

680-92761-c-1-b (Samp) **8/2/2013, 7:03:09 PM** **Rack 2, Tube 32**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.1010	0.2223	-0.5137u
Al 308.215	352.296	352.045	352.098
As 188.980	1.8612	-2.1514u	-1.9974u
B 249.678	7.8840	7.7836	7.0703
Ba 389.178	19.0378	18.3139	18.9326
Be 313.042	0.0211	0.0124	0.0180
Ca 370.602	993.2	994.4	999.5
Cd 226.502	-0.0427	-0.1388u	-0.1008u
Co 228.615	0.6103	0.6757	0.7807
Cr 267.716	0.3844	0.4671	0.3681
Cu 324.754	0.7425	1.0077	0.4613
Fe 271.441	727.542	738.026	732.472
K 766.491	848.080	840.435	840.892
Mg 279.078	799.441	793.786	800.142
Mn 257.610	51.8437	51.9967	51.9300
Mo 202.032	0.2379	-0.1608u	-0.0777u
Na 330.237	1700.55	1767.01	1692.98
Ni 231.604	2.5050	1.0756	0.0685
Pb 220.353	-1.2033u	0.2772	1.2540
Sb 206.834	2.9745	2.3616	1.7291
Se 196.026	-0.5437u	0.6384	-3.7702u
Sn 189.925	-1.1196u	1.8717	-1.2559u
Sr 216.596	9.4796	9.8981	9.3218
Ti 334.941	2.7110	2.4654	2.6177
Tl 190.794	0.3916	0.4770	0.0779
V 292.401	0.9783	1.2317	1.2985
Zn 206.200	2.9182	2.5032	1.7231

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0635	ppb	0.3946	621.7	-10.3138
Al 308.215	352.146	ppb	0.1326	0.0	2812.79
As 188.980	-0.7625	ppb	2.2735	298.2	-9.4509
B 249.678	7.5793	ppb	0.4437	5.9	255.780
Ba 389.178	18.7614	ppb	0.3911	2.1	483.859
Be 313.042	0.0172	ppb	0.0044	25.6	-97.5801
Ca 370.602	995.7	ppb	3.315	0.3	2974
Cd 226.502	-0.0941	ppb	0.0484	51.5	18.8307
Co 228.615	0.6889	ppb	0.0860	12.5	1.0811
Cr 267.716	0.4065	ppb	0.0531	13.1	57.4513
Cu 324.754	0.7372	ppb	0.2732	37.1	126.704
Fe 271.441	732.680	ppb	5.2455	0.7	1335.19
K 766.491	843.135	ppb	4.2880	0.5	29904.5
Mg 279.078	797.789	ppb	3.4850	0.4	2318.09
Mn 257.610	51.9235	ppb	0.0767	0.1	13927.4
Mo 202.032	-0.0002	ppb	0.2104	101092.2	8.9963
Na 330.237	1720.18	ppb	40.7344	2.4	144.300
Ni 231.604	1.2164	ppb	1.2244	100.7	1.5761
Pb 220.353	0.1093	ppb	1.2372	1131.8	18.3525
Sb 206.834	2.3551	ppb	0.6227	26.4	9.0777
Se 196.026	-1.2252	ppb	2.2819	186.3	-1.3615
Sn 189.925	-0.1679	ppb	1.7677	1052.5	-8.5994
Sr 216.596	9.5665	ppb	0.2978	3.1	168.801
Ti 334.941	2.5980	ppb	0.1240	4.8	767.296
Tl 190.794	0.3155	ppb	0.2101	66.6	-9.1398
V 292.401	1.1695	ppb	0.1689	14.4	25.7482
Zn 206.200	2.3815	ppb	0.6068	825.5	4.3662

680-92761-a-2-b (Samp) **8/2/2013, 7:07:45 PM** **Rack 2, Tube 33**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.0069	-0.2507u	-0.1360u
Al 308.215	306.877	308.749	311.665
As 188.980	2.9609	-3.2753u	-1.4404u
B 249.678	7.5553	7.2094	7.5110
Ba 389.178	23.2363	22.6445	24.2448
Be 313.042	0.0134	0.0178	-0.0019u
Ca 370.602	1599	1628	1635
Cd 226.502	-0.0412	-0.1462u	-0.0183
Co 228.615	1.4451	0.8809	1.2506
Cr 267.716	0.6323	0.6228	0.6356
Cu 324.754	1.6352	1.0303	1.3516
Fe 271.441	1044.91	1062.23	1072.42
K 766.491	758.401	763.590	769.634
Mg 279.078	953.070	954.153	961.052
Mn 257.610	67.1454	68.0269	68.2908
Mo 202.032	-0.3973u	0.3932	0.3077
Na 330.237	1960.16	2103.16	2153.14
Ni 231.604	1.6475	0.9689	1.7349
Pb 220.353	-1.6131u	1.2183	-1.1485u
Sb 206.834	3.5867	-0.5259u	2.6440
Se 196.026	-0.2427u	1.4004	-1.1250u
Sn 189.925	0.4719	2.1178	-0.0178u
Sr 216.596	14.1720	14.3986	14.8232
Ti 334.941	1.4847	1.4700	1.5030
Tl 190.794	-0.4203u	-3.2934u	-0.5434u
V 292.401	0.7562	0.7974	1.0596
Zn 206.200	3.2177	3.9373	3.2606

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1266	ppb	0.1291	102.0	-15.1953
Al 308.215	309.097	ppb	2.4129	0.8	2500.66
As 188.980	-0.5849	ppb	3.2049	547.9	-9.2996
B 249.678	7.4252	ppb	0.1882	2.5	252.336
Ba 389.178	23.3752	ppb	0.8092	3.5	602.815
Be 313.042	0.0098	ppb	0.0104	106.3	-112.212
Ca 370.602	1621	ppb	18.93	1.2	4854
Cd 226.502	-0.0686	ppb	0.0682	99.5	21.6457
Co 228.615	1.1922	ppb	0.2866	24.0	8.1095
Cr 267.716	0.6302	ppb	0.0067	1.1	70.9913
Cu 324.754	1.3390	ppb	0.3026	22.6	164.816
Fe 271.441	1059.85	ppb	13.9080	1.3	1922.08
K 766.491	763.875	ppb	5.6222	0.7	27117.2
Mg 279.078	956.091	ppb	4.3296	0.5	2771.02
Mn 257.610	67.8210	ppb	0.5998	0.9	18161.6
Mo 202.032	0.1012	ppb	0.4338	428.5	9.8242
Na 330.237	2072.15	ppb	100.155	4.8	163.338
Ni 231.604	1.4504	ppb	0.4193	28.9	2.4779
Pb 220.353	-0.5144	ppb	1.5185	295.2	17.1214
Sb 206.834	1.9016	ppb	2.1544	113.3	8.3599
Se 196.026	0.0109	ppb	1.2817	11725.1	-0.6589
Sn 189.925	0.8573	ppb	1.1188	130.5	-7.4704
Sr 216.596	14.4646	ppb	0.3306	2.3	249.183
Ti 334.941	1.4859	ppb	0.0165	1.1	422.964
Tl 190.794	-1.4190	ppb	1.6244	114.5	-11.6587
V 292.401	0.8711	ppb	0.1646	18.9	16.8719
Zn 206.200	3.4719	ppb	0.4036	822.6	6.2348

680-92761-a-3-d (Samp) **8/2/2013, 7:12:32 PM** **Rack 2, Tube 34**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.2487	-0.1204u	-0.1740u
Al 308.215	481.046	483.113	485.457
As 188.980	-5.5584u	-1.6917u	-5.2087u
B 249.678	7.2419	6.6210	6.7619
Ba 389.178	20.4274	21.1275	20.8082
Be 313.042	0.0156	0.0163	0.0128
Ca 370.602	1011	1013	1019
Cd 226.502	0.0546	0.0347	-0.0411
Co 228.615	1.1312	0.9497	1.0694
Cr 267.716	0.8185	0.6452	0.5450
Cu 324.754	0.4091	0.5589	0.7142
Fe 271.441	1390.46	1399.56	1401.49
K 766.491	406.021	409.666	409.612
Mg 279.078	560.123	557.351	556.661
Mn 257.610	51.4924	51.8431	51.8715
Mo 202.032	-0.2990u	-0.3110u	-0.3952u
Na 330.237	1601.52	1599.55	1553.89
Ni 231.604	0.6037	0.7306	1.7678
Pb 220.353	0.1835	1.1110	0.3678
Sb 206.834	0.2572	0.1055	-0.2273u
Se 196.026	2.0797	-1.9755u	-6.8735u
Sn 189.925	-0.2087u	-2.4419u	0.0200
Sr 216.596	10.3208	10.5542	10.5562
Ti 334.941	1.5793	1.5630	1.5624
Tl 190.794	-2.1433u	-3.8379u	-0.6355u
V 292.401	1.1388	1.0081	0.8999
Zn 206.200	1.8235	2.2761	4.2426

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0152	ppb	0.2302	1512.4	-6.7481
Al 308.215	483.205	ppb	2.2069	0.5	3763.13
As 188.980	-4.1529	ppb	2.1387	51.5	-12.4463
B 249.678	6.8749	ppb	0.3255	4.7	242.011
Ba 389.178	20.7877	ppb	0.3505	1.7	536.017
Be 313.042	0.0149	ppb	0.0019	12.4	-102.030
Ca 370.602	1014	ppb	4.052	0.4	2979
Cd 226.502	0.0161	ppb	0.0505	314.0	27.8063
Co 228.615	1.0501	ppb	0.0923	8.8	6.1525
Cr 267.716	0.6696	ppb	0.1384	20.7	73.3394
Cu 324.754	0.5608	ppb	0.1526	27.2	115.806
Fe 271.441	1397.17	ppb	5.8935	0.4	2527.09
K 766.491	408.433	ppb	2.0886	0.5	14617.3
Mg 279.078	558.045	ppb	1.8326	0.3	1631.88
Mn 257.610	51.7357	ppb	0.2111	0.4	13877.3
Mo 202.032	-0.3350	ppb	0.0524	15.6	6.1661
Na 330.237	1584.99	ppb	26.9495	1.7	136.731
Ni 231.604	1.0340	ppb	0.6386	61.8	0.8985
Pb 220.353	0.5541	ppb	0.4910	88.6	19.3092
Sb 206.834	0.0451	ppb	0.2478	549.0	5.3870
Se 196.026	-2.2564	ppb	4.4832	198.7	-1.9404
Sn 189.925	-0.8769	ppb	1.3602	155.1	-9.3797
Sr 216.596	10.4771	ppb	0.1353	1.3	184.541
Ti 334.941	1.5682	ppb	0.0096	0.6	446.612
Tl 190.794	-2.2056	ppb	1.6022	72.6	-12.8038
V 292.401	1.0156	ppb	0.1196	11.8	21.2290
Zn 206.200	2.7808	ppb	1.2861	46.3	5.0561

680-92761-a-3-d SD^5 (Samp) **8/2/2013, 7:17:09 PM** **Rack 2, Tube 35**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.1464	-0.1473u	0.2311
Al 308.215	109.924	109.313	108.485
As 188.980	-4.3025u	-0.7580u	-2.5314u
B 249.678	0.8724	0.3113	0.7084
Ba 389.178	4.8999	5.3077	4.2596
Be 313.042	-0.0274u	-0.0316u	-0.0213u
Ca 370.602	230.3	229.9	223.5
Cd 226.502	-0.0459u	-0.2003u	-0.0855u
Co 228.615	-0.0475u	-0.2069u	0.6359
Cr 267.716	0.0179	0.1908	0.1460
Cu 324.754	-0.2123u	0.3454	0.2381
Fe 271.441	314.392	303.018	307.963
K 766.491	90.1587	90.8936	90.2412
Mg 279.078	126.186	122.610	125.525
Mn 257.610	12.5099	12.3822	12.2911
Mo 202.032	-0.1787u	-0.3423u	-0.4697u
Na 330.237	126.604	334.266	465.941
Ni 231.604	-0.4853u	-0.3889u	0.3629
Pb 220.353	1.0184	-0.6249u	-1.1262u
Sb 206.834	0.9183	4.0354	1.5608
Se 196.026	-3.9560u	3.5002	-2.8535u
Sn 189.925	-0.4732u	-0.7520u	0.5457
Sr 216.596	2.2856	2.1712	2.3097
Ti 334.941	0.5401	0.3519	0.2999
Tl 190.794	-4.0484u	-1.4737u	1.5783
V 292.401	0.5241	0.1627	0.0610
Zn 206.200	0.6876	0.5875	1.5308

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0767	ppb	0.1986	258.8	0.3333
Al 308.215	109.241	ppb	0.7224	0.7	1051.59
As 188.980	-2.5306	ppb	1.7722	70.0	-11.0067
B 249.678	0.6307	ppb	0.2885	45.7	136.657
Ba 389.178	4.8224	ppb	0.5283	11.0	124.781
Be 313.042	-0.0267	ppb	0.0052	19.4	-184.859
Ca 370.602	227.9	ppb	3.825	1.7	665.2
Cd 226.502	-0.1105	ppb	0.0802	72.5	16.1008
Co 228.615	0.1272	ppb	0.4478	352.1	-6.8547
Cr 267.716	0.1183	ppb	0.0897	75.9	39.8796
Cu 324.754	0.1238	ppb	0.2959	239.1	87.8354
Fe 271.441	308.457	ppb	5.7029	1.8	574.199
K 766.491	90.4312	ppb	0.4026	0.4	3434.17
Mg 279.078	124.774	ppb	1.9026	1.5	392.280
Mn 257.610	12.3944	ppb	0.1099	0.9	3397.90
Mo 202.032	-0.3302	ppb	0.1459	44.2	6.2702
Na 330.237	308.937	ppb	171.080	55.4	67.6416
Ni 231.604	-0.1704	ppb	0.4644	272.5	-3.7310
Pb 220.353	-0.2442	ppb	1.1218	459.4	17.5966
Sb 206.834	2.1715	ppb	1.6459	75.8	8.7673
Se 196.026	-1.1031	ppb	4.0245	364.8	-1.3055
Sn 189.925	-0.2265	ppb	0.6831	301.6	-8.6649
Sr 216.596	2.2555	ppb	0.0740	3.3	48.9618
Ti 334.941	0.3973	ppb	0.1264	31.8	81.0090
Tl 190.794	-1.3146	ppb	2.8167	214.3	-11.4086
V 292.401	0.2492	ppb	0.2434	97.7	-1.4412
Zn 206.200	0.9353	ppb	0.5181	824.4	1.8879

680-92761-a-3-d PDS (Samp) **8/2/2013, 7:21:46 PM** **Rack 2, Tube 36**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	40.0587	39.8863	40.1185
Al 308.215	2313.64	2326.31	2320.72
As 188.980	199.121	202.066	200.012
B 249.678	465.408	467.452	466.877
Ba 389.178	220.935	222.140	221.310
Be 313.042	49.6429	49.6973	49.5638
Ca 370.602	2826	2846	2848
Cd 226.502	49.5403	49.6213	49.6975
Co 228.615	201.523	200.895	200.845
Cr 267.716	202.930	203.505	202.781
Cu 324.754	206.127	208.916	206.666
Fe 271.441	3356.18	3359.20	3339.91
K 766.491	2327.40	2316.86	2299.24
Mg 279.078	2506.89	2511.39	2515.39
Mn 257.610	257.992	259.001	258.588
Mo 202.032	202.666	203.685	204.681
Na 330.237	3402.43	3367.25	3678.78
Ni 231.604	197.392	196.990	199.739
Pb 220.353	196.027	198.433	199.229
Sb 206.834	189.689	195.037	192.081
Se 196.026	187.966	197.680	196.795
Sn 189.925	205.116	200.130	197.713
Sr 216.596	211.132	211.609	212.207
Ti 334.941	199.014	199.480	199.022
Tl 190.794	195.551	194.274	193.582
V 292.401	201.718	201.584	201.123
Zn 206.200	202.362	201.311	203.316

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	40.0212	ppb	0.1206	0.3	2980.43
Al 308.215	2320.22	ppb	6.3503	0.3	17046.5
As 188.980	200.400	ppb	1.5105	0.8	167.760
B 249.678	466.579	ppb	1.0544	0.2	8185.20
Ba 389.178	221.462	ppb	0.6165	0.3	5678.33
Be 313.042	49.6347	ppb	0.0671	0.1	98488.4
Ca 370.602	2840	ppb	11.98	0.4	8501
Cd 226.502	49.6197	ppb	0.0786	0.2	2802.19
Co 228.615	201.087	ppb	0.3780	0.2	2806.70
Cr 267.716	203.072	ppb	0.3821	0.2	12152.4
Cu 324.754	207.236	ppb	1.4793	0.7	13164.5
Fe 271.441	3351.77	ppb	10.3740	0.3	6062.18
K 766.491	2314.50	ppb	14.2285	0.6	81648.1
Mg 279.078	2511.22	ppb	4.2542	0.2	7218.56
Mn 257.610	258.527	ppb	0.5072	0.2	68945.8
Mo 202.032	203.677	ppb	1.0071	0.5	1706.99
Na 330.237	3482.82	ppb	170.620	4.9	235.524
Ni 231.604	198.041	ppb	1.4849	0.7	752.675
Pb 220.353	197.896	ppb	1.6672	0.8	419.049
Sb 206.834	192.269	ppb	2.6785	1.4	314.935
Se 196.026	194.147	ppb	5.3710	2.8	108.857
Sn 189.925	200.987	ppb	3.7751	1.9	212.801
Sr 216.596	211.649	ppb	0.5382	0.3	3457.93
Ti 334.941	199.172	ppb	0.2667	0.1	61780.9
Tl 190.794	194.469	ppb	0.9990	0.5	268.983
V 292.401	201.475	ppb	0.3120	0.2	5907.22
Zn 206.200	202.329	ppb	1.0029	0.5	345.677

680-92761-a-3-e ms (Samp) **8/2/2013, 7:35:32 PM** **Rack 2, Tube 39**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	53.1836	53.5822	53.1322
Al 308.215	5421.69	5400.51	5424.46
As 188.980	103.972	104.843	107.632
B 249.678	204.233	201.931	203.394
Ba 389.178	127.978	128.117	128.604
Be 313.042	52.3841	52.2439	52.4275
Ca 370.602	6213	6202	6198
Cd 226.502	52.3722	52.4192	52.2889
Co 228.615	54.0972	53.8423	55.0383
Cr 267.716	109.529	109.281	109.417
Cu 324.754	109.849	109.373	109.396
Fe 271.441	6592.26	6561.57	6594.08
K 766.491	5531.36	5504.30	5549.53
Mg 279.078	5726.41	5705.25	5723.34
Mn 257.610	598.096	595.423	596.723
Mo 202.032	107.145	106.592	105.789
Na 330.237	6553.86	6279.93	6538.02
Ni 231.604	105.058	105.996	106.972
Pb 220.353	50.8936	52.9254	50.3831
Sb 206.834	49.7262	52.9231	52.6607
Se 196.026	111.475	102.696	107.534
Sn 189.925	205.993	210.474	207.622
Sr 216.596	118.669	117.767	118.710
Ti 334.941	104.903	104.591	105.006
Tl 190.794	41.5160	42.3931	38.6156
V 292.401	107.367	106.704	107.157
Zn 206.200	105.547	105.082	105.874

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	53.2993	ppb	0.2463	0.5	3978.55
Al 308.215	5415.55	ppb	13.1009	0.2	39512.1
As 188.980	105.482	ppb	1.9121	1.8	84.1396
B 249.678	203.186	ppb	1.1652	0.6	3623.61
Ba 389.178	128.233	ppb	0.3288	0.3	3307.68
Be 313.042	52.3518	ppb	0.0959	0.2	103910
Ca 370.602	6204	ppb	7.664	0.1	18464
Cd 226.502	52.3601	ppb	0.0660	0.1	2968.81
Co 228.615	54.3259	ppb	0.6299	1.2	751.915
Cr 267.716	109.409	ppb	0.1242	0.1	6566.16
Cu 324.754	109.540	ppb	0.2683	0.2	6997.82
Fe 271.441	6582.64	ppb	18.2651	0.3	11836.3
K 766.491	5528.40	ppb	22.7589	0.4	194671
Mg 279.078	5718.33	ppb	11.4368	0.2	16391.9
Mn 257.610	596.747	ppb	1.3367	0.2	159014
Mo 202.032	106.509	ppb	0.6822	0.6	896.665
Na 330.237	6457.27	ppb	153.786	2.4	398.291
Ni 231.604	106.009	ppb	0.9567	0.9	401.771
Pb 220.353	51.4007	ppb	1.3449	2.6	122.614
Sb 206.834	51.7700	ppb	1.7748	3.4	89.1110
Se 196.026	107.235	ppb	4.3973	4.1	59.9646
Sn 189.925	208.029	ppb	2.2682	1.1	220.556
Sr 216.596	118.382	ppb	0.5331	0.5	1946.59
Ti 334.941	104.834	ppb	0.2158	0.2	32520.3
Tl 190.794	40.8416	ppb	1.9770	4.8	48.1479
V 292.401	107.076	ppb	0.3387	0.3	3135.51
Zn 206.200	105.501	ppb	0.3981	0.4	180.425

680-92761-a-3-f msd (Samp) **8/2/2013, 7:40:08 PM** **Rack 2, Tube 40**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	53.1675	53.0687	51.4621
Al 308.215	5333.52	5312.27	5294.58
As 188.980	105.413	105.219	105.123
B 249.678	200.072	200.321	199.053
Ba 389.178	125.402	125.731	125.301
Be 313.042	51.9739	51.5894	51.2794
Ca 370.602	6105	6121	6107
Cd 226.502	51.4909	51.4702	51.4761
Co 228.615	54.1916	54.4037	53.5329
Cr 267.716	108.166	107.627	107.028
Cu 324.754	109.479	108.965	107.164
Fe 271.441	6490.07	6466.56	6438.62
K 766.491	5492.22	5467.23	5414.95
Mg 279.078	5650.35	5628.17	5600.54
Mn 257.610	588.691	586.711	584.202
Mo 202.032	105.819	105.048	104.477
Na 330.237	6451.45	6442.80	6498.92
Ni 231.604	104.997	103.872	102.939
Pb 220.353	50.6280	50.6809	51.8274
Sb 206.834	52.5319	50.0116	52.3054
Se 196.026	96.8596	105.847	106.439
Sn 189.925	205.218	208.081	202.040
Sr 216.596	116.739	116.632	115.916
Ti 334.941	103.553	102.888	102.445
Tl 190.794	36.9033	41.0630	38.6335
V 292.401	105.618	105.390	104.705
Zn 206.200	105.939	106.678	105.931

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	52.5661	ppb	0.9574	1.8	3923.74
Al 308.215	5313.45	ppb	19.4969	0.4	38772.0
As 188.980	105.252	ppb	0.1477	0.1	83.9372
B 249.678	199.816	ppb	0.6715	0.3	3565.63
Ba 389.178	125.478	ppb	0.2248	0.2	3236.73
Be 313.042	51.6142	ppb	0.3479	0.7	102444
Ca 370.602	6111	ppb	8.661	0.1	18187
Cd 226.502	51.4791	ppb	0.0106	0.0	2919.16
Co 228.615	54.0427	ppb	0.4541	0.8	747.943
Cr 267.716	107.607	ppb	0.5692	0.5	6458.53
Cu 324.754	108.536	ppb	1.2158	1.1	6934.41
Fe 271.441	6465.08	ppb	25.7593	0.4	11625.4
K 766.491	5458.13	ppb	39.4291	0.7	192200
Mg 279.078	5626.35	ppb	24.9560	0.4	16128.8
Mn 257.610	586.534	ppb	2.2497	0.4	156294
Mo 202.032	105.115	ppb	0.6735	0.6	885.054
Na 330.237	6464.39	ppb	30.2185	0.5	398.719
Ni 231.604	103.936	ppb	1.0302	1.0	393.853
Pb 220.353	51.0454	ppb	0.6777	1.3	121.887
Sb 206.834	51.6163	ppb	1.3943	2.7	88.8547
Se 196.026	103.048	ppb	5.3678	5.2	57.6007
Sn 189.925	205.113	ppb	3.0219	1.5	217.346
Sr 216.596	116.429	ppb	0.4474	0.4	1914.65
Ti 334.941	102.962	ppb	0.5580	0.5	31939.0
Tl 190.794	38.8666	ppb	2.0896	5.4	45.3401
V 292.401	105.238	ppb	0.4750	0.5	3081.47
Zn 206.200	106.183	ppb	0.4290	0.4	181.597

680-92761-a-4-b (Samp) **8/2/2013, 7:44:44 PM** **Rack 2, Tube 41**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	-0.3511u	-0.3816u	0.2841
Al 308.215	552.264	552.327	551.927
As 188.980	-1.2029u	0.1557	-6.3483u
B 249.678	8.4632	8.5970	8.0673
Ba 389.178	19.2125	18.3886	18.6528
Be 313.042	0.0273	0.0229	0.0255
Ca 370.602	333.9	326.7	331.6
Cd 226.502	0.0184	0.0615	-0.1874u
Co 228.615	0.9724	1.0881	1.1587
Cr 267.716	0.5555	0.3855	0.6535
Cu 324.754	0.5649	0.1943	0.4369
Fe 271.441	491.666	493.598	483.572
K 766.491	494.175	492.649	493.586
Mg 279.078	402.040	400.915	399.639
Mn 257.610	14.1618	14.1788	14.1368
Mo 202.032	-0.3754u	0.0079	-0.3670u
Na 330.237	1447.81	1603.69	1379.15
Ni 231.604	0.3684	0.8809	0.6170
Pb 220.353	-0.4327u	-0.0363u	2.9878
Sb 206.834	-0.8191u	1.3247	2.2011
Se 196.026	-1.1809u	5.5956	6.0565
Sn 189.925	-0.3931u	1.8074	0.5284
Sr 216.596	5.2422	5.0622	5.1787
Ti 334.941	2.8034	2.7446	2.6613
Tl 190.794	-0.4763u	-1.1742u	0.2626
V 292.401	1.0035	0.9763	0.9121
Zn 206.200	3.0704	3.7154	4.3189

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1495	ppb	0.3758	251.3	-16.7076
Al 308.215	552.172	ppb	0.2150	0.0	4263.26
As 188.980	-2.4652	ppb	3.4308	139.2	-10.9453
B 249.678	8.3758	ppb	0.2754	3.3	270.134
Ba 389.178	18.7513	ppb	0.4207	2.2	482.074
Be 313.042	0.0252	ppb	0.0022	8.8	-81.7668
Ca 370.602	330.7	ppb	3.707	1.1	966.1
Cd 226.502	-0.0358	ppb	0.1330	371.3	21.0341
Co 228.615	1.0731	ppb	0.0940	8.8	6.4600
Cr 267.716	0.5315	ppb	0.1356	25.5	64.6307
Cu 324.754	0.3987	ppb	0.1883	47.2	105.249
Fe 271.441	489.612	ppb	5.3193	1.1	899.263
K 766.491	493.470	ppb	0.7695	0.2	17607.8
Mg 279.078	400.865	ppb	1.2012	0.3	1182.48
Mn 257.610	14.1591	ppb	0.0211	0.1	3870.79
Mo 202.032	-0.2448	ppb	0.2189	89.4	6.9707
Na 330.237	1476.88	ppb	115.061	7.8	131.109
Ni 231.604	0.6221	ppb	0.2563	41.2	-0.7019
Pb 220.353	0.8396	ppb	1.8709	222.8	19.7978
Sb 206.834	0.9023	ppb	1.5538	172.2	6.7305
Se 196.026	3.4904	ppb	4.0520	116.1	1.2854
Sn 189.925	0.6475	ppb	1.1051	170.7	-7.7024
Sr 216.596	5.1610	ppb	0.0913	1.8	96.5703
Ti 334.941	2.7364	ppb	0.0714	2.6	808.284
Tl 190.794	-0.4627	ppb	0.7185	155.3	-10.2034
V 292.401	0.9640	ppb	0.0469	4.9	19.6917
Zn 206.200	3.7015	ppb	0.6244	16.9	6.6215

680-92761-a-5-b (Samp) **8/2/2013, 7:49:19 PM** **Rack 2, Tube 42**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.3229	-0.0396u	0.2368
Al 308.215	445.011	441.674	438.734
As 188.980	-2.5033u	0.5715	-1.8669u
B 249.678	7.3747	7.3033	6.6286
Ba 389.178	26.9738	26.5107	26.3225
Be 313.042	0.0355	0.0222	0.0322
Ca 370.602	629.5	624.1	624.9
Cd 226.502	-0.1066u	-0.1037u	-0.0484
Co 228.615	0.7309	0.1782	1.4953
Cr 267.716	0.6024	0.5473	0.4982
Cu 324.754	10.4783	10.8900	10.8624
Fe 271.441	647.073	640.466	636.004
K 766.491	294.250	292.227	292.373
Mg 279.078	391.322	389.751	387.616
Mn 257.610	25.1482	25.0012	24.8688
Mo 202.032	-0.3962u	-0.0197u	0.0540
Na 330.237	1235.92	1393.88	1264.11
Ni 231.604	0.8135	0.5546	0.9080
Pb 220.353	2.0013	2.6890	2.2360
Sb 206.834	1.5185	1.8274	-1.2692u
Se 196.026	-0.4233u	2.5665	6.5019
Sn 189.925	1.0724	1.5485	0.1246
Sr 216.596	8.6136	8.1099	7.9025
Ti 334.941	1.6529	1.7074	1.5986
Tl 190.794	-3.1607u	-2.9200u	1.8715
V 292.401	1.2544	0.7030	0.7554
Zn 206.200	10.4425	9.6929	8.9231

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1734	ppb	0.1894	109.3	7.3467
Al 308.215	441.806	ppb	3.1407	0.7	3462.99
As 188.980	-1.2662	ppb	1.6230	128.2	-9.8923
B 249.678	7.1022	ppb	0.4117	5.8	247.749
Ba 389.178	26.6023	ppb	0.3352	1.3	683.055
Be 313.042	0.0300	ppb	0.0069	23.1	-72.1701
Ca 370.602	626.2	ppb	2.916	0.5	1854
Cd 226.502	-0.0863	ppb	0.0328	38.0	18.8718
Co 228.615	0.8015	ppb	0.6614	82.5	2.6288
Cr 267.716	0.5493	ppb	0.0521	9.5	65.7920
Cu 324.754	10.7436	ppb	0.2301	2.1	758.177
Fe 271.441	641.181	ppb	5.5689	0.9	1171.08
K 766.491	292.950	ppb	1.1284	0.4	10556.1
Mg 279.078	389.563	ppb	1.8597	0.5	1149.97
Mn 257.610	25.0061	ppb	0.1398	0.6	6758.41
Mo 202.032	-0.1206	ppb	0.2415	200.2	7.9978
Na 330.237	1297.97	ppb	84.2522	6.5	121.237
Ni 231.604	0.7587	ppb	0.1830	24.1	-0.1747
Pb 220.353	2.3088	ppb	0.3496	15.1	22.7955
Sb 206.834	0.6922	ppb	1.7057	246.4	6.3957
Se 196.026	2.8817	ppb	3.4733	120.5	0.9459
Sn 189.925	0.9152	ppb	0.7248	79.2	-7.4077
Sr 216.596	8.2087	ppb	0.3657	4.5	146.495
Ti 334.941	1.6529	ppb	0.0544	3.3	471.984
Tl 190.794	-1.4031	ppb	2.8384	202.3	-11.5707
V 292.401	0.9042	ppb	0.3043	33.7	17.8851
Zn 206.200	9.6862	ppb	0.7597	7.8	16.8636

680-92761-a-6-b (Samp) **8/2/2013, 7:53:55 PM** **Rack 2, Tube 43**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	0.1234	-0.3570u	-0.0601u
Al 308.215	245.548	243.457	243.820
As 188.980	-0.7908u	-2.0825u	-0.5376u
B 249.678	5.7185	5.6161	5.4621
Ba 389.178	17.5830	17.5054	17.7339
Be 313.042	0.0015	0.0045	0.0089
Ca 370.602	1481	1479	1482
Cd 226.502	0.0075	-0.0456	-0.0448
Co 228.615	1.8991	0.9922	1.7501
Cr 267.716	0.9600	0.9963	0.8434
Cu 324.754	1.1826	1.2469	1.0598
Fe 271.441	1240.88	1232.49	1229.93
K 766.491	302.198	299.527	300.499
Mg 279.078	832.585	830.015	832.642
Mn 257.610	102.837	102.234	102.472
Mo 202.032	-0.1587u	0.0318	-0.2460u
Na 330.237	2464.47	2456.90	2241.53
Ni 231.604	2.7678	2.4033	2.3960
Pb 220.353	2.5996	-0.3140u	2.1163
Sb 206.834	0.4690	-0.1920u	2.6202
Se 196.026	0.4720	-1.4828u	-1.7882u
Sn 189.925	-2.2082u	-0.9166u	-1.5444u
Sr 216.596	12.5396	12.5755	12.6495
Ti 334.941	1.6058	1.7482	1.6648
Tl 190.794	-2.6298u	-1.1246u	-3.3885u
V 292.401	0.8129	0.9343	0.8698
Zn 206.200	5.2770	6.5166	6.0524

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0979	ppb	0.2424	247.6	-12.8119
Al 308.215	244.275	ppb	1.1174	0.5	2030.58
As 188.980	-1.1370	ppb	0.8286	72.9	-9.7895
B 249.678	5.5989	ppb	0.1291	2.3	220.324
Ba 389.178	17.6074	ppb	0.1162	0.7	455.235
Be 313.042	0.0050	ppb	0.0037	74.8	-121.782
Ca 370.602	1481	ppb	1.738	0.1	4414
Cd 226.502	-0.0276	ppb	0.0304	110.0	24.6973
Co 228.615	1.5471	ppb	0.4863	31.4	13.1033
Cr 267.716	0.9333	ppb	0.0799	8.6	89.3233
Cu 324.754	1.1631	ppb	0.0950	8.2	153.772
Fe 271.441	1234.43	ppb	5.7240	0.5	2235.27
K 766.491	300.741	ppb	1.3522	0.4	10830.1
Mg 279.078	831.747	ppb	1.5001	0.2	2414.37
Mn 257.610	102.514	ppb	0.3035	0.3	27395.7
Mo 202.032	-0.1243	ppb	0.1421	114.3	7.9330
Na 330.237	2387.63	ppb	126.584	5.3	180.416
Ni 231.604	2.5223	ppb	0.2126	8.4	6.5757
Pb 220.353	1.4673	ppb	1.5615	106.4	21.1655
Sb 206.834	0.9657	ppb	1.4705	152.3	6.8649
Se 196.026	-0.9330	ppb	1.2263	131.4	-1.1806
Sn 189.925	-1.5564	ppb	0.6459	41.5	-10.1269
Sr 216.596	12.5882	ppb	0.0560	0.4	218.789
Ti 334.941	1.6729	ppb	0.0715	4.3	480.365
Tl 190.794	-2.3810	ppb	1.1523	48.4	-13.0723
V 292.401	0.8723	ppb	0.0607	7.0	16.9302
Zn 206.200	5.9487	ppb	0.6263	10.5	10.4738

mb 680-287240/1-a (Samp) **8/2/2013, 7:58:30 PM** **Rack 2, Tube 44**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.2567	0.1507	0.0391
Al 308.215	-0.3213u	0.9420	0.6201
As 188.980	1.3675	-5.2005u	1.7896
B 249.678	2.5353	2.8532	2.3905
Ba 389.178	-0.5356u	-0.3102u	-0.8780u
Be 313.042	-0.0304u	-0.0357u	-0.0350u
Ca 370.602	1.835	2.862	3.037
Cd 226.502	-0.1130u	-0.0786u	-0.0108u
Co 228.615	0.6351	0.3876	0.2728
Cr 267.716	0.1996	-0.1896u	-0.1254u
Cu 324.754	-0.2854u	-0.0849u	0.5078
Fe 271.441	-3.1741u	-4.5767u	-2.5145u
K 766.491	-1.8528u	-2.3786u	-2.5674u
Mg 279.078	-1.7276u	0.0244	-1.8093u
Mn 257.610	-0.2186u	-0.2054u	-0.2213u
Mo 202.032	-0.6907u	-0.4526u	0.1055
Na 330.237	-2.2663u	200.615	-136.335u
Ni 231.604	-1.0549u	0.9712	-0.8163u
Pb 220.353	-1.2759u	-1.7617u	-1.1806u
Sb 206.834	-0.7676u	-1.4692u	2.2529
Se 196.026	0.1263	-4.1290u	3.2227
Sn 189.925	2.0032	3.9642	1.0338
Sr 216.596	-0.3271u	-0.2381u	-0.9503u
Ti 334.941	-0.0284u	-0.0257u	-0.0764u
Tl 190.794	-1.7650u	-0.5561u	-0.6794u
V 292.401	0.1049	-0.3338u	-0.2240u
Zn 206.200	1.1120	-0.9506u	-0.2425u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1488	ppb	0.1088	73.1	5.7897
Al 308.215	0.4136	ppb	0.6565	158.7	262.502
As 188.980	-0.6811	ppb	3.9196	575.5	-9.3738
B 249.678	2.5930	ppb	0.2367	9.1	171.330
Ba 389.178	-0.5746	ppb	0.2859	49.8	-14.0918
Be 313.042	-0.0337	ppb	0.0029	8.6	-198.638
Ca 370.602	2.578	ppb	0.6497	25.2	2.001
Cd 226.502	-0.0675	ppb	0.0520	77.0	17.1702
Co 228.615	0.4318	ppb	0.1852	42.9	-2.6139
Cr 267.716	-0.0385	ppb	0.2087	542.3	30.3614
Cu 324.754	0.0458	ppb	0.4125	899.7	82.8046
Fe 271.441	-3.4218	ppb	1.0532	30.8	14.8394
K 766.491	-2.2662	ppb	0.3703	16.3	174.280
Mg 279.078	-1.1708	ppb	1.0359	88.5	31.9760
Mn 257.610	-0.2151	ppb	0.0085	4.0	39.3169
Mo 202.032	-0.3459	ppb	0.4087	118.1	6.1580
Na 330.237	20.6713	ppb	169.642	820.7	52.0691
Ni 231.604	-0.3000	ppb	1.1073	369.1	-4.2362
Pb 220.353	-1.4060	ppb	0.3116	22.2	15.2137
Sb 206.834	0.0054	ppb	1.9778	36836.2	5.2616
Se 196.026	-0.2600	ppb	3.6910	1419.7	-0.8350
Sn 189.925	2.3337	ppb	1.4929	64.0	-5.8473
Sr 216.596	-0.5052	ppb	0.3881	76.8	3.5114
Ti 334.941	-0.0435	ppb	0.0285	65.5	-56.4478
Tl 190.794	-1.0002	ppb	0.6652	66.5	-10.9210
V 292.401	-0.1510	ppb	0.2282	151.2	-13.2686
Zn 206.200	-0.0270	ppb	1.0480	3881.0	0.2382

lcs 680-287240/2-a (Samp) **8/2/2013, 8:03:06 PM** **Rack 2, Tube 45**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	56.7109	55.0618	55.8327
Al 308.215	4818.53	4797.71	4800.69
As 188.980	105.920	111.449	104.105
B 249.678	196.508	195.884	195.626
Ba 389.178	103.638	104.771	105.132
Be 313.042	51.7662	51.5998	51.7473
Ca 370.602	5079	5055	5065
Cd 226.502	51.8579	51.3001	51.4422
Co 228.615	52.6262	52.7877	53.0579
Cr 267.716	107.280	106.951	107.015
Cu 324.754	106.788	106.770	107.548
Fe 271.441	5069.35	5045.18	5064.01
K 766.491	5031.72	5019.85	5018.26
Mg 279.078	5071.10	5041.72	5062.35
Mn 257.610	536.026	534.249	534.701
Mo 202.032	105.831	105.306	104.967
Na 330.237	4878.45	4887.17	4767.73
Ni 231.604	104.772	104.139	104.157
Pb 220.353	50.4509	53.1813	51.2782
Sb 206.834	56.7388	48.2464	52.0679
Se 196.026	107.336	104.727	110.806
Sn 189.925	205.279	206.026	209.799
Sr 216.596	106.367	105.445	106.297
Ti 334.941	101.596	101.364	101.409
Tl 190.794	42.0508	39.8867	38.4633
V 292.401	104.805	104.106	104.501
Zn 206.200	102.461	102.068	102.499

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	55.8685	ppb	0.8251	1.5	4170.95
Al 308.215	4805.64	ppb	11.2565	0.2	35089.9
As 188.980	107.158	ppb	3.8254	3.6	85.6296
B 249.678	196.006	ppb	0.4540	0.2	3503.14
Ba 389.178	104.514	ppb	0.7796	0.7	2696.77
Be 313.042	51.7044	ppb	0.0911	0.2	102623
Ca 370.602	5066	ppb	11.94	0.2	15109
Cd 226.502	51.5334	ppb	0.2899	0.6	2916.18
Co 228.615	52.8239	ppb	0.2181	0.4	730.763
Cr 267.716	107.082	ppb	0.1745	0.2	6426.47
Cu 324.754	107.035	ppb	0.4445	0.4	6839.19
Fe 271.441	5059.52	ppb	12.6958	0.3	9104.16
K 766.491	5023.28	ppb	7.3540	0.1	176908
Mg 279.078	5058.39	ppb	15.0858	0.3	14503.8
Mn 257.610	534.992	ppb	0.9236	0.2	142565
Mo 202.032	105.368	ppb	0.4356	0.4	887.246
Na 330.237	4844.45	ppb	66.5852	1.4	311.050
Ni 231.604	104.356	ppb	0.3600	0.3	395.418
Pb 220.353	51.6368	ppb	1.4000	2.7	122.964
Sb 206.834	52.3510	ppb	4.2533	8.1	89.9771
Se 196.026	107.623	ppb	3.0499	2.8	60.1599
Sn 189.925	207.034	ppb	2.4228	1.2	219.459
Sr 216.596	106.036	ppb	0.5131	0.5	1743.18
Ti 334.941	101.456	ppb	0.1226	0.1	31468.9
Tl 190.794	40.1336	ppb	1.8065	4.5	47.3090
V 292.401	104.470	ppb	0.3506	0.3	3058.73
Zn 206.200	102.343	ppb	0.2384	0.2	175.013

680-92704-a-1-c (Samp) **8/2/2013, 8:07:42 PM** **Rack 2, Tube 46**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	-0.1530u	-0.0358u	-0.0356u
Al 308.215	353.109	336.518	346.760
As 188.980	0.3765	4.3126	0.4750
B 249.678	81.1101	77.8248	80.8074
Ba 389.178	62.6374	60.7066	62.8559
Be 313.042	-0.0416u	-0.0443u	-0.0379u
Ca 370.602	109629	105957	109319
Cd 226.502	-0.1400u	-0.1141u	-0.1244u
Co 228.615	-0.2451u	-0.0489u	-0.1922u
Cr 267.716	0.5909	0.5794	0.9636
Cu 324.754	3.1507	3.2297	3.1991
Fe 271.441	677.090	636.817	663.613
K 766.491	3756.13	3648.95	3753.28
Mg 279.078	39745.7	38293.0	39462.7
Mn 257.610	24.4793	23.5160	24.2971
Mo 202.032	-0.5455u	-0.0382u	-0.1111u
Na 330.237	139963x	135245x	140069x
Ni 231.604	3.0178	3.9919	3.8957
Pb 220.353	-0.8564u	1.0975	1.6337
Sb 206.834	-0.8327u	-0.5101u	0.1186
Se 196.026	6.8173	2.2438	-2.2614u
Sn 189.925	-0.9624u	2.1914	1.0353
Sr 216.596	744.681	716.250	738.646
Ti 334.941	3.0426	2.8877	2.9707
Tl 190.794	-5.3311u	-5.2922u	-0.9180u
V 292.401	1.4268	1.5824	1.3691
Zn 206.200	20.7272	21.4593	22.6232

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0748b	ppb	0.0677	90.5	-44.8341
Al 308.215	345.462b	ppb	8.3715	2.4	2764.29
As 188.980	1.7214b	ppb	2.2446	130.4	-7.2607
B 249.678	79.9141b	ppb	1.8157	2.3	1506.58
Ba 389.178	62.0666b	ppb	1.1829	1.9	1702.09
Be 313.042	-0.0413b	ppb	0.0032	7.7	-192.055
Ca 370.602	108302b	ppb	2037	1.9	329863
Cd 226.502	-0.1262b	ppb	0.0130	10.3	16.3021
Co 228.615	-0.1621b	ppb	0.1015	62.6	-10.8024
Cr 267.716	0.7113b	ppb	0.2186	30.7	78.5232
Cu 324.754	3.1932b	ppb	0.0398	1.2	281.663
Fe 271.441	659.173b	ppb	20.5002	3.1	1203.23
K 766.491	3719.45b	ppb	61.0743	1.6	131056
Mg 279.078	39167.1b	ppb	770.121	2.0	112160
Mn 257.610	24.0975b	ppb	0.5117	2.1	6881.90
Mo 202.032	-0.2316b	ppb	0.2743	118.4	7.0703
Na 330.237	138426xb	ppb	2755.10	2.0	7585.27
Ni 231.604	3.6351b	ppb	0.5368	14.8	10.8132
Pb 220.353	0.6249b	ppb	1.3106	209.7	19.3849
Sb 206.834	-0.4081b	ppb	0.4838	118.6	4.6266
Se 196.026	2.2666b	ppb	4.5394	200.3	0.5993
Sn 189.925	0.7548b	ppb	1.5955	211.4	-7.4580
Sr 216.596	733.192b	ppb	14.9795	2.0	11982.2
Ti 334.941	2.9670b	ppb	0.0775	2.6	1062.13
Tl 190.794	-3.8471b	ppb	2.5368	65.9	-15.0714
V 292.401	1.4594b	ppb	0.1103	7.6	33.6906
Zn 206.200	21.6032b	ppb	0.9562	4.4	37.2544

680-92717-f-1-g (Samp) **8/2/2013, 8:12:17 PM** **Rack 2, Tube 47**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.0224	0.4649	-0.1824u
Al 308.215	94.3342	93.9779	94.9816
As 188.980	-0.2797u	-4.3217u	-4.2571u
B 249.678	10.6808	10.3414	10.3911
Ba 389.178	28.5019	28.4840	28.2758
Be 313.042	-0.0192u	-0.0138u	-0.0107u
Ca 370.602	4774	4741	4720
Cd 226.502	0.0090	-0.1580u	-0.1857u
Co 228.615	0.0848	0.3020	0.3441
Cr 267.716	0.1452	0.3444	0.0712
Cu 324.754	1.2282	1.5435	1.8582
Fe 271.441	458.422	467.595	456.983
K 766.491	2446.21	2417.17	2395.37
Mg 279.078	2050.00	2036.13	2025.80
Mn 257.610	138.333	137.629	136.826
Mo 202.032	0.2649	0.1366	-0.2981u
Na 330.237	4294.08	4277.43	4136.56
Ni 231.604	-0.4081u	0.3803	0.0121
Pb 220.353	0.0327	1.7410	-1.0095u
Sb 206.834	2.8727	2.2051	3.5638
Se 196.026	-1.5361u	-0.6880u	-3.1957u
Sn 189.925	-0.6639u	0.0033	-1.7754u
Sr 216.596	45.0961	44.6879	44.1264
Ti 334.941	2.5458	2.3499	2.3434
Tl 190.794	-1.9812u	-1.1336u	-2.3267u
V 292.401	1.0579	1.4069	1.1063
Zn 206.200	1.2457	0.9481	0.8109

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1016	ppb	0.3308	325.5	0.8282
Al 308.215	94.4312	ppb	0.5089	0.5	944.022
As 188.980	-2.9528	ppb	2.3152	78.4	-11.3813
B 249.678	10.4711	ppb	0.1833	1.8	306.431
Ba 389.178	28.4206	ppb	0.1257	0.4	734.044
Be 313.042	-0.0146	ppb	0.0043	29.4	-159.901
Ca 370.602	4745	ppb	27.13	0.6	14418
Cd 226.502	-0.1116	ppb	0.1054	94.4	16.6991
Co 228.615	0.2436	ppb	0.1392	57.1	-5.1701
Cr 267.716	0.1869	ppb	0.1413	75.6	44.7802
Cu 324.754	1.5433	ppb	0.3150	20.4	177.477
Fe 271.441	461.000	ppb	5.7564	1.2	847.830
K 766.491	2419.58	ppb	25.5089	1.1	85343.4
Mg 279.078	2037.31	ppb	12.1427	0.6	5864.70
Mn 257.610	137.596	ppb	0.7542	0.5	36742.7
Mo 202.032	0.0345	ppb	0.2950	855.7	9.3011
Na 330.237	4236.02	ppb	86.5423	2.0	281.353
Ni 231.604	-0.0052	ppb	0.3945	7520.8	-3.0961
Pb 220.353	0.2547	ppb	1.3886	545.2	18.6527
Sb 206.834	2.8805	ppb	0.6794	23.6	9.9109
Se 196.026	-1.8066	ppb	1.2756	70.6	-1.6662
Sn 189.925	-0.8120	ppb	0.8985	110.7	-9.3049
Sr 216.596	44.6368	ppb	0.4868	1.1	740.767
Ti 334.941	2.4130	ppb	0.1150	4.8	715.840
Tl 190.794	-1.8138	ppb	0.6139	33.8	-12.2191
V 292.401	1.1903	ppb	0.1891	15.9	26.3660
Zn 206.200	1.0016	ppb	0.2223	22.2	2.0027

680-92717-f-1-h ms (Samp) **8/2/2013, 8:16:54 PM** **Rack 2, Tube 48**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	54.5331	54.4823	54.4987
Al 308.215	4933.07	4934.68	4941.80
As 188.980	106.951	103.492	107.195
B 249.678	203.464	204.497	205.008
Ba 389.178	132.110	132.003	132.374
Be 313.042	51.7908	51.8197	51.7017
Ca 370.602	9533	9558	9605
Cd 226.502	51.4146	51.7499	51.7390
Co 228.615	52.3312	53.1635	52.7528
Cr 267.716	106.680	106.784	107.061
Cu 324.754	107.157	107.678	107.351
Fe 271.441	5521.17	5514.54	5508.69
K 766.491	7504.27	7481.00	7513.37
Mg 279.078	7049.64	7062.93	7045.46
Mn 257.610	664.514	665.096	665.333
Mo 202.032	104.583	104.519	105.624
Na 330.237	8960.05	9017.45	8875.45
Ni 231.604	103.238	102.968	105.135
Pb 220.353	48.3679	52.8171	48.2616
Sb 206.834	58.7787	47.9970	53.5934
Se 196.026	107.302	108.889	95.4313
Sn 189.925	208.000	202.460	207.022
Sr 216.596	149.803	149.791	149.329
Ti 334.941	103.753	103.629	103.634
Tl 190.794	40.0007	40.3501	40.7973
V 292.401	104.539	104.497	104.492
Zn 206.200	101.529	102.315	102.614

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	54.5047	ppb	0.0259	0.0	4067.52
Al 308.215	4936.52	ppb	4.6465	0.1	36039.0
As 188.980	105.879	ppb	2.0710	2.0	84.4983
B 249.678	204.323	ppb	0.7868	0.4	3645.87
Ba 389.178	132.162	ppb	0.1910	0.1	3410.29
Be 313.042	51.7707	ppb	0.0615	0.1	102756
Ca 370.602	9565	ppb	36.54	0.4	28786
Cd 226.502	51.6345	ppb	0.1905	0.4	2923.74
Co 228.615	52.7492	ppb	0.4161	0.8	729.799
Cr 267.716	106.842	ppb	0.1974	0.2	6413.06
Cu 324.754	107.395	ppb	0.2635	0.2	6862.08
Fe 271.441	5514.80	ppb	6.2453	0.1	9920.77
K 766.491	7499.55	ppb	16.6930	0.2	263991
Mg 279.078	7052.68	ppb	9.1206	0.1	20210.1
Mn 257.610	664.981	ppb	0.4212	0.1	177186
Mo 202.032	104.909	ppb	0.6205	0.6	883.390
Na 330.237	8950.98	ppb	71.4309	0.8	534.425
Ni 231.604	103.781	ppb	1.1808	1.1	393.234
Pb 220.353	49.8155	ppb	2.6000	5.2	119.340
Sb 206.834	53.4564	ppb	5.3922	10.1	91.7736
Se 196.026	103.874	ppb	7.3547	7.1	58.0851
Sn 189.925	205.827	ppb	2.9566	1.4	218.135
Sr 216.596	149.641	ppb	0.2699	0.2	2455.35
Ti 334.941	103.672	ppb	0.0700	0.1	32166.1
Tl 190.794	40.3827	ppb	0.3993	1.0	47.5364
V 292.401	104.509	ppb	0.0262	0.0	3059.93
Zn 206.200	102.153	ppb	0.5605	0.5	174.695

680-92717-f-1-i msd (Samp) **8/2/2013, 8:30:53 PM** **Rack 2, Tube 51**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	56.5839	55.6860	56.5007
Al 308.215	5126.47	5123.85	5101.46
As 188.980	109.669	108.056	111.845
B 249.678	207.876	207.713	206.762
Ba 389.178	135.252	135.267	134.248
Be 313.042	52.7146	52.7572	52.4794
Ca 370.602	9833	9842	9774
Cd 226.502	52.1549	52.4474	52.0692
Co 228.615	54.3383	53.4616	54.1019
Cr 267.716	109.184	109.096	108.889
Cu 324.754	111.861	111.481	110.957
Fe 271.441	5696.96	5689.65	5667.68
K 766.491	7658.94	7662.26	7577.76
Mg 279.078	7180.74	7181.69	7138.57
Mn 257.610	680.278	680.356	676.446
Mo 202.032	107.346	106.324	106.404
Na 330.237	9201.42	9167.74	9305.88
Ni 231.604	105.474	104.478	105.057
Pb 220.353	52.6915	51.7993	53.7056
Sb 206.834	53.3249	50.7968	53.2813
Se 196.026	101.913	107.870	105.702
Sn 189.925	209.982	208.569	210.221
Sr 216.596	152.581	152.894	152.737
Ti 334.941	108.471	108.618	108.050
Tl 190.794	43.9377	37.8665	41.7657
V 292.401	107.239	107.922	106.682
Zn 206.200	104.849	106.161	105.401

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	56.2569	ppb	0.4961	0.9	4198.50
Al 308.215	5117.26	ppb	13.7459	0.3	37349.1
As 188.980	109.856	ppb	1.9014	1.7	88.0029
B 249.678	207.451	ppb	0.6018	0.3	3699.52
Ba 389.178	134.923	ppb	0.5840	0.4	3481.51
Be 313.042	52.6504	ppb	0.1496	0.3	104504
Ca 370.602	9816	ppb	36.77	0.4	29539
Cd 226.502	52.2238	ppb	0.1983	0.4	2957.36
Co 228.615	53.9673	ppb	0.4536	0.8	746.942
Cr 267.716	109.056	ppb	0.1518	0.1	6545.34
Cu 324.754	111.433	ppb	0.4541	0.4	7116.99
Fe 271.441	5684.76	ppb	15.2382	0.3	10225.8
K 766.491	7632.99	ppb	47.8585	0.6	268683
Mg 279.078	7167.00	ppb	24.6247	0.3	20537.1
Mn 257.610	679.027	ppb	2.2353	0.3	180926
Mo 202.032	106.691	ppb	0.5680	0.5	898.241
Na 330.237	9225.01	ppb	72.0259	0.8	549.218
Ni 231.604	105.003	ppb	0.5001	0.5	397.904
Pb 220.353	52.7322	ppb	0.9538	1.8	125.262
Sb 206.834	52.4676	ppb	1.4472	2.8	90.1954
Se 196.026	105.162	ppb	3.0146	2.9	58.8155
Sn 189.925	209.591	ppb	0.8930	0.4	222.277
Sr 216.596	152.738	ppb	0.1565	0.1	2506.04
Ti 334.941	108.380	ppb	0.2946	0.3	33627.7
Tl 190.794	41.1900	ppb	3.0763	7.5	48.6717
V 292.401	107.281	ppb	0.6211	0.6	3141.59
Zn 206.200	105.471	ppb	0.6588	0.6	180.364

680-92717-f-2-c (Samp) **8/2/2013, 8:35:28 PM** **Rack 2, Tube 52**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.1067u	-0.1098u	0.0031u
Al 308.215	85.6307	87.5177	85.2312
As 188.980	-0.6860u	0.9768	-1.5310u
B 249.678	9.9473	10.0143	9.4021
Ba 389.178	17.8849	17.9655	17.7047
Be 313.042	0.0101	0.0030	0.0070
Ca 370.602	7334	7316	7320
Cd 226.502	-0.0442u	-0.0634u	-0.0027u
Co 228.615	0.5084	0.2836	-0.0092u
Cr 267.716	0.0781	-0.0478u	0.0868
Cu 324.754	2.7847	2.6896	2.6739
Fe 271.441	49.4559	46.2402	43.7150
K 766.491	587.837	588.762	585.088
Mg 279.078	1187.45	1185.62	1176.61
Mn 257.610	22.0851	22.0227	21.9773
Mo 202.032	1.2170	1.5573	1.5052
Na 330.237	56322.0	56201.7	55845.1
Ni 231.604	1.1524	0.4225	2.1063
Pb 220.353	-0.8741u	1.0641	0.7292
Sb 206.834	2.9625	0.2602	-2.7245u
Se 196.026	16.5310	10.2762	8.5314
Sn 189.925	-2.1980u	0.3252	0.6283
Sr 216.596	33.2296	33.2934	32.7244
Ti 334.941	1.0156	0.9787	1.0286
Tl 190.794	-2.0098u	-3.3157u	-1.4026u
V 292.401	6.5659	6.2542	6.4917
Zn 206.200	0.7368	1.7918	1.1119

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0711	ppb	0.0643	90.4	-12.0656
Al 308.215	86.1265	ppb	1.2212	1.4	882.831
As 188.980	-0.4134	ppb	1.2760	308.7	-9.1380
B 249.678	9.7879	ppb	0.3358	3.4	295.608
Ba 389.178	17.8517	ppb	0.1335	0.7	460.660
Be 313.042	0.0067	ppb	0.0036	53.3	-123.208
Ca 370.602	7323	ppb	9.708	0.1	22301
Cd 226.502	-0.0367	ppb	0.0310	84.4	18.6445
Co 228.615	0.2609	ppb	0.2595	99.5	-5.0344
Cr 267.716	0.0390	ppb	0.0753	192.9	36.3007
Cu 324.754	2.7161	ppb	0.0600	2.2	251.321
Fe 271.441	46.4703	ppb	2.8774	6.2	104.356
K 766.491	587.229	ppb	1.9109	0.3	20905.1
Mg 279.078	1183.23	ppb	5.8059	0.5	3422.09
Mn 257.610	22.0284	ppb	0.0541	0.2	5971.16
Mo 202.032	1.4265	ppb	0.1833	12.8	20.9225
Na 330.237	56122.9	ppb	247.992	0.4	3105.84
Ni 231.604	1.2271	ppb	0.8444	68.8	1.5973
Pb 220.353	0.3064	ppb	1.0360	338.1	18.6903
Sb 206.834	0.1661	ppb	2.8446	1712.7	5.4869
Se 196.026	11.7795	ppb	4.2064	35.7	5.9594
Sn 189.925	-0.4148	ppb	1.5517	374.0	-8.8417
Sr 216.596	33.0825	ppb	0.3117	0.9	552.211
Ti 334.941	1.0076	ppb	0.0259	2.6	270.833
Tl 190.794	-2.2427	ppb	0.9776	43.6	-12.7144
V 292.401	6.4373	ppb	0.1628	2.5	180.889
Zn 206.200	1.2135	ppb	0.5348	44.1	2.3611

680-92717-f-3-c (Samp) **8/2/2013, 8:40:04 PM** **Rack 2, Tube 53**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	-0.5457u	-0.1860u	0.3140
Al 308.215	74.2449	75.7711	74.1593
As 188.980	-4.0345u	-3.5565u	-1.8531u
B 249.678	11.0159	10.6570	10.6283
Ba 389.178	29.2790	29.4645	28.8652
Be 313.042	-0.0196u	-0.0082u	-0.0190u
Ca 370.602	4832	4837	4804
Cd 226.502	-0.1178u	0.0457	-0.0283
Co 228.615	0.2110	-0.2034u	0.4258
Cr 267.716	0.2244	0.3979	0.2729
Cu 324.754	1.0437	1.6768	1.5067
Fe 271.441	425.117	425.012	422.828
K 766.491	2437.67	2448.17	2461.96
Mg 279.078	2066.91	2059.58	2064.12
Mn 257.610	140.632	140.913	140.585
Mo 202.032	0.1017	0.4392	0.4481
Na 330.237	4558.25	4328.21	4420.02
Ni 231.604	0.8923	0.9016	0.0423
Pb 220.353	0.3395	1.7577	0.9419
Sb 206.834	3.8744	1.7758	2.5766
Se 196.026	-3.1236u	7.7324	2.0985
Sn 189.925	1.9543	-0.6542u	1.1075
Sr 216.596	45.3130	45.5974	45.3611
Ti 334.941	1.8606	1.7905	1.7826
Tl 190.794	-1.7320u	-2.6691u	-1.5647u
V 292.401	1.4024	1.2066	1.5265
Zn 206.200	2.4668	1.8957	1.4187

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1392	ppb	0.4318	310.1	-17.2189
Al 308.215	74.7251	ppb	0.9069	1.2	801.108
As 188.980	-3.1480	ppb	1.1466	36.4	-11.5532
B 249.678	10.7671	ppb	0.2160	2.0	311.633
Ba 389.178	29.2029	ppb	0.3068	1.1	754.068
Be 313.042	-0.0156	ppb	0.0064	41.1	-161.951
Ca 370.602	4824	ppb	18.01	0.4	14663
Cd 226.502	-0.0335	ppb	0.0819	244.5	20.9009
Co 228.615	0.1445	ppb	0.3199	221.4	-6.5863
Cr 267.716	0.2984	ppb	0.0895	30.0	51.4364
Cu 324.754	1.4091	ppb	0.3277	23.3	169.002
Fe 271.441	424.319	ppb	1.2921	0.3	782.027
K 766.491	2449.27	ppb	12.1814	0.5	86387.3
Mg 279.078	2063.54	ppb	3.7009	0.2	5939.71
Mn 257.610	140.710	ppb	0.1772	0.1	37571.8
Mo 202.032	0.3297	ppb	0.1975	59.9	11.7646
Na 330.237	4435.49	ppb	115.795	2.6	292.212
Ni 231.604	0.6121	ppb	0.4935	80.6	-0.7395
Pb 220.353	1.0130	ppb	0.7118	70.3	20.1884
Sb 206.834	2.7423	ppb	1.0591	38.6	9.6833
Se 196.026	2.2358	ppb	5.4293	242.8	0.6136
Sn 189.925	0.8026	ppb	1.3307	165.8	-7.5277
Sr 216.596	45.4239	ppb	0.1522	0.3	753.557
Ti 334.941	1.8112	ppb	0.0429	2.4	529.167
Tl 190.794	-1.9886	ppb	0.5952	29.9	-12.4683
V 292.401	1.3785	ppb	0.1613	11.7	31.8669
Zn 206.200	1.9270	ppb	0.5248	838.2	3.5854

680-92717-f-4-c (Samp) **8/2/2013, 8:44:51 PM** **Rack 2, Tube 54**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	-0.1084u	-0.1208u	-0.1036u
Al 308.215	5664.14	5664.81	5678.52
As 188.980	17.4915	14.7728	9.8884
B 249.678	31.6666	31.5082	32.0346
Ba 389.178	62.2495	63.6107	61.8372
Be 313.042	1.2290	1.2314	1.2338
Ca 370.602	35992	35980	35978
Cd 226.502	0.8817	0.8177	0.8536
Co 228.615	12.6940	12.4551	11.9849
Cr 267.716	6.6212	6.7186	6.7201
Cu 324.754	1.3596	1.6651	1.2687
Fe 271.441	4673.38	4686.75	4696.48
K 766.491	2499.29	2483.40	2480.59
Mg 279.078	4216.25	4209.42	4215.52
Mn 257.610	51.6457	51.6313	51.6358
Mo 202.032	1.6561	2.4366	2.4385
Na 330.237	244106x	244022x	244816x
Ni 231.604	12.4486	12.8556	13.4175
Pb 220.353	2.1873	-1.6415u	-1.9920u
Sb 206.834	2.7272	-0.0108	0.7368
Se 196.026	9.7150	11.3960	6.1706
Sn 189.925	1.4207	2.9116	5.2943
Sr 216.596	62.0213	62.1471	61.5860
Ti 334.941	2.9752	2.8525	2.9554
Tl 190.794	-0.1626u	-2.5202u	-2.5697u
V 292.401	93.8732	94.2787	94.1183
Zn 206.200	29.1512	28.6290	29.4275

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1109b	ppb	0.0089	8.0	-15.7740
Al 308.215	5669.16b	ppb	8.1164	0.1	41349.1
As 188.980	14.0509b	ppb	3.8526	27.4	3.6249
B 249.678	31.7365b	ppb	0.2700	0.9	663.947
Ba 389.178	62.5658b	ppb	0.9281	1.5	1620.38
Be 313.042	1.2314b	ppb	0.0024	0.2	2295.47
Ca 370.602	35983b	ppb	7.616	0.0	109255
Cd 226.502	0.8510b	ppb	0.0321	3.8	86.4947
Co 228.615	12.3780b	ppb	0.3608	2.9	164.901
Cr 267.716	6.6866b	ppb	0.0566	0.8	437.776
Cu 324.754	1.4311b	ppb	0.2076	14.5	170.872
Fe 271.441	4685.54b	ppb	11.5945	0.2	8427.49
K 766.491	2487.76b	ppb	10.0871	0.4	87741.0
Mg 279.078	4213.73b	ppb	3.7524	0.1	12095.9
Mn 257.610	51.6376b	ppb	0.0074	0.0	13894.9
Mo 202.032	2.1771b	ppb	0.4512	20.7	26.7248
Na 330.237	244315xb	ppb	436.610	0.2	13347.7
Ni 231.604	12.9072b	ppb	0.4865	3.8	46.3071
Pb 220.353	-0.4821b	ppb	2.3184	480.9	17.3654
Sb 206.834	1.1511b	ppb	1.4152	122.9	7.3429
Se 196.026	9.0939b	ppb	2.6675	29.3	4.4716
Sn 189.925	3.2089b	ppb	1.9539	60.9	-4.7481
Sr 216.596	61.9181b	ppb	0.2944	0.5	1032.69
Ti 334.941	2.9277b	ppb	0.0659	2.2	866.420
Tl 190.794	-1.7508b	ppb	1.3757	78.6	-12.3426
V 292.401	94.0901b	ppb	0.2043	0.2	2772.36
Zn 206.200	29.0692b	ppb	0.4055	1.4	50.0517

680-92717-f-5-c (Samp) **8/2/2013, 8:49:27 PM** **Rack 2, Tube 55**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	0.0011u	-0.2041u	0.1841
Al 308.215	427.158	428.481	423.717
As 188.980	1.2294	-2.3471u	-4.5283u
B 249.678	5.7370	6.2118	6.0409
Ba 389.178	24.3179	24.7996	25.6851
Be 313.042	0.7010	0.7076	0.6896
Ca 370.602	3170	3174	3143
Cd 226.502	0.0489	0.0177	0.0029
Co 228.615	15.7528	15.0409	14.8558
Cr 267.716	0.9236	0.8234	0.8658
Cu 324.754	0.3890	0.5397	-0.0139u
Fe 271.441	868.145	876.334	870.614
K 766.491	523.812	524.748	522.371
Mg 279.078	1850.37	1851.62	1841.74
Mn 257.610	130.807	131.176	130.312
Mo 202.032	-0.7483u	-0.4945u	-0.0732u
Na 330.237	12817.9	12963.3	12862.2
Ni 231.604	6.7849	5.9335	6.4231
Pb 220.353	-2.4135u	2.8242	-2.3419u
Sb 206.834	2.7374	4.4162	0.1252
Se 196.026	6.8809	8.6558	4.5370
Sn 189.925	-0.1810u	-0.1157u	0.3687
Sr 216.596	21.4706	21.2894	21.1589
Ti 334.941	1.5149	1.2569	1.1886
Tl 190.794	-0.7587u	-1.7411u	-1.1640u
V 292.401	0.7240	0.7771	0.8128
Zn 206.200	10.9726	10.2769	10.3956

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0063	ppb	0.1942	3088.5	-6.2330
Al 308.215	426.452	ppb	2.4595	0.6	3350.92
As 188.980	-1.8820	ppb	2.9069	154.5	-10.4383
B 249.678	5.9966	ppb	0.2405	4.0	228.079
Ba 389.178	24.9342	ppb	0.6935	2.8	644.960
Be 313.042	0.6994	ppb	0.0091	1.3	1257.88
Ca 370.602	3162	ppb	16.85	0.5	9564
Cd 226.502	0.0231	ppb	0.0235	101.5	25.8915
Co 228.615	15.2165	ppb	0.4736	3.1	204.514
Cr 267.716	0.8709	ppb	0.0503	5.8	85.8839
Cu 324.754	0.3049	ppb	0.2862	93.9	99.4671
Fe 271.441	871.698	ppb	4.2006	0.5	1586.50
K 766.491	523.644	ppb	1.1976	0.2	18669.0
Mg 279.078	1847.91	ppb	5.3768	0.3	5322.61
Mn 257.610	130.765	ppb	0.4332	0.3	34923.8
Mo 202.032	-0.4387	ppb	0.3410	77.7	5.3325
Na 330.237	12881.1	ppb	74.4963	0.6	751.652
Ni 231.604	6.3805	ppb	0.4273	6.7	21.2565
Pb 220.353	-0.6437	ppb	3.0036	466.6	16.8525
Sb 206.834	2.4263	ppb	2.1624	89.1	9.2220
Se 196.026	6.6912	ppb	2.0659	30.9	3.1245
Sn 189.925	0.0240	ppb	0.3003	1251.5	-8.3816
Sr 216.596	21.3063	ppb	0.1565	0.7	360.593
Ti 334.941	1.3201	ppb	0.1721	13.0	375.005
Tl 190.794	-1.2213	ppb	0.4937	40.4	-11.3422
V 292.401	0.7713	ppb	0.0447	5.8	13.9132
Zn 206.200	10.5484	ppb	0.3721	3.5	18.3403

680-92717-f-6-c (Samp) **8/2/2013, 8:54:02 PM** **Rack 2, Tube 56**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	-0.1418u	-0.0198u	-0.1821u
Al 308.215	3806.00	3806.98	3807.44
As 188.980	7.5518	3.8752	5.2182
B 249.678	22.1796	21.9623	22.1514
Ba 389.178	47.9012	48.4607	47.6652
Be 313.042	1.0667	1.0693	1.0625
Ca 370.602	23451	23458	23416
Cd 226.502	0.4668	0.4226	0.5687
Co 228.615	14.7009	14.5792	14.1492
Cr 267.716	4.8427	4.5781	4.5322
Cu 324.754	1.0872	1.0543	0.7270
Fe 271.441	3398.47	3405.20	3405.86
K 766.491	1729.61	1725.08	1722.61
Mg 279.078	3339.88	3350.60	3341.43
Mn 257.610	85.8902	86.0045	85.7766
Mo 202.032	1.0242	0.9784	1.0398
Na 330.237	151415x	152644x	153225x
Ni 231.604	10.2311	10.8200	9.9493
Pb 220.353	-0.6885u	1.0623	-1.5571u
Sb 206.834	2.2318	-2.5322u	-0.3334u
Se 196.026	16.6292	2.5805	5.3193
Sn 189.925	-0.8127u	0.7890	0.6252
Sr 216.596	46.8689	46.7898	46.9663
Ti 334.941	2.8770	2.7973	2.7706
Tl 190.794	-1.6608u	-2.1269u	-0.7535u
V 292.401	59.9427	59.2522	59.4789
Zn 206.200	21.9498	21.7589	23.8560

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1146b	ppb	0.0845	73.8	-15.3942
Al 308.215	3806.81b	ppb	0.7365	0.0	27851.4
As 188.980	5.5484b	ppb	1.8604	33.5	-3.8772
B 249.678	22.0978b	ppb	0.1181	0.5	500.377
Ba 389.178	48.0090b	ppb	0.4086	0.9	1243.50
Be 313.042	1.0662b	ppb	0.0034	0.3	1975.05
Ca 370.602	23442b	ppb	22.61	0.1	71149
Cd 226.502	0.4860b	ppb	0.0749	15.4	61.4081
Co 228.615	14.4764b	ppb	0.2899	2.0	194.265
Cr 267.716	4.6510b	ppb	0.1676	3.6	314.435
Cu 324.754	0.9562b	ppb	0.1991	20.8	140.816
Fe 271.441	3403.17b	ppb	4.0898	0.1	6127.41
K 766.491	1725.77b	ppb	3.5517	0.2	60944.1
Mg 279.078	3343.97b	ppb	5.7951	0.2	9605.66
Mn 257.610	85.8904b	ppb	0.1139	0.1	23000.5
Mo 202.032	1.0141b	ppb	0.0319	3.1	17.1748
Na 330.237	152428xb	ppb	924.071	0.6	8346.58
Ni 231.604	10.3335b	ppb	0.4443	4.3	36.4324
Pb 220.353	-0.3944b	ppb	1.3342	338.3	17.4850
Sb 206.834	-0.2113b	ppb	2.3844	1128.6	5.0902
Se 196.026	8.1763b	ppb	7.4474	91.1	3.9590
Sn 189.925	0.2005b	ppb	0.8813	439.6	-8.1099
Sr 216.596	46.8750b	ppb	0.0884	0.2	783.862
Ti 334.941	2.8150b	ppb	0.0554	2.0	834.796
Tl 190.794	-1.5137b	ppb	0.6984	46.1	-11.9241
V 292.401	59.5579b	ppb	0.3520	0.6	1751.71
Zn 206.200	22.5216b	ppb	1.1596	5.1	38.8415

680-92717-f-7-c (Samp) **8/2/2013, 8:58:38 PM** **Rack 2, Tube 57**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.4363u	-0.1975u	-0.2211u
Al 308.215	3809.12	3810.51	3817.01
As 188.980	15.1284	6.8315	5.1000
B 249.678	21.9374	22.0900	22.6832
Ba 389.178	47.2390	46.7722	46.8463
Be 313.042	1.0870	1.0894	1.0965
Ca 370.602	23855	23776	23718
Cd 226.502	0.9039	0.9403	0.7545
Co 228.615	17.0612	17.0559	16.9839
Cr 267.716	3.6624	3.6463	3.8871
Cu 324.754	10.4791	10.4807	10.5000
Fe 271.441	723.304	729.669	724.416
K 766.491	1669.32	1672.17	1681.01
Mg 279.078	2985.48	2994.80	3006.26
Mn 257.610	57.5183	57.4195	57.6540
Mo 202.032	1.4725	0.5991	1.0834
Na 330.237	128329x	128574x	128149x
Ni 231.604	13.5713	14.8866	13.2763
Pb 220.353	-2.3729u	1.7993	3.1334
Sb 206.834	1.3147	-1.9434u	1.3648
Se 196.026	6.9629	-3.1025u	5.9229
Sn 189.925	-0.7013u	-0.4541u	1.6629
Sr 216.596	42.9137	42.7774	43.2877
Ti 334.941	3.7545	3.4767	3.4926
Tl 190.794	-3.1353u	-1.4194u	-2.4073u
V 292.401	35.2382	35.1333	35.3971
Zn 206.200	38.0345	36.8100	38.3325

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.2850b	ppb	0.1316	46.2	-28.2042
Al 308.215	3812.21b	ppb	4.2121	0.1	27895.3
As 188.980	9.0200b	ppb	5.3604	59.4	-0.7802
B 249.678	22.2369b	ppb	0.3940	1.8	509.212
Ba 389.178	46.9525b	ppb	0.2509	0.5	1211.23
Be 313.042	1.0910b	ppb	0.0049	0.5	2028.45
Ca 370.602	23783b	ppb	68.84	0.3	72391
Cd 226.502	0.8663b	ppb	0.0985	11.4	71.3325
Co 228.615	17.0337b	ppb	0.0432	0.3	229.980
Cr 267.716	3.7319b	ppb	0.1346	3.6	258.399
Cu 324.754	10.4866b	ppb	0.0117	0.1	741.596
Fe 271.441	725.797b	ppb	3.3994	0.5	1325.32
K 766.491	1674.17b	ppb	6.0970	0.4	59129.4
Mg 279.078	2995.51b	ppb	10.4064	0.3	8608.08
Mn 257.610	57.5306b	ppb	0.1177	0.2	15440.1
Mo 202.032	1.0516b	ppb	0.4375	41.6	17.6944
Na 330.237	128351xb	ppb	213.366	0.2	7036.58
Ni 231.604	13.9114b	ppb	0.8573	6.2	50.0074
Pb 220.353	0.8533b	ppb	2.8725	336.6	19.7753
Sb 206.834	0.2454b	ppb	1.8957	772.6	5.7137
Se 196.026	3.2611b	ppb	5.5355	169.7	1.1694
Sn 189.925	0.1691b	ppb	1.2995	768.3	-8.1554
Sr 216.596	42.9929b	ppb	0.2642	0.6	716.940
Ti 334.941	3.5746b	ppb	0.1560	4.4	1070.53
Tl 190.794	-2.3207b	ppb	0.8613	37.1	-12.8207
V 292.401	35.2562b	ppb	0.1328	0.4	1032.89
Zn 206.200	37.7256b	ppb	0.8068	2.1	64.8297

680-92717-f-8-c (Samp) **8/2/2013, 9:03:14 PM** **Rack 2, Tube 58**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.1722u	-0.1133u	-0.3201u
Al 308.215	3241.97	3237.19	3238.60
As 188.980	1.5475	6.1434	7.4985
B 249.678	20.5052	21.0311	20.7316
Ba 389.178	32.0490	32.2483	32.9071
Be 313.042	0.8935	0.8881	0.8852
Ca 370.602	19393	19454	19428
Cd 226.502	0.5337	0.7266	0.7446
Co 228.615	21.1151	21.0401	20.3431
Cr 267.716	2.9474	2.8664	2.7718
Cu 324.754	7.1970	7.6154	7.6235
Fe 271.441	2011.90	2010.26	2016.97
K 766.491	1538.74	1535.74	1524.90
Mg 279.078	3043.27	3041.61	3046.75
Mn 257.610	91.4284	91.4626	91.5569
Mo 202.032	0.7977	0.5729	0.7250
Na 330.237	119609x	118731x	118794x
Ni 231.604	16.6517	16.4547	15.9170
Pb 220.353	-1.9794u	-0.3138u	-3.1186u
Sb 206.834	1.6674	-2.3600u	1.8680
Se 196.026	6.3173	9.1902	7.3979
Sn 189.925	0.3660	1.4233	0.0619
Sr 216.596	40.8089	40.7842	40.0327
Ti 334.941	4.4176	4.0767	3.8243
Tl 190.794	-1.1196u	-3.1506u	0.2763
V 292.401	35.4560	36.0489	36.3859
Zn 206.200	32.2710	32.0329	31.5796

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.2019b	ppb	0.1066	52.8	-21.7297
Al 308.215	3239.26b	ppb	2.4563	0.1	23740.3
As 188.980	5.0632b	ppb	3.1191	61.6	-4.2936
B 249.678	20.7560b	ppb	0.2638	1.3	480.501
Ba 389.178	32.4015b	ppb	0.4491	1.4	841.271
Be 313.042	0.8889b	ppb	0.0042	0.5	1626.28
Ca 370.602	19425b	ppb	30.76	0.2	59019
Cd 226.502	0.6683b	ppb	0.1169	17.5	65.9176
Co 228.615	20.8328b	ppb	0.4257	2.0	283.257
Cr 267.716	2.8618b	ppb	0.0879	3.1	206.813
Cu 324.754	7.4786b	ppb	0.2439	3.3	552.226
Fe 271.441	2013.04b	ppb	3.4976	0.2	3634.69
K 766.491	1533.13b	ppb	7.2814	0.5	54169.5
Mg 279.078	3043.88b	ppb	2.6235	0.1	8746.34
Mn 257.610	91.4826b	ppb	0.0665	0.1	24482.0
Mo 202.032	0.6985b	ppb	0.1147	16.4	14.6736
Na 330.237	119045xb	ppb	489.760	0.4	6529.73
Ni 231.604	16.3411b	ppb	0.3803	2.3	59.3131
Pb 220.353	-1.8039b	ppb	1.4106	78.2	14.5196
Sb 206.834	0.3918b	ppb	2.3853	608.8	5.9888
Se 196.026	7.6351b	ppb	1.4510	19.0	3.6500
Sn 189.925	0.6171b	ppb	0.7146	115.8	-7.6694
Sr 216.596	40.5419b	ppb	0.4412	1.1	677.972
Ti 334.941	4.1062b	ppb	0.2977	7.3	1236.69
Tl 190.794	-1.3313b	ppb	1.7232	129.4	-11.5304
V 292.401	35.9636b	ppb	0.4707	1.3	1054.02
Zn 206.200	31.9612b	ppb	0.3513	1.1	54.9850

680-92717-f-9-c (Samp) **8/2/2013, 9:07:50 PM** **Rack 2, Tube 59**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	-0.2506u	-0.0838u	0.3604
Al 308.215	274.123	270.286	270.561
As 188.980	0.1586	-1.6793u	1.5455
B 249.678	14.4475	14.5051	14.4439
Ba 389.178	40.3415	40.6331	41.0351
Be 313.042	0.1488	0.1545	0.1512
Ca 370.602	30577	30494	30466
Cd 226.502	0.0260	-0.0034	-0.0842
Co 228.615	2.8011	3.7218	3.2020
Cr 267.716	0.4908	0.4422	0.2418
Cu 324.754	0.6644	0.5455	0.5023
Fe 271.441	2449.87	2452.31	2454.57
K 766.491	1431.64	1422.81	1425.75
Mg 279.078	1464.85	1467.43	1472.00
Mn 257.610	580.455	580.665	580.313
Mo 202.032	0.1591	0.5387	-0.1152u
Na 330.237	6040.03	6265.68	6405.63
Ni 231.604	2.2376	1.6841	2.2926
Pb 220.353	1.6569	2.0149	-0.3833u
Sb 206.834	0.8712	0.0752	-0.4672u
Se 196.026	-0.8428u	4.0906	-4.9313u
Sn 189.925	2.8782	0.4773	0.9675
Sr 216.596	54.3514	54.1157	54.2853
Ti 334.941	4.1539	4.0279	4.0034
Tl 190.794	2.2043	-1.0216u	-3.1335u
V 292.401	1.8079	2.1654	2.0584
Zn 206.200	172.546	172.541	171.825

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0087	ppb	0.3158	3643.8	-4.6012
Al 308.215	271.657	ppb	2.1401	0.8	2228.83
As 188.980	0.0083	ppb	1.6176	19577.4	-8.7967
B 249.678	14.4655	ppb	0.0344	0.2	370.707
Ba 389.178	40.6699	ppb	0.3483	0.9	1048.75
Be 313.042	0.1515	ppb	0.0029	1.9	179.516
Ca 370.602	30512	ppb	57.62	0.2	92774
Cd 226.502	-0.0205	ppb	0.0571	277.9	30.2792
Co 228.615	3.2416	ppb	0.4616	14.2	36.9364
Cr 267.716	0.3916	ppb	0.1320	33.7	59.9918
Cu 324.754	0.5707	ppb	0.0839	14.7	116.835
Fe 271.441	2452.25	ppb	2.3490	0.1	4419.83
K 766.491	1426.73	ppb	4.4934	0.3	50427.9
Mg 279.078	1468.10	ppb	3.6216	0.2	4225.96
Mn 257.610	580.477	ppb	0.1768	0.0	154631
Mo 202.032	0.1942	ppb	0.3284	169.1	10.5166
Na 330.237	6237.11	ppb	184.468	3.0	386.957
Ni 231.604	2.0714	ppb	0.3366	16.2	4.8853
Pb 220.353	1.0962	ppb	1.2937	118.0	20.6401
Sb 206.834	0.1598	ppb	0.6732	421.4	5.5995
Se 196.026	-0.5612	ppb	4.5175	805.0	-0.8314
Sn 189.925	1.4410	ppb	1.2685	88.0	-6.8097
Sr 216.596	54.2508	ppb	0.1216	0.2	904.174
Ti 334.941	4.0617	ppb	0.0808	2.0	1224.70
Tl 190.794	-0.6503	ppb	2.6882	413.4	-11.0197
V 292.401	2.0105	ppb	0.1835	9.1	50.6070
Zn 206.200	172.304	ppb	0.4147	0.2	844.3 295.143

680-92717-f-10-c (Samp) **8/2/2013, 9:12:26 PM** **Rack 2, Tube 60**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.2484u	-0.1329u	-0.0958u
Al 308.215	1713.34	1720.51	1712.41
As 188.980	2.9419	1.0611	1.3355
B 249.678	29.4796	28.6366	28.4520
Ba 389.178	44.0091	43.9523	44.7612
Be 313.042	0.6850	0.6855	0.6902
Ca 370.602	13235	13222	13162
Cd 226.502	0.1769	0.0493	-0.0185u
Co 228.615	6.7696	7.2909	7.3809
Cr 267.716	0.3617	0.3004	0.5671
Cu 324.754	2.9086	3.0574	2.8333
Fe 271.441	101.287	94.6079	94.6230
K 766.491	1100.30	1109.51	1113.20
Mg 279.078	2188.82	2196.45	2191.72
Mn 257.610	80.1484	80.3036	80.0587
Mo 202.032	-0.2670u	0.0361	-0.1639u
Na 330.237	157585x	157937x	158828x
Ni 231.604	8.0647	7.5519	8.6716
Pb 220.353	0.2017	0.6596	-1.9178u
Sb 206.834	1.1313	-0.8444u	2.4059
Se 196.026	-0.3426u	1.8993	6.3435
Sn 189.925	0.5672	-0.1458u	-1.3532u
Sr 216.596	101.940	101.356	100.587
Ti 334.941	0.7212	0.8034	0.6479
Tl 190.794	-2.6443u	-2.3684u	-1.3015u
V 292.401	4.3526	4.4786	4.2107
Zn 206.200	31.0820	32.3745	31.5287

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1590b	ppb	0.0796	50.0	-21.4447
Al 308.215	1715.42b	ppb	4.4329	0.3	12697.4
As 188.980	1.7795b	ppb	1.0160	57.1	-7.1823
B 249.678	28.8561b	ppb	0.5478	1.9	625.161
Ba 389.178	44.2409b	ppb	0.4515	1.0	1138.51
Be 313.042	0.6869b	ppb	0.0029	0.4	1218.81
Ca 370.602	13206b	ppb	38.91	0.3	40219
Cd 226.502	0.0692b	ppb	0.0992	143.3	23.9301
Co 228.615	7.1471b	ppb	0.3300	4.6	91.4503
Cr 267.716	0.4097b	ppb	0.1397	34.1	61.0769
Cu 324.754	2.9331b	ppb	0.1140	3.9	265.008
Fe 271.441	96.8393b	ppb	3.8518	4.0	195.615
K 766.491	1107.67b	ppb	6.6418	0.6	39207.5
Mg 279.078	2192.33b	ppb	3.8525	0.2	6308.99
Mn 257.610	80.1702b	ppb	0.1239	0.2	21456.5
Mo 202.032	-0.1316b	ppb	0.1541	117.1	7.9301
Na 330.237	158117xb	ppb	640.450	0.4	8657.15
Ni 231.604	8.0961b	ppb	0.5605	6.9	27.8101
Pb 220.353	-0.3522b	ppb	1.3751	390.5	17.3382
Sb 206.834	0.8976b	ppb	1.6377	182.5	6.7146
Se 196.026	2.6334b	ppb	3.4029	129.2	0.8194
Sn 189.925	-0.3106b	ppb	0.9707	312.6	-8.6751
Sr 216.596	101.294b	ppb	0.6789	0.7	1665.06
Ti 334.941	0.7242b	ppb	0.0778	10.7	179.104
Tl 190.794	-2.1047b	ppb	0.7092	33.7	-12.5322
V 292.401	4.3473b	ppb	0.1341	3.1	118.427
Zn 206.200	31.6617b	ppb	0.6564	2.1	54.4602

680-92717-f-11-g (Samp) **8/2/2013, 9:26:15 PM** **Rack 3, Tube 3**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	0.3102	-0.1540u	-0.2645u
Al 308.215	1248.65	1248.96	1248.55
As 188.980	-0.3929u	2.2120	0.0771
B 249.678	23.3934	23.7852	23.1932
Ba 389.178	45.0847	43.7771	44.2870
Be 313.042	0.4770	0.4884	0.4866
Ca 370.602	19642	19616	19655
Cd 226.502	0.0008	0.1681	-0.1375u
Co 228.615	6.0572	5.8763	5.8077
Cr 267.716	0.7895	0.6539	0.8721
Cu 324.754	1.7583	2.0269	2.1074
Fe 271.441	1343.56	1333.54	1324.68
K 766.491	1237.21	1230.64	1228.75
Mg 279.078	1948.74	1952.87	1944.30
Mn 257.610	306.050	305.557	305.701
Mo 202.032	0.3925	0.1069	0.4185
Na 330.237	96382.7x	96008.3x	95877.0x
Ni 231.604	6.6308	6.2732	5.9437
Pb 220.353	-0.0104	-0.3126u	0.9449
Sb 206.834	1.2892	-0.1485u	-0.3347u
Se 196.026	9.7643	4.7863	9.9531
Sn 189.925	2.1730	-0.5740u	-0.2206u
Sr 216.596	82.7441	82.8151	82.2467
Ti 334.941	3.8064	4.2619	3.7837
Tl 190.794	-3.2927u	-1.9035u	-1.8577u
V 292.401	4.5160	4.3687	4.3375
Zn 206.200	93.3802	91.7136	93.3467

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0361b	ppb	0.3050	844.7	-10.4370
Al 308.215	1248.72b	ppb	0.2132	0.0	9313.29
As 188.980	0.6321b	ppb	1.3883	219.6	-8.2175
B 249.678	23.4573b	ppb	0.3011	1.3	528.847
Ba 389.178	44.3829b	ppb	0.6590	1.5	1143.35
Be 313.042	0.4840b	ppb	0.0061	1.3	825.421
Ca 370.602	19638b	ppb	20.08	0.1	59724
Cd 226.502	0.0104b	ppb	0.1530	1464.7	26.4766
Co 228.615	5.9137b	ppb	0.1289	2.2	74.3041
Cr 267.716	0.7718b	ppb	0.1102	14.3	82.8730
Cu 324.754	1.9642b	ppb	0.1828	9.3	204.337
Fe 271.441	1333.93b	ppb	9.4451	0.7	2414.34
K 766.491	1232.20b	ppb	4.4435	0.4	43586.8
Mg 279.078	1948.64b	ppb	4.2865	0.2	5606.93
Mn 257.610	305.769b	ppb	0.2532	0.1	81508.8
Mo 202.032	0.3059b	ppb	0.1729	56.5	11.5076
Na 330.237	96089.3xb	ppb	262.415	0.3	5279.46
Ni 231.604	6.2826b	ppb	0.3437	5.5	20.9255
Pb 220.353	0.2073b	ppb	0.6564	316.6	18.6465
Sb 206.834	0.2687b	ppb	0.8887	330.8	5.7403
Se 196.026	8.1679b	ppb	2.9301	35.9	4.0083
Sn 189.925	0.4595b	ppb	1.4945	325.2	-7.8535
Sr 216.596	82.6020b	ppb	0.3097	0.4	1363.05
Ti 334.941	3.9507b	ppb	0.2698	6.8	1184.73
Tl 190.794	-2.3513b	ppb	0.8156	34.7	-13.1542
V 292.401	4.4074b	ppb	0.0953	2.2	120.701
Zn 206.200	92.8135b	ppb	0.9527	846.0	159.111

680-92717-f-11-g SD^ (Samp) **8/2/2013, 9:30:51 PM** **Rack 3, Tube 4**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.0570u	0.0153	0.2109
Al 308.215	259.199	263.639	259.445
As 188.980	-3.0579u	-1.9454u	-0.6503u
B 249.678	4.3037	4.2035	3.9951
Ba 389.178	9.0199	8.6045	9.4959
Be 313.042	0.0693	0.0686	0.0694
Ca 370.602	4092	4123	4077
Cd 226.502	-0.0577u	0.0248	0.0046
Co 228.615	1.1418	0.6573	1.5804
Cr 267.716	0.0749	0.1321	0.0134
Cu 324.754	0.4077	0.0181	0.7026
Fe 271.441	277.645	281.165	278.680
K 766.491	230.937	232.092	233.157
Mg 279.078	411.003	416.926	408.989
Mn 257.610	64.3413	64.6584	64.0576
Mo 202.032	0.0093	-0.0005u	-0.1821u
Na 330.237	18803.6	19099.1	18824.3
Ni 231.604	2.0182	1.3668	1.5864
Pb 220.353	-1.2307u	-0.5322u	0.4368
Sb 206.834	-0.0242u	2.3164	-0.0058
Se 196.026	-2.3718u	3.0282	2.8392
Sn 189.925	-0.7574u	2.1982	1.4146
Sr 216.596	17.0373	16.7533	16.9104
Ti 334.941	1.0910	1.0641	0.8668
Tl 190.794	-1.0944u	-1.1394u	0.6754
V 292.401	0.9418	0.8061	0.7449
Zn 206.200	19.0703	18.0825	20.6034

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0564	ppb	0.1386	245.7	-1.6344
Al 308.215	260.761	ppb	2.4954	1.0	2150.16
As 188.980	-1.8845	ppb	1.2049	63.9	-10.4348
B 249.678	4.1675	ppb	0.1574	3.8	197.878
Ba 389.178	9.0401	ppb	0.4461	4.9	233.426
Be 313.042	0.0691	ppb	0.0004	0.6	4.7584
Ca 370.602	4097	ppb	23.80	0.6	12457
Cd 226.502	-0.0094	ppb	0.0430	457.4	21.4592
Co 228.615	1.1265	ppb	0.4618	41.0	7.1457
Cr 267.716	0.0735	ppb	0.0594	80.8	37.8883
Cu 324.754	0.3761	ppb	0.3433	91.3	103.752
Fe 271.441	279.163	ppb	1.8093	0.6	521.798
K 766.491	232.062	ppb	1.1105	0.5	8414.90
Mg 279.078	412.306	ppb	4.1256	1.0	1214.21
Mn 257.610	64.3524	ppb	0.3006	0.5	17230.7
Mo 202.032	-0.0578	ppb	0.1078	186.6	8.5430
Na 330.237	18909.0	ppb	164.962	0.9	1079.82
Ni 231.604	1.6572	ppb	0.3314	20.0	3.2443
Pb 220.353	-0.4421	ppb	0.8374	189.4	17.2020
Sb 206.834	0.7621	ppb	1.3461	176.6	6.4889
Se 196.026	1.1652	ppb	3.0646	263.0	-0.0121
Sn 189.925	0.9518	ppb	1.5312	160.9	-7.3570
Sr 216.596	16.9003	ppb	0.1423	0.8	288.229
Ti 334.941	1.0073	ppb	0.1224	12.2	270.138
Tl 190.794	-0.5195	ppb	1.0350	199.2	-10.2989
V 292.401	0.8309	ppb	0.1008	12.1	15.5803
Zn 206.200	19.2521	ppb	1.2703	6.6	33.2296

680-92717-f-11-g PDS (Samp) **8/2/2013, 9:35:27 PM** **Rack 3, Tube 5**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	34.7217	34.5772	34.5874
Al 308.215	3145.56	3151.62	3138.27
As 188.980	205.153	202.897	202.600
B 249.678	492.458	490.690	490.449
Ba 389.178	243.538	243.521	243.934
Be 313.042	50.9643	50.9052	50.6777
Ca 370.602	21097	21192	21272
Cd 226.502	49.5967	49.6769	49.6390
Co 228.615	205.701	207.080	204.486
Cr 267.716	203.134	203.211	202.081
Cu 324.754	210.454	212.865	212.015
Fe 271.441	3284.14	3284.43	3253.30
K 766.491	3416.25	3384.99	3359.39
Mg 279.078	3879.26	3870.93	3858.40
Mn 257.610	502.763	503.544	502.807
Mo 202.032	204.415	204.131	204.031
Na 330.237	97774.4x	97934.6x	97430.8x
Ni 231.604	200.000	202.209	201.027
Pb 220.353	192.171	195.299	193.510
Sb 206.834	191.951	195.295	195.801
Se 196.026	199.079	200.805	203.383
Sn 189.925	200.380	204.050	200.544
Sr 216.596	282.389	282.828	282.281
Ti 334.941	203.608	203.932	202.109
Tl 190.794	191.986	188.400	193.303
V 292.401	205.284	205.418	204.413
Zn 206.200	290.830	288.825	290.864

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	34.6288b	ppb	0.0806	0.2	2574.97
Al 308.215	3145.15b	ppb	6.6867	0.2	23027.4
As 188.980	203.550b	ppb	1.3958	0.7	170.550
B 249.678	491.199b	ppb	1.0967	0.2	8611.06
Ba 389.178	243.664b	ppb	0.2336	0.1	6249.89
Be 313.042	50.8491b	ppb	0.1514	0.3	100897
Ca 370.602	21187b	ppb	87.85	0.4	64406
Cd 226.502	49.6375b	ppb	0.0401	0.1	2802.05
Co 228.615	205.756b	ppb	1.2980	0.6	2872.17
Cr 267.716	202.808b	ppb	0.6314	0.3	12140.1
Cu 324.754	211.778b	ppb	1.2231	0.6	13451.1
Fe 271.441	3273.96b	ppb	17.8920	0.5	5923.27
K 766.491	3386.88b	ppb	28.4793	0.8	119360
Mg 279.078	3869.53b	ppb	10.5029	0.3	11101.3
Mn 257.610	503.038b	ppb	0.4384	0.1	134042
Mo 202.032	204.192b	ppb	0.1992	0.1	1711.28
Na 330.237	97713.3xb	ppb	257.395	0.3	5363.38
Ni 231.604	201.079b	ppb	1.1054	0.5	764.261
Pb 220.353	193.660b	ppb	1.5695	0.8	410.493
Sb 206.834	194.349b	ppb	2.0920	1.1	318.283
Se 196.026	201.089b	ppb	2.1659	1.1	112.840
Sn 189.925	201.658b	ppb	2.0729	1.0	213.595
Sr 216.596	282.499b	ppb	0.2899	0.1	4615.63
Ti 334.941	203.216b	ppb	0.9724	0.5	63034.7
Tl 190.794	191.230b	ppb	2.5375	1.3	264.217
V 292.401	205.038b	ppb	0.5458	0.3	6011.80
Zn 206.200	290.173b	ppb	1.1672	0.4	8484.495.987

680-92717-f-11-h ms (Samp) **8/2/2013, 9:40:04 PM** **Rack 3, Tube 6**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	55.3663	55.0825	54.3674
Al 308.215	6334.35	6336.24	6356.66
As 188.980	105.766	105.492	114.869
B 249.678	220.239	219.455	220.612
Ba 389.178	147.763	146.851	147.677
Be 313.042	52.9513	53.0084	53.1661
Ca 370.602	23593	23620	23623
Cd 226.502	51.5836	51.5396	52.1117
Co 228.615	58.0532	57.7906	58.2973
Cr 267.716	107.834	108.261	108.605
Cu 324.754	110.007	111.447	110.708
Fe 271.441	6426.54	6442.20	6459.04
K 766.491	6874.04	6896.61	6929.68
Mg 279.078	6910.86	6913.38	6933.49
Mn 257.610	821.224	822.494	823.133
Mo 202.032	105.523	105.569	104.921
Na 330.237	96587.5x	96336.2x	96766.6x
Ni 231.604	108.649	107.643	107.525
Pb 220.353	52.3367	49.2863	51.4731
Sb 206.834	55.2994	54.4124	53.6761
Se 196.026	102.803	107.646	107.178
Sn 189.925	210.066	205.255	205.777
Sr 216.596	183.737	183.203	183.364
Ti 334.941	108.485	108.255	108.397
Tl 190.794	39.8499	41.4550	41.6741
V 292.401	108.754	109.092	109.080
Zn 206.200	191.443	196.057	192.646

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	54.9387b	ppb	0.5147	0.9	4099.18
Al 308.215	6342.42b	ppb	12.3703	0.2	46232.5
As 188.980	108.709b	ppb	5.3367	4.9	86.9995
B 249.678	220.102b	ppb	0.5902	0.3	3916.44
Ba 389.178	147.430b	ppb	0.5039	0.3	3801.80
Be 313.042	53.0419b	ppb	0.1112	0.2	105277
Ca 370.602	23612b	ppb	16.68	0.1	71511
Cd 226.502	51.7450b	ppb	0.3183	0.6	2933.14
Co 228.615	58.0470b	ppb	0.2534	0.4	804.156
Cr 267.716	108.233b	ppb	0.3863	0.4	6499.16
Cu 324.754	110.721b	ppb	0.7202	0.7	7072.23
Fe 271.441	6442.59b	ppb	16.2531	0.3	11585.6
K 766.491	6900.11b	ppb	27.9827	0.4	242910
Mg 279.078	6919.24b	ppb	12.4058	0.2	19824.4
Mn 257.610	822.284b	ppb	0.9720	0.1	219058
Mo 202.032	105.338b	ppb	0.3613	0.3	886.903
Na 330.237	96563.4xb	ppb	216.236	0.2	5301.67
Ni 231.604	107.939b	ppb	0.6178	0.6	409.127
Pb 220.353	51.0321b	ppb	1.5723	3.1	121.890
Sb 206.834	54.4626b	ppb	0.8128	1.5	93.4625
Se 196.026	105.876b	ppb	2.6711	2.5	59.2614
Sn 189.925	207.033b	ppb	2.6397	1.3	219.511
Sr 216.596	183.435b	ppb	0.2738	0.1	3009.61
Ti 334.941	108.379b	ppb	0.1157	0.1	33618.7
Tl 190.794	40.9930b	ppb	0.9960	2.4	48.2449
V 292.401	108.975b	ppb	0.1917	0.2	3191.27
Zn 206.200	193.382b	ppb	2.3933	1.2	330.802

680-92717-f-11-i msd (Samp) **8/2/2013, 9:44:51 PM** **Rack 3, Tube 7**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	55.4342	54.7707	54.7735
Al 308.215	6400.57	6382.24	6387.43
As 188.980	109.198	108.633	107.700
B 249.678	219.921	218.744	220.322
Ba 389.178	148.097	146.927	147.187
Be 313.042	53.0775	52.8354	52.8801
Ca 370.602	23646	23647	23640
Cd 226.502	51.7828	51.8621	51.4373
Co 228.615	57.4522	57.9714	57.9130
Cr 267.716	108.659	107.823	108.168
Cu 324.754	111.973	112.222	111.139
Fe 271.441	6489.34	6447.96	6455.78
K 766.491	6915.70	6901.83	6886.35
Mg 279.078	6918.58	6896.29	6908.38
Mn 257.610	822.988	820.108	821.116
Mo 202.032	106.092	105.291	105.394
Na 330.237	96491.5x	96483.9x	96893.0x
Ni 231.604	109.413	109.310	108.394
Pb 220.353	49.3888	50.9888	53.7523
Sb 206.834	56.5531	52.8159	54.0517
Se 196.026	109.299	111.927	108.963
Sn 189.925	205.305	204.539	209.015
Sr 216.596	184.454	182.432	183.855
Ti 334.941	107.397	106.963	106.864
Tl 190.794	39.1409	36.5270	39.0891
V 292.401	109.820	108.901	108.866
Zn 206.200	190.922	189.203	191.203

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	54.9928b	ppb	0.3822	0.7	4103.21
Al 308.215	6390.08b	ppb	9.4458	0.1	46578.1
As 188.980	108.510b	ppb	0.7565	0.7	86.8243
B 249.678	219.663b	ppb	0.8201	0.4	3908.76
Ba 389.178	147.404b	ppb	0.6146	0.4	3801.14
Be 313.042	52.9310b	ppb	0.1289	0.2	105056
Ca 370.602	23644b	ppb	3.630	0.0	71607
Cd 226.502	51.6941b	ppb	0.2259	0.4	2930.44
Co 228.615	57.7788b	ppb	0.2844	0.5	800.364
Cr 267.716	108.217b	ppb	0.4202	0.4	6498.17
Cu 324.754	111.778b	ppb	0.5672	0.5	7138.98
Fe 271.441	6464.36b	ppb	21.9858	0.3	11624.7
K 766.491	6901.29b	ppb	14.6821	0.2	242952
Mg 279.078	6907.75b	ppb	11.1568	0.2	19791.5
Mn 257.610	821.404b	ppb	1.4614	0.2	218824
Mo 202.032	105.592b	ppb	0.4355	0.4	889.024
Na 330.237	96622.8xb	ppb	234.040	0.2	5304.94
Ni 231.604	109.039b	ppb	0.5611	0.5	413.330
Pb 220.353	51.3766b	ppb	2.2075	4.3	122.591
Sb 206.834	54.4736b	ppb	1.9040	3.5	93.4784
Se 196.026	110.063b	ppb	1.6233	1.5	61.6220
Sn 189.925	206.286b	ppb	2.3938	1.2	218.690
Sr 216.596	183.580b	ppb	1.0387	0.6	3011.99
Ti 334.941	107.075b	ppb	0.2833	0.3	33213.9
Tl 190.794	38.2523b	ppb	1.4944	3.9	44.3222
V 292.401	109.196b	ppb	0.5408	0.5	3197.76
Zn 206.200	190.443b	ppb	1.0828	0.6	325.773

mb 680-287255/1-a (Samp) **8/2/2013, 9:49:28 PM** **Rack 3, Tube 8**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	-0.1445u	0.1274	-0.1512u
Al 308.215	0.7391	1.4922	0.7559
As 188.980	-5.2872u	-3.3448u	-1.2265u
B 249.678	2.9317	3.7597	3.0218
Ba 389.178	-0.2090u	0.0471	0.3262
Be 313.042	-0.0332u	-0.0235u	-0.0336u
Ca 370.602	8.165	6.207	1.093
Cd 226.502	0.1220	0.0240	-0.0677u
Co 228.615	-0.1285u	0.3763	-0.1343u
Cr 267.716	-0.0843u	0.0317	0.0271
Cu 324.754	0.1097	0.7122	0.4540
Fe 271.441	-2.6038u	-0.3674u	-5.8613u
K 766.491	-0.3851u	-0.4084u	0.0272
Mg 279.078	-1.5956u	1.9054	0.8092
Mn 257.610	-0.1492u	-0.1112u	-0.1308u
Mo 202.032	-0.4017u	0.3452	-0.2166u
Na 330.237	103.506	12.9804	22.9880
Ni 231.604	0.0629	0.2723	-0.6574u
Pb 220.353	-1.1308u	-2.5605u	-1.0320u
Sb 206.834	3.8808	-2.5634u	1.4136
Se 196.026	2.7663	2.3670	3.0317
Sn 189.925	1.4318	0.9806	-3.3732u
Sr 216.596	0.0068	-0.3788u	-0.3025u
Ti 334.941	-0.0302u	-0.0031u	0.0849
Tl 190.794	1.3972	-3.5992u	-0.7402u
V 292.401	-0.1408u	0.2806	0.2400
Zn 206.200	1.6616	-0.4637u	1.4058

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0561	ppb	0.1590	283.2	-9.5474
Al 308.215	0.9957	ppb	0.4300	43.2	266.704
As 188.980	-3.2861	ppb	2.0310	61.8	-11.6699
B 249.678	3.2377	ppb	0.4543	14.0	182.479
Ba 389.178	0.0548	ppb	0.2677	488.8	2.0088
Be 313.042	-0.0301	ppb	0.0057	18.9	-191.663
Ca 370.602	5.155	ppb	3.652	70.8	9.954
Cd 226.502	0.0261	ppb	0.0948	363.7	22.3821
Co 228.615	0.0379	ppb	0.2932	774.3	-8.1357
Cr 267.716	-0.0085	ppb	0.0657	774.0	32.1493
Cu 324.754	0.4253	ppb	0.3023	71.1	106.758
Fe 271.441	-2.9442	ppb	2.7627	93.8	15.6451
K 766.491	-0.2554	ppb	0.2451	95.9	244.994
Mg 279.078	0.3730	ppb	1.7908	480.1	36.3929
Mn 257.610	-0.1304	ppb	0.0190	14.6	61.8771
Mo 202.032	-0.0910	ppb	0.3889	427.2	8.2833
Na 330.237	46.4914	ppb	49.6287	106.7	53.4633
Ni 231.604	-0.1074	ppb	0.4877	454.1	-3.4995
Pb 220.353	-1.5744	ppb	0.8554	54.3	14.8719
Sb 206.834	0.9103	ppb	3.2515	357.2	6.7157
Se 196.026	2.7217	ppb	0.3346	12.3	0.8461
Sn 189.925	-0.3203	ppb	2.6535	828.5	-8.7684
Sr 216.596	-0.2248	ppb	0.2042	90.8	8.0708
Ti 334.941	0.0172	ppb	0.0601	349.4	-37.5946
Tl 190.794	-0.9808	ppb	2.5069	255.6	-10.8948
V 292.401	0.1266	ppb	0.2324	183.6	-5.1021
Zn 206.200	0.8679	ppb	1.1603	851.7	1.7693

lcs 680-287255/2-a (Samp) **8/2/2013, 9:54:04 PM** **Rack 3, Tube 9**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	55.0660	55.0766	54.9449
Al 308.215	4884.63	4892.86	4882.32
As 188.980	108.608	107.671	110.838
B 249.678	201.817	201.064	200.936
Ba 389.178	106.325	106.042	106.617
Be 313.042	52.8255	52.8364	52.7204
Ca 370.602	5099	5135	5134
Cd 226.502	52.3920	52.6045	52.4615
Co 228.615	52.9551	53.4585	53.8975
Cr 267.716	109.210	109.180	108.963
Cu 324.754	109.145	109.415	108.895
Fe 271.441	5141.65	5145.28	5134.57
K 766.491	5109.81	5101.53	5056.38
Mg 279.078	5160.33	5170.89	5157.00
Mn 257.610	543.376	543.894	543.325
Mo 202.032	108.188	108.118	107.446
Na 330.237	4800.65	4922.62	4903.14
Ni 231.604	105.417	104.935	103.794
Pb 220.353	50.5930	50.5033	50.3205
Sb 206.834	54.7642	53.3016	51.4525
Se 196.026	100.814	108.525	107.277
Sn 189.925	207.357	209.320	209.852
Sr 216.596	108.190	108.111	107.225
Ti 334.941	103.690	103.734	103.690
Tl 190.794	41.2935	39.6395	40.0056
V 292.401	105.960	105.888	106.752
Zn 206.200	106.286	104.846	107.304

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	55.0292	ppb	0.0732	0.1	4108.11
Al 308.215	4886.60	ppb	5.5379	0.1	35676.8
As 188.980	109.039	ppb	1.6267	1.5	87.2864
B 249.678	201.272	ppb	0.4758	0.2	3593.99
Ba 389.178	106.328	ppb	0.2876	0.3	2743.57
Be 313.042	52.7941	ppb	0.0641	0.1	104788
Ca 370.602	5123	ppb	20.26	0.4	15276
Cd 226.502	52.4860	ppb	0.1084	0.2	2969.65
Co 228.615	53.4370	ppb	0.4716	0.9	739.335
Cr 267.716	109.118	ppb	0.1346	0.1	6548.02
Cu 324.754	109.152	ppb	0.2598	0.2	6972.86
Fe 271.441	5140.50	ppb	5.4435	0.1	9249.52
K 766.491	5089.24	ppb	28.7567	0.6	179227
Mg 279.078	5162.74	ppb	7.2514	0.1	14802.3
Mn 257.610	543.531	ppb	0.3151	0.1	144839
Mo 202.032	107.917	ppb	0.4096	0.4	908.498
Na 330.237	4875.47	ppb	65.5231	1.3	312.632
Ni 231.604	104.715	ppb	0.8333	0.8	396.791
Pb 220.353	50.4723	ppb	0.1389	0.3	120.604
Sb 206.834	53.1727	ppb	1.6596	3.1	91.2935
Se 196.026	105.539	ppb	4.1391	3.9	58.9877
Sn 189.925	208.843	ppb	1.3144	0.6	221.450
Sr 216.596	107.842	ppb	0.5363	0.5	1772.69
Ti 334.941	103.705	ppb	0.0253	0.0	32167.1
Tl 190.794	40.3129	ppb	0.8687	2.2	47.5536
V 292.401	106.200	ppb	0.4792	0.5	3109.36
Zn 206.200	106.145	ppb	1.2347	1.2	181.512

680-92732-a-5-b (Samp) **8/2/2013, 9:58:41 PM** **Rack 3, Tube 10**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.1468u	-0.1756u	-0.3571u
Al 308.215	108.844	107.428	108.700
As 188.980	-0.5668u	-0.9073u	-4.1039u
B 249.678	413.838	411.032	406.705
Ba 389.178	39.3765	39.4211	37.4139
Be 313.042	1.4779	1.4703	1.4418
Ca 370.602	56322	55970	55462
Cd 226.502	-0.0803	-0.0340	-0.1390
Co 228.615	4.4748	5.3001	5.6260
Cr 267.716	4.3420	4.3327	4.3671
Cu 324.754	3.9139	3.4013	3.3502
Fe 271.441	3220.24	3212.27	3181.67
K 766.491	15912.8	15817.6	15721.5
Mg 279.078	2444.53	2436.45	2406.61
Mn 257.610	254.800	253.327	250.488
Mo 202.032	111.284	110.417	108.668
Na 330.237	25786.5	25590.3	25315.9
Ni 231.604	2.4899	2.8657	3.3564
Pb 220.353	5.8889	0.3777	3.0478
Sb 206.834	0.8082u	2.9740	4.3120
Se 196.026	0.7411	3.5969	0.0507
Sn 189.925	6.4170	6.6428	5.5462
Sr 216.596	199.770	198.131	195.634
Ti 334.941	4.7668	4.7446	4.7798
Tl 190.794	-2.5492u	-1.1639u	-3.3887u
V 292.401	11.0210	10.9830	10.8939
Zn 206.200	9.3333	8.3157	8.4066

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.2265	ppb	0.1140	50.3	-30.2347
Al 308.215	108.324	ppb	0.7792	0.7	1049.59
As 188.980	-1.8593	ppb	1.9513	104.9	-10.4973
B 249.678	410.525	ppb	3.5933	0.9	7216.51
Ba 389.178	38.7371	ppb	1.1462	3.0	1003.90
Be 313.042	1.4633	ppb	0.0191	1.3	2775.33
Ca 370.602	55918	ppb	432.3	0.8	170102
Cd 226.502	-0.0844	ppb	0.0526	62.3	29.7906
Co 228.615	5.1336	ppb	0.5934	11.6	59.7910
Cr 267.716	4.3473	ppb	0.0178	0.4	294.873
Cu 324.754	3.5551	ppb	0.3118	8.8	309.194
Fe 271.441	3204.72	ppb	20.3600	0.6	5769.94
K 766.491	15817.3	ppb	95.6331	0.6	556501
Mg 279.078	2429.19	ppb	19.9749	0.8	6984.70
Mn 257.610	252.872	ppb	2.1916	0.9	67439.8
Mo 202.032	110.123	ppb	1.3327	1.2	927.211
Na 330.237	25564.2	ppb	236.391	0.9	1441.31
Ni 231.604	2.9040	ppb	0.4345	15.0	8.0820
Pb 220.353	3.1048	ppb	2.7560	88.8	24.5140
Sb 206.834	2.6980	ppb	1.7681	65.5	7.5489
Se 196.026	1.4629	ppb	1.8800	128.5	0.2205
Sn 189.925	6.2020	ppb	0.5791	9.3	-1.5458
Sr 216.596	197.845	ppb	2.0830	1.1	3247.97
Ti 334.941	4.7637	ppb	0.0178	0.4	1445.76
Tl 190.794	-2.3673	ppb	1.1235	47.5	-13.3815
V 292.401	10.9660	ppb	0.0652	0.6	295.177
Zn 206.200	8.6852	ppb	0.5631	6.5	15.1649

680-92732-a-4-b (Samp) **8/2/2013, 10:03:17 PM** **Rack 3, Tube 11**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	-0.3494u	0.0281u	0.0215u
Al 308.215	844.997	848.785	837.440
As 188.980	-1.6984u	1.1209	8.0279
B 249.678	390.435	392.537	391.717
Ba 389.178	45.4278	45.6457	46.4950
Be 313.042	0.5258	0.5333	0.5405
Ca 370.602	80437	80730	80545
Cd 226.502	-0.1230	-0.0285	0.0154
Co 228.615	2.7969	2.1502	3.2020
Cr 267.716	3.3856	3.4823	3.3901
Cu 324.754	7.4554	7.1929	7.1448
Fe 271.441	3505.09	3501.76	3488.57
K 766.491	25824.2	26035.1	26098.9
Mg 279.078	3211.03	3214.34	3217.93
Mn 257.610	252.682	253.066	253.264
Mo 202.032	70.1095	70.6611	71.6178
Na 330.237	24975.8	24883.5	24850.9
Ni 231.604	3.7762	4.7164	4.6629
Pb 220.353	4.6531	4.5044	3.0935
Sb 206.834	7.3435	10.5895	4.2142
Se 196.026	-1.4717u	3.9303	-3.2707u
Sn 189.925	27.7055	29.2350	27.8405
Sr 216.596	386.089	386.344	386.393
Ti 334.941	28.4898	28.6710	28.6094
Tl 190.794	-2.3550u	-2.6136u	0.6494
V 292.401	11.5828	11.7290	11.7917
Zn 206.200	26.1643	25.3227	24.9213

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0999	ppb	0.2161	216.2	-29.3184
Al 308.215	843.741	ppb	5.7761	0.7	6379.79
As 188.980	2.4834	ppb	5.0043	201.5	-6.6483
B 249.678	391.563	ppb	1.0593	0.3	6887.99
Ba 389.178	45.8562	ppb	0.5639	1.2	1188.47
Be 313.042	0.5332	ppb	0.0073	1.4	941.493
Ca 370.602	80571	ppb	148.4	0.2	245189
Cd 226.502	-0.0454	ppb	0.0707	155.8	33.2597
Co 228.615	2.7163	ppb	0.5305	19.5	27.9260
Cr 267.716	3.4193	ppb	0.0546	1.6	239.617
Cu 324.754	7.2643	ppb	0.1672	2.3	542.001
Fe 271.441	3498.48	ppb	8.7357	0.2	6296.47
K 766.491	25986.1	ppb	143.719	0.6	914106
Mg 279.078	3214.43	ppb	3.4477	0.1	9232.42
Mn 257.610	253.004	ppb	0.2961	0.1	67483.8
Mo 202.032	70.7961	ppb	0.7632	1.1	599.224
Na 330.237	24903.4	ppb	64.7487	0.3	1404.89
Ni 231.604	4.3851	ppb	0.5280	12.0	13.7546
Pb 220.353	4.0837	ppb	0.8607	21.1	26.5572
Sb 206.834	7.3824	ppb	3.1878	43.2	15.9051
Se 196.026	-0.2707	ppb	3.7477	1384.4	-0.7558
Sn 189.925	28.2603	ppb	0.8468	3.0	22.7459
Sr 216.596	386.276	ppb	0.1634	0.0	6324.74
Ti 334.941	28.5901	ppb	0.0921	0.3	8844.10
Tl 190.794	-1.4397	ppb	1.8139	126.0	-12.0662
V 292.401	11.7012	ppb	0.1072	0.9	324.607
Zn 206.200	25.4694	ppb	0.6343	2.5	43.8920

680-92732-a-7-b (Samp) **8/2/2013, 10:07:53 PM** **Rack 3, Tube 12**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.2689	-0.0631u	0.0538u
Al 308.215	234.215	235.721	230.326
As 188.980	-3.2381u	-2.6318u	-2.3463u
B 249.678	298.621	301.788	298.512
Ba 389.178	71.7485	73.5552	71.8838
Be 313.042	1.6305	1.6497	1.6320
Ca 370.602	78557	79267	77850
Cd 226.502	-0.0147	-0.2246	0.0171
Co 228.615	0.2845u	0.7184	0.0273u
Cr 267.716	3.4126	3.2023	3.1113
Cu 324.754	4.8190	4.7990	4.7044
Fe 271.441	4380.04	4433.65	4361.05
K 766.491	12978.6	13003.3	12801.4
Mg 279.078	6870.96	6944.00	6830.85
Mn 257.610	392.476	396.938	390.025
Mo 202.032	306.629	310.847	304.303
Na 330.237	37520.6	37903.2	37118.4
Ni 231.604	2.9518	3.0364	2.6351
Pb 220.353	0.9045	1.2013	-1.5938u
Sb 206.834	4.6908	-0.6188u	-0.1553u
Se 196.026	-1.0212u	2.3834	-0.7917u
Sn 189.925	8.2281	4.5909	7.9285
Sr 216.596	372.519	375.952	370.070
Ti 334.941	9.5449	9.6650	9.4878
Tl 190.794	-3.4920u	-2.3199u	-2.0046u
V 292.401	11.7166	12.3809	12.3501
Zn 206.200	20.5962	20.1377	19.3365

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0866	ppb	0.1684	194.5	-14.3349
Al 308.215	233.421	ppb	2.7838	1.2	1969.40
As 188.980	-2.7387	ppb	0.4554	16.6	-11.3624
B 249.678	299.640	ppb	1.8608	0.6	5296.57
Ba 389.178	72.3958	ppb	1.0063	1.4	1880.45
Be 313.042	1.6374	ppb	0.0107	0.7	3095.94
Ca 370.602	78558	ppb	708.2	0.9	238985
Cd 226.502	-0.0741	ppb	0.1313	177.2	35.3930
Co 228.615	0.3434	ppb	0.3493	101.7	-13.8103
Cr 267.716	3.2421	ppb	0.1546	4.8	230.293
Cu 324.754	4.7741	ppb	0.0612	1.3	393.477
Fe 271.441	4391.58	ppb	37.6507	0.9	7898.29
K 766.491	12927.8	ppb	110.149	0.9	454884
Mg 279.078	6881.93	ppb	57.3683	0.8	19728.9
Mn 257.610	393.146	ppb	3.5051	0.9	104824
Mo 202.032	307.260	ppb	3.3169	1.1	2571.17
Na 330.237	37514.1	ppb	392.428	1.0	2091.20
Ni 231.604	2.8744	ppb	0.2116	7.4	8.0208
Pb 220.353	0.1707	ppb	1.5352	899.6	18.3764
Sb 206.834	1.3055	ppb	2.9409	225.3	1.2844
Se 196.026	0.1902	ppb	1.9029	1000.6	-0.4528
Sn 189.925	6.9159	ppb	2.0190	29.2	-0.7414
Sr 216.596	372.847	ppb	2.9548	0.8	6102.18
Ti 334.941	9.5659	ppb	0.0905	0.9	2957.43
Tl 190.794	-2.6055	ppb	0.7837	30.1	-14.0690
V 292.401	12.1492	ppb	0.3750	3.1	294.162
Zn 206.200	20.0235	ppb	0.6376	855.2	34.5844

680-92732-a-9-b (Samp) **8/2/2013, 10:21:42 PM** **Rack 3, Tube 15**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	-0.1107u	-0.2740u	0.2432
Al 308.215	519.431	521.191	517.936
As 188.980	-0.1591u	-3.4801u	2.1808
B 249.678	168.584	167.930	168.324
Ba 389.178	41.2374	41.9079	41.5091
Be 313.042	0.1832	0.1806	0.1713
Ca 370.602	36708	36674	36626
Cd 226.502	-0.0020	0.1092	-0.0134
Co 228.615	0.5733	0.2016u	0.4302
Cr 267.716	2.2747	2.5273	2.2748
Cu 324.754	11.5509	12.4247	12.2532
Fe 271.441	508.655	503.403	509.102
K 766.491	47984.3x	47972.2x	48265.3x
Mg 279.078	1239.48	1236.78	1239.37
Mn 257.610	33.8020	33.8297	33.8501
Mo 202.032	124.383	125.025	125.180
Na 330.237	18891.5	18894.5	18984.8
Ni 231.604	3.9207	2.1441	2.9472
Pb 220.353	2.5702	5.2621	3.7885
Sb 206.834	7.6462	8.5635	8.2720
Se 196.026	4.3669	5.2520	1.6460
Sn 189.925	-1.8828u	3.3429	-1.4475u
Sr 216.596	185.827	184.828	186.293
Ti 334.941	5.5509	5.5675	5.5285
Tl 190.794	0.6833	-3.6726u	-2.2816u
V 292.401	10.0552	9.5419	9.9132
Zn 206.200	141.554	139.127	138.172

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0471b	ppb	0.2644	561.0	-17.1855
Al 308.215	519.519b	ppb	1.6290	0.3	4032.73
As 188.980	-0.4861b	ppb	2.8446	585.2	-9.2493
B 249.678	168.279b	ppb	0.3290	0.2	3034.85
Ba 389.178	41.5514b	ppb	0.3372	0.8	1068.31
Be 313.042	0.1784b	ppb	0.0063	3.5	210.745
Ca 370.602	36669b	ppb	41.08	0.1	111664
Cd 226.502	0.0313b	ppb	0.0678	216.7	24.7229
Co 228.615	0.4017b	ppb	0.1875	46.7	-7.0384
Cr 267.716	2.3589b	ppb	0.1458	6.2	174.103
Cu 324.754	12.0763b	ppb	0.4630	3.8	846.491
Fe 271.441	507.053b	ppb	3.1693	0.6	930.651
K 766.491	48073.9xb	ppb	165.799	0.3	1690870
Mg 279.078	1238.54b	ppb	1.5285	0.1	3580.13
Mn 257.610	33.8272b	ppb	0.0241	0.1	9114.42
Mo 202.032	124.863b	ppb	0.4224	0.3	1050.29
Na 330.237	18923.6b	ppb	53.0003	0.3	1078.65
Ni 231.604	3.0040b	ppb	0.8897	29.6	8.3977
Pb 220.353	3.8736b	ppb	1.3480	34.8	25.7513
Sb 206.834	8.1606b	ppb	0.4687	5.7	15.9131
Se 196.026	3.7550b	ppb	1.8793	50.0	1.4403
Sn 189.925	0.0042b	ppb	2.8996	69433.8	-8.3816
Sr 216.596	185.649b	ppb	0.7489	0.4	3042.13
Ti 334.941	5.5490b	ppb	0.0196	0.4	1683.78
Tl 190.794	-1.7569b	ppb	2.2248	126.6	-12.1452
V 292.401	9.8368b	ppb	0.2651	2.7	259.243
Zn 206.200	139.618b	ppb	1.7437	856.3	239.182

680-92732-c-10-b (Samp) **8/2/2013, 10:26:18 PM** **Rack 3, Tube 16**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.0424u	-0.1213u	-0.0957u
Al 308.215	264.057	260.944	260.242
As 188.980	-4.0923u	0.5885	-3.9451u
B 249.678	227.236	226.560	227.063
Ba 389.178	47.4905	48.3012	47.1203
Be 313.042	1.0115	0.9997	1.0089
Ca 370.602	59819	59344	59361
Cd 226.502	-0.1167	-0.1325	0.0555
Co 228.615	0.2046	0.5349	0.1744u
Cr 267.716	3.0591	3.2245	3.3148
Cu 324.754	4.6365	4.7496	3.7278
Fe 271.441	4353.87	4352.59	4356.27
K 766.491	21922.3	21825.0	21674.9
Mg 279.078	3208.62	3206.39	3205.33
Mn 257.610	240.457	239.571	239.801
Mo 202.032	93.0288	92.9821	91.3166
Na 330.237	20414.2	20590.5	20549.2
Ni 231.604	2.3579	2.3523	2.9956
Pb 220.353	0.4626	2.0908	0.8171
Sb 206.834	2.0969	4.3327	1.4512
Se 196.026	1.0601	12.3268	1.2967
Sn 189.925	4.5189	3.7632	3.6564
Sr 216.596	253.195	253.224	252.699
Ti 334.941	11.7598	11.7388	11.7245
Tl 190.794	-1.9720u	-1.4924u	-0.8007u
V 292.401	6.7031	6.8512	6.9480
Zn 206.200	21.4163	20.4988	19.6969

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0582	ppb	0.0881	151.3	-20.2699
Al 308.215	261.748	ppb	2.0302	0.8	2162.05
As 188.980	-2.4830	ppb	2.6610	107.2	-11.0541
B 249.678	226.953	ppb	0.3511	0.2	4039.94
Ba 389.178	47.6373	ppb	0.6040	1.3	1235.44
Be 313.042	1.0067	ppb	0.0062	0.6	1872.19
Ca 370.602	59508	ppb	269.6	0.5	180952
Cd 226.502	-0.0646	ppb	0.1043	161.4	35.8894
Co 228.615	0.3046	ppb	0.2000	65.6	-6.9932
Cr 267.716	3.1994	ppb	0.1297	4.1	226.590
Cu 324.754	4.3713	ppb	0.5602	12.8	360.564
Fe 271.441	4354.24	ppb	1.8656	0.0	7831.06
K 766.491	21807.4	ppb	124.607	0.6	767155
Mg 279.078	3206.78	ppb	1.6826	0.1	9211.24
Mn 257.610	239.943	ppb	0.4597	0.2	64009.5
Mo 202.032	92.4425	ppb	0.9754	1.1	779.706
Na 330.237	20518.0	ppb	92.2186	0.4	1166.05
Ni 231.604	2.5686	ppb	0.3698	14.4	6.8505
Pb 220.353	1.1235	ppb	0.8562	76.2	20.6154
Sb 206.834	2.6269	ppb	1.5121	57.6	7.8156
Se 196.026	4.8945	ppb	6.4376	131.5	2.1560
Sn 189.925	3.9795	ppb	0.4702	11.8	-3.9925
Sr 216.596	253.039	ppb	0.2954	0.1	4150.17
Ti 334.941	11.7410	ppb	0.0178	0.2	3615.56
Tl 190.794	-1.4217	ppb	0.5888	41.4	-12.1378
V 292.401	6.8341	ppb	0.1233	1.8	176.388
Zn 206.200	20.5373	ppb	0.8603	4.2	35.4637

680-92772-b-2-a (Samp) **8/2/2013, 10:30:55 PM** **Rack 3, Tube 17**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	-0.1811u	-0.1942u	-0.2209u
Al 308.215	528.054	531.304	530.095
As 188.980	-6.6186u	-2.6592u	-0.4951u
B 249.678	30.0010	30.1737	30.3670
Ba 389.178	52.1555	52.4231	52.2358
Be 313.042	0.2244	0.2300	0.2309
Ca 370.602	7658	7676	7651
Cd 226.502	0.5220	0.4627	0.7152
Co 228.615	34.5149	35.2712	35.0867
Cr 267.716	0.3627	0.0585	0.1243
Cu 324.754	7.5698	7.3601	7.4026
Fe 271.441	40.3134	47.3091	46.5293
K 766.491	1894.03	1893.53	1890.67
Mg 279.078	2119.08	2135.42	2132.29
Mn 257.610	223.101	224.663	223.954
Mo 202.032	-0.2265u	-0.1700u	0.0082
Na 330.237	35806.2	35846.6	35833.6
Ni 231.604	11.9751	11.8859	11.5585
Pb 220.353	-0.6137u	1.8899	0.3933
Sb 206.834	4.1035	0.8991	2.4468
Se 196.026	-0.4118u	0.6476	-0.2484u
Sn 189.925	1.5304	-0.4457u	-0.7459u
Sr 216.596	55.6750	56.1903	56.3998
Ti 334.941	-0.0009	0.0644	0.0354
Tl 190.794	-1.9286u	-2.4059u	-1.7182u
V 292.401	-0.0822u	-0.0730u	0.0889
Zn 206.200	98.8941	98.1655	98.8593

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1987	ppb	0.0203	10.2	-21.7703
Al 308.215	529.817	ppb	1.6427	0.3	4099.64
As 188.980	-3.2577	ppb	3.1053	95.3	-11.6380
B 249.678	30.1806	ppb	0.1831	0.6	648.180
Ba 389.178	52.2715	ppb	0.1373	0.3	1343.59
Be 313.042	0.2285	ppb	0.0035	1.5	320.569
Ca 370.602	7661	ppb	12.82	0.2	23335
Cd 226.502	0.5666	ppb	0.1320	23.3	52.4883
Co 228.615	34.9576	ppb	0.3944	1.1	480.889
Cr 267.716	0.1818	ppb	0.1600	88.0	45.5266
Cu 324.754	7.4442	ppb	0.1108	1.5	549.739
Fe 271.441	44.7173	ppb	3.8338	8.6	105.852
K 766.491	1892.74	ppb	1.8137	0.1	66816.1
Mg 279.078	2128.93	ppb	8.6695	0.4	6124.82
Mn 257.610	223.906	ppb	0.7818	0.3	59716.1
Mo 202.032	-0.1294	ppb	0.1225	94.7	7.9605
Na 330.237	35828.8	ppb	20.6390	0.1	1999.64
Ni 231.604	11.8065	ppb	0.2194	1.9	41.8925
Pb 220.353	0.5565	ppb	1.2598	226.4	19.2301
Sb 206.834	2.4831	ppb	1.6025	64.5	9.2615
Se 196.026	-0.0042	ppb	0.5704	13593.9	-0.6272
Sn 189.925	0.1129	ppb	1.2367	1095.0	-8.2703
Sr 216.596	56.0883	ppb	0.3730	0.7	927.070
Ti 334.941	0.0330	ppb	0.0327	99.2	-25.1477
Tl 190.794	-2.0176	ppb	0.3524	17.5	-12.3861
V 292.401	-0.0221	ppb	0.0963	435.3	-9.7946
Zn 206.200	98.6396	ppb	0.4110	858.4	169.067

680-92772-b-3-a (Samp) **8/2/2013, 10:35:31 PM** **Rack 3, Tube 18**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.0434	0.1164	0.3572
Al 308.215	36.1242	37.9436	36.7779
As 188.980	-1.2372u	-1.6138u	-3.7710u
B 249.678	42.4400	42.8276	43.2313
Ba 389.178	38.6993	38.0284	38.5243
Be 313.042	0.1054	0.1018	0.1047
Ca 370.602	16199	16214	16195
Cd 226.502	0.1384	0.0630	0.0779
Co 228.615	11.1751	11.2284	11.5431
Cr 267.716	-0.0847u	0.1267	0.0035
Cu 324.754	2.0155	2.1961	2.4486
Fe 271.441	3840.72	3843.06	3839.75
K 766.491	1170.69	1173.47	1175.83
Mg 279.078	2220.18	2221.71	2226.38
Mn 257.610	184.330	185.001	184.746
Mo 202.032	0.6912	0.1158	0.1346
Na 330.237	29992.6	30275.4	30245.9
Ni 231.604	3.9982	3.1431	3.0161
Pb 220.353	0.7792	-0.7271u	0.4942
Sb 206.834	4.4884	0.8690	2.0827
Se 196.026	-2.1025u	1.3467	8.8578
Sn 189.925	-2.0022u	0.0699	-0.3096u
Sr 216.596	83.8562	84.9273	84.5798
Ti 334.941	0.2664	0.3140	0.3135
Tl 190.794	0.1149u	-1.0767u	-0.4382u
V 292.401	0.2184	0.4547	0.4056
Zn 206.200	40.4131	39.0909	41.6069

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1723	ppb	0.1642	95.3	4.4660
Al 308.215	36.9485	ppb	0.9216	2.5	526.818
As 188.980	-2.2073	ppb	1.3672	61.9	-10.7721
B 249.678	42.8329	ppb	0.3957	0.9	857.817
Ba 389.178	38.4173	ppb	0.3480	0.9	995.487
Be 313.042	0.1040	ppb	0.0019	1.8	76.8458
Ca 370.602	16203	ppb	9.930	0.1	49065
Cd 226.502	0.0931	ppb	0.0399	42.8	42.3883
Co 228.615	11.3155	ppb	0.1989	1.8	149.953
Cr 267.716	0.0152	ppb	0.1062	699.8	36.3516
Cu 324.754	2.2201	ppb	0.2176	9.8	221.473
Fe 271.441	3841.17	ppb	1.6993	0.0	6912.14
K 766.491	1173.33	ppb	2.5701	0.2	41516.4
Mg 279.078	2222.75	ppb	3.2294	0.1	6395.40
Mn 257.610	184.693	ppb	0.3387	0.2	49291.2
Mo 202.032	0.3138	ppb	0.3269	104.2	11.4382
Na 330.237	30171.3	ppb	155.443	0.5	1691.40
Ni 231.604	3.3858	ppb	0.5341	15.8	9.9215
Pb 220.353	0.1821	ppb	0.8002	439.4	18.8062
Sb 206.834	2.4800	ppb	1.8421	74.3	9.3823
Se 196.026	2.7006	ppb	5.6042	207.5	0.9015
Sn 189.925	-0.7473	ppb	1.1033	147.6	-9.2151
Sr 216.596	84.4544	ppb	0.5464	0.6	1396.13
Ti 334.941	0.2980	ppb	0.0273	9.2	58.5018
Tl 190.794	-0.4666	ppb	0.5963	127.8	-10.5882
V 292.401	0.3596	ppb	0.1247	34.7	1.4881
Zn 206.200	40.3703	ppb	1.2586	3.1	69.4075

680-92772-b-4-a (Samp) **8/2/2013, 10:40:08 PM** **Rack 3, Tube 19**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.2211	0.0654	-0.1776u
Al 308.215	106.042	105.335	107.009
As 188.980	-2.4069u	-3.1421u	-4.9088u
B 249.678	46.2331	46.8954	46.5787
Ba 389.178	46.0614	46.6138	47.0359
Be 313.042	0.0731	0.0782	0.0780
Ca 370.602	17085	17042	17091
Cd 226.502	0.1585	0.2240	0.0325
Co 228.615	13.2205	12.7053	12.3163
Cr 267.716	0.2316	0.1807	0.1414
Cu 324.754	1.8615	2.0422	1.5439
Fe 271.441	2882.21	2887.46	2897.51
K 766.491	1283.20	1271.16	1274.93
Mg 279.078	2496.55	2491.32	2499.71
Mn 257.610	183.567	183.138	183.525
Mo 202.032	0.5252	-0.0679u	0.8656
Na 330.237	32260.5	32327.7	32276.9
Ni 231.604	3.2625	4.3732	3.1036
Pb 220.353	0.9575	-2.2937u	-1.9806u
Sb 206.834	-0.0739u	1.4558	5.6235
Se 196.026	-2.5777u	-4.1837u	4.8317
Sn 189.925	1.3200	-1.1037u	0.2421
Sr 216.596	90.8712	91.1420	90.8978
Ti 334.941	0.2582	0.3216	0.3300
Tl 190.794	-0.3390u	1.7357	-1.3371u
V 292.401	0.2059	0.3366	0.2772
Zn 206.200	45.1455	45.8436	46.3472

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0363	ppb	0.2009	553.8	-6.0048
Al 308.215	106.128	ppb	0.8407	0.8	1028.42
As 188.980	-3.4859	ppb	1.2859	36.9	-11.8849
B 249.678	46.5691	ppb	0.3312	0.7	924.697
Ba 389.178	46.5704	ppb	0.4887	1.0	1203.29
Be 313.042	0.0764	ppb	0.0029	3.8	22.1443
Ca 370.602	17073	ppb	26.43	0.2	51786
Cd 226.502	0.1383	ppb	0.0973	70.4	40.8190
Co 228.615	12.7473	ppb	0.4536	3.6	169.961
Cr 267.716	0.1845	ppb	0.0452	24.5	46.2226
Cu 324.754	1.8159	ppb	0.2523	13.9	195.613
Fe 271.441	2889.06	ppb	7.7761	0.3	5204.58
K 766.491	1276.43	ppb	6.1574	0.5	45142.2
Mg 279.078	2495.86	ppb	4.2341	0.2	7177.00
Mn 257.610	183.410	ppb	0.2365	0.1	48949.5
Mo 202.032	0.4410	ppb	0.4724	107.1	12.5533
Na 330.237	32288.3	ppb	35.0430	0.1	1806.85
Ni 231.604	3.5798	ppb	0.6917	19.3	10.6293
Pb 220.353	-1.1056	ppb	1.7936	162.2	16.1111
Sb 206.834	2.3351	ppb	2.9487	126.3	9.1139
Se 196.026	-0.6432	ppb	4.8089	747.6	-0.9879
Sn 189.925	0.1528	ppb	1.2143	794.8	-8.2229
Sr 216.596	90.9703	ppb	0.1493	0.2	1501.20
Ti 334.941	0.3033	ppb	0.0393	12.9	61.2262
Tl 190.794	0.0199	ppb	1.5675	7890.7	-9.7985
V 292.401	0.2732	ppb	0.0654	23.9	-1.1128
Zn 206.200	45.7788	ppb	0.6035	1.3	78.6500

680-92772-b-5-a (Samp) **8/2/2013, 10:44:44 PM** **Rack 3, Tube 20**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.2144	-0.2377u	0.3776
Al 308.215	224.772	223.322	218.727
As 188.980	-1.5278u	-6.2368u	1.8136
B 249.678	45.0502	44.8690	43.5746
Ba 389.178	45.8705	45.2929	44.5006
Be 313.042	0.0935	0.0972	0.0873
Ca 370.602	15536	15596	15324
Cd 226.502	0.1139	0.0316	0.0501
Co 228.615	12.8235	13.1854	12.3145
Cr 267.716	-0.0128	0.0824	0.1696
Cu 324.754	2.1169	1.8883	2.6610
Fe 271.441	1948.90	1942.43	1901.29
K 766.491	1338.57	1335.47	1315.44
Mg 279.078	2526.72	2526.95	2473.67
Mn 257.610	171.526	171.874	167.959
Mo 202.032	0.5077	-0.3572u	0.0432
Na 330.237	32279.1	32209.7	31607.7
Ni 231.604	5.4546	4.5281	3.9785
Pb 220.353	0.0781	-0.6960u	-2.0014u
Sb 206.834	1.8472	-1.1587u	5.3165
Se 196.026	3.9209	0.1073	0.6912
Sn 189.925	1.3057	0.6825	-0.8474u
Sr 216.596	84.0738	84.0464	81.9074
Ti 334.941	0.1828	0.2386	0.1475
Tl 190.794	-2.5796u	-1.2987u	-4.0442u
V 292.401	0.4434	0.1022	-0.0456u
Zn 206.200	48.7490	49.9624	50.3078

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1181	ppb	0.3188	269.9	0.3927
Al 308.215	222.274	ppb	3.1559	1.4	1870.62
As 188.980	-1.9837	ppb	4.0445	203.9	-10.5457
B 249.678	44.4979	ppb	0.8048	1.8	891.200
Ba 389.178	45.2213	ppb	0.6878	1.5	1167.32
Be 313.042	0.0927	ppb	0.0050	5.4	54.0289
Ca 370.602	15486	ppb	142.8	0.9	47025
Cd 226.502	0.0652	ppb	0.0432	66.3	32.6189
Co 228.615	12.7745	ppb	0.4375	3.4	170.312
Cr 267.716	0.0797	ppb	0.0912	114.4	39.6142
Cu 324.754	2.2221	ppb	0.3970	17.9	220.875
Fe 271.441	1930.87	ppb	25.8238	1.3	3485.94
K 766.491	1329.83	ppb	12.5549	0.9	47020.1
Mg 279.078	2509.11	ppb	30.6956	1.2	7214.92
Mn 257.610	170.453	ppb	2.1669	1.3	45497.6
Mo 202.032	0.0646	ppb	0.4328	670.2	9.4699
Na 330.237	32032.2	ppb	369.214	1.2	1793.16
Ni 231.604	4.6537	ppb	0.7460	16.0	14.7017
Pb 220.353	-0.8731	ppb	1.0510	120.4	16.4946
Sb 206.834	2.0017	ppb	3.2404	161.9	8.5487
Se 196.026	1.5732	ppb	2.0540	130.6	0.2544
Sn 189.925	0.3803	ppb	1.1079	291.4	-7.9734
Sr 216.596	83.3426	ppb	1.2429	1.5	1375.32
Ti 334.941	0.1896	ppb	0.0460	24.2	25.9127
Tl 190.794	-2.6408	ppb	1.3738	52.0	-13.5066
V 292.401	0.1666	ppb	0.2508	150.5	-4.1820
Zn 206.200	49.6731	ppb	0.8187	861.6	85.3027

680-92772-b-5-a SD^5 (Samp) **8/2/2013, 10:49:20 PM** **Rack 3, Tube 21**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	-0.0746u	0.2671	0.0850
Al 308.215	47.8309	47.8717	45.6909
As 188.980	-7.2646u	1.9939	1.9597
B 249.678	8.9882	8.8153	8.0721
Ba 389.178	9.1741	9.3580	9.7226
Be 313.042	-0.0108u	-0.0084u	-0.0133u
Ca 370.602	3257	3205	3140
Cd 226.502	0.0213	0.0703	0.0188
Co 228.615	2.2661	2.7319	2.1845
Cr 267.716	-0.0423u	-0.1795u	-0.2496u
Cu 324.754	0.2454	0.3950	0.2995
Fe 271.441	408.823	396.543	393.533
K 766.491	267.275	267.355	262.799
Mg 279.078	537.090	530.042	519.754
Mn 257.610	36.5580	36.1521	35.4405
Mo 202.032	-0.1729u	-0.3655u	-0.5040u
Na 330.237	6435.96	6311.38	6455.26
Ni 231.604	0.3446	1.5622	1.0694
Pb 220.353	-1.0204u	0.7536	-0.4656u
Sb 206.834	3.6617	-0.9868u	-1.2695u
Se 196.026	2.4189	2.4906	-8.8230u
Sn 189.925	1.0886	-0.4281u	-0.6787u
Sr 216.596	16.8733	17.6154	16.7184
Ti 334.941	0.0406	0.0654	0.0312
Tl 190.794	-3.0824u	-4.2424u	-1.1862u
V 292.401	0.1702	0.0081	-0.0044u
Zn 206.200	10.9034	10.6966	10.2729

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0925	ppb	0.1710	184.9	0.9357
Al 308.215	47.1312	ppb	1.2475	2.6	601.122
As 188.980	-1.1037	ppb	5.3355	483.4	-9.7511
B 249.678	8.6252	ppb	0.4868	5.6	274.663
Ba 389.178	9.4182	ppb	0.2792	3.0	243.613
Be 313.042	-0.0108	ppb	0.0025	22.9	-152.934
Ca 370.602	3201	ppb	58.55	1.8	9716
Cd 226.502	0.0368	ppb	0.0290	78.8	24.6522
Co 228.615	2.3942	ppb	0.2953	12.3	24.8883
Cr 267.716	-0.1571	ppb	0.1054	67.1	23.7326
Cu 324.754	0.3133	ppb	0.0757	24.2	99.8283
Fe 271.441	399.633	ppb	8.0997	2.0	738.043
K 766.491	265.810	ppb	2.6077	1.0	9601.72
Mg 279.078	528.962	ppb	8.7181	1.6	1548.90
Mn 257.610	36.0502	ppb	0.5657	1.6	9698.69
Mo 202.032	-0.3474	ppb	0.1663	47.9	6.1222
Na 330.237	6400.87	ppb	78.0926	1.2	399.075
Ni 231.604	0.9921	ppb	0.6125	61.7	0.7039
Pb 220.353	-0.2441	ppb	0.9075	371.8	17.6115
Sb 206.834	0.4685	ppb	2.7691	591.1	6.0217
Se 196.026	-1.3045	ppb	6.5113	499.1	-1.4121
Sn 189.925	-0.0061	ppb	0.9562	15707.2	-8.4177
Sr 216.596	17.0691	ppb	0.4794	2.8	291.017
Ti 334.941	0.0457	ppb	0.0177	38.6	-26.6005
Tl 190.794	-2.8370	ppb	1.5428	54.4	-13.6001
V 292.401	0.0580	ppb	0.0974	168.0	-7.1236
Zn 206.200	10.6243	ppb	0.3214	862.0	18.4690

680-92772-b-5-a PDS (Samp) **8/2/2013, 10:53:56 PM** **Rack 3, Tube 22**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	35.7354	35.4753	35.3123
Al 308.215	2083.89	2069.59	2071.75
As 188.980	206.251	200.280	199.349
B 249.678	511.977	508.556	511.948
Ba 389.178	248.036	245.631	247.318
Be 313.042	50.6592	50.1063	50.2919
Ca 370.602	17237	17083	17206
Cd 226.502	49.9223	49.5892	49.7861
Co 228.615	213.042	211.644	212.460
Cr 267.716	204.193	201.871	202.860
Cu 324.754	211.717	209.649	209.296
Fe 271.441	3844.25	3804.79	3822.31
K 766.491	3333.66	3305.31	3329.45
Mg 279.078	4482.03	4432.94	4450.18
Mn 257.610	372.167	370.433	371.658
Mo 202.032	204.697	203.802	204.451
Na 330.237	33877.0	33267.4	33671.6
Ni 231.604	202.216	201.263	200.687
Pb 220.353	195.229	194.815	195.310
Sb 206.834	194.741	193.862	191.148
Se 196.026	207.070	202.659	199.045
Sn 189.925	201.950	198.815	201.704
Sr 216.596	285.798	283.298	285.402
Ti 334.941	200.296	198.481	198.854
Tl 190.794	191.266	189.949	194.063
V 292.401	201.715	200.199	200.510
Zn 206.200	248.483	246.252	246.450

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	35.5076	ppb	0.2134	0.6	2640.00
Al 308.215	2075.08	ppb	7.7098	0.4	15268.4
As 188.980	201.960	ppb	3.7450	1.9	169.125
B 249.678	510.827	ppb	1.9668	0.4	8949.07
Ba 389.178	246.995	ppb	1.2348	0.5	6337.63
Be 313.042	50.3525	ppb	0.2814	0.6	99916.6
Ca 370.602	17175	ppb	81.77	0.5	52137
Cd 226.502	49.7659	ppb	0.1674	0.3	2812.15
Co 228.615	212.382	ppb	0.7025	0.3	2964.90
Cr 267.716	202.975	ppb	1.1653	0.6	12148.1
Cu 324.754	210.221	ppb	1.3082	0.6	13353.0
Fe 271.441	3823.78	ppb	19.7699	0.5	6910.32
K 766.491	3322.81	ppb	15.2995	0.5	117107
Mg 279.078	4455.05	ppb	24.9032	0.6	12781.0
Mn 257.610	371.419	ppb	0.8911	0.2	99015.2
Mo 202.032	204.317	ppb	0.4628	0.2	1712.29
Na 330.237	33605.3	ppb	310.134	0.9	1874.32
Ni 231.604	201.389	ppb	0.7724	0.4	765.442
Pb 220.353	195.118	ppb	0.2653	0.1	413.488
Sb 206.834	193.250	ppb	1.8729	1.0	316.535
Se 196.026	202.924	ppb	4.0191	2.0	113.840
Sn 189.925	200.823	ppb	1.7436	0.9	212.643
Sr 216.596	284.833	ppb	1.3438	0.5	4653.76
Ti 334.941	199.210	ppb	0.9587	0.5	61799.9
Tl 190.794	191.760	ppb	2.1008	1.1	265.036
V 292.401	200.808	ppb	0.8007	0.4	5887.22
Zn 206.200	247.062	ppb	1.2344	0.5	422.225

680-92772-b-5-b ms (Samp) **8/2/2013, 10:58:33 PM** **Rack 3, Tube 23**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	55.6723	55.4698	55.2079
Al 308.215	5132.85	5122.26	5133.99
As 188.980	110.684	107.865	109.888
B 249.678	239.859	240.230	240.552
Ba 389.178	149.632	149.152	149.619
Be 313.042	52.7014	52.6300	52.7744
Ca 370.602	19809	19841	19844
Cd 226.502	52.2740	52.2152	52.1925
Co 228.615	64.7850	64.5713	64.3409
Cr 267.716	107.982	108.136	108.492
Cu 324.754	110.598	109.333	110.371
Fe 271.441	6957.63	6970.77	6973.55
K 766.491	6659.04	6684.64	6650.31
Mg 279.078	7519.91	7514.16	7525.31
Mn 257.610	701.452	700.979	701.584
Mo 202.032	106.774	105.925	106.733
Na 330.237	35474.4	35234.7	35393.7
Ni 231.604	107.579	108.905	109.014
Pb 220.353	50.9109	50.4464	50.5824
Sb 206.834	47.2886	51.1152	52.9787
Se 196.026	101.155	108.108	110.629
Sn 189.925	207.373	206.860	207.777
Sr 216.596	185.025	185.049	184.277
Ti 334.941	102.752	102.845	103.192
Tl 190.794	39.3529	40.4871	39.2500
V 292.401	105.236	105.281	105.180
Zn 206.200	152.127	151.362	153.073

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	55.4500	ppb	0.2328	0.4	4136.79
Al 308.215	5129.70	ppb	6.4660	0.1	37439.1
As 188.980	109.479	ppb	1.4533	1.3	87.6528
B 249.678	240.214	ppb	0.3468	0.1	4262.85
Ba 389.178	149.468	ppb	0.2736	0.2	3856.47
Be 313.042	52.7019	ppb	0.0722	0.1	104607
Ca 370.602	19831	ppb	19.53	0.1	59946
Cd 226.502	52.2272	ppb	0.0420	0.1	2962.89
Co 228.615	64.5657	ppb	0.2221	0.3	895.293
Cr 267.716	108.203	ppb	0.2612	0.2	6495.54
Cu 324.754	110.101	ppb	0.6741	0.6	7033.38
Fe 271.441	6967.32	ppb	8.5039	0.1	12527.7
K 766.491	6664.66	ppb	17.8383	0.3	234630
Mg 279.078	7519.79	ppb	5.5769	0.1	21546.9
Mn 257.610	701.339	ppb	0.3179	0.0	186872
Mo 202.032	106.477	ppb	0.4785	0.4	896.385
Na 330.237	35367.6	ppb	121.960	0.3	1971.11
Ni 231.604	108.499	ppb	0.7989	0.7	411.261
Pb 220.353	50.6466	ppb	0.2388	0.5	121.151
Sb 206.834	50.4608	ppb	2.9009	5.7	87.0071
Se 196.026	106.631	ppb	4.9066	4.6	59.6552
Sn 189.925	207.337	ppb	0.4593	0.2	219.815
Sr 216.596	184.784	ppb	0.4388	0.2	3031.68
Ti 334.941	102.930	ppb	0.2319	0.2	31935.9
Tl 190.794	39.6966	ppb	0.6865	1.7	46.4455
V 292.401	105.232	ppb	0.0504	0.0	3080.84
Zn 206.200	152.187	ppb	0.8568	0.6	260.320

680-92772-b-5-c msd (Samp) **8/2/2013, 11:03:09 PM** **Rack 3, Tube 24**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	55.7221	54.6590	55.5346
Al 308.215	5109.46	5110.75	5110.42
As 188.980	108.599	110.267	106.338
B 249.678	240.998	240.450	240.873
Ba 389.178	149.688	149.834	149.983
Be 313.042	52.6481	52.5684	52.5406
Ca 370.602	20000	20037	20048
Cd 226.502	51.9793	52.1493	52.0399
Co 228.615	64.4420	65.0941	64.9571
Cr 267.716	107.754	107.813	107.759
Cu 324.754	110.219	110.667	110.273
Fe 271.441	6926.26	6947.11	6906.66
K 766.491	6645.58	6627.88	6635.42
Mg 279.078	7556.39	7557.82	7537.67
Mn 257.610	701.531	702.004	700.489
Mo 202.032	106.287	106.158	105.835
Na 330.237	36124.0	36035.8	36044.7
Ni 231.604	108.570	108.043	108.319
Pb 220.353	50.1619	52.3826	51.7675
Sb 206.834	55.1299	53.9618	49.7846
Se 196.026	107.418	106.972	107.417
Sn 189.925	207.120	206.795	209.127
Sr 216.596	187.424	186.276	187.029
Ti 334.941	102.684	102.643	102.455
Tl 190.794	40.7016	38.9704	41.4688
V 292.401	104.604	104.879	104.710
Zn 206.200	150.934	152.095	151.864

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	55.3052	ppb	0.5674	1.0	4125.86
Al 308.215	5110.21	ppb	0.6721	0.0	37297.8
As 188.980	108.401	ppb	1.9722	1.8	86.7033
B 249.678	240.774	ppb	0.2868	0.1	4272.63
Ba 389.178	149.835	ppb	0.1471	0.1	3865.87
Be 313.042	52.5857	ppb	0.0558	0.1	104376
Ca 370.602	20028	ppb	25.08	0.1	60550
Cd 226.502	52.0562	ppb	0.0862	0.2	2953.17
Co 228.615	64.8311	ppb	0.3438	0.5	899.016
Cr 267.716	107.775	ppb	0.0328	0.0	6470.01
Cu 324.754	110.386	ppb	0.2444	0.2	7051.38
Fe 271.441	6926.68	ppb	20.2268	0.3	12454.8
K 766.491	6636.30	ppb	8.8833	0.1	233633
Mg 279.078	7550.63	ppb	11.2404	0.1	21635.1
Mn 257.610	701.341	ppb	0.7753	0.1	186873
Mo 202.032	106.093	ppb	0.2327	0.2	893.184
Na 330.237	36068.1	ppb	48.5369	0.1	2009.27
Ni 231.604	108.311	ppb	0.2640	0.2	410.540
Pb 220.353	51.4373	ppb	1.1466	2.2	122.752
Sb 206.834	52.9588	ppb	2.8103	5.3	91.0381
Se 196.026	107.269	ppb	0.2571	0.2	60.0149
Sn 189.925	207.681	ppb	1.2632	0.6	220.194
Sr 216.596	186.910	ppb	0.5832	0.3	3066.34
Ti 334.941	102.594	ppb	0.1217	0.1	31831.9
Tl 190.794	40.3803	ppb	1.2798	3.2	47.4279
V 292.401	104.731	ppb	0.1390	0.1	3066.11
Zn 206.200	151.631	ppb	0.6145	0.4	259.370

680-92772-b-6-a (Samp) **8/2/2013, 11:16:59 PM** **Rack 3, Tube 27**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.1253u	0.5915	0.3936
Al 308.215	7.0806	8.6205	10.6936
As 188.980	-1.4719u	-6.6919u	-5.5807u
B 249.678	23.0692	23.3887	23.2035
Ba 389.178	15.0055	15.2338	14.5221
Be 313.042	-0.0242u	-0.0245u	-0.0318u
Ca 370.602	14513	14466	14428
Cd 226.502	0.0286	-0.1024u	0.0514
Co 228.615	0.2630	0.6268	-0.0123u
Cr 267.716	0.1962	0.2535	0.1922
Cu 324.754	3.1948	3.3322	3.3560
Fe 271.441	176.671	176.529	168.811
K 766.491	356.877	357.908	356.742
Mg 279.078	1522.80	1530.34	1520.83
Mn 257.610	8.4938	8.5016	8.4588
Mo 202.032	1.2898	1.7436	0.7970
Na 330.237	29984.0	30453.7	30156.9
Ni 231.604	0.4891	1.0913	1.2652
Pb 220.353	3.4946	-0.2618u	0.2021
Sb 206.834	2.2299	-0.0961u	2.0339
Se 196.026	1.0909	11.7119	1.6375
Sn 189.925	-0.9093u	0.0282	-3.6283u
Sr 216.596	44.0968	44.4798	43.7647
Ti 334.941	0.0861	0.0630	0.0695
Tl 190.794	-2.9334u	-0.8508u	-0.3576u
V 292.401	0.5687	0.7954	0.4444
Zn 206.200	14.8317	15.6053	15.0976

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.2866	ppb	0.3702	129.2	14.0425
Al 308.215	8.7982	ppb	1.8131	20.6	323.261
As 188.980	-4.5815	ppb	2.7497	60.0	-12.8144
B 249.678	23.2204	ppb	0.1604	0.7	527.544
Ba 389.178	14.9205	ppb	0.3634	2.4	386.851
Be 313.042	-0.0268	ppb	0.0043	16.1	-183.702
Ca 370.602	14469	ppb	42.19	0.3	44057
Cd 226.502	-0.0075	ppb	0.0830	1108.4	21.0397
Co 228.615	0.2925	ppb	0.3206	109.6	-4.6054
Cr 267.716	0.2140	ppb	0.0343	16.0	46.1890
Cu 324.754	3.2943	ppb	0.0870	2.6	287.929
Fe 271.441	174.003	ppb	4.4977	2.6	333.065
K 766.491	357.176	ppb	0.6378	0.2	12814.8
Mg 279.078	1524.65	ppb	5.0233	0.3	4399.87
Mn 257.610	8.4847	ppb	0.0228	0.3	2369.92
Mo 202.032	1.2768	ppb	0.4734	37.1	19.6793
Na 330.237	30198.2	ppb	237.592	0.8	1694.43
Ni 231.604	0.9485	ppb	0.4072	42.9	0.5374
Pb 220.353	1.1450	ppb	2.0480	178.9	20.4002
Sb 206.834	1.3892	ppb	1.2900	92.9	7.4691
Se 196.026	4.8134	ppb	5.9805	124.2	2.0286
Sn 189.925	-1.5031	ppb	1.8992	126.3	-10.0478
Sr 216.596	44.1138	ppb	0.3578	0.8	733.365
Ti 334.941	0.0729	ppb	0.0119	16.4	-15.3055
Tl 190.794	-1.3806	ppb	1.3672	99.0	-11.4879
V 292.401	0.6028	ppb	0.1780	29.5	8.4840
Zn 206.200	15.1782	ppb	0.3930	2.6	26.2570

680-92772-b-7-a (Samp) **8/2/2013, 11:21:47 PM** **Rack 3, Tube 28**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.3434	0.0705	0.1771
Al 308.215	6.1956	6.2617	6.4015
As 188.980	-4.6695u	-1.8791u	-0.7572u
B 249.678	30.2155	30.6199	30.1248
Ba 389.178	28.0791	28.3846	28.2933
Be 313.042	-0.0094u	-0.0143u	-0.0052u
Ca 370.602	17743	17741	17756
Cd 226.502	-0.0845u	0.0132	0.0236
Co 228.615	1.7011	1.8024	1.7385
Cr 267.716	0.1269	0.3570	0.3133
Cu 324.754	2.4677	1.6946	2.7336
Fe 271.441	861.121	862.041	859.201
K 766.491	507.706	506.192	506.637
Mg 279.078	1916.98	1911.05	1916.41
Mn 257.610	48.8315	49.1084	49.0562
Mo 202.032	1.0804	0.5307	0.4577
Na 330.237	29288.5	29385.8	29243.2
Ni 231.604	3.0518	1.7883	2.1078
Pb 220.353	0.4059	-1.3176u	-0.3759u
Sb 206.834	2.1437	0.2634	2.3506
Se 196.026	4.9212	-4.8238u	-2.3644u
Sn 189.925	1.2750	3.0625	-0.0208
Sr 216.596	72.7985	73.4093	72.4069
Ti 334.941	0.0428	0.0758	0.0929
Tl 190.794	-0.9630u	-0.8179u	-0.6933u
V 292.401	-0.0320u	0.0105u	0.0007u
Zn 206.200	22.5835	21.4405	23.1258

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1970	ppb	0.1376	69.8	6.2418
Al 308.215	6.2863	ppb	0.1051	1.7	305.056
As 188.980	-2.4352	ppb	2.0146	82.7	-10.9321
B 249.678	30.3201	ppb	0.2636	0.9	648.645
Ba 389.178	28.2524	ppb	0.1568	0.6	729.990
Be 313.042	-0.0097	ppb	0.0045	46.8	-148.213
Ca 370.602	17747	ppb	8.488	0.0	53991
Cd 226.502	-0.0159	ppb	0.0596	375.5	23.5235
Co 228.615	1.7474	ppb	0.0512	2.9	15.8148
Cr 267.716	0.2657	ppb	0.1222	46.0	49.6865
Cu 324.754	2.2986	ppb	0.5397	23.5	225.334
Fe 271.441	860.788	ppb	1.4493	0.2	1565.10
K 766.491	506.845	ppb	0.7780	0.2	18078.2
Mg 279.078	1914.81	ppb	3.2682	0.2	5516.08
Mn 257.610	48.9987	ppb	0.1472	0.3	13159.9
Mo 202.032	0.6896	ppb	0.3404	49.4	14.7441
Na 330.237	29305.8	ppb	72.8750	0.2	1645.52
Ni 231.604	2.3159	ppb	0.6570	28.4	5.7754
Pb 220.353	-0.4292	ppb	0.8630	201.1	17.2786
Sb 206.834	1.5859	ppb	1.1500	72.5	7.8260
Se 196.026	-0.7557	ppb	5.0678	670.6	-1.0972
Sn 189.925	1.4389	ppb	1.5481	107.6	-6.8082
Sr 216.596	72.8716	ppb	0.5052	0.7	1203.58
Ti 334.941	0.0705	ppb	0.0255	36.1	-13.9167
Tl 190.794	-0.8248	ppb	0.1350	16.4	-10.7769
V 292.401	-0.0069	ppb	0.0223	321.5	-9.4404
Zn 206.200	22.3833	ppb	0.8603	3.8	38.5935

680-92772-b-8-a (Samp) **8/2/2013, 11:26:24 PM** **Rack 3, Tube 29**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	-0.2871u	-0.2304u	-0.1894u
Al 308.215	218.170	217.942	218.740
As 188.980	-0.0393u	-2.7444u	-5.2232u
B 249.678	43.1325	42.8970	42.9560
Ba 389.178	41.7872	41.8492	41.5651
Be 313.042	0.0713	0.0731	0.0744
Ca 370.602	12463	12476	12499
Cd 226.502	0.0733	0.1379	-0.0216
Co 228.615	12.5156	12.6875	13.1995
Cr 267.716	-0.0065	0.0934	0.0246
Cu 324.754	1.8047	1.1430	2.0634
Fe 271.441	1362.62	1365.07	1352.04
K 766.491	1094.36	1100.64	1098.77
Mg 279.078	2694.95	2713.18	2712.97
Mn 257.610	392.418	393.405	394.288
Mo 202.032	0.3491	-0.0796u	-0.2295u
Na 330.237	32784.0	32852.3	32751.4
Ni 231.604	4.7437	5.2355	4.8545
Pb 220.353	-1.3451u	-1.7492u	-1.4305u
Sb 206.834	-0.1836u	2.7532	-1.3972u
Se 196.026	-3.5041u	1.4305	5.0028
Sn 189.925	0.9837	0.1085	-0.4799u
Sr 216.596	71.8133	72.8325	72.2493
Ti 334.941	-0.0254	-0.0099	-0.0267
Tl 190.794	-1.0048u	-2.8031u	-1.9005u
V 292.401	0.3158	0.1185	0.4127
Zn 206.200	26.4677	25.0695	26.7282

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.2356	ppb	0.0490	20.8	-24.5496
Al 308.215	218.284	ppb	0.4110	0.2	1841.67
As 188.980	-2.6690	ppb	2.5927	97.1	-11.1418
B 249.678	42.9952	ppb	0.1225	0.3	866.594
Ba 389.178	41.7338	ppb	0.1494	0.4	1077.80
Be 313.042	0.0729	ppb	0.0016	2.2	13.5174
Ca 370.602	12479	ppb	17.91	0.1	37916
Cd 226.502	0.0632	ppb	0.0802	126.9	30.0547
Co 228.615	12.8009	ppb	0.3557	2.8	170.649
Cr 267.716	0.0372	ppb	0.0511	137.4	38.1203
Cu 324.754	1.6703	ppb	0.4747	28.4	185.844
Fe 271.441	1359.91	ppb	6.9261	0.5	2461.84
K 766.491	1097.92	ppb	3.2262	0.3	38864.6
Mg 279.078	2707.03	ppb	10.4661	0.4	7776.52
Mn 257.610	393.370	ppb	0.9358	0.2	104834
Mo 202.032	0.0133	ppb	0.3003	2251.0	9.0752
Na 330.237	32795.9	ppb	51.4758	0.2	1835.28
Ni 231.604	4.9446	ppb	0.2580	5.2	15.7949
Pb 220.353	-1.5083	ppb	0.2130	14.1	15.2165
Sb 206.834	0.3908	ppb	2.1340	546.1	5.9265
Se 196.026	0.9764	ppb	4.2716	437.5	-0.0213
Sn 189.925	0.2041	ppb	0.7365	360.9	-8.1687
Sr 216.596	72.2983	ppb	0.5114	0.7	1194.02
Ti 334.941	-0.0207	ppb	0.0093	45.2	-38.4946
Tl 190.794	-1.9028	ppb	0.8992	47.3	-12.5476
V 292.401	0.2823	ppb	0.1499	53.1	-0.7819
Zn 206.200	26.0885	ppb	0.8920	3.4	44.9401

680-92772-b-9-a (Samp) **8/2/2013, 11:31:01 PM** **Rack 3, Tube 30**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.4746	0.2221	-0.2918u
Al 308.215	603.318	601.644	604.309
As 188.980	-0.2121u	-2.8224u	0.0657
B 249.678	23.0896	23.5505	23.8518
Ba 389.178	34.0063	34.2972	33.9168
Be 313.042	0.1650	0.1590	0.1550
Ca 370.602	4469	4466	4469
Cd 226.502	0.2034	0.1066	0.1984
Co 228.615	2.9211	2.3131	2.7230
Cr 267.716	0.1733	0.1308	0.2597
Cu 324.754	3.2999	3.1481	3.1006
Fe 271.441	58.8639	62.0462	59.4838
K 766.491	1537.14	1529.54	1532.46
Mg 279.078	2142.67	2136.88	2142.09
Mn 257.610	29.7707	29.7266	29.7582
Mo 202.032	-0.0916u	0.2754	-0.2889u
Na 330.237	8862.44	8705.10	8848.43
Ni 231.604	2.1734	0.9463	2.9185
Pb 220.353	0.2824	-0.0910u	-0.1933u
Sb 206.834	1.4690	-0.5333u	-1.3933u
Se 196.026	4.1632	0.0563	1.6508
Sn 189.925	-1.6194u	-2.7163u	0.3899
Sr 216.596	31.8918	32.6642	32.3738
Ti 334.941	-0.0197	-0.0177	-0.0227
Tl 190.794	-0.7577u	0.3748	0.8904
V 292.401	0.3102	0.2770	-0.1135u
Zn 206.200	18.9163	17.6580	16.6851

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1350	ppb	0.3906	289.4	3.3649
Al 308.215	603.090	ppb	1.3469	0.2	4632.58
As 188.980	-0.9896	ppb	1.5933	161.0	-9.6382
B 249.678	23.4973	ppb	0.3839	1.6	532.604
Ba 389.178	34.0734	ppb	0.1989	0.6	878.257
Be 313.042	0.1597	ppb	0.0050	3.2	186.059
Ca 370.602	4468	ppb	1.266	0.0	13601
Cd 226.502	0.1695	ppb	0.0545	32.2	30.6155
Co 228.615	2.6524	ppb	0.3101	11.7	28.4818
Cr 267.716	0.1879	ppb	0.0657	35.0	44.2515
Cu 324.754	3.1829	ppb	0.1041	3.3	280.813
Fe 271.441	60.1313	ppb	1.6871	2.8	129.134
K 766.491	1533.04	ppb	3.8340	0.3	54166.6
Mg 279.078	2140.55	ppb	3.1887	0.1	6162.28
Mn 257.610	29.7518	ppb	0.0227	0.1	8036.24
Mo 202.032	-0.0350	ppb	0.2864	818.2	8.7470
Na 330.237	8805.32	ppb	87.0769	1.0	529.943
Ni 231.604	2.0127	ppb	0.9959	49.5	4.5909
Pb 220.353	-0.0006	ppb	0.2504	40046.0	18.0615
Sb 206.834	-0.1525	ppb	1.4686	962.9	5.0070
Se 196.026	1.9568	ppb	2.0704	105.8	0.4236
Sn 189.925	-1.3153	ppb	1.5753	119.8	-9.8568
Sr 216.596	32.3099	ppb	0.3901	1.2	539.189
Ti 334.941	-0.0200	ppb	0.0025	12.6	-39.1824
Tl 190.794	0.1691	ppb	0.8431	498.4	-9.2652
V 292.401	0.1579	ppb	0.2356	149.2	-4.2527
Zn 206.200	17.7532	ppb	1.1186	6.3	30.6618

680-92772-b-10-a (Samp) **8/2/2013, 11:35:37 PM** **Rack 3, Tube 31**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.1255u	-0.0954u	-0.1693u
Al 308.215	52.6929	52.7412	52.3586
As 188.980	8.1957	1.0291	3.0272
B 249.678	110.101	109.828	110.674
Ba 389.178	32.1484	31.7642	31.9530
Be 313.042	-0.0167u	-0.0208u	-0.0144u
Ca 370.602	31695	31866	31973
Cd 226.502	-0.3256	-0.3964	-0.5503
Co 228.615	0.5151	0.3332	-0.0056
Cr 267.716	1.2250	1.2592	1.4455
Cu 324.754	-0.0557	0.1709	-0.0981
Fe 271.441	34577.6	34554.5	34531.6
K 766.491	3776.30	3775.60	3774.43
Mg 279.078	20807.1	20816.7	20813.1
Mn 257.610	288.542	288.830	289.429
Mo 202.032	-0.2996u	-0.2508u	-0.5969u
Na 330.237	47598.4	47588.8	47813.6
Ni 231.604	3.1786	3.2535	3.8401
Pb 220.353	0.1743	1.2430	-2.9174u
Sb 206.834	1.2482	-0.2672	-1.3117u
Se 196.026	-1.1072u	-2.8137u	4.7404
Sn 189.925	-2.0372u	-0.1600u	0.3685
Sr 216.596	131.471	131.162	131.287
Ti 334.941	1.2322	1.2404	1.2430
Tl 190.794	0.4091u	-2.5637u	-6.1320u
V 292.401	9.5444	9.3687	9.5749
Zn 206.200	3.9710	1.1440	2.1609

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1301	ppb	0.0372	28.6	-20.2534
Al 308.215	52.5976	ppb	0.2084	0.4	638.933
As 188.980	4.0840	ppb	3.6984	90.6	-5.6540
B 249.678	110.201	ppb	0.4320	0.4	1948.68
Ba 389.178	31.9552	ppb	0.1921	0.6	931.859
Be 313.042	-0.0173	ppb	0.0032	18.7	-162.386
Ca 370.602	31844	ppb	140.2	0.4	94372
Cd 226.502	-0.4241	ppb	0.1149	27.1	145.570
Co 228.615	0.2809	ppb	0.2642	94.1	-3.2308
Cr 267.716	1.3099	ppb	0.1187	9.1	123.498
Cu 324.754	0.0057	ppb	0.1446	2549.8	93.0487
Fe 271.441	34554.6	ppb	22.9864	0.1	61999.5
K 766.491	3775.44	ppb	0.9430	0.0	133025
Mg 279.078	20812.3	ppb	4.8437	0.0	59617.7
Mn 257.610	288.934	ppb	0.4527	0.2	77309.4
Mo 202.032	-0.3824	ppb	0.1873	49.0	3.8421
Na 330.237	47667.0	ppb	127.127	0.3	2634.59
Ni 231.604	3.4241	ppb	0.3623	10.6	11.0270
Pb 220.353	-0.5000	ppb	2.1607	432.1	20.0981
Sb 206.834	-0.1103	ppb	1.2872	1167.5	6.3660
Se 196.026	0.2732	ppb	3.9617	1450.3	-0.3177
Sn 189.925	-0.6096	ppb	1.2643	207.4	-9.0475
Sr 216.596	131.307	ppb	0.1554	0.1	2203.57
Ti 334.941	1.2385	ppb	0.0056	0.5	445.601
Tl 190.794	-2.7622	ppb	3.2751	118.6	-16.7972
V 292.401	9.4960	ppb	0.1113	1.2	272.023
Zn 206.200	2.4253	ppb	1.4319	870.0	4.8363

680-92772-b-11-a (Samp) **8/2/2013, 11:40:14 PM** **Rack 3, Tube 32**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	-0.2859u	-0.0184u	-0.2338u
Al 308.215	2845.38	2851.17	2843.14
As 188.980	0.4078	-0.7495u	-3.0278u
B 249.678	38.0035	38.3065	38.1029
Ba 389.178	29.9676	30.5943	30.2057
Be 313.042	0.3641	0.3668	0.3670
Ca 370.602	5868	5866	5834
Cd 226.502	0.0009	0.0053	0.0442
Co 228.615	4.4170	4.3909	4.7015
Cr 267.716	0.5537	0.7061	0.6780
Cu 324.754	5.3117	6.2106	5.2075
Fe 271.441	1132.64	1141.10	1130.74
K 766.491	1790.77	1786.85	1782.94
Mg 279.078	2001.40	2010.96	2010.92
Mn 257.610	65.7830	65.8250	65.6602
Mo 202.032	-0.4885u	-0.3587u	0.1774
Na 330.237	24027.4	24171.0	24084.4
Ni 231.604	6.1306	6.3227	6.8206
Pb 220.353	1.9477	1.5678	1.2543
Sb 206.834	-2.6681u	0.7074	1.1481
Se 196.026	-11.5380u	3.3778	11.0902
Sn 189.925	-2.4108u	-1.6721u	1.1359
Sr 216.596	46.2377	45.8782	45.7726
Ti 334.941	1.8946	1.9938	1.8995
Tl 190.794	-0.4743u	-4.0016u	-0.4374u
V 292.401	0.2398	0.1170	0.1873
Zn 206.200	31.5006	31.1059	30.6955

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1794	ppb	0.1418	79.1	-20.5802
Al 308.215	2846.56	ppb	4.1442	0.1	20900.7
As 188.980	-1.1232	ppb	1.7480	155.6	-9.7389
B 249.678	38.1376	ppb	0.1545	0.4	783.137
Ba 389.178	30.2559	ppb	0.3163	1.0	781.926
Be 313.042	0.3660	ppb	0.0016	0.4	594.966
Ca 370.602	5856	ppb	19.06	0.3	17748
Cd 226.502	0.0168	ppb	0.0238	141.9	26.5904
Co 228.615	4.5032	ppb	0.1723	3.8	54.5049
Cr 267.716	0.6459	ppb	0.0811	12.6	72.4706
Cu 324.754	5.5766	ppb	0.5515	9.9	432.279
Fe 271.441	1134.83	ppb	5.5172	0.5	2057.01
K 766.491	1786.85	ppb	3.9133	0.2	63092.2
Mg 279.078	2007.76	ppb	5.5074	0.3	5780.71
Mn 257.610	65.7561	ppb	0.0857	0.1	17622.0
Mo 202.032	-0.2233	ppb	0.3530	158.1	7.1146
Na 330.237	24094.2	ppb	72.3104	0.3	1361.61
Ni 231.604	6.4246	ppb	0.3561	5.5	21.4672
Pb 220.353	1.5899	ppb	0.3472	21.8	21.3363
Sb 206.834	-0.2709	ppb	2.0877	770.7	4.8687
Se 196.026	0.9767	ppb	11.5036	1177.8	-0.1147
Sn 189.925	-0.9823	ppb	1.8713	190.5	-9.4824
Sr 216.596	45.9628	ppb	0.2438	0.5	763.321
Ti 334.941	1.9293	ppb	0.0559	2.9	564.044
Tl 190.794	-1.6378	ppb	2.0472	125.0	-11.9641
V 292.401	0.1814	ppb	0.0616	34.0	-3.6691
Zn 206.200	31.1006	ppb	0.4026	1.3	53.5116

680-92772-b-12-a (Samp) **8/2/2013, 11:44:51 PM** **Rack 3, Tube 33**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	-0.2055u	-0.1579u	-0.2744u
Al 308.215	525.229	523.849	521.276
As 188.980	-3.1159u	-2.6779u	-0.0860u
B 249.678	29.2292	28.9090	28.1573
Ba 389.178	52.4881	51.4697	51.1204
Be 313.042	0.2199	0.2289	0.2196
Ca 370.602	7533	7526	7525
Cd 226.502	0.4899	0.5952	0.5409
Co 228.615	34.6622	34.1306	34.6990
Cr 267.716	0.2102	0.2158	-0.0209
Cu 324.754	6.9765	7.1384	6.9566
Fe 271.441	29.8090	37.0894	37.1477
K 766.491	1857.46	1859.62	1864.59
Mg 279.078	2113.68	2097.81	2089.42
Mn 257.610	221.781	221.205	220.234
Mo 202.032	-0.2261u	-0.5591u	-0.5803u
Na 330.237	35331.2	35128.4	35102.5
Ni 231.604	11.8336	13.5575	12.3460
Pb 220.353	-0.1595u	-0.9471u	-0.3214u
Sb 206.834	1.9155	2.1957	-0.1910u
Se 196.026	1.6919	7.4620	-2.1639u
Sn 189.925	1.0687	-0.9658u	-0.2283u
Sr 216.596	54.6356	55.4419	54.6289
Ti 334.941	-0.0157	-0.0165	0.0108
Tl 190.794	-2.4500u	-1.5415u	-1.1959u
V 292.401	0.0147	-0.2959u	-0.0040u
Zn 206.200	96.1916	96.7797	95.1188

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.2126	ppb	0.0586	27.6	-22.7785
Al 308.215	523.451	ppb	2.0061	0.4	4053.50
As 188.980	-1.9599	ppb	1.6376	83.6	-10.4941
B 249.678	28.7652	ppb	0.5503	1.9	623.739
Ba 389.178	51.6927	ppb	0.7106	1.4	1328.68
Be 313.042	0.2228	ppb	0.0053	2.4	309.416
Ca 370.602	7528	ppb	4.372	0.1	22929
Cd 226.502	0.5420	ppb	0.0527	9.7	51.0628
Co 228.615	34.4973	ppb	0.3181	0.9	474.450
Cr 267.716	0.1351	ppb	0.1351	100.0	42.7052
Cu 324.754	7.0238	ppb	0.0998	1.4	523.199
Fe 271.441	34.6820	ppb	4.2203	12.2	87.7910
K 766.491	1860.56	ppb	3.6559	0.2	65684.1
Mg 279.078	2100.30	ppb	12.3218	0.6	6042.93
Mn 257.610	221.074	ppb	0.7817	0.4	58961.9
Mo 202.032	-0.4552	ppb	0.1987	43.6	5.2449
Na 330.237	35187.4	ppb	125.269	0.4	1964.77
Ni 231.604	12.5790	ppb	0.8853	7.0	44.8437
Pb 220.353	-0.4760	ppb	0.4159	87.4	17.1357
Sb 206.834	1.3067	ppb	1.3046	99.8	7.3687
Se 196.026	2.3300	ppb	4.8446	207.9	0.6880
Sn 189.925	-0.0418	ppb	1.0300	2463.7	-8.4409
Sr 216.596	54.9022	ppb	0.4675	0.9	907.687
Ti 334.941	-0.0071	ppb	0.0155	217.6	-37.6876
Tl 190.794	-1.7291	ppb	0.6477	37.5	-11.9724
V 292.401	-0.0950	ppb	0.1742	183.3	-11.8961
Zn 206.200	96.0300	ppb	0.8422	872.9	164.602

680-92772-b-13-a (Samp) **8/2/2013, 11:49:27 PM** **Rack 3, Tube 34**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	-0.4793u	-0.2040u	-0.6949u
Al 308.215	16.6217	17.3164	17.2717
As 188.980	8.8886	8.0206	7.3019
B 249.678	223.154	222.246	223.328
Ba 389.178	36.1023	36.7081	36.9613
Be 313.042	0.0108	0.0078	0.0035
Ca 370.602	9469	9450	9430
Cd 226.502	-0.2217	-0.2843	-0.3362
Co 228.615	1.5543	0.9553	1.6779
Cr 267.716	-0.1931u	0.0290	-0.1192
Cu 324.754	0.2300	0.1381	0.1322
Fe 271.441	23558.2	23488.7	23466.1
K 766.491	14649.3	14545.9	14582.5
Mg 279.078	1946.53	1939.26	1945.99
Mn 257.610	248.990	248.213	248.245
Mo 202.032	0.2095	0.5173	0.5337
Na 330.237	12428.8	12266.2	12136.1
Ni 231.604	-0.6041u	-0.3535u	0.3057
Pb 220.353	-0.4562	0.5043	0.0173
Sb 206.834	-1.4621u	3.4660	3.7448
Se 196.026	-2.9280u	-5.5459u	-1.8305u
Sn 189.925	1.8081	3.4173	0.6937
Sr 216.596	61.8147	60.7564	60.0756
Ti 334.941	0.1105	0.1087	0.1145
Tl 190.794	-2.2045u	-2.5346u	-3.3191u
V 292.401	0.7015	1.0137	0.9099
Zn 206.200	5.0781	5.3008	5.2735

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.4594	ppb	0.2460	53.6	-41.5417
Al 308.215	17.0700	ppb	0.3888	2.3	383.056
As 188.980	8.0704	ppb	0.7945	9.8	-1.9875
B 249.678	222.910	ppb	0.5811	0.3	3923.95
Ba 389.178	36.5906	ppb	0.4414	1.2	978.734
Be 313.042	0.0074	ppb	0.0036	49.2	-116.720
Ca 370.602	9450	ppb	19.53	0.2	26995
Cd 226.502	-0.2808	ppb	0.0574	20.4	106.062
Co 228.615	1.3958	ppb	0.3865	27.7	11.8579
Cr 267.716	-0.0944	ppb	0.1131	119.8	35.5204
Cu 324.754	0.1668	ppb	0.0548	32.9	99.2228
Fe 271.441	23504.3	ppb	47.9953	0.2	42179.4
K 766.491	14592.5	ppb	52.4406	0.4	513430
Mg 279.078	1943.93	ppb	4.0508	0.2	5600.63
Mn 257.610	248.483	ppb	0.4398	0.2	66330.4
Mo 202.032	0.4201	ppb	0.1826	43.5	11.1909
Na 330.237	12277.0	ppb	146.680	1.2	711.684
Ni 231.604	-0.2173	ppb	0.4700	216.3	-3.2151
Pb 220.353	0.0218	ppb	0.4802	2201.9	20.1940
Sb 206.834	1.9162	ppb	2.9291	152.9	9.1939
Se 196.026	-3.4348	ppb	1.9089	55.6	-2.4631
Sn 189.925	1.9730	ppb	1.3693	69.4	-6.2342
Sr 216.596	60.8823	ppb	0.8764	1.4	1037.23
Ti 334.941	0.1112	ppb	0.0030	2.7	3.2179
Tl 190.794	-2.6860	ppb	0.5725	21.3	-15.6489
V 292.401	0.8750	ppb	0.1590	18.2	16.9024
Zn 206.200	5.2175	ppb	0.1215	87.3	0.4895

680-92772-b-14-a (Samp) **8/2/2013, 11:54:04 PM** **Rack 3, Tube 35**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.3079u	-0.3007u	0.0256u
Al 308.215	3882.84	3902.31	3889.35
As 188.980	-3.2713u	1.9891	0.9204
B 249.678	58.7431	58.2883	58.4282
Ba 389.178	29.4218	28.8883	28.1546
Be 313.042	0.6019	0.5933	0.6076
Ca 370.602	6693	6717	6711
Cd 226.502	0.1132	0.1573	-0.0495u
Co 228.615	5.7361	5.6276	5.9854
Cr 267.716	1.0992	1.2291	1.0379
Cu 324.754	11.1797	10.4718	11.4045
Fe 271.441	89.8044	93.3677	98.2058
K 766.491	1640.75	1654.54	1648.25
Mg 279.078	1375.80	1381.16	1380.29
Mn 257.610	34.3213	34.3557	34.2048
Mo 202.032	-0.6944u	-0.0154u	0.0598
Na 330.237	23564.4	23726.7	23538.4
Ni 231.604	11.1554	11.6996	11.7300
Pb 220.353	3.8716	4.2240	6.2109
Sb 206.834	-1.1795u	2.0787	1.4821
Se 196.026	-1.9625u	-0.4502u	3.4611
Sn 189.925	0.5797	-1.6426u	-0.0205u
Sr 216.596	49.9901	50.1900	50.0640
Ti 334.941	0.4236	0.4228	0.3779
Tl 190.794	-1.0382u	-0.2489u	-0.9023u
V 292.401	0.1762	0.1791	0.3400
Zn 206.200	86.3867	87.7667	87.5326

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1943	ppb	0.1905	98.1	-22.0039
Al 308.215	3891.50	ppb	9.9108	0.3	28477.8
As 188.980	-0.1206	ppb	2.7804	2305.4	-8.8259
B 249.678	58.4865	ppb	0.2329	0.4	1137.46
Ba 389.178	28.8216	ppb	0.6363	2.2	741.801
Be 313.042	0.6009	ppb	0.0072	1.2	1062.55
Ca 370.602	6707	ppb	12.10	0.2	20419
Cd 226.502	0.0737	ppb	0.1089	147.8	25.2753
Co 228.615	5.7831	ppb	0.1834	3.2	72.3488
Cr 267.716	1.1220	ppb	0.0976	8.7	100.406
Cu 324.754	11.0187	ppb	0.4867	4.4	775.335
Fe 271.441	93.7926	ppb	4.2168	4.5	189.935
K 766.491	1647.85	ppb	6.9026	0.4	58203.8
Mg 279.078	1379.08	ppb	2.8733	0.2	3980.97
Mn 257.610	34.2939	ppb	0.0791	0.2	9238.17
Mo 202.032	-0.2167	ppb	0.4155	191.7	7.2297
Na 330.237	23609.8	ppb	102.049	0.4	1334.69
Ni 231.604	11.5283	ppb	0.3233	2.8	40.9224
Pb 220.353	4.7689	ppb	1.2612	26.4	27.6605
Sb 206.834	0.7938	ppb	1.7347	218.5	6.5598
Se 196.026	0.3495	ppb	2.7988	800.9	-0.4812
Sn 189.925	-0.3611	ppb	1.1496	318.4	-8.7984
Sr 216.596	50.0813	ppb	0.1011	0.2	829.066
Ti 334.941	0.4081	ppb	0.0261	6.4	88.7783
Tl 190.794	-0.7298	ppb	0.4220	57.8	-10.5436
V 292.401	0.2318	ppb	0.0937	40.4	-2.2251
Zn 206.200	87.2286	ppb	0.7385	87.4	149.539

mb 680-287100/1-a (Samp) **8/2/2013, 11:58:41 PM** **Rack 3, Tube 36**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	0.0578	0.1664	-0.2314u
Al 308.215	0.9405	1.7080	-0.0056u
As 188.980	-0.1441u	-4.4858u	-0.2066u
B 249.678	2.6813	2.1464	2.2971
Ba 389.178	0.1927	-0.4856u	-0.7580u
Be 313.042	-0.0323u	-0.0391u	-0.0378u
Ca 370.602	7.596	2.122	5.382
Cd 226.502	-0.1838u	-0.0550u	-0.0829u
Co 228.615	0.4015	0.3826	0.0499
Cr 267.716	0.1777	-0.1209u	-0.0874u
Cu 324.754	0.2623	0.1991	-0.0602u
Fe 271.441	1.2101	-2.6894u	2.1022
K 766.491	-0.1536u	0.3556	-0.4921u
Mg 279.078	-1.6462u	-0.2205u	-0.2506u
Mn 257.610	-0.1522u	-0.1881u	-0.1635u
Mo 202.032	-0.3050u	-0.4478u	-0.6276u
Na 330.237	89.1286	-89.7376u	26.2423
Ni 231.604	0.7030	-0.0342u	-0.9558u
Pb 220.353	-2.2660u	-1.3486u	1.0909
Sb 206.834	-0.7155u	1.4531	2.4823
Se 196.026	-0.7746u	1.1970	0.1480
Sn 189.925	-1.0722u	0.6923	1.0513
Sr 216.596	0.1262	-0.2775u	0.0011
Ti 334.941	-0.0805u	-0.0671u	-0.0611u
Tl 190.794	-2.1464u	-0.6257u	-3.6786u
V 292.401	-0.3654u	-0.0510u	-0.1345u
Zn 206.200	0.7914	0.4912	0.5890

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0024	ppb	0.2056	8546.3	-5.5420
Al 308.215	0.8810	ppb	0.8583	97.4	265.906
As 188.980	-1.6121	ppb	2.4889	154.4	-10.1944
B 249.678	2.3749	ppb	0.2758	11.6	167.556
Ba 389.178	-0.3503	ppb	0.4896	139.8	-8.3518
Be 313.042	-0.0364	ppb	0.0036	9.9	-204.077
Ca 370.602	5.033	ppb	2.754	54.7	9.336
Cd 226.502	-0.1072	ppb	0.0678	63.2	14.9607
Co 228.615	0.2780	ppb	0.1978	71.1	-4.7658
Cr 267.716	-0.0102	ppb	0.1636	1604.7	32.0515
Cu 324.754	0.1337	ppb	0.1709	127.8	88.3485
Fe 271.441	0.2076	ppb	2.5482	1227.3	21.3273
K 766.491	-0.0967	ppb	0.4267	441.4	250.578
Mg 279.078	-0.7058	ppb	0.8146	115.4	33.3064
Mn 257.610	-0.1680	ppb	0.0183	10.9	51.8807
Mo 202.032	-0.4601	ppb	0.1617	35.1	5.2059
Na 330.237	8.5444	ppb	90.7369	1061.9	51.4022
Ni 231.604	-0.0957	ppb	0.8311	868.6	-3.4555
Pb 220.353	-0.8413	ppb	1.7350	206.2	16.3591
Sb 206.834	1.0733	ppb	1.6324	152.1	6.9850
Se 196.026	0.1901	ppb	0.9865	518.9	-0.5812
Sn 189.925	0.2238	ppb	1.1366	507.8	-8.1695
Sr 216.596	-0.0500	ppb	0.2066	413.0	10.9385
Ti 334.941	-0.0696	ppb	0.0099	14.3	-64.5244
Tl 190.794	-2.1502	ppb	1.5265	71.0	-12.5665
V 292.401	-0.1836	ppb	0.1628	88.7	-14.2297
Zn 206.200	0.6238	ppb	0.1531	24.5	1.3518

lcs 680-287100/2-a (Samp) **8/3/2013, 12:12:31 AM** **Rack 3, Tube 39**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	57.2779	56.3986	56.9695
Al 308.215	4887.06	4909.31	4908.73
As 188.980	111.206	106.493	106.160
B 249.678	201.973	203.279	202.697
Ba 389.178	106.310	106.814	106.451
Be 313.042	52.7248	52.8734	52.9366
Ca 370.602	5130	5150	5159
Cd 226.502	52.6591	52.7669	52.8324
Co 228.615	53.3545	52.9442	52.9130
Cr 267.716	108.329	108.639	108.417
Cu 324.754	107.573	107.285	108.389
Fe 271.441	5111.86	5114.86	5124.84
K 766.491	5177.88	5194.16	5221.06
Mg 279.078	5178.65	5196.81	5187.28
Mn 257.610	541.338	541.302	542.672
Mo 202.032	105.845	106.171	106.841
Na 330.237	5060.01	5212.58	5066.10
Ni 231.604	104.544	105.785	104.485
Pb 220.353	52.0207	51.4676	53.1474
Sb 206.834	53.8155	54.3058	54.4076
Se 196.026	104.831	96.8260	111.634
Sn 189.925	210.074	212.873	211.834
Sr 216.596	107.812	107.321	107.309
Ti 334.941	102.838	103.151	103.225
Tl 190.794	41.0085	40.1811	42.7452
V 292.401	105.840	105.293	105.366
Zn 206.200	105.202	106.730	106.122

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	56.8820	ppb	0.4461	0.8	4246.71
Al 308.215	4901.70	ppb	12.6803	0.3	35786.3
As 188.980	107.953	ppb	2.8223	2.6	86.3305
B 249.678	202.650	ppb	0.6545	0.3	3617.83
Ba 389.178	106.525	ppb	0.2596	0.2	2748.66
Be 313.042	52.8449	ppb	0.1087	0.2	104890
Ca 370.602	5146	ppb	14.61	0.3	15349
Cd 226.502	52.7528	ppb	0.0875	0.2	2984.48
Co 228.615	53.0706	ppb	0.2464	0.5	734.240
Cr 267.716	108.462	ppb	0.1597	0.1	6508.87
Cu 324.754	107.749	ppb	0.5725	0.5	6884.26
Fe 271.441	5117.19	ppb	6.7956	0.1	9207.65
K 766.491	5197.70	ppb	21.8100	0.4	183042
Mg 279.078	5187.58	ppb	9.0835	0.2	14873.5
Mn 257.610	541.771	ppb	0.7806	0.1	144371
Mo 202.032	106.286	ppb	0.5081	0.5	894.894
Na 330.237	5112.90	ppb	86.3852	1.7	325.572
Ni 231.604	104.938	ppb	0.7340	0.7	397.642
Pb 220.353	52.2119	ppb	0.8561	1.6	124.133
Sb 206.834	54.1763	ppb	0.3166	0.6	92.9411
Se 196.026	104.430	ppb	7.4121	7.1	58.3622
Sn 189.925	211.594	ppb	1.4149	0.7	224.477
Sr 216.596	107.480	ppb	0.2869	0.3	1766.81
Ti 334.941	103.071	ppb	0.2056	0.2	31970.5
Tl 190.794	41.3116	ppb	1.3086	3.2	48.9834
V 292.401	105.500	ppb	0.2967	0.3	3088.98
Zn 206.200	106.018	ppb	0.7694	0.7	181.296

640-44473-h-8-b (Samp) **8/3/2013, 12:17:08 AM** **Rack 3, Tube 40**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	1.9207	1.6337	1.0562
Al 308.215	3028.22	3033.26	3004.06
As 188.980	140.084	143.755	141.472
B 249.678	81.2488	80.7605	79.1634
Ba 389.178	86.8707	86.2826	86.4922
Be 313.042	1.3247	1.3294	1.3279
Ca 370.602	6705	6679	6639
Cd 226.502	3.4402	3.4550	3.0868
Co 228.615	11.2374	11.6489	12.1234
Cr 267.716	37.1761	36.4468	35.8381
Cu 324.754	46.7807	47.1495	45.9101
Fe 271.441	34440.9	34209.0	33829.1
K 766.491	318770x	317646x	314241x
Mg 279.078	20054.5	19929.1	19683.9
Mn 257.610	101.337	100.844	99.8080
Mo 202.032	29.4069	30.3753	29.1054
Na 330.237	18714270x	19055426x	18657342x
Ni 231.604	119.984	117.519	114.522
Pb 220.353	4.0925	4.2691	3.4325
Sb 206.834	0.7463	2.7093	5.4293
Se 196.026	31.7829	18.9578	21.5689
Sn 189.925	-8.3394u	-11.4234u	-1.4904
Sr 216.596	348.923	348.171	342.497
Ti 334.941	243.293	242.145	239.098
Tl 190.794	-9.5678u	-12.9428u	-8.5654u
V 292.401	91.3055	90.8013	89.3406
Zn 206.200	247.551	241.246	242.366

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	1.5368b	ppb	0.4403	28.6	94.2648
Al 308.215	3021.85b	ppb	15.6060	0.5	22156.0
As 188.980	141.770b	ppb	1.8535	1.3	115.734
B 249.678	80.3909b	ppb	1.0907	1.4	1435.23
Ba 389.178	86.5485b	ppb	0.2981	0.3	2325.13
Be 313.042	1.3273b	ppb	0.0024	0.2	172.634
Ca 370.602	6674b	ppb	33.21	0.5	17846
Cd 226.502	3.3273b	ppb	0.2084	6.3	195.294
Co 228.615	11.6699b	ppb	0.4434	3.8	162.097
Cr 267.716	36.4870b	ppb	0.6699	1.8	2639.25
Cu 324.754	46.6134b	ppb	0.6364	1.4	3034.41
Fe 271.441	34159.7b	ppb	308.834	0.9	61293.5
K 766.491	316886xb	ppb	2358.28	0.7	11144173
Mg 279.078	19889.2b	ppb	188.481	0.9	56977.9
Mn 257.610	100.663b	ppb	0.7803	0.8	27066.8
Mo 202.032	29.6292b	ppb	0.6635	2.2	253.985
Na 330.237	18809012xb	ppb	215290	1.1	1023862
Ni 231.604	117.342b	ppb	2.7353	2.3	446.008
Pb 220.353	3.9313b	ppb	0.4409	11.2	28.7222
Sb 206.834	2.9616b	ppb	2.3517	79.4	11.2948
Se 196.026	24.1032b	ppb	6.7777	28.1	13.0626
Sn 189.925	-7.0844b	ppb	5.0840	71.8	-7.3134
Sr 216.596	346.530b	ppb	3.5131	1.0	5704.04
Ti 334.941	241.512b	ppb	2.1676	0.9	73378.1
Tl 190.794	-10.3587b	ppb	2.2934	22.1	-27.4116
V 292.401	90.4825b	ppb	1.0205	1.1	2503.33
Zn 206.200	243.721b	ppb	3.3641	1.4	417.538

680-92686-e-9-a (Samp) **8/3/2013, 12:21:45 AM** **Rack 3, Tube 41**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.4222u	-0.0201u	-0.1299u
Al 308.215	21.7114	21.7315	21.2844
As 188.980	10.8618	4.2224	8.7771
B 249.678	873.378	873.016	875.536
Ba 389.178	19.4343	19.4778	19.3315
Be 313.042	0.0325	0.0231	0.0253
Ca 370.602	6705	6662	6676
Cd 226.502	-0.2027	-0.1422	-0.2506
Co 228.615	-0.2952u	0.5567	-0.2245u
Cr 267.716	0.1056	0.0725	0.1052
Cu 324.754	0.0798	0.0943	0.0048
Fe 271.441	8099.05	8048.13	8079.25
K 766.491	2299.91	2299.93	2321.97
Mg 279.078	959.527	962.540	962.009
Mn 257.610	121.926	120.991	121.688
Mo 202.032	1.5413	1.5553	2.4281
Na 330.237	89988.5	89735.8	89671.4
Ni 231.604	-0.0502	0.0142	0.2057
Pb 220.353	-0.4726u	-1.0460u	-1.5891u
Sb 206.834	2.7921	6.7287	2.1133
Se 196.026	7.8913	4.6095	-4.0522u
Sn 189.925	0.5875	-1.4052u	0.8922
Sr 216.596	39.6512	39.9243	39.7803
Ti 334.941	0.2887	0.2835	0.2643
Tl 190.794	-1.6056u	-1.4245u	-1.6316u
V 292.401	1.1429	1.2650	1.0756
Zn 206.200	0.1800	0.9083	1.0605

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1907b	ppb	0.2078	109.0	-20.9384
Al 308.215	21.5758b	ppb	0.2525	1.2	415.850
As 188.980	7.9538b	ppb	3.3954	42.7	-1.8762
B 249.678	873.977b	ppb	1.3628	0.2	15217.5
Ba 389.178	19.4146b	ppb	0.0751	0.4	512.522
Be 313.042	0.0270b	ppb	0.0049	18.2	-87.5364
Ca 370.602	6681b	ppb	21.93	0.3	19733
Cd 226.502	-0.1985b	ppb	0.0543	27.4	43.7708
Co 228.615	0.0123b	ppb	0.4728	3830.4	-8.2123
Cr 267.716	0.0944b	ppb	0.0190	20.1	43.3099
Cu 324.754	0.0596b	ppb	0.0480	80.6	86.7485
Fe 271.441	8075.48b	ppb	25.6713	0.3	14505.4
K 766.491	2307.27b	ppb	12.7303	0.6	81393.8
Mg 279.078	961.359b	ppb	1.6086	0.2	2786.77
Mn 257.610	121.535b	ppb	0.4857	0.4	32480.9
Mo 202.032	1.8416b	ppb	0.5080	27.6	23.9331
Na 330.237	89798.6b	ppb	167.594	0.2	4936.36
Ni 231.604	0.0566b	ppb	0.1331	235.2	-2.6300
Pb 220.353	-1.0359b	ppb	0.5583	53.9	16.6869
Sb 206.834	3.8780b	ppb	2.4919	64.3	11.7638
Se 196.026	2.8162b	ppb	6.1704	219.1	0.9652
Sn 189.925	0.0248b	ppb	1.2478	5024.5	-8.3425
Sr 216.596	39.7853b	ppb	0.1366	0.3	672.146
Ti 334.941	0.2788b	ppb	0.0128	4.6	41.6071
Tl 190.794	-1.5539b	ppb	0.1128	7.3	-12.5366
V 292.401	1.1612b	ppb	0.0960	8.3	24.4054
Zn 206.200	0.7163b	ppb	0.4706	8787	1.6045

680-92686-a-13-a (Samp) **8/3/2013, 12:26:23 AM** **Rack 3, Tube 42**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.0330u	-0.0720u	-0.0991u
Al 308.215	348.002	347.808	348.292
As 188.980	10.8009	11.0376	15.7538
B 249.678	187.695	186.582	186.564
Ba 389.178	0.9723	0.5193	0.8997
Be 313.042	-0.0212u	-0.0129u	-0.0074u
Ca 370.602	675.6	681.0	672.8
Cd 226.502	-0.3434	-0.4035	-0.3155
Co 228.615	0.4148	0.1227	0.4502
Cr 267.716	1.7307	1.6935	1.7676
Cu 324.754	0.8065	0.7273	0.6623
Fe 271.441	12919.6	12888.9	12867.2
K 766.491	1183.98	1178.46	1167.97
Mg 279.078	440.297	439.172	438.691
Mn 257.610	24.9381	24.8908	24.9115
Mo 202.032	0.0616u	0.5283	0.3623
Na 330.237	72410.7	72188.8	72118.6
Ni 231.604	0.7620	1.6356	1.5884
Pb 220.353	-3.4260u	-0.0185	-0.0454
Sb 206.834	-1.8652u	0.6275	0.4163
Se 196.026	0.3134	-2.6760u	2.6012
Sn 189.925	0.0361	0.2825	-0.5816u
Sr 216.596	0.7146	0.3216	0.6815
Ti 334.941	3.1039	3.1310	3.2045
Tl 190.794	-3.5964u	-1.0913u	-2.4247u
V 292.401	2.9121	3.0990	3.2010
Zn 206.200	1.4298	0.5922	2.1513

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0680	ppb	0.0332	48.8	-10.4419
Al 308.215	348.034	ppb	0.2437	0.1	2782.61
As 188.980	12.5308	ppb	2.7938	22.3	2.0959
B 249.678	186.947	ppb	0.6479	0.3	3327.66
Ba 389.178	0.7971	ppb	0.2433	30.5	42.4468
Be 313.042	-0.0138	ppb	0.0069	50.0	-168.526
Ca 370.602	676.5	ppb	4.192	0.6	1073
Cd 226.502	-0.3541	ppb	0.0450	12.7	55.9347
Co 228.615	0.3293	ppb	0.1797	54.6	-3.4388
Cr 267.716	1.7306	ppb	0.0370	2.1	141.457
Cu 324.754	0.7320	ppb	0.0722	9.9	130.908
Fe 271.441	12891.9	ppb	26.3491	0.2	23144.4
K 766.491	1176.80	ppb	8.1338	0.7	41638.5
Mg 279.078	439.386	ppb	0.8242	0.2	1295.65
Mn 257.610	24.9135	ppb	0.0237	0.1	6772.39
Mo 202.032	0.3174	ppb	0.2366	74.5	10.9400
Na 330.237	72239.3	ppb	152.492	0.2	3979.01
Ni 231.604	1.3287	ppb	0.4913	37.0	2.3725
Pb 220.353	-1.1633	ppb	1.9596	168.5	16.8111
Sb 206.834	-0.2738	ppb	1.3822	504.8	5.2969
Se 196.026	0.0795	ppb	2.6463	3327.5	-0.5862
Sn 189.925	-0.0877	ppb	0.4451	507.8	-8.4783
Sr 216.596	0.5726	ppb	0.2180	38.1	38.4310
Ti 334.941	3.1465	ppb	0.0521	1.7	931.106
Tl 190.794	-2.3708	ppb	1.2535	52.9	-14.0792
V 292.401	3.0707	ppb	0.1465	4.8	81.2779
Zn 206.200	1.3911	ppb	0.7803	870.1	2.8094

680-92686-a-14-a (Samp) **8/3/2013, 12:31:00 AM** **Rack 3, Tube 43**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.0929u	0.0146	0.1014
Al 308.215	416.740	418.579	415.555
As 188.980	6.1000	5.3335	5.3568
B 249.678	348.665	349.990	348.393
Ba 389.178	3.0950	3.7958	4.1140
Be 313.042	0.0136	0.0212	0.0230
Ca 370.602	2220	2219	2206
Cd 226.502	-0.4683	-0.3455	-0.2393
Co 228.615	0.3571	-0.1082u	0.2366
Cr 267.716	2.8175	2.9486	3.0207
Cu 324.754	0.4434	0.0216	0.4777
Fe 271.441	6936.61	6925.28	6913.87
K 766.491	1957.67	1959.19	1958.13
Mg 279.078	567.574	570.825	569.357
Mn 257.610	36.3290	36.2770	36.1265
Mo 202.032	-0.0284u	0.3969	0.7106
Na 330.237	171571x	172624x	170458x
Ni 231.604	0.0766	1.4423	1.7089
Pb 220.353	2.0002	0.6781	0.0424
Sb 206.834	0.8292	-1.1150u	2.9229
Se 196.026	0.2864	6.8205	1.6630
Sn 189.925	-0.4342u	1.2631	-0.2791u
Sr 216.596	2.5723	2.5023	2.3590
Ti 334.941	9.7711	9.7451	9.7670
Tl 190.794	-2.0008u	-2.5464u	-0.9093u
V 292.401	3.5052	3.6718	3.9181
Zn 206.200	13.0012	14.0131	12.7473

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0077b	ppb	0.0973	1257.6	-4.7655
Al 308.215	416.958b	ppb	1.5239	0.4	3282.30
As 188.980	5.5968b	ppb	0.4359	7.8	-3.9315
B 249.678	349.016b	ppb	0.8545	0.2	6144.05
Ba 389.178	3.6683b	ppb	0.5214	14.2	106.919
Be 313.042	0.0193b	ppb	0.0050	25.9	-114.309
Ca 370.602	2215b	ppb	7.793	0.4	6218
Cd 226.502	-0.3511b	ppb	0.1146	32.6	29.6757
Co 228.615	0.1618b	ppb	0.2415	149.3	-5.8478
Cr 267.716	2.9289b	ppb	0.1030	3.5	213.518
Cu 324.754	0.3143b	ppb	0.2540	80.8	102.309
Fe 271.441	6925.25b	ppb	11.3709	0.2	12442.4
K 766.491	1958.33b	ppb	0.7784	0.0	69122.6
Mg 279.078	569.252b	ppb	1.6283	0.3	1665.69
Mn 257.610	36.2442b	ppb	0.1051	0.3	9770.23
Mo 202.032	0.3597b	ppb	0.3709	103.1	11.6351
Na 330.237	171551xb	ppb	1082.80	0.6	9386.49
Ni 231.604	1.0759b	ppb	0.8756	81.4	1.2282
Pb 220.353	0.9069b	ppb	0.9987	110.1	20.4924
Sb 206.834	0.8791b	ppb	2.0194	229.7	6.9538
Se 196.026	2.9233b	ppb	3.4446	117.8	0.9971
Sn 189.925	0.1833b	ppb	0.9384	512.1	-8.1317
Sr 216.596	2.4779b	ppb	0.1088	4.4	61.7430
Ti 334.941	9.7611b	ppb	0.0139	0.1	2975.10
Tl 190.794	-1.8188b	ppb	0.8336	45.8	-12.7507
V 292.401	3.6983b	ppb	0.2077	5.6	99.0236
Zn 206.200	13.2539b	ppb	0.6697	5.1	23.0323

680-92725-a-1-a (Samp) **8/3/2013, 12:35:37 AM** **Rack 3, Tube 44**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.1652u	0.1552	0.0113
Al 308.215	197.987	197.229	197.091
As 188.980	3.8513	6.8870	2.5275
B 249.678	87.3391	86.8015	86.7230
Ba 389.178	1.1161	0.2113	0.4897
Be 313.042	-0.0268u	-0.0202u	-0.0174u
Ca 370.602	7431	7422	7409
Cd 226.502	-0.2921	-0.3266	-0.2218
Co 228.615	-0.5643u	0.5385	0.1565
Cr 267.716	0.7871	0.7317	0.8071
Cu 324.754	0.3673	0.4329	0.1584
Fe 271.441	8044.55	8020.22	8034.56
K 766.491	1933.43	1940.50	1940.15
Mg 279.078	1088.03	1085.88	1080.47
Mn 257.610	86.4364	86.2764	86.3223
Mo 202.032	0.3037	0.4497	-0.2475u
Na 330.237	40618.7	40477.7	40247.5
Ni 231.604	0.4792	0.5167	0.1498
Pb 220.353	0.6771	0.6195	0.5834
Sb 206.834	-2.6540u	0.1106	0.4309
Se 196.026	-4.8021u	-0.2800u	-2.9764u
Sn 189.925	-2.1776u	0.9061	0.6762
Sr 216.596	2.0635	2.0925	2.6455
Ti 334.941	7.5981	7.5524	7.6507
Tl 190.794	-2.2004u	1.7511	-1.7730u
V 292.401	1.2815	1.4041	1.1290
Zn 206.200	4.3628	4.2266	2.6232

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0004	ppb	0.1605	36099.2	-5.1209
Al 308.215	197.436	ppb	0.4822	0.2	1690.95
As 188.980	4.4219	ppb	2.2350	50.5	-4.9855
B 249.678	86.9545	ppb	0.3353	0.4	1610.54
Ba 389.178	0.6057	ppb	0.4634	76.5	31.8145
Be 313.042	-0.0215	ppb	0.0048	22.5	-177.202
Ca 370.602	7421	ppb	11.54	0.2	21993
Cd 226.502	-0.2802	ppb	0.0534	19.1	39.5041
Co 228.615	0.0436	ppb	0.5600	1284.8	-7.5192
Cr 267.716	0.7753	ppb	0.0391	5.0	82.6623
Cu 324.754	0.3195	ppb	0.1434	44.9	103.083
Fe 271.441	8033.11	ppb	12.2301	0.2	14429.5
K 766.491	1938.03	ppb	3.9851	0.2	68408.5
Mg 279.078	1084.79	ppb	3.8972	0.4	3140.82
Mn 257.610	86.3450	ppb	0.0824	0.1	23115.4
Mo 202.032	0.1686	ppb	0.3677	218.0	9.9831
Na 330.237	40447.9	ppb	187.387	0.5	2250.00
Ni 231.604	0.3819	ppb	0.2019	52.9	-1.3885
Pb 220.353	0.6266	ppb	0.0472	7.5	20.0394
Sb 206.834	-0.7042	ppb	1.6962	240.9	4.4121
Se 196.026	-2.6862	ppb	2.2750	84.7	-2.1470
Sn 189.925	-0.1984	ppb	1.7179	865.7	-8.6113
Sr 216.596	2.2672	ppb	0.3280	14.5	60.6191
Ti 334.941	7.6004	ppb	0.0492	0.6	2318.72
Tl 190.794	-0.7408	ppb	2.1686	292.7	-11.3463
V 292.401	1.2715	ppb	0.1378	10.8	28.4692
Zn 206.200	3.7375	ppb	0.9675	25.9	6.7712

680-92725-a-2-a (Samp) **8/3/2013, 12:40:25 AM** **Rack 3, Tube 45**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	-0.3373u	-0.0725u	-0.1105u
Al 308.215	65.3332	65.6989	64.3580
As 188.980	-0.7431u	-1.7044u	-0.2730u
B 249.678	136.194	137.300	137.033
Ba 389.178	169.725	169.601	169.318
Be 313.042	0.0464	0.0453	0.0499
Ca 370.602	31025	30858	30918
Cd 226.502	-0.1381	-0.2301	-0.2973
Co 228.615	-0.1634u	-0.0658u	-0.2733u
Cr 267.716	0.0788	0.1327	0.0700
Cu 324.754	0.2650	0.2585	0.4879
Fe 271.441	9665.72	9685.97	9684.64
K 766.491	3597.93	3589.63	3595.15
Mg 279.078	8458.65	8498.17	8500.75
Mn 257.610	331.428	331.719	331.879
Mo 202.032	-0.4133u	-0.6310u	-0.0093u
Na 330.237	35312.6	35272.8	35101.0
Ni 231.604	0.6047	1.7746	1.6890
Pb 220.353	-3.7079u	-2.0209u	1.4897
Sb 206.834	0.7668	-0.3477u	-0.2515u
Se 196.026	2.4201	-5.4283u	-5.6607u
Sn 189.925	-0.9425u	2.1189	0.2784
Sr 216.596	243.880	244.655	244.546
Ti 334.941	1.6549	1.6286	1.6275
Tl 190.794	-2.4024u	-0.7617u	-0.9413u
V 292.401	0.8148	1.0219	1.0499
Zn 206.200	2.4068	1.7789	1.3051

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1734	ppb	0.1432	82.5	-28.0788
Al 308.215	65.1301	ppb	0.6931	1.1	731.579
As 188.980	-0.9068	ppb	0.7296	80.5	-9.7066
B 249.678	136.843	ppb	0.5772	0.4	2469.12
Ba 389.178	169.548	ppb	0.2083	0.1	4376.15
Be 313.042	0.0472	ppb	0.0024	5.1	-31.6831
Ca 370.602	30934	ppb	84.98	0.3	93497
Cd 226.502	-0.2218	ppb	0.0799	36.0	49.9792
Co 228.615	-0.1675	ppb	0.1038	62.0	-10.5514
Cr 267.716	0.0939	ppb	0.0339	36.2	43.6701
Cu 324.754	0.3371	ppb	0.1306	38.7	104.792
Fe 271.441	9678.78	ppb	11.3230	0.1	17381.1
K 766.491	3594.24	ppb	4.2270	0.1	126652
Mg 279.078	8485.86	ppb	23.6000	0.3	24323.3
Mn 257.610	331.675	ppb	0.2285	0.1	88492.6
Mo 202.032	-0.3512	ppb	0.3154	89.8	5.5540
Na 330.237	35228.8	ppb	112.436	0.3	1965.44
Ni 231.604	1.3561	ppb	0.6521	48.1	2.3816
Pb 220.353	-1.4130	ppb	2.6516	187.7	16.1179
Sb 206.834	0.0559	ppb	0.6176	1105.5	5.7009
Se 196.026	-2.8896	ppb	4.5998	159.2	-2.1859
Sn 189.925	0.4849	ppb	1.5411	317.8	-7.8484
Sr 216.596	244.360	ppb	0.4193	0.2	4013.13
Ti 334.941	1.6370	ppb	0.0155	0.9	505.653
Tl 190.794	-1.3684	ppb	0.8999	65.8	-12.5593
V 292.401	0.9622	ppb	0.1284	13.3	19.4920
Zn 206.200	1.8303	ppb	0.5526	30.2	3.5297

680-92725-a-3-a (Samp) **8/3/2013, 12:45:03 AM** **Rack 3, Tube 46**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.1081u	-0.2917u	-0.1390u
Al 308.215	160.639	161.437	160.403
As 188.980	4.4655	3.3437	-0.9165u
B 249.678	349.249	348.556	347.121
Ba 389.178	138.674	138.880	138.843
Be 313.042	0.0288	0.0377	0.0301
Ca 370.602	92630	92828	92661
Cd 226.502	-0.1856	-0.3086	-0.2123
Co 228.615	0.4873	-0.5024u	-0.1986u
Cr 267.716	0.4356	0.3005	0.2336
Cu 324.754	0.2003	0.4081	-0.1090u
Fe 271.441	18338.0	18354.0	18275.4
K 766.491	7602.18	7572.25	7513.29
Mg 279.078	12208.6	12191.2	12166.5
Mn 257.610	537.323	537.446	535.471
Mo 202.032	0.1413	1.2928	0.4031
Na 330.237	243438x	244356x	243056x
Ni 231.604	1.4907	2.4195	1.8617
Pb 220.353	-1.8565u	-2.2820u	-0.6085
Sb 206.834	-1.3397u	2.9407	-0.0066
Se 196.026	-4.2194u	8.5599	2.6290
Sn 189.925	0.5589	0.2413	0.2147
Sr 216.596	482.445	483.843	480.970
Ti 334.941	0.3644	0.4113	0.4357
Tl 190.794	-5.7723u	-3.3348u	-1.4570u
V 292.401	1.2301	1.5742	1.2999
Zn 206.200	6.4291	7.2266	7.4926

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1075b	ppb	0.2017	187.6	-33.1745
Al 308.215	160.826b	ppb	0.5418	0.3	1425.48
As 188.980	2.2975b	ppb	2.8394	123.6	-7.0018
B 249.678	348.309b	ppb	1.0857	0.3	6104.39
Ba 389.178	138.799b	ppb	0.1098	0.1	3614.04
Be 313.042	0.0322b	ppb	0.0048	15.0	-65.1102
Ca 370.602	92706b	ppb	106.6	0.1	281018
Cd 226.502	-0.2355b	ppb	0.0647	27.5	84.7025
Co 228.615	-0.0712b	ppb	0.5070	711.6	-8.9005
Cr 267.716	0.3232b	ppb	0.1029	31.8	65.6652
Cu 324.754	0.1665b	ppb	0.2602	156.3	97.2821
Fe 271.441	18322.5b	ppb	41.5111	0.2	32884.8
K 766.491	7562.57b	ppb	45.2268	0.6	266207
Mg 279.078	12188.8b	ppb	21.1191	0.2	34921.4
Mn 257.610	536.747b	ppb	1.1066	0.2	143140
Mo 202.032	0.6124b	ppb	0.6036	98.6	13.0903
Na 330.237	243617xb	ppb	668.313	0.3	13305.8
Ni 231.604	1.9240b	ppb	0.4675	24.3	4.8111
Pb 220.353	-1.5823b	ppb	0.8698	55.0	16.5713
Sb 206.834	0.5315b	ppb	2.1904	412.1	6.7725
Se 196.026	2.3232b	ppb	6.3951	275.3	0.8447
Sn 189.925	0.3383b	ppb	0.1915	56.6	-7.8763
Sr 216.596	482.419b	ppb	1.4367	0.3	7915.21
Ti 334.941	0.4038b	ppb	0.0363	9.0	124.358
Tl 190.794	-3.5214b	ppb	2.1637	61.4	-16.5694
V 292.401	1.3681b	ppb	0.1819	13.3	29.5603
Zn 206.200	7.0494b	ppb	0.5534	7.9	12.5611

680-92725-c-5-a (Samp) **8/3/2013, 12:49:40 AM** **Rack 3, Tube 47**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.0850u	-0.0776u	0.2824
Al 308.215	197.518	196.846	196.281
As 188.980	1.8367	2.6305	0.3162
B 249.678	82.5805	82.1467	80.9581
Ba 389.178	4.7324	4.6393	4.3736
Be 313.042	-0.0258u	-0.0199u	-0.0254u
Ca 370.602	12072	12034	12027
Cd 226.502	-0.0318	-0.1069	-0.0655
Co 228.615	0.3915	0.1743	0.0861
Cr 267.716	0.3812	0.2168	0.3901
Cu 324.754	-0.1689u	0.1497	-0.2668u
Fe 271.441	1520.80	1510.09	1500.73
K 766.491	1611.40	1607.78	1605.11
Mg 279.078	448.212	446.063	440.705
Mn 257.610	22.2836	22.2661	22.1321
Mo 202.032	1.6368	0.9163	1.3957
Na 330.237	11033.1	11089.8	10999.9
Ni 231.604	-0.2246u	0.0886	-0.1718u
Pb 220.353	-0.1206u	-1.2477u	0.0274
Sb 206.834	0.2384	3.2845	-0.6794u
Se 196.026	-4.6827u	-0.1882u	2.3234
Sn 189.925	0.2397	-0.2159u	1.6721
Sr 216.596	41.8686	41.7744	40.9343
Ti 334.941	2.0093	1.9999	1.9436
Tl 190.794	-2.6292u	-5.3949u	-1.4188u
V 292.401	1.6110	1.7515	1.7878
Zn 206.200	31.5346	31.0806	29.8026

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0399	ppb	0.2100	526.0	-4.1819
Al 308.215	196.882	ppb	0.6192	0.3	1686.90
As 188.980	1.5945	ppb	1.1760	73.8	-7.3870
B 249.678	81.8951	ppb	0.8399	1.0	1538.78
Ba 389.178	4.5817	ppb	0.1862	4.1	121.432
Be 313.042	-0.0237	ppb	0.0033	13.9	-176.127
Ca 370.602	12044	ppb	24.29	0.2	36571
Cd 226.502	-0.0681	ppb	0.0377	55.3	23.5313
Co 228.615	0.2173	ppb	0.1572	72.3	-5.5511
Cr 267.716	0.3293	ppb	0.0976	29.6	53.1074
Cu 324.754	-0.0953	ppb	0.2178	228.4	74.4917
Fe 271.441	1510.54	ppb	10.0461	0.7	2730.33
K 766.491	1608.09	ppb	3.1559	0.2	56805.8
Mg 279.078	444.994	ppb	3.8662	0.9	1309.03
Mn 257.610	22.2273	ppb	0.0829	0.4	6022.09
Mo 202.032	1.3163	ppb	0.3668	27.9	19.9292
Na 330.237	11040.9	ppb	45.4893	0.4	650.961
Ni 231.604	-0.1026	ppb	0.1677	163.5	-3.4361
Pb 220.353	-0.4470	ppb	0.6974	156.0	17.2856
Sb 206.834	0.9478	ppb	2.0750	218.9	6.8087
Se 196.026	-0.8492	ppb	3.5495	418.0	-1.1549
Sn 189.925	0.5653	ppb	0.9852	174.3	-7.7817
Sr 216.596	41.5258	ppb	0.5144	1.2	692.592
Ti 334.941	1.9843	ppb	0.0355	1.8	574.328
Tl 190.794	-3.1476	ppb	2.0381	64.8	-14.1459
V 292.401	1.7167	ppb	0.0933	5.4	41.6181
Zn 206.200	30.8059	ppb	0.8981	2.9	53.0131

680-92772-a-2-a (Samp) **8/3/2013, 12:54:29 AM** **Rack 3, Tube 48**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.0462	-0.4754u	-0.0543u
Al 308.215	523.429	520.073	523.599
As 188.980	-1.9269u	-0.3938u	-3.8128u
B 249.678	30.7140	30.1425	30.4022
Ba 389.178	51.6080	52.0402	51.9942
Be 313.042	0.2243	0.2295	0.2295
Ca 370.602	7534	7490	7527
Cd 226.502	0.5337	0.5100	0.4839
Co 228.615	34.2160	34.3308	34.8452
Cr 267.716	-0.2146u	0.2484	0.1474
Cu 324.754	7.9961	7.8153	7.7777
Fe 271.441	11.9398	4.3257	10.8655
K 766.491	1917.31	1906.99	1913.62
Mg 279.078	2111.40	2106.97	2104.76
Mn 257.610	220.479	219.522	220.440
Mo 202.032	-0.1415u	-0.3028u	-0.3374u
Na 330.237	35725.7	35717.6	35834.6
Ni 231.604	12.8111	12.3889	13.4150
Pb 220.353	1.5660	-1.5864u	-0.2195u
Sb 206.834	1.5435	0.0221	0.2192
Se 196.026	-1.0651u	4.3259	2.7197
Sn 189.925	0.5947	-0.1888u	-1.4822u
Sr 216.596	54.7837	54.4045	54.6417
Ti 334.941	-0.0525u	-0.0739u	-0.0035
Tl 190.794	-2.8053u	-1.9682u	-0.1597u
V 292.401	-0.0724u	0.1905	0.0053u
Zn 206.200	97.8518	95.3877	95.2166

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1611	ppb	0.2768	171.8	-18.9091
Al 308.215	522.367	ppb	1.9885	0.4	4045.62
As 188.980	-2.0445	ppb	1.7125	83.8	-10.5683
B 249.678	30.4196	ppb	0.2862	0.9	652.404
Ba 389.178	51.8808	ppb	0.2374	0.5	1333.47
Be 313.042	0.2278	ppb	0.0030	1.3	319.190
Ca 370.602	7517	ppb	23.76	0.3	22899
Cd 226.502	0.5092	ppb	0.0249	4.9	49.1242
Co 228.615	34.4640	ppb	0.3351	1.0	473.978
Cr 267.716	0.0604	ppb	0.2434	402.8	38.2483
Cu 324.754	7.8630	ppb	0.1168	1.5	576.154
Fe 271.441	9.0437	ppb	4.1210	45.6	41.7988
K 766.491	1912.64	ppb	5.2282	0.3	67515.7
Mg 279.078	2107.71	ppb	3.3789	0.2	6064.14
Mn 257.610	220.147	ppb	0.5416	0.2	58715.2
Mo 202.032	-0.2606	ppb	0.1045	40.1	6.8687
Na 330.237	35759.3	ppb	65.3565	0.2	1995.92
Ni 231.604	12.8716	ppb	0.5157	4.0	45.9605
Pb 220.353	-0.0800	ppb	1.5809	1976.2	17.9360
Sb 206.834	0.5949	ppb	0.8274	139.1	6.2156
Se 196.026	1.9935	ppb	2.7679	138.8	0.4979
Sn 189.925	-0.3588	ppb	1.0488	292.3	-8.7896
Sr 216.596	54.6099	ppb	0.1916	0.4	902.877
Ti 334.941	-0.0433	ppb	0.0361	83.4	-48.9260
Tl 190.794	-1.6444	ppb	1.3522	82.2	-11.8485
V 292.401	0.0411	ppb	0.1351	328.6	-7.8914
Zn 206.200	96.1520	ppb	1.4745	885	164.811

680-92772-a-3-a (Samp) **8/3/2013, 1:08:21 AM** **Rack 3, Tube 51**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.0846u	-0.1664u	0.3117
Al 308.215	17.0552	16.3038	16.8293
As 188.980	0.1988	-1.2854u	-7.9975u
B 249.678	42.4550	42.6490	42.4179
Ba 389.178	37.1498	37.6390	37.6542
Be 313.042	0.0919	0.0889	0.0803
Ca 370.602	15671	15592	15649
Cd 226.502	-0.0707	0.1116	0.0652
Co 228.615	10.9972	10.5976	10.6690
Cr 267.716	-0.0045	0.1401	-0.0583u
Cu 324.754	0.8326	0.7500	1.0845
Fe 271.441	3396.82	3385.67	3396.12
K 766.491	1160.81	1159.87	1168.70
Mg 279.078	2170.67	2160.57	2166.27
Mn 257.610	178.146	177.062	177.634
Mo 202.032	0.8509	0.6178	0.3290
Na 330.237	29540.4	29647.3	29852.2
Ni 231.604	3.8156	3.9554	3.2415
Pb 220.353	-0.6478u	-0.5150u	0.6572
Sb 206.834	4.4717	3.6753	-0.5093u
Se 196.026	-2.0544u	1.5818	3.5618
Sn 189.925	-0.8003u	-1.6232u	0.5961
Sr 216.596	82.1564	81.6485	81.8027
Ti 334.941	0.0162	0.0069	0.0479
Tl 190.794	0.8094	-2.2023u	1.4346
V 292.401	0.0877	0.0241	0.0083u
Zn 206.200	40.4302	41.3828	39.6162

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0202	ppb	0.2557	1264.9	-6.8436
Al 308.215	16.7294	ppb	0.3855	2.3	380.316
As 188.980	-3.0280	ppb	4.3672	144.2	-11.4896
B 249.678	42.5073	ppb	0.1241	0.3	853.266
Ba 389.178	37.4810	ppb	0.2869	0.8	970.676
Be 313.042	0.0870	ppb	0.0060	6.9	43.0051
Ca 370.602	15637	ppb	40.87	0.3	47375
Cd 226.502	0.0354	ppb	0.0948	267.8	37.2465
Co 228.615	10.7546	ppb	0.2131	2.0	142.061
Cr 267.716	0.0258	ppb	0.1026	398.0	36.8105
Cu 324.754	0.8890	ppb	0.1743	19.6	137.316
Fe 271.441	3392.87	ppb	6.2444	0.2	6107.96
K 766.491	1163.13	ppb	4.8511	0.4	41157.6
Mg 279.078	2165.84	ppb	5.0591	0.2	6232.51
Mn 257.610	177.614	ppb	0.5424	0.3	47405.1
Mo 202.032	0.5992	ppb	0.2614	43.6	13.8447
Na 330.237	29680.0	ppb	158.459	0.5	1664.80
Ni 231.604	3.6708	ppb	0.3783	10.3	10.9983
Pb 220.353	-0.1685	ppb	0.7182	426.1	18.0552
Sb 206.834	2.5459	ppb	2.6757	105.1	9.4659
Se 196.026	1.0297	ppb	2.8485	276.6	-0.0443
Sn 189.925	-0.6091	ppb	1.1220	184.2	-9.0635
Sr 216.596	81.8692	ppb	0.2604	0.3	1353.30
Ti 334.941	0.0237	ppb	0.0215	90.8	-26.9259
Tl 190.794	0.0139	ppb	1.9446	13989.0	-9.8580
V 292.401	0.0400	ppb	0.0420	105.0	-8.0291
Zn 206.200	40.4764	ppb	0.8942	2.2	69.5837

680-92772-a-4-a (Samp) **8/3/2013, 1:12:58 AM** **Rack 3, Tube 52**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.3375	-0.0150u	-0.2377u
Al 308.215	27.4685	27.9010	29.8623
As 188.980	-2.6182u	-0.7521u	0.9021
B 249.678	46.3548	47.2909	47.2488
Ba 389.178	45.8133	47.0001	46.4741
Be 313.042	0.0540	0.0496	0.0505
Ca 370.602	16947	16832	16884
Cd 226.502	0.0299	-0.0767	-0.1139
Co 228.615	12.4031	13.1035	12.7867
Cr 267.716	0.1763	-0.0060	-0.2892u
Cu 324.754	0.5882	1.0868	1.0330
Fe 271.441	2181.11	2173.96	2175.17
K 766.491	1319.46	1309.25	1299.26
Mg 279.078	2495.59	2489.16	2491.54
Mn 257.610	180.969	180.671	180.418
Mo 202.032	0.1334	0.0240	0.7223
Na 330.237	32587.1	32508.6	32463.1
Ni 231.604	4.4940	3.7017	3.9177
Pb 220.353	0.9202	0.9332	-0.5865u
Sb 206.834	-0.2016u	0.6376	1.5882
Se 196.026	1.4937	7.9089	5.6947
Sn 189.925	0.4972	-1.0885u	-0.8384u
Sr 216.596	90.1883	89.8461	89.4497
Ti 334.941	0.0051	0.0105	0.0175
Tl 190.794	-2.3248u	-3.1574u	-0.0928u
V 292.401	0.0464	0.0625	0.0873
Zn 206.200	44.9739	46.3009	45.0076

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0282	ppb	0.2900	1026.7	-6.5726
Al 308.215	28.4106	ppb	1.2757	4.5	464.893
As 188.980	-0.8228	ppb	1.7612	214.1	-9.5288
B 249.678	46.9648	ppb	0.5287	1.1	933.249
Ba 389.178	46.4292	ppb	0.5947	1.3	1198.56
Be 313.042	0.0514	ppb	0.0023	4.5	-27.7680
Ca 370.602	16887	ppb	57.61	0.3	51277
Cd 226.502	-0.0536	ppb	0.0746	139.3	27.0697
Co 228.615	12.7644	ppb	0.3507	2.7	170.166
Cr 267.716	-0.0396	ppb	0.2346	591.9	32.6300
Cu 324.754	0.9027	ppb	0.2736	30.3	137.714
Fe 271.441	2176.74	ppb	3.8261	0.2	3926.94
K 766.491	1309.32	ppb	10.1006	0.8	46298.8
Mg 279.078	2492.09	ppb	3.2520	0.1	7166.13
Mn 257.610	180.686	ppb	0.2760	0.2	48222.0
Mo 202.032	0.2932	ppb	0.3756	128.1	11.3623
Na 330.237	32519.6	ppb	62.6984	0.2	1819.68
Ni 231.604	4.0378	ppb	0.4096	10.1	12.3570
Pb 220.353	0.4223	ppb	0.8737	206.9	19.1491
Sb 206.834	0.6747	ppb	0.8954	132.7	6.4074
Se 196.026	5.0324	ppb	3.2584	64.7	2.2086
Sn 189.925	-0.4766	ppb	0.8525	178.9	-8.9155
Sr 216.596	89.8280	ppb	0.3696	0.4	1481.59
Ti 334.941	0.0110	ppb	0.0062	56.6	-29.6209
Tl 190.794	-1.8583	ppb	1.5847	85.3	-12.4177
V 292.401	0.0654	ppb	0.0206	31.5	-7.2396
Zn 206.200	45.4275	ppb	0.7566	887.7	78.0414

680-92772-a-5-a (Samp) **8/3/2013, 1:17:35 AM** **Rack 3, Tube 53**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.2070u	-0.3114u	0.1694
Al 308.215	25.7725	23.3537	25.0199
As 188.980	-2.4298u	2.1466	-6.2704u
B 249.678	45.3873	45.5101	45.8638
Ba 389.178	46.4996	45.8866	46.4000
Be 313.042	0.0456	0.0345	0.0458
Ca 370.602	15706	15720	15811
Cd 226.502	0.0526	0.1345	0.0876
Co 228.615	11.8261	11.7484	11.7403
Cr 267.716	0.2012	0.0757	-0.0939u
Cu 324.754	0.5535	1.0329	1.1019
Fe 271.441	1002.67	993.449	1004.26
K 766.491	1354.80	1362.08	1378.20
Mg 279.078	2525.29	2538.10	2554.86
Mn 257.610	168.941	169.377	170.374
Mo 202.032	0.0819	-0.3882u	-0.1987u
Na 330.237	32570.0	32521.2	32704.8
Ni 231.604	4.8734	4.8856	4.5667
Pb 220.353	0.6576	1.5710	-0.1063u
Sb 206.834	0.4927	-1.4095u	4.1494
Se 196.026	0.1780	-1.1108u	6.6893
Sn 189.925	-0.5633u	2.4394	-0.4297u
Sr 216.596	83.3867	84.0116	84.0001
Ti 334.941	-0.0030	0.0220	-0.0312
Tl 190.794	-1.8985u	-1.3835u	-0.8526u
V 292.401	0.0693	0.3283	-0.0696u
Zn 206.200	49.3362	48.9287	48.3630

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1163	ppb	0.2529	217.4	-17.1412
Al 308.215	24.7154	ppb	1.2378	5.0	438.107
As 188.980	-2.1845	ppb	4.2139	192.9	-10.7126
B 249.678	45.5871	ppb	0.2474	0.5	912.252
Ba 389.178	46.2620	ppb	0.3290	0.7	1192.59
Be 313.042	0.0420	ppb	0.0065	15.5	-46.7596
Ca 370.602	15746	ppb	56.87	0.4	47887
Cd 226.502	0.0916	ppb	0.0411	44.9	30.1238
Co 228.615	11.7716	ppb	0.0474	0.4	156.231
Cr 267.716	0.0610	ppb	0.1481	242.8	38.2294
Cu 324.754	0.8961	ppb	0.2987	33.3	136.841
Fe 271.441	1000.12	ppb	5.8356	0.6	1816.38
K 766.491	1365.03	ppb	11.9760	0.9	48257.9
Mg 279.078	2539.42	ppb	14.8309	0.6	7301.57
Mn 257.610	169.564	ppb	0.7347	0.4	45258.3
Mo 202.032	-0.1683	ppb	0.2365	140.5	7.5808
Na 330.237	32598.7	ppb	95.0810	0.3	1824.29
Ni 231.604	4.7752	ppb	0.1807	3.8	15.1406
Pb 220.353	0.7075	ppb	0.8398	118.7	19.6246
Sb 206.834	1.0775	ppb	2.8253	262.2	7.0266
Se 196.026	1.9188	ppb	4.1813	217.9	0.4453
Sn 189.925	0.4822	ppb	1.6963	351.8	-7.8609
Sr 216.596	83.7995	ppb	0.3575	0.4	1381.54
Ti 334.941	-0.0041	ppb	0.0266	651.3	-34.2145
Tl 190.794	-1.3782	ppb	0.5229	37.9	-11.6196
V 292.401	0.1093	ppb	0.2019	184.7	-5.8476
Zn 206.200	48.8760	ppb	0.4887	888.0	83.9280

680-92772-a-5-a SD^5 (Samp) **8/3/2013, 1:22:24 AM** **Rack 3, Tube 54**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.3502	0.3313	-0.1430u
Al 308.215	5.1892	5.9428	6.0156
As 188.980	-0.8228u	-0.0589u	-1.4761u
B 249.678	8.6910	8.7911	8.6995
Ba 389.178	9.4915	8.8913	9.3500
Be 313.042	-0.0191u	-0.0185u	-0.0176u
Ca 370.602	3198	3219	3232
Cd 226.502	0.0026	-0.0988u	-0.1140u
Co 228.615	2.6030	2.4441	2.1330
Cr 267.716	-0.1330u	-0.0272u	-0.0402u
Cu 324.754	-0.0716u	0.1452	-0.0577u
Fe 271.441	206.228	204.719	205.823
K 766.491	266.565	264.078	265.682
Mg 279.078	530.467	529.101	529.072
Mn 257.610	35.5152	35.5893	35.6602
Mo 202.032	-0.6378u	0.4272	-0.1547u
Na 330.237	6408.56	6343.17	6591.15
Ni 231.604	1.5050	2.4046	1.2297
Pb 220.353	-2.2477u	-0.7336u	-1.6068u
Sb 206.834	0.5686	2.5503	6.9413
Se 196.026	4.0406	-1.7477u	3.5478
Sn 189.925	-0.1771u	0.5178	-1.9406u
Sr 216.596	16.9098	16.5883	17.0984
Ti 334.941	-0.0093u	-0.0065	0.0200
Tl 190.794	-3.6244u	-1.7362u	-0.3400u
V 292.401	0.0609	0.1510	0.1659
Zn 206.200	9.9662	9.7404	8.8509

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1795	ppb	0.2795	155.7	7.4413
Al 308.215	5.7159	ppb	0.4575	8.0	300.815
As 188.980	-0.7859	ppb	0.7093	90.3	-9.4691
B 249.678	8.7272	ppb	0.0555	0.6	276.890
Ba 389.178	9.2443	ppb	0.3138	3.4	238.864
Be 313.042	-0.0184	ppb	0.0008	4.2	-168.022
Ca 370.602	3216	ppb	17.36	0.5	9777
Cd 226.502	-0.0701	ppb	0.0634	90.5	17.8685
Co 228.615	2.3933	ppb	0.2391	10.0	24.8585
Cr 267.716	-0.0668	ppb	0.0577	86.3	29.0660
Cu 324.754	0.0053	ppb	0.1214	2285.2	80.3297
Fe 271.441	205.590	ppb	0.7808	0.4	389.998
K 766.491	265.441	ppb	1.2609	0.5	9588.75
Mg 279.078	529.546	ppb	0.7970	0.2	1550.55
Mn 257.610	35.5882	ppb	0.0725	0.2	9575.11
Mo 202.032	-0.1217	ppb	0.5333	438.0	8.0153
Na 330.237	6447.63	ppb	128.523	2.0	401.694
Ni 231.604	1.7131	ppb	0.6145	35.9	3.4516
Pb 220.353	-1.5293	ppb	0.7600	49.7	14.9896
Sb 206.834	3.3534	ppb	3.2613	97.3	10.6634
Se 196.026	1.9469	ppb	3.2091	164.8	0.4202
Sn 189.925	-0.5333	ppb	1.2673	237.6	-8.9980
Sr 216.596	16.8655	ppb	0.2579	1.5	287.416
Ti 334.941	0.0014	ppb	0.0162	1141.2	-40.3857
Tl 190.794	-1.9002	ppb	1.6483	86.7	-12.2427
V 292.401	0.1259	ppb	0.0568	45.1	-5.1708
Zn 206.200	9.5192	ppb	0.5896	6.2	16.5753

680-92772-a-5-a PDS (Samp) **8/3/2013, 1:27:02 AM** **Rack 3, Tube 55**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	38.1578	38.5770	37.9970
Al 308.215	2020.50	2019.23	2015.02
As 188.980	214.818	211.274	209.090
B 249.678	545.844	546.022	543.827
Ba 389.178	262.924	262.773	262.283
Be 313.042	53.8950	53.8618	53.8051
Ca 370.602	17370	17350	17371
Cd 226.502	53.6851	53.4513	53.2569
Co 228.615	226.242	224.316	226.288
Cr 267.716	216.807	216.143	215.794
Cu 324.754	221.770	221.500	219.235
Fe 271.441	3074.07	3069.06	3071.50
K 766.491	3575.60	3592.21	3591.73
Mg 279.078	4643.14	4641.71	4642.22
Mn 257.610	384.950	384.097	383.811
Mo 202.032	217.300	217.324	217.443
Na 330.237	34338.8	34302.0	34222.5
Ni 231.604	215.224	212.627	215.798
Pb 220.353	208.630	206.948	209.060
Sb 206.834	205.415	205.555	205.743
Se 196.026	216.597	205.224	208.094
Sn 189.925	215.966	219.053	217.029
Sr 216.596	299.458	299.488	298.171
Ti 334.941	212.577	212.715	212.293
Tl 190.794	206.964	207.449	205.076
V 292.401	214.287	213.910	213.135
Zn 206.200	261.384	258.699	257.292

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	38.2439	ppb	0.2994	0.8	2844.17
Al 308.215	2018.25	ppb	2.8682	0.1	14853.9
As 188.980	211.727	ppb	2.8910	1.4	177.739
B 249.678	545.231	ppb	1.2188	0.2	9545.69
Ba 389.178	262.660	ppb	0.3354	0.1	6737.71
Be 313.042	53.8540	ppb	0.0454	0.1	106874
Ca 370.602	17364	ppb	11.53	0.1	52775
Cd 226.502	53.4644	ppb	0.2144	0.4	3015.17
Co 228.615	225.615	ppb	1.1256	0.5	3150.16
Cr 267.716	216.248	ppb	0.5146	0.2	12939.9
Cu 324.754	220.835	ppb	1.3922	0.6	14022.9
Fe 271.441	3071.54	ppb	2.5028	0.1	5563.01
K 766.491	3586.51	ppb	9.4516	0.3	126381
Mg 279.078	4642.35	ppb	0.7265	0.0	13316.7
Mn 257.610	384.286	ppb	0.5925	0.2	102440
Mo 202.032	217.356	ppb	0.0767	0.0	1821.05
Na 330.237	34287.8	ppb	59.4467	0.2	1911.46
Ni 231.604	214.550	ppb	1.6896	0.8	815.636
Pb 220.353	208.213	ppb	1.1163	0.5	439.942
Sb 206.834	205.571	ppb	0.1648	0.1	336.362
Se 196.026	209.971	ppb	5.9145	2.8	117.814
Sn 189.925	217.349	ppb	1.5681	0.7	230.833
Sr 216.596	299.039	ppb	0.7522	0.3	4883.82
Ti 334.941	212.528	ppb	0.2153	0.1	65933.8
Tl 190.794	206.497	ppb	1.2535	0.6	286.227
V 292.401	213.777	ppb	0.5871	0.3	6268.13
Zn 206.200	259.125	ppb	2.0793	0.8	442.802

680-92772-a-5-b ms (Samp) **8/3/2013, 1:31:39 AM** **Rack 3, Tube 56**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	57.0374	57.2580	57.3438
Al 308.215	4981.43	4984.35	4978.83
As 188.980	111.766	104.613	112.377
B 249.678	244.734	245.919	245.277
Ba 389.178	150.493	151.547	151.898
Be 313.042	53.0203	52.8953	52.9672
Ca 370.602	20263	20272	20221
Cd 226.502	52.4372	52.5973	52.7754
Co 228.615	65.4127	64.9434	65.6137
Cr 267.716	108.009	107.718	107.886
Cu 324.754	110.002	109.234	110.272
Fe 271.441	6076.62	6070.92	6084.21
K 766.491	6956.37	6941.74	6942.10
Mg 279.078	7695.21	7690.59	7687.41
Mn 257.610	707.867	707.928	707.755
Mo 202.032	105.906	106.093	105.811
Na 330.237	40503.3	40500.8	40537.6
Ni 231.604	108.991	108.434	108.987
Pb 220.353	51.1820	52.6173	52.8290
Sb 206.834	50.1943	54.0486	57.5579
Se 196.026	110.383	106.957	113.100
Sn 189.925	208.314	209.304	209.211
Sr 216.596	188.039	188.003	187.660
Ti 334.941	102.354	102.353	102.482
Tl 190.794	41.4097	39.9732	41.5626
V 292.401	105.111	104.627	105.154
Zn 206.200	152.182	151.460	152.444

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	57.2131	ppb	0.1580	0.3	4268.53
Al 308.215	4981.53	ppb	2.7619	0.1	36364.7
As 188.980	109.585	ppb	4.3171	3.9	87.7570
B 249.678	245.310	ppb	0.5932	0.2	4353.10
Ba 389.178	151.313	ppb	0.7312	0.5	3902.76
Be 313.042	52.9609	ppb	0.0628	0.1	105122
Ca 370.602	20252	ppb	27.15	0.1	61297
Cd 226.502	52.6033	ppb	0.1692	0.3	2980.00
Co 228.615	65.3232	ppb	0.3440	0.5	905.870
Cr 267.716	107.871	ppb	0.1458	0.1	6475.58
Cu 324.754	109.836	ppb	0.5384	0.5	7016.33
Fe 271.441	6077.25	ppb	6.6695	0.1	10931.3
K 766.491	6946.74	ppb	8.3450	0.1	244550
Mg 279.078	7691.07	ppb	3.9214	0.1	22036.9
Mn 257.610	707.850	ppb	0.0873	0.0	188604
Mo 202.032	105.937	ppb	0.1437	0.1	891.929
Na 330.237	40513.9	ppb	20.5572	0.1	2251.53
Ni 231.604	108.804	ppb	0.3206	0.3	412.397
Pb 220.353	52.2094	ppb	0.8961	1.7	124.249
Sb 206.834	53.9336	ppb	3.6832	6.8	92.5892
Se 196.026	110.147	ppb	3.0782	2.8	61.6357
Sn 189.925	208.943	ppb	0.5469	0.3	221.586
Sr 216.596	187.901	ppb	0.2090	0.1	3081.39
Ti 334.941	102.396	ppb	0.0743	0.1	31770.6
Tl 190.794	40.9818	ppb	0.8769	2.1	48.3644
V 292.401	104.964	ppb	0.2928	0.3	3072.98
Zn 206.200	152.029	ppb	0.5095	0.3	260.040

680-92772-a-5-c msd (Samp) **8/3/2013, 1:36:16 AM** **Rack 3, Tube 57**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	57.2156	56.4360	56.4085
Al 308.215	4926.66	4925.61	4919.39
As 188.980	105.760	107.082	109.444
B 249.678	243.189	243.830	244.250
Ba 389.178	152.982	153.347	152.223
Be 313.042	52.5681	52.6385	52.6074
Ca 370.602	20349	20294	20164
Cd 226.502	51.7275	52.0456	51.6722
Co 228.615	63.9541	63.9694	63.6605
Cr 267.716	107.062	107.409	106.973
Cu 324.754	109.471	110.127	111.038
Fe 271.441	5936.86	5947.73	5943.51
K 766.491	6829.50	6837.81	6849.75
Mg 279.078	7622.51	7621.88	7620.63
Mn 257.610	697.096	696.723	695.485
Mo 202.032	105.347	104.734	105.071
Na 330.237	38905.6	38968.4	39087.9
Ni 231.604	109.951	109.708	108.818
Pb 220.353	52.9492	51.2305	50.2074
Sb 206.834	53.9101	56.5490	53.6538
Se 196.026	98.7062	108.128	105.220
Sn 189.925	205.161	204.705	210.736
Sr 216.596	187.577	187.612	187.785
Ti 334.941	102.107	102.260	102.106
Tl 190.794	38.5676	37.2041	39.5931
V 292.401	104.444	104.619	103.864
Zn 206.200	154.448	153.016	154.526

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	56.6867	ppb	0.4582	0.8	4229.13
Al 308.215	4923.89	ppb	3.9308	0.1	35946.8
As 188.980	107.429	ppb	1.8665	1.7	85.8573
B 249.678	243.756	ppb	0.5340	0.2	4326.56
Ba 389.178	152.851	ppb	0.5735	0.4	3941.67
Be 313.042	52.6047	ppb	0.0353	0.1	104414
Ca 370.602	20269	ppb	94.98	0.5	61358
Cd 226.502	51.8151	ppb	0.2015	0.4	2935.49
Co 228.615	63.8613	ppb	0.1741	0.3	885.405
Cr 267.716	107.148	ppb	0.2304	0.2	6432.34
Cu 324.754	110.212	ppb	0.7865	0.7	7040.01
Fe 271.441	5942.70	ppb	5.4796	0.1	10689.8
K 766.491	6839.02	ppb	10.1785	0.1	240762
Mg 279.078	7621.67	ppb	0.9551	0.0	21838.5
Mn 257.610	696.435	ppb	0.8430	0.1	185565
Mo 202.032	105.051	ppb	0.3069	0.3	884.548
Na 330.237	38987.3	ppb	92.6242	0.2	2168.45
Ni 231.604	109.492	ppb	0.5969	0.5	415.026
Pb 220.353	51.4624	ppb	1.3855	2.7	122.723
Sb 206.834	54.7043	ppb	1.6027	2.9	93.8255
Se 196.026	104.018	ppb	4.8245	4.6	58.1767
Sn 189.925	206.867	ppb	3.3580	1.6	219.300
Sr 216.596	187.658	ppb	0.1113	0.1	3077.25
Ti 334.941	102.158	ppb	0.0883	0.1	31696.4
Tl 190.794	38.4549	ppb	1.1984	3.1	44.7644
V 292.401	104.309	ppb	0.3953	0.4	3053.77
Zn 206.200	153.997	ppb	0.8500	0.6	263.409

680-92772-a-6-a (Samp) **8/3/2013, 1:40:53 AM** **Rack 3, Tube 58**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.2293	0.0169u	0.2231
Al 308.215	6.1446	6.4699	6.2899
As 188.980	-4.3258u	0.3856	-5.5763u
B 249.678	24.7994	24.5525	24.4162
Ba 389.178	16.6122	16.8597	16.0483
Be 313.042	-0.0289u	-0.0315u	-0.0346u
Ca 370.602	14960	14900	14968
Cd 226.502	0.0419	0.0848	-0.0883u
Co 228.615	0.7217	0.5954	-0.2535u
Cr 267.716	0.2632	0.2574	0.0487
Cu 324.754	2.7688	2.4785	2.5719
Fe 271.441	77.0929	78.3153	75.9563
K 766.491	376.296	374.970	374.322
Mg 279.078	1563.68	1563.08	1562.99
Mn 257.610	8.5390	8.5590	8.5204
Mo 202.032	1.1092	1.2335	0.8614
Na 330.237	31488.2	31351.7	31495.4
Ni 231.604	1.3914	1.1468	1.4517
Pb 220.353	0.2052	-0.9156u	-1.2146u
Sb 206.834	1.4493	1.8901	2.9458
Se 196.026	2.9165	6.5130	-1.0734u
Sn 189.925	2.9367	-1.6036u	-0.9233u
Sr 216.596	45.5511	45.1374	45.0738
Ti 334.941	0.0490	0.0365	0.0787
Tl 190.794	-3.0814u	-0.5218u	0.7623
V 292.401	0.4767	0.3851	0.4944
Zn 206.200	16.4495	16.3011	16.6233

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1564	ppb	0.1209	77.3	4.2784
Al 308.215	6.3015	ppb	0.1629	2.6	305.170
As 188.980	-3.1722	ppb	3.1439	99.1	-11.5709
B 249.678	24.5893	ppb	0.1943	0.8	551.442
Ba 389.178	16.5067	ppb	0.4159	2.5	427.388
Be 313.042	-0.0317	ppb	0.0029	9.0	-193.425
Ca 370.602	14943	ppb	37.35	0.2	45507
Cd 226.502	0.0128	ppb	0.0901	703.5	21.7486
Co 228.615	0.3546	ppb	0.5303	149.6	-3.7332
Cr 267.716	0.1897	ppb	0.1222	64.4	44.7472
Cu 324.754	2.6064	ppb	0.1482	5.7	244.470
Fe 271.441	77.1215	ppb	1.1798	1.5	159.301
K 766.491	375.196	ppb	1.0062	0.3	13448.5
Mg 279.078	1563.25	ppb	0.3748	0.0	4510.34
Mn 257.610	8.5395	ppb	0.0193	0.2	2384.59
Mo 202.032	1.0680	ppb	0.1894	17.7	17.9442
Na 330.237	31445.1	ppb	80.9623	0.3	1762.31
Ni 231.604	1.3300	ppb	0.1615	12.1	1.9908
Pb 220.353	-0.6417	ppb	0.7485	116.6	16.7701
Sb 206.834	2.0951	ppb	0.7690	36.7	8.6098
Se 196.026	2.7854	ppb	3.7949	136.2	0.8848
Sn 189.925	0.1366	ppb	2.4487	1792.7	-8.2422
Sr 216.596	45.2541	ppb	0.2592	0.6	751.868
Ti 334.941	0.0547	ppb	0.0217	39.6	-20.8484
Tl 190.794	-0.9470	ppb	1.9568	206.6	-10.8587
V 292.401	0.4521	ppb	0.0586	13.0	4.0613
Zn 206.200	16.4580	ppb	0.1613	1.0	28.4457

680-92772-a-7-a (Samp) **8/3/2013, 1:45:30 AM** **Rack 3, Tube 59**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	-0.3998u	0.1370	0.0960
Al 308.215	6.5506	3.4988	4.5913
As 188.980	-0.3165u	-1.4364u	-0.6470u
B 249.678	30.1108	30.0405	29.9821
Ba 389.178	27.7451	26.8997	27.4915
Be 313.042	-0.0180u	-0.0147u	-0.0153u
Ca 370.602	17046	16988	16975
Cd 226.502	0.0738	0.0212	0.0558
Co 228.615	1.1518	1.5599	1.6085
Cr 267.716	0.2506	0.0528	-0.0405u
Cu 324.754	1.9863	1.4357	2.0244
Fe 271.441	540.719	552.441	549.060
K 766.491	501.057	497.292	497.560
Mg 279.078	1825.53	1824.15	1821.08
Mn 257.610	45.1418	45.1705	44.9800
Mo 202.032	-0.0297u	1.1297	0.4695
Na 330.237	28861.6	29096.6	28726.3
Ni 231.604	2.8893	1.6150	2.6269
Pb 220.353	-0.6309u	-0.3547u	-3.3926u
Sb 206.834	1.1788	2.3723	1.7160
Se 196.026	5.5505	-2.3972u	-2.3987u
Sn 189.925	0.8292	-0.2676u	0.9087
Sr 216.596	68.3579	68.5315	68.4990
Ti 334.941	0.0824	0.0168	0.0499
Tl 190.794	0.4019	3.9447	-1.6259u
V 292.401	-0.0018u	0.4117	0.0428
Zn 206.200	24.9292	23.8235	23.5692

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0556	ppb	0.2988	537.4	-12.4726
Al 308.215	4.8802	ppb	1.5463	31.7	294.831
As 188.980	-0.8000	ppb	0.5754	71.9	-9.4865
B 249.678	30.0445	ppb	0.0645	0.2	644.620
Ba 389.178	27.3787	ppb	0.4339	1.6	706.904
Be 313.042	-0.0160	ppb	0.0017	11.0	-160.977
Ca 370.602	17003	ppb	37.91	0.2	51749
Cd 226.502	0.0502	ppb	0.0267	53.2	25.8936
Co 228.615	1.4401	ppb	0.2508	17.4	11.5044
Cr 267.716	0.0877	ppb	0.1486	169.6	38.9350
Cu 324.754	1.8155	ppb	0.3294	18.1	194.720
Fe 271.441	547.407	ppb	6.0334	1.1	1002.97
K 766.491	498.637	ppb	2.1007	0.4	17789.5
Mg 279.078	1823.59	ppb	2.2773	0.1	5254.93
Mn 257.610	45.0974	ppb	0.1027	0.2	12119.6
Mo 202.032	0.5232	ppb	0.5815	111.2	13.3736
Na 330.237	28894.8	ppb	187.401	0.6	1623.23
Ni 231.604	2.3771	ppb	0.6729	28.3	6.0007
Pb 220.353	-1.4594	ppb	1.6799	115.1	15.1630
Sb 206.834	1.7557	ppb	0.5977	34.0	8.0889
Se 196.026	0.2516	ppb	4.5890	1824.3	-0.5316
Sn 189.925	0.4901	ppb	0.6574	134.1	-7.8532
Sr 216.596	68.4628	ppb	0.0923	0.1	1131.16
Ti 334.941	0.0497	ppb	0.0328	66.0	-20.8481
Tl 190.794	0.9069	ppb	2.8194	310.9	-8.2708
V 292.401	0.1509	ppb	0.2270	150.4	-4.7291
Zn 206.200	24.1073	ppb	0.7230	3.0	41.5406

680-92772-a-8-a (Samp) **8/3/2013, 1:50:07 AM** **Rack 3, Tube 60**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	-0.3818u	-0.2774u	0.0292
Al 308.215	25.2135	22.4501	27.1614
As 188.980	-3.8201u	0.8233	-0.7861u
B 249.678	44.4643	44.0133	44.0659
Ba 389.178	42.3445	42.1563	41.8646
Be 313.042	0.0394	0.0437	0.0499
Ca 370.602	12592	12565	12562
Cd 226.502	-0.0698	0.0080	0.0227
Co 228.615	12.2445	12.1147	12.5519
Cr 267.716	-0.0023	-0.2328u	-0.2555u
Cu 324.754	0.2982	0.6566	0.8680
Fe 271.441	1038.96	1036.34	1036.94
K 766.491	1110.29	1115.39	1119.72
Mg 279.078	2707.25	2696.44	2706.73
Mn 257.610	394.818	394.065	395.310
Mo 202.032	0.1251	-0.0356u	-0.0209u
Na 330.237	32872.6	32732.3	32645.1
Ni 231.604	4.7522	5.3789	3.2063
Pb 220.353	-0.5094u	-0.7100u	2.0868
Sb 206.834	1.2281	3.9839	0.9695
Se 196.026	4.3665	3.6743	1.2864
Sn 189.925	-2.0370u	-0.7741u	0.3622
Sr 216.596	72.2338	71.8173	72.2073
Ti 334.941	0.0066	-0.0823u	-0.0305
Tl 190.794	-0.1718u	0.9966	0.0094u
V 292.401	0.3534	0.1366	0.1174
Zn 206.200	22.4609	24.0325	22.9049

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.2100	ppb	0.2137	101.7	-22.5858
Al 308.215	24.9417	ppb	2.3674	9.5	439.718
As 188.980	-1.2610	ppb	2.3578	187.0	-9.8991
B 249.678	44.1812	ppb	0.2466	0.6	887.869
Ba 389.178	42.1218	ppb	0.2418	0.6	1087.23
Be 313.042	0.0443	ppb	0.0052	11.8	-43.4106
Ca 370.602	12573	ppb	16.75	0.1	38227
Cd 226.502	-0.0130	ppb	0.0497	382.2	24.4281
Co 228.615	12.3037	ppb	0.2245	1.8	163.675
Cr 267.716	-0.1635	ppb	0.1401	85.7	26.0528
Cu 324.754	0.6076	ppb	0.2881	47.4	118.653
Fe 271.441	1037.41	ppb	1.3703	0.1	1883.33
K 766.491	1115.13	ppb	4.7223	0.4	39469.9
Mg 279.078	2703.47	ppb	6.0961	0.2	7766.31
Mn 257.610	394.731	ppb	0.6269	0.2	105195
Mo 202.032	0.0229	ppb	0.0888	388.5	9.1733
Na 330.237	32750.0	ppb	114.779	0.4	1832.93
Ni 231.604	4.4458	ppb	1.1183	25.2	13.8821
Pb 220.353	0.2891	ppb	1.5600	539.6	18.8379
Sb 206.834	2.0605	ppb	1.6707	81.1	8.6055
Se 196.026	3.1091	ppb	1.6160	52.0	1.1800
Sn 189.925	-0.8163	ppb	1.2001	147.0	-9.2918
Sr 216.596	72.0862	ppb	0.2332	0.3	1190.13
Ti 334.941	-0.0354	ppb	0.0446	126.1	-43.1197
Tl 190.794	0.2781	ppb	0.6288	226.1	-9.4019
V 292.401	0.2025	ppb	0.1311	64.7	-3.1238
Zn 206.200	23.1328	ppb	0.8102	3.5	39.8797

680-92772-a-9-a (Samp) **8/3/2013, 2:04:00 AM** **Rack 4, Tube 3**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.3634u	-0.0030u	-0.5735u
Al 308.215	591.853	597.584	599.001
As 188.980	-4.0616u	2.2406	-0.0136u
B 249.678	23.6619	24.3192	23.7892
Ba 389.178	32.4861	32.4382	33.3355
Be 313.042	0.1481	0.1552	0.1571
Ca 370.602	4280	4328	4329
Cd 226.502	0.1475	0.1007	0.1483
Co 228.615	2.9382	2.9388	3.7287
Cr 267.716	-0.1163u	-0.1180u	0.0711
Cu 324.754	3.1370	3.1353	2.8260
Fe 271.441	3.6477	4.1027	6.6405
K 766.491	1521.28	1529.53	1532.13
Mg 279.078	2049.84	2073.82	2076.93
Mn 257.610	28.7310	29.1668	29.1167
Mo 202.032	-0.0321u	0.1500	-0.2600u
Na 330.237	8806.41	8927.77	8964.36
Ni 231.604	2.5082	2.5317	1.4759
Pb 220.353	-0.9654u	0.8677	-1.3728u
Sb 206.834	1.7451	-2.9426u	3.7145
Se 196.026	2.7498	2.5472	-1.7366u
Sn 189.925	0.8360	-0.8649u	1.6751
Sr 216.596	30.8914	31.2671	31.4401
Ti 334.941	-0.0239	0.0090	0.0063
Tl 190.794	1.5649	0.6551	-2.8395u
V 292.401	-0.0350u	-0.3296u	-0.2080u
Zn 206.200	16.3182	16.2868	17.3126

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.3133	ppb	0.2885	92.1	-30.1008
Al 308.215	596.146	ppb	3.7849	0.6	4582.26
As 188.980	-0.6116	ppb	3.1933	522.2	-9.3043
B 249.678	23.9234	ppb	0.3486	1.5	540.109
Ba 389.178	32.7532	ppb	0.5048	1.5	844.199
Be 313.042	0.1535	ppb	0.0047	3.1	173.642
Ca 370.602	4313	ppb	28.22	0.7	13132
Cd 226.502	0.1321	ppb	0.0273	20.6	28.2866
Co 228.615	3.2019	ppb	0.4562	14.2	36.1741
Cr 267.716	-0.0544	ppb	0.1087	199.7	29.7744
Cu 324.754	3.0328	ppb	0.1791	5.9	271.321
Fe 271.441	4.7970	ppb	1.6127	33.6	29.9543
K 766.491	1527.65	ppb	5.6619	0.4	53976.7
Mg 279.078	2066.86	ppb	14.8266	0.7	5951.35
Mn 257.610	29.0048	ppb	0.2385	0.8	7836.56
Mo 202.032	-0.0474	ppb	0.2054	433.7	8.6478
Na 330.237	8899.51	ppb	82.6815	0.9	535.104
Ni 231.604	2.1719	ppb	0.6029	27.8	5.1957
Pb 220.353	-0.4902	ppb	1.1935	243.5	17.0638
Sb 206.834	0.8390	ppb	3.4198	407.6	6.6027
Se 196.026	1.1868	ppb	2.5337	213.5	-0.0110
Sn 189.925	0.5487	ppb	1.2941	235.9	-7.8053
Sr 216.596	31.1995	ppb	0.2805	0.9	520.985
Ti 334.941	-0.0029	ppb	0.0183	631.9	-34.2287
Tl 190.794	-0.2065	ppb	2.3252	1126.1	-9.7946
V 292.401	-0.1909	ppb	0.1480	77.6	-14.5514
Zn 206.200	16.6392	ppb	0.5834	3.5	28.7561

680-92772-a-10-a (Samp) **8/3/2013, 2:08:38 AM** **Rack 4, Tube 4**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.1288u	-0.0437u	-0.1394u
Al 308.215	46.9316	45.2485	44.9839
As 188.980	5.6779	4.7150	1.3488
B 249.678	105.802	106.948	107.159
Ba 389.178	30.7207	30.5778	30.5250
Be 313.042	-0.0207u	-0.0084u	-0.0205u
Ca 370.602	30900	30802	30718
Cd 226.502	-0.3393	-0.3126	-0.3469
Co 228.615	0.1271	0.5932	0.2888
Cr 267.716	1.1409	1.1972	1.1668
Cu 324.754	-0.5178u	0.0193	-0.3422u
Fe 271.441	33162.1	33161.2	33198.7
K 766.491	3732.69	3715.29	3727.49
Mg 279.078	20107.9	20067.1	20128.9
Mn 257.610	278.605	277.954	278.226
Mo 202.032	-0.2149u	-0.2196u	-0.1939u
Na 330.237	47368.8	47398.6	47119.4
Ni 231.604	2.8709	2.8431	3.8297
Pb 220.353	-1.7909u	-1.2867	-1.1810
Sb 206.834	1.9026	0.1280	0.6549
Se 196.026	6.1492	1.4103	-3.0945u
Sn 189.925	-2.5227u	1.3743	-1.5678u
Sr 216.596	125.345	124.894	126.364
Ti 334.941	0.9266	0.9650	0.9838
Tl 190.794	1.3034u	-1.1348u	-3.0502u
V 292.401	8.6428	8.8019	9.0190
Zn 206.200	4.7207	4.8530	3.8662

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1040	ppb	0.0524	50.4	-18.0568
Al 308.215	45.7213	ppb	1.0564	2.3	589.220
As 188.980	3.9139	ppb	2.2730	58.1	-5.7848
B 249.678	106.637	ppb	0.7301	0.7	1890.39
Ba 389.178	30.6078	ppb	0.1013	0.3	893.292
Be 313.042	-0.0166	ppb	0.0071	42.7	-161.358
Ca 370.602	30807	ppb	91.10	0.3	91317
Cd 226.502	-0.3329	ppb	0.0180	5.4	144.688
Co 228.615	0.3364	ppb	0.2367	70.4	-2.5293
Cr 267.716	1.1683	ppb	0.0281	2.4	114.576
Cu 324.754	-0.2802	ppb	0.2739	97.7	74.5048
Fe 271.441	33174.0	ppb	21.3809	0.1	59523.3
K 766.491	3725.15	ppb	8.9317	0.2	131256
Mg 279.078	20101.3	ppb	31.4253	0.2	57582.1
Mn 257.610	278.262	ppb	0.3270	0.1	74458.0
Mo 202.032	-0.2094	ppb	0.0137	6.5	5.3663
Na 330.237	47295.6	ppb	153.338	0.3	2614.79
Ni 231.604	3.1812	ppb	0.5617	17.7	10.0577
Pb 220.353	-1.4195	ppb	0.3260	23.0	18.1113
Sb 206.834	0.8952	ppb	0.9114	101.8	7.9292
Se 196.026	1.4884	ppb	4.6224	310.6	0.3588
Sn 189.925	-0.9054	ppb	2.0312	224.3	-9.3740
Sr 216.596	125.534	ppb	0.7530	0.6	2107.41
Ti 334.941	0.9585	ppb	0.0291	3.0	355.188
Tl 190.794	-0.9605	ppb	2.1820	227.2	-14.0864
V 292.401	8.8213	ppb	0.1888	2.1	252.003
Zn 206.200	4.4800	ppb	0.5256	11.7	8.3362

680-92772-a-11-a (Samp) **8/3/2013, 2:13:16 AM** **Rack 4, Tube 5**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.1212u	0.1533	0.0242
Al 308.215	2747.00	2753.31	2741.32
As 188.980	-5.3958u	-3.1182u	-2.6325u
B 249.678	38.8132	39.3251	39.6947
Ba 389.178	29.5883	30.3470	29.9786
Be 313.042	0.3521	0.3591	0.3620
Ca 370.602	5928	5970	5950
Cd 226.502	-0.0356	-0.1689u	0.0193
Co 228.615	4.0685	4.1778	4.0464
Cr 267.716	0.3187	0.3596	0.1928
Cu 324.754	6.0065	6.0426	6.8392
Fe 271.441	1110.35	1108.00	1110.73
K 766.491	1821.13	1839.85	1820.37
Mg 279.078	2025.25	2026.53	2013.51
Mn 257.610	65.7449	65.8802	65.6428
Mo 202.032	-0.0146u	-0.1194u	-0.2258u
Na 330.237	24968.4	24869.0	24860.9
Ni 231.604	6.3698	6.5009	7.1819
Pb 220.353	-1.7102u	0.1109	-0.4998u
Sb 206.834	1.1304	-0.0600u	-0.1970u
Se 196.026	8.3321	-7.3838u	4.4197
Sn 189.925	-1.0052u	2.2962	1.1627
Sr 216.596	45.6981	45.4284	45.4762
Ti 334.941	0.0437	0.0162	0.0531
Tl 190.794	-0.6037u	-3.2846u	-2.9672u
V 292.401	0.4937	-0.0604u	0.2781
Zn 206.200	35.7507	34.1909	37.2712

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0188	ppb	0.1374	731.6	-5.7322
Al 308.215	2747.21	ppb	5.9962	0.2	20180.3
As 188.980	-3.7155	ppb	1.4753	39.7	-12.0249
B 249.678	39.2777	ppb	0.4427	1.1	802.911
Ba 389.178	29.9713	ppb	0.3794	1.3	774.657
Be 313.042	0.3577	ppb	0.0051	1.4	578.467
Ca 370.602	5949	ppb	20.91	0.4	18034
Cd 226.502	-0.0618	ppb	0.0968	156.7	22.0907
Co 228.615	4.0976	ppb	0.0704	1.7	48.7671
Cr 267.716	0.2904	ppb	0.0869	29.9	51.2525
Cu 324.754	6.2961	ppb	0.4706	7.5	477.679
Fe 271.441	1109.69	ppb	1.4771	0.1	2011.87
K 766.491	1827.11	ppb	11.0342	0.6	64508.1
Mg 279.078	2021.76	ppb	7.1781	0.4	5820.83
Mn 257.610	65.7560	ppb	0.1191	0.2	17622.0
Mo 202.032	-0.1200	ppb	0.1056	88.0	7.9777
Na 330.237	24899.4	ppb	59.8553	0.2	1405.37
Ni 231.604	6.6842	ppb	0.4359	6.5	22.4588
Pb 220.353	-0.6997	ppb	0.9269	132.5	16.6956
Sb 206.834	0.2911	ppb	0.7301	250.8	5.7684
Se 196.026	1.7893	ppb	8.1815	457.2	0.3434
Sn 189.925	0.8179	ppb	1.6775	205.1	-7.5006
Sr 216.596	45.5342	ppb	0.1439	0.3	756.301
Ti 334.941	0.0377	ppb	0.0192	50.9	-22.9881
Tl 190.794	-2.2852	ppb	1.4648	64.1	-12.8892
V 292.401	0.2372	ppb	0.2793	117.8	-2.0495
Zn 206.200	35.7376	ppb	1.5402	4.3	61.4470

680-92772-a-12-a (Samp) **8/3/2013, 2:17:54 AM** **Rack 4, Tube 6**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.0501u	-0.1998u	-0.2860u
Al 308.215	530.963	534.198	532.712
As 188.980	0.0637	-5.4573u	-0.7253u
B 249.678	30.3580	30.2584	30.5999
Ba 389.178	53.6496	53.6090	53.2812
Be 313.042	0.2268	0.2245	0.2268
Ca 370.602	7713	7731	7740
Cd 226.502	0.3375	0.4887	0.5587
Co 228.615	35.4356	35.8723	35.3525
Cr 267.716	0.0900	0.0494	0.0846
Cu 324.754	6.8030	6.7297	6.9111
Fe 271.441	5.5189	5.3285	4.3873
K 766.491	1954.29	1954.85	1952.98
Mg 279.078	2152.13	2163.63	2167.52
Mn 257.610	224.429	225.538	225.412
Mo 202.032	-0.4663u	-0.2772u	-0.2089u
Na 330.237	36435.1	36753.4	36603.5
Ni 231.604	12.5329	11.7419	12.2779
Pb 220.353	1.1084	0.0118	0.4380
Sb 206.834	2.3249	0.0293	0.7404
Se 196.026	1.1958	-0.5619u	0.1295
Sn 189.925	-1.0303u	-0.1096u	-0.5215u
Sr 216.596	56.1446	56.8737	56.7674
Ti 334.941	-0.0150	-0.0605u	0.0090
Tl 190.794	-2.5119u	-1.9648u	-4.3353u
V 292.401	-0.2132u	-0.3800u	0.0609
Zn 206.200	99.8410	100.770	101.221

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1786	ppb	0.1193	66.8	-20.2910
Al 308.215	532.625	ppb	1.6193	0.3	4119.99
As 188.980	-2.0396	ppb	2.9860	146.4	-10.5638
B 249.678	30.4054	ppb	0.1756	0.6	652.166
Ba 389.178	53.5133	ppb	0.2020	0.4	1375.38
Be 313.042	0.2260	ppb	0.0013	0.6	315.662
Ca 370.602	7728	ppb	13.87	0.2	23541
Cd 226.502	0.4616	ppb	0.1131	24.5	46.4495
Co 228.615	35.5535	ppb	0.2792	0.8	489.237
Cr 267.716	0.0747	ppb	0.0220	29.5	39.1463
Cu 324.754	6.8146	ppb	0.0913	1.3	509.987
Fe 271.441	5.0782	ppb	0.6059	11.9	34.8314
K 766.491	1954.04	ppb	0.9589	0.0	68971.6
Mg 279.078	2161.10	ppb	8.0019	0.4	6216.86
Mn 257.610	225.127	ppb	0.6070	0.3	60041.2
Mo 202.032	-0.3175	ppb	0.1333	42.0	6.3946
Na 330.237	36597.3	ppb	159.236	0.4	2041.45
Ni 231.604	12.1842	ppb	0.4037	3.3	43.3320
Pb 220.353	0.5194	ppb	0.5528	106.4	19.1517
Sb 206.834	1.0315	ppb	1.1752	113.9	6.9204
Se 196.026	0.2545	ppb	0.8855	347.9	-0.4812
Sn 189.925	-0.5538	ppb	0.4612	83.3	-9.0037
Sr 216.596	56.5952	ppb	0.3939	0.7	935.288
Ti 334.941	-0.0221	ppb	0.0353	159.4	-42.1612
Tl 190.794	-2.9373	ppb	1.2412	42.3	-13.6960
V 292.401	-0.1774	ppb	0.2226	125.5	-14.3598
Zn 206.200	100.611	ppb	0.7036	899.7	172.440

680-92772-a-13-a (Samp) **8/3/2013, 2:22:32 AM** **Rack 4, Tube 7**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.2967u	0.4338	-0.2091u
Al 308.215	6.6081	5.1099	4.1573
As 188.980	2.6172	3.1496	3.0733
B 249.678	222.675	226.025	222.571
Ba 389.178	35.3599	36.2041	36.2153
Be 313.042	-0.0028u	-0.0052u	-0.0053u
Ca 370.602	9573	9689	9480
Cd 226.502	-0.2277	-0.3631	-0.3800
Co 228.615	1.4067	1.6835	1.4157
Cr 267.716	-0.2690u	-0.0635	-0.1622u
Cu 324.754	0.2962	-0.4137u	-0.6902u
Fe 271.441	21216.7	21634.5	21172.7
K 766.491	14523.9	14739.9	14462.1
Mg 279.078	1957.90	1989.75	1949.35
Mn 257.610	243.885	248.101	242.624
Mo 202.032	-0.2733u	-0.0131u	-0.2146u
Na 330.237	11527.8	11664.0	11364.9
Ni 231.604	0.2462	0.2039	0.5067
Pb 220.353	1.9285	2.3607	-1.4008u
Sb 206.834	3.9838	1.0635	-0.0366
Se 196.026	-4.9392u	-3.0474u	-3.7596u
Sn 189.925	0.8317	0.0672	-1.2470u
Sr 216.596	60.6683	61.2704	60.5145
Ti 334.941	-0.0107	0.0018	-0.0335
Tl 190.794	-2.0859u	-0.5469u	-2.7425u
V 292.401	0.5036	0.6471	0.6785
Zn 206.200	4.0506	5.8545	3.7834

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0240	ppb	0.3989	1661.8	-8.9591
Al 308.215	5.2918	ppb	1.2355	23.3	297.657
As 188.980	2.9467	ppb	0.2879	9.8	-6.4739
B 249.678	223.757	ppb	1.9649	0.9	3943.70
Ba 389.178	35.9264	ppb	0.4906	1.4	958.507
Be 313.042	-0.0044	ppb	0.0014	31.0	-139.963
Ca 370.602	9581	ppb	104.7	1.1	27554
Cd 226.502	-0.3236	ppb	0.0834	25.8	94.5986
Co 228.615	1.5020	ppb	0.1573	10.5	13.2733
Cr 267.716	-0.1649	ppb	0.1027	62.3	30.6616
Cu 324.754	-0.2692	ppb	0.5088	189.0	70.9014
Fe 271.441	21341.3	ppb	254.856	1.2	38299.7
K 766.491	14575.3	ppb	145.842	1.0	512824
Mg 279.078	1965.67	ppb	21.2893	1.1	5662.44
Mn 257.610	244.870	ppb	2.8683	1.2	65362.2
Mo 202.032	-0.1670	ppb	0.1365	81.7	6.4169
Na 330.237	11518.9	ppb	149.771	1.3	671.100
Ni 231.604	0.3189	ppb	0.1640	51.4	-1.2315
Pb 220.353	0.9628	ppb	2.0583	213.8	21.9199
Sb 206.834	1.6702	ppb	2.0778	124.4	8.7285
Se 196.026	-3.9154	ppb	0.9555	24.4	-2.7434
Sn 189.925	-0.1160	ppb	1.0514	906.2	-8.5336
Sr 216.596	60.8178	ppb	0.3995	0.7	1033.33
Ti 334.941	-0.0141	ppb	0.0179	127.0	-35.7596
Tl 190.794	-1.7918	ppb	1.1269	62.9	-14.1726
V 292.401	0.6098	ppb	0.0932	15.3	9.1622
Zn 206.200	4.5628	ppb	1.1266	24.7	8.3447

X (Samp) **8/3/2013, 2:27:09 AM** **Rack 4, Tube 8**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	-0.0405u	0.4754	-0.0049u
Al 308.215	-0.6292u	0.0033u	1.0919
As 188.980	-4.5110u	-2.2731u	-2.0415u
B 249.678	-0.0572u	-0.4489u	-0.7053u
Ba 389.178	0.1018	0.1055	-0.3180u
Be 313.042	-0.0422u	-0.0324u	-0.0340u
Ca 370.602	-1.286u	1.096	2.709
Cd 226.502	-0.0584u	0.0008	-0.0515u
Co 228.615	0.3110	-0.0336u	0.2547
Cr 267.716	-0.0306u	-0.0029u	-0.1715u
Cu 324.754	-0.1572u	-0.0487u	-0.0766u
Fe 271.441	-7.1229u	2.1681	-1.6169u
K 766.491	-2.0493u	-2.3099u	-2.0192u
Mg 279.078	-1.8316u	-2.2017u	-0.3703u
Mn 257.610	-0.2291u	-0.2252u	-0.2197u
Mo 202.032	0.3565	-0.1591u	0.0040
Na 330.237	23.7897	-50.8700u	-155.157u
Ni 231.604	0.6462	-0.5813u	-0.6122u
Pb 220.353	-2.0642u	-1.9486u	-2.8315u
Sb 206.834	2.7190	-0.1177u	1.3751
Se 196.026	8.7026	2.6338	1.0361
Sn 189.925	-0.0614u	1.1487	-0.1333u
Sr 216.596	-0.2625u	-0.1010u	-0.0996u
Ti 334.941	-0.0401u	-0.0197u	-0.0836u
Tl 190.794	0.4604	-3.7543u	0.6731
V 292.401	0.2634	0.0645	0.0727
Zn 206.200	-0.4799u	0.2948	1.1899

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1433	ppb	0.2881	201.0	5.3760
Al 308.215	0.1553	ppb	0.8705	560.5	260.612
As 188.980	-2.9419	ppb	1.3639	46.4	-11.3665
B 249.678	-0.4038	ppb	0.3264	80.8	119.519
Ba 389.178	-0.0369	ppb	0.2434	659.8	-0.3386
Be 313.042	-0.0362	ppb	0.0053	14.6	-203.785
Ca 370.602	0.8395	ppb	2.010	239.4	-3.261
Cd 226.502	-0.0364	ppb	0.0324	89.1	18.9038
Co 228.615	0.1774	ppb	0.1849	104.2	-6.1910
Cr 267.716	-0.0683	ppb	0.0904	132.4	28.5776
Cu 324.754	-0.0942	ppb	0.0563	59.8	73.9790
Fe 271.441	-2.1905	ppb	4.6720	213.3	17.0161
K 766.491	-2.1261	ppb	0.1599	7.5	179.207
Mg 279.078	-1.4679	ppb	0.9684	66.0	31.1262
Mn 257.610	-0.2247	ppb	0.0047	2.1	36.7656
Mo 202.032	0.0672	ppb	0.2635	392.4	9.6025
Na 330.237	-60.7459	ppb	89.8814	148.0	47.6365
Ni 231.604	-0.1824	ppb	0.7178	393.5	-3.7865
Pb 220.353	-2.2814	ppb	0.4799	21.0	13.4383
Sb 206.834	1.3255	ppb	1.4190	107.1	7.3813
Se 196.026	4.1242	ppb	4.0447	98.1	1.6368
Sn 189.925	0.3180	ppb	0.7203	226.5	-8.0659
Sr 216.596	-0.1544	ppb	0.0937	60.7	9.2299
Ti 334.941	-0.0478	ppb	0.0326	68.2	-57.7806
Tl 190.794	-0.8736	ppb	2.4970	285.8	-10.7411
V 292.401	0.1335	ppb	0.1126	84.3	-4.9273
Zn 206.200	0.3349	ppb	0.8356	249.5	0.8576

CRI (Samp) **8/3/2013, 2:31:47 AM** **Rack 4, Tube 9**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	9.4619	9.3678	8.8793
Al 308.215	180.661	177.716	173.345
As 188.980	19.7251	16.9509	10.6339
B 249.678	89.9129	88.8742	88.2056
Ba 389.178	9.4631	8.9145	9.3294
Be 313.042	3.7811	3.7332	3.6936
Ca 370.602	461.2	463.4	453.6
Cd 226.502	4.4771	4.6238	4.6581
Co 228.615	9.5276	9.4951	9.3877
Cr 267.716	9.3585	9.5350	9.4104
Cu 324.754	19.2894	19.1770	19.3040
Fe 271.441	43.4078	44.6643	47.7677
K 766.491	934.378	927.884	913.929
Mg 279.078	468.027	464.650	456.169
Mn 257.610	9.6250	9.5070	9.3939
Mo 202.032	9.3964	8.6122	8.9009
Na 330.237	823.472	864.714	819.348
Ni 231.604	36.5196	37.3044	36.5703
Pb 220.353	9.4432	10.3295	7.0806
Sb 206.834	16.8347	22.3405	19.8073
Se 196.026	12.1772	17.9157	12.2242
Sn 189.925	46.1347	45.1903	47.4685
Sr 216.596	9.3254	9.2266	8.5807
Ti 334.941	9.2613	9.1951	9.1097
Tl 190.794	19.2922	24.7032	23.6814
V 292.401	9.4200	9.4695	9.2632
Zn 206.200	19.2373	19.6059	18.8403

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	9.2363	ppb	0.3127	3.4	685.064
Al 308.215	177.241	ppb	3.6811	2.1	1542.96
As 188.980	15.7700	ppb	4.6592	29.5	5.1240
B 249.678	88.9976	ppb	0.8603	1.0	1665.09
Ba 389.178	9.2357	ppb	0.2861	3.1	238.280
Be 313.042	3.7360	ppb	0.0439	1.2	7292.51
Ca 370.602	459.4	ppb	5.125	1.1	1395
Cd 226.502	4.5863	ppb	0.0961	2.1	276.860
Co 228.615	9.4701	ppb	0.0732	0.8	123.900
Cr 267.716	9.4347	ppb	0.0907	1.0	595.681
Cu 324.754	19.2568	ppb	0.0695	0.4	1295.43
Fe 271.441	45.2799	ppb	2.2442	5.0	103.517
K 766.491	925.397	ppb	10.4490	1.1	32797.4
Mg 279.078	462.949	ppb	6.1092	1.3	1360.36
Mn 257.610	9.5086	ppb	0.1156	1.2	2632.10
Mo 202.032	8.9698	ppb	0.3966	4.4	83.8239
Na 330.237	835.845	ppb	25.0865	3.0	96.0944
Ni 231.604	36.7981	ppb	0.4392	1.2	137.407
Pb 220.353	8.9511	ppb	1.6794	18.8	36.1899
Sb 206.834	19.6608	ppb	2.7558	14.0	36.9760
Se 196.026	14.1057	ppb	3.2996	23.4	7.2673
Sn 189.925	46.2645	ppb	1.1446	2.5	42.5053
Sr 216.596	9.0442	ppb	0.4045	4.5	158.200
Ti 334.941	9.1887	ppb	0.0760	0.8	2810.95
Tl 190.794	22.5590	ppb	2.8748	12.7	22.7979
V 292.401	9.3842	ppb	0.1077	1.1	266.789
Zn 206.200	19.2278	ppb	0.3829	2.0	33.1461

C07302013B

Method: Hg Norm2 5-15-2013 Operator: Admin Date of Analysis: 30 Jul 2013 16:49:03

Sample ID	Extended ID	Mean	Units	RSD	Date	PLOT CAL
blank		-267	ppb	-0.4677	30 Jul 2013 16:49:32	
0.2		487	ppb	1.0470	30 Jul 2013 16:52:07	
0.4		1113	ppb	0.3053	30 Jul 2013 16:54:45	
1.0		2543	ppb	1.7839	30 Jul 2013 16:57:23	
3.0		8234	ppb	0.6011	30 Jul 2013 17:00:01	
5.0		13791	ppb	0.6930	30 Jul 2013 17:02:37	

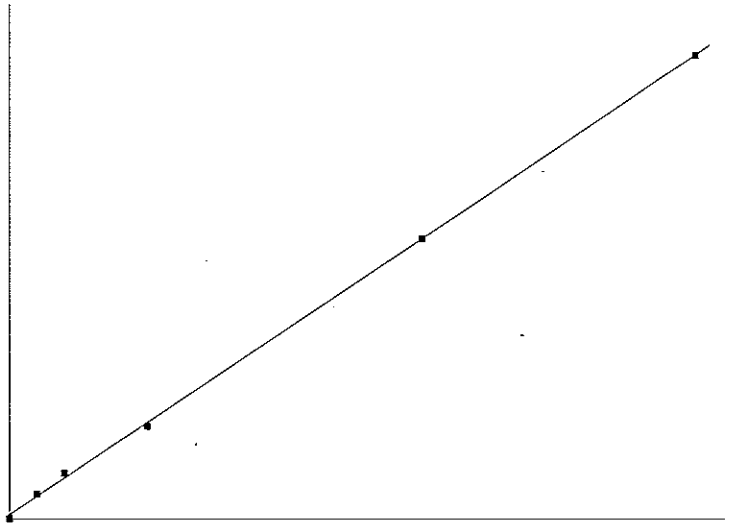
13791 µ Abs

A:0.0000e+000

B:3.5865e-004

C:5.1716e-002

R:0.9998344



Conc 5.0000

ICV		2.8883	ppb	0.4071	30 Jul 2013 17:05:14	CAL:17035
ICB		0.0422	ppb	0.8022	30 Jul 2013 17:07:50	
CRA		0.2254	ppb	0.2704	30 Jul 2013 17:10:26	
CCV		2.4781	ppb	0.2434	30 Jul 2013 17:13:03	
CCB		0.0394	ppb	0.4291	30 Jul 2013 17:15:41	
mb 680-286694/1-a	(BCB)	0.0598	ppb	1.8525	30 Jul 2013 17:18:17	
lcs 680-286694/2-a	(BCB)	2.4391	ppb	0.4862	30 Jul 2013 17:20:54	
680-92343-b-14-b	(BCB)	0.1619	ppb	0.9279	30 Jul 2013 17:23:31	
680-92343-b-15-b	(BCB)	3.3705	ppb	0.2073	30 Jul 2013 17:26:07	
680-92626-b-8-d	(BCB)	3.1543	ppb	0.3277	30 Jul 2013 17:28:43	
680-92626-b-7-b	(BCB)	2.2934	ppb	0.2300	30 Jul 2013 17:31:20	
680-92626-b-6-b	(BCB)	6.0081	ppb	0.3926	30 Jul 2013 17:33:57	
680-92626-b-5-b	(BCB)	3.0350	ppb	0.2954	30 Jul 2013 17:36:34	
680-92626-b-4-b	(BCB)	0.8962	ppb	0.8806	30 Jul 2013 17:39:11	
680-92626-b-3-b	(BCB)	0.9158	ppb	0.2421	30 Jul 2013 17:41:50	
CCV		2.4244	ppb	0.3210	30 Jul 2013 17:44:28	
CCB		0.0450	ppb	1.6369	30 Jul 2013 17:47:04	
680-92626-b-2-b	(BCB)	3.1284	ppb	1.4706	30 Jul 2013 17:49:40	
680-92626-b-1-d	(BCB)	3.2550	ppb	0.5146	30 Jul 2013 17:52:18	
680-92626-b-1-e ms	(BCB)	3.6458	ppb	0.6031	30 Jul 2013 17:54:55	
680-92626-b-1-f msd	(BCB)	3.9520	ppb	0.6183	30 Jul 2013 17:57:33	
CRA		0.2059	ppb	0.4266	30 Jul 2013 18:00:10	
CCV		2.5022	ppb	0.6695	30 Jul 2013 18:02:48	
CCB		0.0419	ppb	2.1345	30 Jul 2013 18:05:26	
CCV		2.2087	ppb	1.2415	31 Jul 2013 10:35:54	
CCB		0.0417	ppb	2.5335	31 Jul 2013 10:38:30	
680-92626-b-6-b	^2	3.0805	ppb	0.4450	31 Jul 2013 10:41:07	
CRA		0.2202	ppb	1.0668	31 Jul 2013 10:43:43	
CCV		2.4401	ppb	0.3788	31 Jul 2013 10:46:20	
CCB		0.0454	ppb	2.4430	31 Jul 2013 10:48:57	

METALS BATCH WORKSHEET

Lab Name: TestAmerica Savannah Job No.: 680-92626-2

SDG No.: 680-92626-02

Batch Number: 286279 Batch Start Date: 07/26/13 09:21 Batch Analyst: Lawhon, Jon K

Batch Method: 3050B Batch End Date: 07/26/13 15:36

Lab Sample ID	Client Sample ID	Method Chain	Basis	CalcMsg	InitialAmount	FinalAmount	MS_Ag_LCS_SPK 00010	MS_LCS1_WK 00005	MS_LCS2_wk 00148
MB 680-286279/1		3050B, 6010C		CALC NOT SET TO RUN	1.01 g	100 mL			
LCS 680-286279/2		3050B, 6010C		CALC NOT SET TO RUN	1.01 g	100 mL	1 mL	1 mL	1 mL
680-92626-B-1	CV0256A-VGSO-CS	3050B, 6010C	T	CALC NOT SET TO RUN	1.17 g	100 mL			
680-92626-B-1 MS	CV0256A-VGSO-CS	3050B, 6010C	T	CALC NOT SET TO RUN	1.16 g	100 mL	1 mL	1 mL	1 mL
680-92626-B-1 MSD	CV0256A-VGSO-CS	3050B, 6010C	T	CALC NOT SET TO RUN	1.16 g	100 mL	1 mL	1 mL	1 mL
680-92626-B-2	CV0256A-VGSO-CSD	3050B, 6010C	T	CALC NOT SET TO RUN	1.07 g	100 mL			
680-92626-B-3	HP0306A-VGSO-CS	3050B, 6010C	T	CALC NOT SET TO RUN	1.08 g	100 mL			
680-92626-B-4	HP0306A-VGSO-CSD	3050B, 6010C	T	CALC NOT SET TO RUN	1.03 g	100 mL			
680-92626-B-5	CV0827A-VGSO-CS	3050B, 6010C	T	CALC NOT SET TO RUN	1.15 g	100 mL			
680-92626-B-6	CV0453A-VGSO-CS	3050B, 6010C	T	CALC NOT SET TO RUN	1.09 g	100 mL			
680-92626-B-7	CV0272A-VGSO-CS	3050B, 6010C	T	CALC NOT SET TO RUN	1.02 g	100 mL			

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: TestAmerica Savannah Job No.: 680-92626-2

SDG No.: 680-92626-02

Batch Number: 286279 Batch Start Date: 07/26/13 09:21 Batch Analyst: Lawhon, Jon K

Batch Method: 3050B Batch End Date: 07/26/13 15:36

Batch Notes	
Analyst	JL
Balance ID	25
Blank Soil Lot Number	2958846
Hydrogen peroxide lot number	3058309
Lot # of hydrochloric acid	3119926
Lot # of Nitric Acid	3179918
Hood ID or number	FH8
Hot Block ID number	10
Nominal Amount Used	1.0 g
Oven, Bath or Block Temperature 1	96 Degrees C
Oven, Bath or Block Temperature 2	96 Degrees C
Pipette ID	ME4
Perform Calculation (0=No, 1=Yes)	0
Temperature	96 Degrees C
ID number of the thermometer	15
Digestion Tube/Cup Lot #	J166164-263

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: TestAmerica Savannah Job No.: 680-92626-2

SDG No.: 680-92626-02

Batch Number: 286324 Batch Start Date: 07/26/13 12:50 Batch Analyst: Lawhon, Jon K

Batch Method: 3050B Batch End Date: 07/26/13 16:49

Lab Sample ID	Client Sample ID	Method Chain	Basis	CalcMsg	InitialAmount	FinalAmount	MS_Ag_LCS_SPK 00010	MS_LCS1_WK 00005	MS_LCS2_wk 00148
MB 680-286324/1		3050B, 6010C		CALC NOT SET TO RUN	1.00 g	100 mL			
LCS 680-286324/2		3050B, 6010C		CALC NOT SET TO RUN	1.02 g	100 mL	1 mL	1 mL	1 mL
680-92626-B-8	CV0083A-VGSO-CS	3050B, 6010C	T	CALC NOT SET TO RUN	1.06 g	100 mL			
680-92626-B-8 MS	CV0083A-VGSO-CS	3050B, 6010C	T	CALC NOT SET TO RUN	1.05 g	100 mL	1 mL	1 mL	1 mL
680-92626-B-8 MSD	CV0083A-VGSO-CS	3050B, 6010C	T	CALC NOT SET TO RUN	1.05 g	100 mL	1 mL	1 mL	1 mL

Batch Notes	
Analyst	JL
Balance ID	25
Blank Soil Lot Number	2958846
Hydrogen peroxide lot number	3058309
Lot # of hydrochloric acid	3119926
Lot # of Nitric Acid	3179918
Hood ID or number	FH8
Hot Block ID number	9
Nominal Amount Used	1.0 g
Oven, Bath or Block Temperature 1	97 Degrees C
Oven, Bath or Block Temperature 2	97 Degrees C
Pipette ID	ME4
Perform Calculation (0=No, 1=Yes)	0
Temperature	97 Degrees C
ID number of the thermometer	15
Digestion Tube/Cup Lot #	J166164-263

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: TestAmerica Savannah Job No.: 680-92626-2

SDG No.: 680-92626-02

Batch Number: 286694 Batch Start Date: 07/29/13 17:00 Batch Analyst: Seabrooks, Deanna A

Batch Method: 7471B Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	hg_icvint 00089	Hg_Int_Cal 00094	AnalysisComment	
MB 680-286694/1		7471B, 7471B		0.52 g	50 mL				
LCS 680-286694/2		7471B, 7471B		0.50 g	50 mL		0.25 mL		
680-92626-B-8	CV0083A-VGSO-CS	7471B, 7471B	T	0.51 g	50 mL				
680-92626-B-7	CV0272A-VGSO-CS	7471B, 7471B	T	0.55 g	50 mL				
680-92626-B-6	CV0453A-VGSO-CS	7471B, 7471B	T	0.53 g	50 mL				
680-92626-B-5	CV0827A-VGSO-CS	7471B, 7471B	T	0.53 g	50 mL				
680-92626-B-4	HP0306A-VGSO-CSD	7471B, 7471B	T	0.54 g	50 mL				
680-92626-B-3	HP0306A-VGSO-CS	7471B, 7471B	T	0.57 g	50 mL				
680-92626-B-2	CV0256A-VGSO-CSD	7471B, 7471B	T	0.51 g	50 mL				
680-92626-B-1	CV0256A-VGSO-CS	7471B, 7471B	T	0.56 g	50 mL				
680-92626-B-1 MS	CV0256A-VGSO-CS	7471B, 7471B	T	0.52 g	50 mL		0.1 mL		
680-92626-B-1 MSD	CV0256A-VGSO-CS	7471B, 7471B	T	0.55 g	50 mL		0.1 mL		
CCV 680-286694/22		7471B, 7471B		50 mL	50 mL		0.25 mL		
CCB 680-286694/23		7471B, 7471B		50 mL	50 mL				
ICV 680-286694/25		7471B, 7471B		50 mL	50 mL	0.15 mL			
ICB 680-286694/26		7471B, 7471B		50 mL	50 mL				
CRA 680-286694/27		7471B, 7471B		50 mL	50 mL		0.02 mL	0.2 standard used.	

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: TestAmerica Savannah Job No.: 680-92626-2

SDG No.: 680-92626-02

Batch Number: 286694 Batch Start Date: 07/29/13 17:00 Batch Analyst: Seabrooks, Deanna A

Batch Method: 7471B Batch End Date:

Batch Notes	
Hydroxylamine Sulfate Lot Number	2168787
Aqua Regia Lot Number	2275817
Balance ID	27
Blank Soil Lot Number	1718537
Sulfuric Acid Lot Number	2105992
Lot # of hydrochloric acid	2242562
Lot # of Nitric Acid	2242598
Hood ID or number	WB 1
Hot Block ID number	HG BATH 1
Potassium Persulfate Lot Number	2275523
Potassium Permanganate Lot Number	2265627
NaCL Lot #	1988762
Nominal Amount Used	0.50 g
Oven, Bath or Block Temperature 1	95 Celsius
Oven, Bath or Block Temperature 2	96 Celsius
Repittetor Volume Check	063011
Stannous Chloride Lot Number	2272848
SOP Number	ME 28
ID number of the thermometer	MEHGWB2-C
Digestion Tube/Cup Lot #	010-501-263

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Shipping and Receiving Documents

Serial Number 70199

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

Alternate Laboratory Name/Location: TestAmerica Tampa
Phone: 680-92626
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
35th AVE	2005148-1356	AL

TAL (LAB) PROJECT MANAGER	P.O. NUMBER	CONTRACT NO.

CLIENT (SITE) PM	CLIENT PHONE	CLIENT FAX
Russell Henderson	678-355-5550	

CLIENT NAME	CLIENT E-MAIL
OTIE	rhenderson@otie.com

CLIENT ADDRESS: 1220 Kennestone Cir, Ste 106, Marietta, GA 30066
COMPANY CONTRACTING THIS WORK (if applicable):

PAGE 1 | 4 OF 4

STANDARD REPORT DELIVERY
DATE DUE
EXPEDITED REPORT DELIVERY (SURCHARGE)
DATE DUE
NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	MATRIX: AQUEOUS (WATER)	MATRIX: SOLID OR SEMISOLID	MATRIX: AIR	MATRIX: NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	REQUIRED ANALYSIS: PAHs	Metals	Metals	PAHs	NUMBER OF CONTAINERS SUBMITTED: Ice	Ice	Ice	Ice	REMARKS
7/23/13	1135	CV0256A-V6S0-CS	C		Soil/Sed			X	X			3	3			
7/23/13	1135	CV0256A-V6S0-CSD	C		Soil/Sed			X	X			3	3			
7/23/13	1055	HP0306A-V6S0-CS	C		Soil			X	X			3	3			
7/23/13	1055	HP0306A-V6S0-CSD	C		Soil			X	X			3	3			
7/23/13	0945	CV0827A-V6S0-CS	C		Soil			X	X			3	3			
7/23/13	1325	CV0453A-V6S0-CS	C		Soil/Sed			X	X			3	3			
7/24/13	0940	CV0272A-V6S0-CS	C		Soil/Sed			X	X			3	3			
7/24/13	0855	CV0083A-V6S0-CS	C		Soil/Sed			X	X			3	3			
7/23/13	0948	HP0066A-WPM	G							X	X	1	[redacted]			Wipe sample
7/23/13	0950	HP0066A-WPP	G							X	X	[redacted]	1			Wipe Sample
7/23/13	1015	HP066B-WPM	G							X	X	1	[redacted]			Wipe Sample
7/23/13	1017	HP066B-WPP	G							X	X	[redacted]	1			Wipe Sample

680-92626-01 Chain of Custody

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
[signature]	7/24/13	1630						
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS
Carol McNulty	7/25/13	0855	YES ○ NO ○			5.8°C CA07

TAL-8240-680 (1008)

Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-92626-2
SDG Number: 680-92626-02

Login Number: 92626
List Number: 1
Creator: Snead, Joshua

List Source: TestAmerica Savannah

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-92626-2
SDG Number: 680-92626-02

Login Number: 92626
List Number: 1
Creator: McNulty, Carol

List Source: TestAmerica Tampa
List Creation: 07/30/13 11:07 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Tel: (912)354-7858

TestAmerica Job ID: 680-92626-2
TestAmerica Sample Delivery Group: 680-92626-02
Client Project/Site: 35th Avenue Superfund Site

For:
Oneida Total Integrated Enterprises LLC
1220 Kennestone Circle
Suite 106
Marietta, Georgia 30060

Attn: Ms. Limari F Krebs

Authorized for release by:
8/6/2013 3:34:26 PM

Lisa Harvey, Project Manager II
lisa.harvey@testamericainc.com

LINKS

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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Job ID: 680-92626-2

Laboratory: TestAmerica Savannah

Narrative

CASE NARRATIVE
Client: Oneida Total Integrated Enterprises LLC
Project: 35th Avenue Superfund Site
Report Number: 680-92626-2

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 07/25/2013; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 5.8 C.

METALS (ICP)

Samples CV0256A-VGSO-CS (680-92626-1), CV0256A-VGSO-CSD (680-92626-2), HP0306A-VGSO-CS (680-92626-3), HP0306A-VGSO-CSD (680-92626-4), CV0827A-VGSO-CS (680-92626-5), CV0453A-VGSO-CS (680-92626-6), CV0272A-VGSO-CS (680-92626-7) and CV0083A-VGSO-CS (680-92626-8) were analyzed for Metals (ICP) in accordance with EPA SW-846 Method 6010C.

Method(s) 6010C: The serial dilution performed for the following sample(s) associated with batch 680-286324 was outside control limits for lead: (680-92626-8 SD)

Method(s) 6010C: The post digestion spike % recovery for silver associated with batch 680-286324 was outside of control limits.

Method(s) 6010C: Due to the high concentration of barium, chromium, and lead, the matrix spike / matrix spike duplicate (MS/MSD) for batch 680-286324 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria.

Method(s) 6010C: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 680-286324 were outside control limits arsenic and cadmium. The associated laboratory control sample (LCS) recovery met acceptance criteria.

Method(s) 6010C: The matrix spike / matrix spike duplicate (MS/MSD) precision for batch 680-286324 was outside control limits for barium and lead. Non-homogeneity of the sample matrix is suspected.

Method(s) 6010C: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 680-286279 were outside control limits for chromium. The associated laboratory control sample (LCS) recovery met acceptance criteria.

Method(s) 6010C: Due to the high concentration of arsenic, barium, and lead, the matrix spike / matrix spike duplicate (MS/MSD) for batch 680-286279 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria.

TOTAL MERCURY

Samples CV0256A-VGSO-CS (680-92626-1), CV0256A-VGSO-CSD (680-92626-2), HP0306A-VGSO-CS (680-92626-3), HP0306A-VGSO-CSD (680-92626-4), CV0827A-VGSO-CS (680-92626-5), CV0453A-VGSO-CS (680-92626-6), CV0272A-VGSO-CS (680-92626-7) and CV0083A-VGSO-CS (680-92626-8) were analyzed for total mercury in accordance with EPA SW-846 Method 7471B.

Method(s) 7471B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 680-286694 were outside control limits for

Job ID: 680-92626-2 (Continued)

Laboratory: TestAmerica Savannah (Continued)

mercury. The associated laboratory control sample (LCS) recovery met acceptance criteria.

Sample CV0453A-VGSO-CS (680-92626-6)[2X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

PERCENT SOLIDS/MOISTURE

Samples CV0256A-VGSO-CS (680-92626-1), CV0256A-VGSO-CSD (680-92626-2), HP0306A-VGSO-CS (680-92626-3), HP0306A-VGSO-CSD (680-92626-4), CV0827A-VGSO-CS (680-92626-5), CV0453A-VGSO-CS (680-92626-6), CV0272A-VGSO-CS (680-92626-7) and CV0083A-VGSO-CS (680-92626-8) were analyzed for Percent Solids/Moisture in accordance with TestAmerica SOP.

Sample Summary

Client: Oneida Total Integrated Enterprises LLC
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-92626-2
SDG: 680-92626-02

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-92626-1	CV0256A-VGSO-CS	Solid	07/23/13 11:35	07/25/13 08:55
680-92626-2	CV0256A-VGSO-CSD	Solid	07/23/13 11:35	07/25/13 08:55
680-92626-3	HP0306A-VGSO-CS	Solid	07/23/13 10:55	07/25/13 08:55
680-92626-4	HP0306A-VGSO-CSD	Solid	07/23/13 10:55	07/25/13 08:55
680-92626-5	CV0827A-VGSO-CS	Solid	07/23/13 09:45	07/25/13 08:55
680-92626-6	CV0453A-VGSO-CS	Solid	07/23/13 13:25	07/25/13 08:55
680-92626-7	CV0272A-VGSO-CS	Solid	07/24/13 09:40	07/25/13 08:55
680-92626-8	CV0083A-VGSO-CS	Solid	07/24/13 08:55	07/25/13 08:55

Method Summary

Client: Oneida Total Integrated Enterprises LLC
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-92626-2
SDG: 680-92626-02

Method	Method Description	Protocol	Laboratory
6010C	Metals (ICP)	SW846	TAL SAV
7471B	Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)	SW846	TAL SAV
Moisture	Percent Moisture	EPA	TAL TAM

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

TAL TAM = TestAmerica Tampa, 6712 Benjamin Road, Suite 100, Tampa, FL 33634, TEL (813)885-7427

Qualifiers

Metals

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
F	MS or MSD exceeds the control limits
4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F	RPD of the MS and MSD exceeds the control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client Sample ID: CV0256A-VGSO-CS

Lab Sample ID: 680-92626-1
Date Collected: 07/23/13 11:35
Matrix: Solid
Date Received: 07/25/13 08:55
Percent Solids: 75.5

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	50		2.3	0.67	mg/Kg	☼	07/26/13 09:22	08/02/13 14:31	1
Barium	190		1.1	0.34	mg/Kg	☼	07/26/13 09:22	08/02/13 14:31	1
Cadmium	1.1		0.57	0.11	mg/Kg	☼	07/26/13 09:22	08/02/13 14:31	1
Chromium	24		1.1	0.57	mg/Kg	☼	07/26/13 09:22	08/02/13 14:31	1
Lead	130		1.1	0.60	mg/Kg	☼	07/26/13 09:22	08/02/13 14:31	1
Selenium	2.8	U	2.8	1.1	mg/Kg	☼	07/26/13 09:22	08/02/13 14:31	1
Silver	1.1	U	1.1	0.11	mg/Kg	☼	07/26/13 09:22	08/02/13 14:31	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.38		0.024	0.0097	mg/Kg	☼	07/29/13 17:00	07/30/13 17:52	1

Client Sample ID: CV0256A-VGSO-CSD

Lab Sample ID: 680-92626-2
Date Collected: 07/23/13 11:35
Matrix: Solid
Date Received: 07/25/13 08:55
Percent Solids: 75.7

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	67		2.5	0.73	mg/Kg	☼	07/26/13 09:22	08/02/13 14:54	1
Barium	220		1.2	0.37	mg/Kg	☼	07/26/13 09:22	08/02/13 14:54	1
Cadmium	1.6		0.62	0.12	mg/Kg	☼	07/26/13 09:22	08/02/13 14:54	1
Chromium	23		1.2	0.62	mg/Kg	☼	07/26/13 09:22	08/02/13 14:54	1
Lead	160		1.2	0.65	mg/Kg	☼	07/26/13 09:22	08/02/13 14:54	1
Selenium	3.1	U	3.1	1.2	mg/Kg	☼	07/26/13 09:22	08/02/13 14:54	1
Silver	0.13	J	1.2	0.12	mg/Kg	☼	07/26/13 09:22	08/02/13 14:54	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.41		0.026	0.011	mg/Kg	☼	07/29/13 17:00	07/30/13 17:49	1

Client Sample ID: HP0306A-VGSO-CS

Lab Sample ID: 680-92626-3
Date Collected: 07/23/13 10:55
Matrix: Solid
Date Received: 07/25/13 08:55
Percent Solids: 80.4

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	38		2.3	0.68	mg/Kg	☼	07/26/13 09:22	08/02/13 14:59	1
Barium	190		1.2	0.35	mg/Kg	☼	07/26/13 09:22	08/02/13 14:59	1
Cadmium	0.38	J	0.58	0.12	mg/Kg	☼	07/26/13 09:22	08/02/13 14:59	1
Chromium	86		1.2	0.58	mg/Kg	☼	07/26/13 09:22	08/02/13 14:59	1
Lead	110		1.2	0.61	mg/Kg	☼	07/26/13 09:22	08/02/13 14:59	1
Selenium	2.9	U	2.9	1.2	mg/Kg	☼	07/26/13 09:22	08/02/13 14:59	1
Silver	1.2	U	1.2	0.11	mg/Kg	☼	07/26/13 09:22	08/02/13 14:59	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.10		0.022	0.0089	mg/Kg	☼	07/29/13 17:00	07/30/13 17:41	1

Client: Oneida Total Integrated Enterprises LLC
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-92626-2
SDG: 680-92626-02

Client Sample ID: HP0306A-VGSO-CSD

Lab Sample ID: 680-92626-4
Date Collected: 07/23/13 10:55
Matrix: Solid
Date Received: 07/25/13 08:55
Percent Solids: 78.4

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	36		2.5	0.73	mg/Kg	☼	07/26/13 09:22	08/02/13 15:04	1
Barium	180		1.2	0.37	mg/Kg	☼	07/26/13 09:22	08/02/13 15:04	1
Cadmium	0.64		0.62	0.12	mg/Kg	☼	07/26/13 09:22	08/02/13 15:04	1
Chromium	84		1.2	0.62	mg/Kg	☼	07/26/13 09:22	08/02/13 15:04	1
Lead	110		1.2	0.66	mg/Kg	☼	07/26/13 09:22	08/02/13 15:04	1
Selenium	3.1	U	3.1	1.2	mg/Kg	☼	07/26/13 09:22	08/02/13 15:04	1
Silver	1.2	U	1.2	0.12	mg/Kg	☼	07/26/13 09:22	08/02/13 15:04	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.11		0.024	0.0097	mg/Kg	☼	07/29/13 17:00	07/30/13 17:39	1

Client Sample ID: CV0827A-VGSO-CS

Lab Sample ID: 680-92626-5
Date Collected: 07/23/13 09:45
Matrix: Solid
Date Received: 07/25/13 08:55
Percent Solids: 69.1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	31		2.5	0.74	mg/Kg	☼	07/26/13 09:22	08/02/13 15:17	1
Barium	630		1.3	0.38	mg/Kg	☼	07/26/13 09:22	08/02/13 15:17	1
Cadmium	2.8		0.63	0.13	mg/Kg	☼	07/26/13 09:22	08/02/13 15:17	1
Chromium	44		1.3	0.63	mg/Kg	☼	07/26/13 09:22	08/02/13 15:17	1
Lead	420		1.3	0.67	mg/Kg	☼	07/26/13 09:22	08/02/13 15:17	1
Selenium	3.1	U	3.1	1.3	mg/Kg	☼	07/26/13 09:22	08/02/13 15:17	1
Silver	0.28	J	1.3	0.12	mg/Kg	☼	07/26/13 09:22	08/02/13 15:17	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.41		0.027	0.011	mg/Kg	☼	07/29/13 17:00	07/30/13 17:36	1

Client Sample ID: CV0453A-VGSO-CS

Lab Sample ID: 680-92626-6
Date Collected: 07/23/13 13:25
Matrix: Solid
Date Received: 07/25/13 08:55
Percent Solids: 65.3

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	42		2.8	0.83	mg/Kg	☼	07/26/13 09:22	08/02/13 15:22	1
Barium	510		1.4	0.42	mg/Kg	☼	07/26/13 09:22	08/02/13 15:22	1
Cadmium	3.5		0.70	0.14	mg/Kg	☼	07/26/13 09:22	08/02/13 15:22	1
Chromium	45		1.4	0.70	mg/Kg	☼	07/26/13 09:22	08/02/13 15:22	1
Lead	1000		1.4	0.75	mg/Kg	☼	07/26/13 09:22	08/02/13 15:22	1
Selenium	3.5	U	3.5	1.4	mg/Kg	☼	07/26/13 09:22	08/02/13 15:22	1
Silver	1.5		1.4	0.13	mg/Kg	☼	07/26/13 09:22	08/02/13 15:22	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.89		0.058	0.024	mg/Kg	☼	07/29/13 17:00	07/31/13 10:41	2

Client: Oneida Total Integrated Enterprises LLC
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-92626-2
SDG: 680-92626-02

Client Sample ID: CV0272A-VGSO-CS

Lab Sample ID: 680-92626-7

Date Collected: 07/24/13 09:40
Date Received: 07/25/13 08:55

Matrix: Solid
Percent Solids: 81.9

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	20		2.4	0.71	mg/Kg	☼	07/26/13 09:22	08/02/13 15:27	1
Barium	180		1.2	0.36	mg/Kg	☼	07/26/13 09:22	08/02/13 15:27	1
Cadmium	0.40	J	0.60	0.12	mg/Kg	☼	07/26/13 09:22	08/02/13 15:27	1
Chromium	64		1.2	0.60	mg/Kg	☼	07/26/13 09:22	08/02/13 15:27	1
Lead	130		1.2	0.63	mg/Kg	☼	07/26/13 09:22	08/02/13 15:27	1
Selenium	3.0	U	3.0	1.2	mg/Kg	☼	07/26/13 09:22	08/02/13 15:27	1
Silver	1.2	U	1.2	0.11	mg/Kg	☼	07/26/13 09:22	08/02/13 15:27	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.25		0.022	0.0091	mg/Kg	☼	07/29/13 17:00	07/30/13 17:31	1

Client Sample ID: CV0083A-VGSO-CS

Lab Sample ID: 680-92626-8

Date Collected: 07/24/13 08:55
Date Received: 07/25/13 08:55

Matrix: Solid
Percent Solids: 83.0

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	18		2.3	0.67	mg/Kg	☼	07/26/13 12:51	08/01/13 02:04	1
Barium	210		1.1	0.34	mg/Kg	☼	07/26/13 12:51	08/01/13 02:04	1
Cadmium	2.8		0.57	0.11	mg/Kg	☼	07/26/13 12:51	08/01/13 02:04	1
Chromium	86		1.1	0.57	mg/Kg	☼	07/26/13 12:51	08/01/13 02:04	1
Lead	160		1.1	0.60	mg/Kg	☼	07/26/13 12:51	08/01/13 02:04	1
Selenium	1.4	J	2.8	1.1	mg/Kg	☼	07/26/13 12:51	08/01/13 02:04	1
Silver	0.21	J	1.1	0.11	mg/Kg	☼	07/26/13 12:51	08/01/13 02:04	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.37		0.024	0.0097	mg/Kg	☼	07/29/13 17:00	07/30/13 17:28	1

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 680-286279/1-A
Matrix: Solid
Analysis Batch: 287699

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 286279

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.0	U	2.0	0.58	mg/Kg		07/26/13 09:22	08/02/13 14:22	1
Barium	0.99	U	0.99	0.30	mg/Kg		07/26/13 09:22	08/02/13 14:22	1
Cadmium	0.50	U	0.50	0.099	mg/Kg		07/26/13 09:22	08/02/13 14:22	1
Chromium	0.99	U	0.99	0.50	mg/Kg		07/26/13 09:22	08/02/13 14:22	1
Lead	0.99	U	0.99	0.52	mg/Kg		07/26/13 09:22	08/02/13 14:22	1
Selenium	2.5	U	2.5	0.99	mg/Kg		07/26/13 09:22	08/02/13 14:22	1
Silver	0.99	U	0.99	0.095	mg/Kg		07/26/13 09:22	08/02/13 14:22	1

Lab Sample ID: LCS 680-286279/2-A
Matrix: Solid
Analysis Batch: 287699

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 286279

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	9.90	10.4		mg/Kg		105	75 - 125
Barium	9.90	10.3		mg/Kg		104	75 - 125
Cadmium	4.95	5.05		mg/Kg		102	75 - 125
Chromium	9.90	10.5		mg/Kg		106	75 - 125
Lead	4.95	5.05		mg/Kg		102	75 - 125
Selenium	9.90	9.80		mg/Kg		99	75 - 125
Silver	4.95	5.13		mg/Kg		104	75 - 125

Lab Sample ID: 680-92626-1 MS
Matrix: Solid
Analysis Batch: 287699

Client Sample ID: CV0256A-VGSO-CS
Prep Type: Total/NA
Prep Batch: 286279

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	50		11.4	96.5	4	mg/Kg	☼	406	75 - 125
Barium	190		11.4	241	4	mg/Kg	☼	433	75 - 125
Cadmium	1.1		5.71	7.19		mg/Kg	☼	107	75 - 125
Chromium	24		11.4	40.8	F	mg/Kg	☼	149	75 - 125
Lead	130		5.71	184	4	mg/Kg	☼	1022	75 - 125
Selenium	2.8	U	11.4	11.2		mg/Kg	☼	98	75 - 125
Silver	1.1	U	5.71	5.87		mg/Kg	☼	103	75 - 125

Lab Sample ID: 680-92626-1 MSD
Matrix: Solid
Analysis Batch: 287699

Client Sample ID: CV0256A-VGSO-CS
Prep Type: Total/NA
Prep Batch: 286279

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	50		11.4	79.5	4	mg/Kg	☼	257	75 - 125	19	20
Barium	190		11.4	231	4	mg/Kg	☼	339	75 - 125	5	20
Cadmium	1.1		5.71	6.83		mg/Kg	☼	100	75 - 125	5	20
Chromium	24		11.4	38.8	F	mg/Kg	☼	132	75 - 125	5	20
Lead	130		5.71	155	4	mg/Kg	☼	507	75 - 125	17	20
Selenium	2.8	U	11.4	12.3		mg/Kg	☼	108	75 - 125	9	20
Silver	1.1	U	5.71	6.33		mg/Kg	☼	111	75 - 125	8	20

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: MB 680-286324/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 287225 — **Prep Batch: 286324**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.0	U	2.0	0.59	mg/Kg		07/26/13 12:51	08/01/13 01:54	1
Barium	1.0	U	1.0	0.30	mg/Kg		07/26/13 12:51	08/01/13 01:54	1
Cadmium	0.50	U	0.50	0.10	mg/Kg		07/26/13 12:51	08/01/13 01:54	1
Chromium	1.0	U	1.0	0.50	mg/Kg		07/26/13 12:51	08/01/13 01:54	1
Lead	1.0	U	1.0	0.53	mg/Kg		07/26/13 12:51	08/01/13 01:54	1
Selenium	2.5	U	2.5	1.0	mg/Kg		07/26/13 12:51	08/01/13 01:54	1
Silver	1.0	U	1.0	0.096	mg/Kg		07/26/13 12:51	08/01/13 01:54	1

Lab Sample ID: LCS 680-286324/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 287225 — **Prep Batch: 286324**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	9.80	10.1		mg/Kg		103	75 - 125
Barium	9.80	10.0		mg/Kg		102	75 - 125
Cadmium	4.90	4.88		mg/Kg		100	75 - 125
Chromium	9.80	10.2		mg/Kg		104	75 - 125
Lead	4.90	4.91		mg/Kg		100	75 - 125
Selenium	9.80	9.47		mg/Kg		97	75 - 125
Silver	4.90	5.00		mg/Kg		102	75 - 125

Lab Sample ID: 680-92626-8 MS — **Client Sample ID: CV0083A-VGSO-CS**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 287225 — **Prep Batch: 286324**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	18		11.5	31.4		mg/Kg	☼	120	75 - 125
Barium	210		11.5	257	4	mg/Kg	☼	373	75 - 125
Cadmium	2.8		5.73	5.92	F	mg/Kg	☼	55	75 - 125
Chromium	86		11.5	104	4	mg/Kg	☼	158	75 - 125
Lead	160		5.73	168	4	mg/Kg	☼	143	75 - 125
Selenium	1.4	J	11.5	11.5		mg/Kg	☼	88	75 - 125
Silver	0.21	J	5.73	6.53		mg/Kg	☼	110	75 - 125

Lab Sample ID: 680-92626-8 MSD — **Client Sample ID: CV0083A-VGSO-CS**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 287225 — **Prep Batch: 286324**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	18		11.5	35.8	F	mg/Kg	☼	159	75 - 125	13	20
Barium	210		11.5	485	4 F	mg/Kg	☼	2364	75 - 125	62	20
Cadmium	2.8		5.73	6.19	F	mg/Kg	☼	59	75 - 125	4	20
Chromium	86		11.5	94.1	4	mg/Kg	☼	71	75 - 125	10	20
Lead	160		5.73	272	4 F	mg/Kg	☼	1966	75 - 125	48	20
Selenium	1.4	J	11.5	12.0		mg/Kg	☼	93	75 - 125	5	20
Silver	0.21	J	5.73	6.87		mg/Kg	☼	116	75 - 125	5	20

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Lab Sample ID: MB 680-286694/1-A
Matrix: Solid
Analysis Batch: 287160

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 286694

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.019	U	0.019	0.0079	mg/Kg		07/29/13 17:00	07/30/13 17:18	1

Lab Sample ID: LCS 680-286694/2-A
Matrix: Solid
Analysis Batch: 287160

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 286694

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.250	0.244		mg/Kg		98	80 - 120

Lab Sample ID: 680-92626-1 MS
Matrix: Solid
Analysis Batch: 287160

Client Sample ID: CV0256A-VGSO-CS
Prep Type: Total/NA
Prep Batch: 286694

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.38		0.127	0.464	F	mg/Kg	☼	62	80 - 120

Lab Sample ID: 680-92626-1 MSD
Matrix: Solid
Analysis Batch: 287160

Client Sample ID: CV0256A-VGSO-CS
Prep Type: Total/NA
Prep Batch: 286694

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.38		0.120	0.476	F	mg/Kg	☼	76	80 - 120	2	20

Metals

Prep Batch: 286279

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-92626-1	CV0256A-VGSO-CS	Total/NA	Solid	3050B	
680-92626-1 MS	CV0256A-VGSO-CS	Total/NA	Solid	3050B	
680-92626-1 MSD	CV0256A-VGSO-CS	Total/NA	Solid	3050B	
680-92626-2	CV0256A-VGSO-CSD	Total/NA	Solid	3050B	
680-92626-3	HP0306A-VGSO-CS	Total/NA	Solid	3050B	
680-92626-4	HP0306A-VGSO-CSD	Total/NA	Solid	3050B	
680-92626-5	CV0827A-VGSO-CS	Total/NA	Solid	3050B	
680-92626-6	CV0453A-VGSO-CS	Total/NA	Solid	3050B	
680-92626-7	CV0272A-VGSO-CS	Total/NA	Solid	3050B	
LCS 680-286279/2-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 680-286279/1-A	Method Blank	Total/NA	Solid	3050B	

Prep Batch: 286324

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-92626-8	CV0083A-VGSO-CS	Total/NA	Solid	3050B	
680-92626-8 MS	CV0083A-VGSO-CS	Total/NA	Solid	3050B	
680-92626-8 MSD	CV0083A-VGSO-CS	Total/NA	Solid	3050B	
LCS 680-286324/2-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 680-286324/1-A	Method Blank	Total/NA	Solid	3050B	

Prep Batch: 286694

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-92626-1	CV0256A-VGSO-CS	Total/NA	Solid	7471B	
680-92626-1 MS	CV0256A-VGSO-CS	Total/NA	Solid	7471B	
680-92626-1 MSD	CV0256A-VGSO-CS	Total/NA	Solid	7471B	
680-92626-2	CV0256A-VGSO-CSD	Total/NA	Solid	7471B	
680-92626-3	HP0306A-VGSO-CS	Total/NA	Solid	7471B	
680-92626-4	HP0306A-VGSO-CSD	Total/NA	Solid	7471B	
680-92626-5	CV0827A-VGSO-CS	Total/NA	Solid	7471B	
680-92626-6	CV0453A-VGSO-CS	Total/NA	Solid	7471B	
680-92626-7	CV0272A-VGSO-CS	Total/NA	Solid	7471B	
680-92626-8	CV0083A-VGSO-CS	Total/NA	Solid	7471B	
LCS 680-286694/2-A	Lab Control Sample	Total/NA	Solid	7471B	
MB 680-286694/1-A	Method Blank	Total/NA	Solid	7471B	

Analysis Batch: 287160

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-92626-1	CV0256A-VGSO-CS	Total/NA	Solid	7471B	286694
680-92626-1 MS	CV0256A-VGSO-CS	Total/NA	Solid	7471B	286694
680-92626-1 MSD	CV0256A-VGSO-CS	Total/NA	Solid	7471B	286694
680-92626-2	CV0256A-VGSO-CSD	Total/NA	Solid	7471B	286694
680-92626-3	HP0306A-VGSO-CS	Total/NA	Solid	7471B	286694
680-92626-4	HP0306A-VGSO-CSD	Total/NA	Solid	7471B	286694
680-92626-5	CV0827A-VGSO-CS	Total/NA	Solid	7471B	286694
680-92626-6	CV0453A-VGSO-CS	Total/NA	Solid	7471B	286694
680-92626-7	CV0272A-VGSO-CS	Total/NA	Solid	7471B	286694
680-92626-8	CV0083A-VGSO-CS	Total/NA	Solid	7471B	286694
LCS 680-286694/2-A	Lab Control Sample	Total/NA	Solid	7471B	286694
MB 680-286694/1-A	Method Blank	Total/NA	Solid	7471B	286694

Metals (Continued)

Analysis Batch: 287225

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-92626-8	CV0083A-VGSO-CS	Total/NA	Solid	6010C	286324
680-92626-8 MS	CV0083A-VGSO-CS	Total/NA	Solid	6010C	286324
680-92626-8 MSD	CV0083A-VGSO-CS	Total/NA	Solid	6010C	286324
LCS 680-286324/2-A	Lab Control Sample	Total/NA	Solid	6010C	286324
MB 680-286324/1-A	Method Blank	Total/NA	Solid	6010C	286324

Analysis Batch: 287699

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-92626-1	CV0256A-VGSO-CS	Total/NA	Solid	6010C	286279
680-92626-1 MS	CV0256A-VGSO-CS	Total/NA	Solid	6010C	286279
680-92626-1 MSD	CV0256A-VGSO-CS	Total/NA	Solid	6010C	286279
680-92626-2	CV0256A-VGSO-CSD	Total/NA	Solid	6010C	286279
680-92626-3	HP0306A-VGSO-CS	Total/NA	Solid	6010C	286279
680-92626-4	HP0306A-VGSO-CSD	Total/NA	Solid	6010C	286279
680-92626-5	CV0827A-VGSO-CS	Total/NA	Solid	6010C	286279
680-92626-6	CV0453A-VGSO-CS	Total/NA	Solid	6010C	286279
680-92626-7	CV0272A-VGSO-CS	Total/NA	Solid	6010C	286279
LCS 680-286279/2-A	Lab Control Sample	Total/NA	Solid	6010C	286279
MB 680-286279/1-A	Method Blank	Total/NA	Solid	6010C	286279

General Chemistry

Analysis Batch: 139851

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-92626-1	CV0256A-VGSO-CS	Total/NA	Solid	Moisture	
680-92626-1 MS	CV0256A-VGSO-CS	Total/NA	Solid	Moisture	
680-92626-1 MSD	CV0256A-VGSO-CS	Total/NA	Solid	Moisture	
LCS 660-139851/1	Lab Control Sample	Total/NA	Solid	Moisture	
LCSD 660-139851/17	Lab Control Sample Dup	Total/NA	Solid	Moisture	

Analysis Batch: 139871

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-92626-2	CV0256A-VGSO-CSD	Total/NA	Solid	Moisture	
680-92626-3	HP0306A-VGSO-CS	Total/NA	Solid	Moisture	
680-92626-4	HP0306A-VGSO-CSD	Total/NA	Solid	Moisture	
680-92626-5	CV0827A-VGSO-CS	Total/NA	Solid	Moisture	
680-92626-6	CV0453A-VGSO-CS	Total/NA	Solid	Moisture	
680-92626-7	CV0272A-VGSO-CS	Total/NA	Solid	Moisture	
680-92626-8	CV0083A-VGSO-CS	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Oneida Total Integrated Enterprises LLC
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-92626-2
SDG: 680-92626-02

Client Sample ID: CV0256A-VGSO-CS

Lab Sample ID: 680-92626-1
Date Collected: 07/23/13 11:35
Matrix: Solid
Date Received: 07/25/13 08:55
Percent Solids: 75.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471B			286694	07/29/13 17:00	DAS	TAL SAV
Total/NA	Analysis	7471B		1	287160	07/30/13 17:52	BCB	TAL SAV
Total/NA	Prep	3050B			286279	07/26/13 09:22	JKL	TAL SAV
Total/NA	Analysis	6010C		1	287699	08/02/13 14:31	BCB	TAL SAV
Total/NA	Analysis	Moisture		1	139851	07/29/13 10:05	AJG	TAL TAM

Client Sample ID: CV0256A-VGSO-CSD

Lab Sample ID: 680-92626-2
Date Collected: 07/23/13 11:35
Matrix: Solid
Date Received: 07/25/13 08:55
Percent Solids: 75.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471B			286694	07/29/13 17:00	DAS	TAL SAV
Total/NA	Analysis	7471B		1	287160	07/30/13 17:49	BCB	TAL SAV
Total/NA	Prep	3050B			286279	07/26/13 09:22	JKL	TAL SAV
Total/NA	Analysis	6010C		1	287699	08/02/13 14:54	BCB	TAL SAV
Total/NA	Analysis	Moisture		1	139871	07/29/13 10:49	AJG	TAL TAM

Client Sample ID: HP0306A-VGSO-CS

Lab Sample ID: 680-92626-3
Date Collected: 07/23/13 10:55
Matrix: Solid
Date Received: 07/25/13 08:55
Percent Solids: 80.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471B			286694	07/29/13 17:00	DAS	TAL SAV
Total/NA	Analysis	7471B		1	287160	07/30/13 17:41	BCB	TAL SAV
Total/NA	Prep	3050B			286279	07/26/13 09:22	JKL	TAL SAV
Total/NA	Analysis	6010C		1	287699	08/02/13 14:59	BCB	TAL SAV
Total/NA	Analysis	Moisture		1	139871	07/29/13 10:52	AJG	TAL TAM

Client Sample ID: HP0306A-VGSO-CSD

Lab Sample ID: 680-92626-4
Date Collected: 07/23/13 10:55
Matrix: Solid
Date Received: 07/25/13 08:55
Percent Solids: 78.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471B			286694	07/29/13 17:00	DAS	TAL SAV
Total/NA	Analysis	7471B		1	287160	07/30/13 17:39	BCB	TAL SAV
Total/NA	Prep	3050B			286279	07/26/13 09:22	JKL	TAL SAV
Total/NA	Analysis	6010C		1	287699	08/02/13 15:04	BCB	TAL SAV
Total/NA	Analysis	Moisture		1	139871	07/29/13 12:22	AJG	TAL TAM

Lab Chronicle

Client: Oneida Total Integrated Enterprises LLC
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-92626-2
SDG: 680-92626-02

Client Sample ID: CV0827A-VGSO-CS

Lab Sample ID: 680-92626-5

Date Collected: 07/23/13 09:45
Matrix: Solid
Date Received: 07/25/13 08:55
Percent Solids: 69.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471B			286694	07/29/13 17:00	DAS	TAL SAV
Total/NA	Analysis	7471B		1	287160	07/30/13 17:36	BCB	TAL SAV
Total/NA	Prep	3050B			286279	07/26/13 09:22	JKL	TAL SAV
Total/NA	Analysis	6010C		1	287699	08/02/13 15:17	BCB	TAL SAV
Total/NA	Analysis	Moisture		1	139871	07/29/13 11:15	AJG	TAL TAM

Client Sample ID: CV0453A-VGSO-CS

Lab Sample ID: 680-92626-6

Date Collected: 07/23/13 13:25
Matrix: Solid
Date Received: 07/25/13 08:55
Percent Solids: 65.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471B			286694	07/29/13 17:00	DAS	TAL SAV
Total/NA	Analysis	7471B		2	287160	07/31/13 10:41	BCB	TAL SAV
Total/NA	Prep	3050B			286279	07/26/13 09:22	JKL	TAL SAV
Total/NA	Analysis	6010C		1	287699	08/02/13 15:22	BCB	TAL SAV
Total/NA	Analysis	Moisture		1	139871	07/29/13 11:55	AJG	TAL TAM

Client Sample ID: CV0272A-VGSO-CS

Lab Sample ID: 680-92626-7

Date Collected: 07/24/13 09:40
Matrix: Solid
Date Received: 07/25/13 08:55
Percent Solids: 81.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471B			286694	07/29/13 17:00	DAS	TAL SAV
Total/NA	Analysis	7471B		1	287160	07/30/13 17:31	BCB	TAL SAV
Total/NA	Prep	3050B			286279	07/26/13 09:22	JKL	TAL SAV
Total/NA	Analysis	6010C		1	287699	08/02/13 15:27	BCB	TAL SAV
Total/NA	Analysis	Moisture		1	139871	07/29/13 11:43	AJG	TAL TAM

Client Sample ID: CV0083A-VGSO-CS

Lab Sample ID: 680-92626-8

Date Collected: 07/24/13 08:55
Matrix: Solid
Date Received: 07/25/13 08:55
Percent Solids: 83.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471B			286694	07/29/13 17:00	DAS	TAL SAV
Total/NA	Analysis	7471B		1	287160	07/30/13 17:28	BCB	TAL SAV
Total/NA	Prep	3050B			286324	07/26/13 12:51	JKL	TAL SAV
Total/NA	Analysis	6010C		1	287225	08/01/13 02:04	BCB	TAL SAV
Total/NA	Analysis	Moisture		1	139871	07/29/13 12:11	AJG	TAL TAM

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

TAL TAM = TestAmerica Tampa, 6712 Benjamin Road, Suite 100, Tampa, FL 33634, TEL (813)885-7427

Serial Number 70199

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

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THE LEADER IN ENVIRONMENTAL TESTING

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Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

Alternate Laboratory Name/Location: TestAmerica Tampa
Phone: 680-92626
Fax:

PROJECT REFERENCE: 35th Ave	PROJECT NO.: 2005148-1356	PROJECT LOCATION (STATE): AL	PAGE 1 OF 4
TAL (LAB) PROJECT MANAGER:	P.O. NUMBER:	CONTRACT NO.:	STANDARD REPORT DELIVERY: ☒ DATE DUE:
CLIENT (SITE) PM: Russell Henderson	CLIENT PHONE: 678-355-5550	CLIENT FAX:	EXPEDITED REPORT DELIVERY (SURCHARGE): ○ DATE DUE:
CLIENT NAME: OTIE	CLIENT E-MAIL: rhenderson@otie.com		
CLIENT ADDRESS: 1220 Kennestone Cir, Ste 106, Marietta, GA			
COMPANY CONTRACTING THIS WORK (if applicable): 30066			NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

MATRIX TYPE: COMPOSITE (C) OR GRAB (G) INDICATE; AQUEOUS (WATER); SOLID OR SEMISOLID; AIR; NONAQUEOUS LIQUID (OIL, SOLVENT, ...)

REQUIRED ANALYSIS / NUMBER OF CONTAINERS SUBMITTED

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	PAHs (Ice)	Metals (Ice)	Metals (Acetic Acid Ice)	PAHs (Ice)	REMARKS
7/23/13	1135	CV0256A-VGSO-CS	C		Soil			1	1			
7/23/13	1135	CV0256A-VGSO-CSD	C		Soil			1	1			
7/23/13	1055	HP0306A-VGSO-CS	C		Soil			1	1			
7/23/13	1055	HP0306A-VGSO-CSD	C		Soil			1	1			
7/23/13	0945	CV0827A-VGSO-CS	C		Soil			1	1			
7/23/13	1325	CV0453A-VGSO-CS	C		Soil			1	1			
7/24/13	0940	CV0272A-VGSO-CS	C		Soil			1	1			
7/24/13	0855	CV0083A-VGSO-CS	C		Soil			1	1			
7/23/13	0948	HP0066A-WPM	G							1	[illegible]	Wipe sample
7/23/13	0950	HP0066A-WPP	G							[illegible]	1	Wipe Sample
7/23/13	1015	HP066B-WPM	G							1	[illegible]	Wipe Sample
7/23/13	1017	HP066B-WPP	G							[illegible]	1	Wipe Sample

680-92626-01 Chain of Custody

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
[signature]	7/24/13	1630						
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS
Carol McNulty	7/25/13	0855	YES ○ NO ○			5.8°C CU07

TAL8240-680 (1008)

Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-92626-2
SDG Number: 680-92626-02

Login Number: 92626
List Number: 1
Creator: Snead, Joshua

List Source: TestAmerica Savannah

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-92626-2
SDG Number: 680-92626-02

Login Number: 92626
List Number: 1
Creator: McNulty, Carol

List Source: TestAmerica Tampa
List Creation: 07/30/13 11:07 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

Certification Summary

Client: Oneida Total Integrated Enterprises LLC
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-92626-2
SDG: 680-92626-02

Laboratory: TestAmerica Savannah

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
A2LA	ISO/IEC 17025		399.01	02-28-15
Alabama	State Program	4	41450	06-30-13 *
Arkansas DEQ	State Program	6	88-0692	02-01-14 *
California	NELAP	9	3217CA	07-31-13 *
Colorado	State Program	8	N/A	12-31-13
Connecticut	State Program	1	PH-0161	03-31-15
Florida	NELAP	4	E87052	06-30-14
GA Dept. of Agriculture	State Program	4	N/A	12-31-13
Georgia	State Program	4	N/A	06-30-14
Georgia	State Program	4	803	06-30-14
Guam	State Program	9	09-005r	04-17-13 *
Hawaii	State Program	9	N/A	06-30-14
Illinois	NELAP	5	200022	11-30-13
Iowa	State Program	7	353	07-01-15
Kentucky	State Program	4	90084	12-31-13
Kentucky (UST)	State Program	4	18	06-30-14
Louisiana	NELAP	6	30690	06-30-14
Louisiana	NELAP	6	LA100015	12-31-13
Maine	State Program	1	GA00006	08-16-14
Maryland	State Program	3	250	12-31-13
Massachusetts	State Program	1	M-GA006	06-30-14
Mississippi	State Program	4	N/A	06-30-14
Montana	State Program	8	CERT0081	01-01-14
Nebraska	State Program	7	TestAmerica-Savannah	06-30-14
New Jersey	NELAP	2	GA769	06-30-14
New Mexico	State Program	6	N/A	06-30-14
New York	NELAP	2	10842	04-01-14
North Carolina DENR	State Program	4	269	12-31-13
North Carolina DHHS	State Program	4	13701	07-31-14
Oklahoma	State Program	6	9984	08-31-13
Pennsylvania	NELAP	3	68-00474	06-30-14
Puerto Rico	State Program	2	GA00006	01-01-14
South Carolina	State Program	4	98001	06-30-13 *
Tennessee	State Program	4	TN02961	06-30-14
Texas	NELAP	6	T104704185-08-TX	11-30-13
USDA	Federal		SAV 3-04	04-07-14
Virginia	NELAP	3	460161	06-14-14
Washington	State Program	10	C1794	06-10-14
West Virginia	State Program	3	9950C	12-31-13
West Virginia DEP	State Program	3	94	09-30-13
Wisconsin	State Program	5	999819810	08-31-13
Wyoming	State Program	8	8TMS-Q	06-30-13 *

Laboratory: TestAmerica Tampa

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alabama	State Program	4	40610	06-30-14
Florida	NELAP	4	E84282	06-30-14
Georgia	State Program	4	905	06-30-13 *

* Expired certification is currently pending renewal and is considered valid.

Certification Summary

Client: Oneida Total Integrated Enterprises LLC
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-92626-2
SDG: 680-92626-02

Laboratory: TestAmerica Tampa (Continued)

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
USDA	Federal		P330-11-00177	04-20-14

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 13-0391
Project: 13-0391, 35th Avenue Site - Reported by Diana Burdette

September 11, 2013

4SESD-ASB

MEMORANDUM

SUBJECT: FINAL Analytical Report
Project: 13-0391, 35th Avenue Site
Superfund Emergency Response and Removal

FROM: Diana Burdette
OCS Chemist

THRU: Floyd Wellborn, Chief
ASB Organic Chemistry Section

TO: Richard Jardine

Attached are the final results for the analytical groups listed below. These analyses were performed in accordance with the Analytical Support Branch's (ASB) Laboratory Operations and Quality Assurance Manual (ASB LOQAM) found at www.epa.gov/region4/sesd/asbsop. Any unique project data quality objectives specified in writing by the data requestor have also been incorporated into the data unless otherwise noted in the Report Narrative. Chemistry data have been verified based on the ASB LOQAM specifications and have been qualified by this laboratory if the applicable quality control criteria were not met. Verification is defined in Section 5.2 of the ASB LOQAM. For a listing of specific data qualifiers and explanations, please refer to the Data Qualifier Definitions included in this report. The reported results are accurate within the limits of the method(s) and are representative only of the samples as received by the laboratory.

Analyses Included in this report:	Method Used:	Accreditations:
Semi Volatile Organics (SVOA)		
Semivolatile organic compounds	EPA 8270D (Dry Ice Blank)	None
Semivolatile organic compounds	EPA 8270D (Tissue)	None

Sample Disposal Policy

Because of the laboratory's limited space for long term sample storage, our policy is to dispose of samples on a periodic schedule. Please note that within 60 days of this memo, the original samples and all sample extracts and/or sample digestates will be disposed of in accordance with applicable regulations. The 60-day sample disposal policy does not apply to criminal samples which are held until the laboratory is notified by the criminal investigators that case development and litigation are complete.

These samples may be held in the laboratory's custody for a longer period of time if you have a special project need. If you wish for the laboratory to hold samples beyond the 60-day period, please contact our Sample Control Coordinator by e-mail at R4SampleCustody@epa.gov, and provide a reason for holding samples beyond 60 days

cc: Nardina Turner

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 13-0391
Project: 13-0391, 35th Avenue Site - Reported by Diana Burdette

SAMPLES INCLUDED IN THIS REPORT

Project: 13-0391, 35th Avenue Site

Sample ID	Laboratory ID	Matrix	Date Collected	Date Received
EB12	E133206-01	Equipment Rinse Blank	7/31/13 09:30	8/8/13 15:18
EB20	E133206-02	Equipment Rinse Blank	7/29/13 11:45	8/8/13 15:18
EB8	E133206-03	Equipment Rinse Blank	8/1/13 10:20	8/8/13 15:18
IB1	E133206-04	Dry Ice Blank	7/29/13 11:40	8/8/13 15:18
IB2	E133206-05	Dry Ice Blank	7/31/13 09:25	8/8/13 15:18
IB3	E133206-06	Dry Ice Blank	8/1/13 10:15	8/8/13 15:18
CV0083A-VGUW-CS06	E133206-08	Tissue	7/24/13 08:54	8/8/13 15:18
CV0083A-VGW-CS06	E133206-09	Tissue	7/24/13 08:54	8/8/13 15:18
CV0083A-VGUW-CS08	E133206-10	Tissue	7/24/13 09:01	8/8/13 15:18
CV0083A-VGW-CS08	E133206-11	Tissue	7/24/13 09:01	8/8/13 15:18
CV0256A-VGUW-CS08	E133206-12	Tissue	7/23/13 11:35	8/8/13 15:18
CV0256A-VGUW-CS08D	E133206-13	Tissue	7/23/13 11:35	8/8/13 15:18
CV0256A-VGW-CS08	E133206-14	Tissue	7/23/13 11:35	8/8/13 15:18
CV0256A-VGW-CS08D	E133206-15	Tissue	7/23/13 11:35	8/8/13 15:18
CV0256A-VGUW-CS14	E133206-16	Tissue	7/23/13 11:40	8/8/13 15:18
CV0256A-VGW-CS14	E133206-17	Tissue	7/23/13 11:40	8/8/13 15:18
CV0272A-VGW-CS03	E133206-18	Tissue	7/24/13 09:39	8/8/13 15:18
CV0272A-VGW-CS06	E133206-19	Tissue	7/24/13 09:30	8/8/13 15:18
CV0827A-VGUW-CS03	E133206-21	Tissue	7/23/13 09:41	8/8/13 15:18
CV0827A-VGW-CS03	E133206-22	Tissue	7/23/13 09:41	8/8/13 15:18
CV0827A-VGUW-CS06	E133206-24	Tissue	7/23/13 09:45	8/8/13 15:18
CV0827A-VGW-CS06	E133206-25	Tissue	7/23/13 09:45	8/8/13 15:18
HP0306A-VGUW-CS06	E133206-27	Tissue	7/23/13 10:55	8/8/13 15:18
HP0306A-VGUW-CS06D	E133206-28	Tissue	7/23/13 10:55	8/8/13 15:18
HP0306A-VGW-CS06	E133206-29	Tissue	7/23/13 10:55	8/8/13 15:18
HP0306A-VGW-CS06D	E133206-30	Tissue	7/23/13 10:55	8/8/13 15:18
HP0306A-VGUW-GS13	E133206-32	Tissue	7/23/13 10:46	8/8/13 15:18
HP0306A-VGUW-GS13D	E133206-33	Tissue	7/23/13 10:46	8/8/13 15:18
HP0306A-VGW-GS13	E133206-34	Tissue	7/23/13 10:46	8/8/13 15:18
HP0306A-VGW-GS13D	E133206-35	Tissue	7/23/13 10:46	8/8/13 15:18

DATA QUALIFIER DEFINITIONS

U	The analyte was not detected at or above the reporting limit.
J	The identification of the analyte is acceptable; the reported value is an estimate.
QL-3	Laboratory Control Spike Precision outside method control limits

ACRONYMS AND ABBREVIATIONS

CAS	Chemical Abstracts Service Note: Analytes with no known CAS identifiers have been assigned codes beginning with "E", the EPA ID as assigned by the EPA Substance Registry System (www.epa.gov/srs), or beginning with "R4-", a unique identifier assigned by the EPA Region 4 laboratory.
ISO	The test, if analyzed after June 26, 2012, is accredited under the EPA Region 4 ASB's ISO/IEC 17025 accreditation issued by ANSI-ASQ National Accreditation Board/ACLASS. Refer to certificate and scope of accreditation AT-1691.
MDL	Method Detection Limit - The minimum concentration of a substance (an analyte) that can be measured and reported with a 99% confidence that the analyte concentration is greater than zero.
MRL	Minimum Reporting Limit - Analyte concentration that corresponds to the lowest demonstrated level of acceptable quantitation. The MRL is sample-specific and accounts for preparation weights and volumes, dilutions, and moisture content of soil/sediments.
TIC	Tentatively Identified Compound - An analyte identified based on a match with the instrument software's mass spectral library. A calibration standard has not been analyzed to confirm the compound's identification or the estimated concentration reported.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 13-0391
Project: 13-0391, 35th Avenue Site - Reported by Diana Burdette

Semi Volatile Organics

Project: 13-0391, 35th Avenue Site

Sample ID: EB12 **Lab ID:** E133206-01

Station ID: **Matrix:** Equipment Rinse Blank

Date Collected: 7/31/13 9:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
90-12-0	1-Methylnaphthalene	0.20	U	ug/Bottle	0.20	8/28/13 9:30	9/05/13 16:44	EPA 8270D
91-57-6	2-Methylnaphthalene	0.20	U	ug/Bottle	0.20	8/28/13 9:30	9/05/13 16:44	EPA 8270D
83-32-9	Acenaphthene	0.20	U	ug/Bottle	0.20	8/28/13 9:30	9/05/13 16:44	EPA 8270D
208-96-8	Acenaphthylene	0.20	U	ug/Bottle	0.20	8/28/13 9:30	9/05/13 16:44	EPA 8270D
120-12-7	Anthracene	0.20	U	ug/Bottle	0.20	8/28/13 9:30	9/05/13 16:44	EPA 8270D
56-55-3	Benzo(a)anthracene	0.20	U	ug/Bottle	0.20	8/28/13 9:30	9/05/13 16:44	EPA 8270D
50-32-8	Benzo(a)pyrene	0.20	U	ug/Bottle	0.20	8/28/13 9:30	9/05/13 16:44	EPA 8270D
205-99-2	Benzo(b)fluoranthene	0.20	U	ug/Bottle	0.20	8/28/13 9:30	9/05/13 16:44	EPA 8270D
191-24-2	Benzo(g,h,i)perylene	0.20	U	ug/Bottle	0.20	8/28/13 9:30	9/05/13 16:44	EPA 8270D
207-08-9	Benzo(k)fluoranthene	0.20	U	ug/Bottle	0.20	8/28/13 9:30	9/05/13 16:44	EPA 8270D
218-01-9	Chrysene	0.20	U	ug/Bottle	0.20	8/28/13 9:30	9/05/13 16:44	EPA 8270D
53-70-3	Dibenz(a,h)anthracene	0.20	U	ug/Bottle	0.20	8/28/13 9:30	9/05/13 16:44	EPA 8270D
206-44-0	Fluoranthene	0.20	U	ug/Bottle	0.20	8/28/13 9:30	9/05/13 16:44	EPA 8270D
86-73-7	Fluorene	0.20	U	ug/Bottle	0.20	8/28/13 9:30	9/05/13 16:44	EPA 8270D
193-39-5	Indeno (1,2,3-cd) pyrene	0.20	U	ug/Bottle	0.20	8/28/13 9:30	9/05/13 16:44	EPA 8270D
91-20-3	Naphthalene	0.20	U	ug/Bottle	0.20	8/28/13 9:30	9/05/13 16:44	EPA 8270D
85-01-8	Phenanthrene	0.20	U	ug/Bottle	0.20	8/28/13 9:30	9/05/13 16:44	EPA 8270D

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
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980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 13-0391
Project: 13-0391, 35th Avenue Site - Reported by Diana Burdette

Semi Volatile Organics

Project: 13-0391, 35th Avenue Site

Sample ID: EB20 **Lab ID:** E133206-02

Station ID: **Matrix:** Equipment Rinse Blank

Date Collected: 7/29/13 11:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
90-12-0	1-Methylnaphthalene	0.20	U	ug/Bottle	0.20	8/28/13 9:30	9/05/13 17:17	EPA 8270D
91-57-6	2-Methylnaphthalene	0.20	U	ug/Bottle	0.20	8/28/13 9:30	9/05/13 17:17	EPA 8270D
83-32-9	Acenaphthene	0.20	U	ug/Bottle	0.20	8/28/13 9:30	9/05/13 17:17	EPA 8270D
208-96-8	Acenaphthylene	0.20	U	ug/Bottle	0.20	8/28/13 9:30	9/05/13 17:17	EPA 8270D
120-12-7	Anthracene	0.20	U	ug/Bottle	0.20	8/28/13 9:30	9/05/13 17:17	EPA 8270D
56-55-3	Benzo(a)anthracene	0.20	U	ug/Bottle	0.20	8/28/13 9:30	9/05/13 17:17	EPA 8270D
50-32-8	Benzo(a)pyrene	0.20	U	ug/Bottle	0.20	8/28/13 9:30	9/05/13 17:17	EPA 8270D
205-99-2	Benzo(b)fluoranthene	0.20	U	ug/Bottle	0.20	8/28/13 9:30	9/05/13 17:17	EPA 8270D
191-24-2	Benzo(g,h,i)perylene	0.20	U	ug/Bottle	0.20	8/28/13 9:30	9/05/13 17:17	EPA 8270D
207-08-9	Benzo(k)fluoranthene	0.20	U	ug/Bottle	0.20	8/28/13 9:30	9/05/13 17:17	EPA 8270D
218-01-9	Chrysene	0.20	U	ug/Bottle	0.20	8/28/13 9:30	9/05/13 17:17	EPA 8270D
53-70-3	Dibenz(a,h)anthracene	0.20	U	ug/Bottle	0.20	8/28/13 9:30	9/05/13 17:17	EPA 8270D
206-44-0	Fluoranthene	0.20	U	ug/Bottle	0.20	8/28/13 9:30	9/05/13 17:17	EPA 8270D
86-73-7	Fluorene	0.20	U	ug/Bottle	0.20	8/28/13 9:30	9/05/13 17:17	EPA 8270D
193-39-5	Indeno (1,2,3-cd) pyrene	0.20	U	ug/Bottle	0.20	8/28/13 9:30	9/05/13 17:17	EPA 8270D
91-20-3	Naphthalene	0.20	U	ug/Bottle	0.20	8/28/13 9:30	9/05/13 17:17	EPA 8270D
85-01-8	Phenanthrene	0.20	U	ug/Bottle	0.20	8/28/13 9:30	9/05/13 17:17	EPA 8270D

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 13-0391
Project: 13-0391, 35th Avenue Site - Reported by Diana Burdette

Semi Volatile Organics

Project: 13-0391, 35th Avenue Site

Sample ID: EB8 **Lab ID:** E133206-03

Station ID: **Matrix:** Equipment Rinse Blank

Date Collected: 8/1/13 10:20

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
90-12-0	1-Methylnaphthalene	0.20	U	ug/Bottle	0.20	8/28/13 9:30	9/05/13 17:51	EPA 8270D
91-57-6	2-Methylnaphthalene	0.20	U	ug/Bottle	0.20	8/28/13 9:30	9/05/13 17:51	EPA 8270D
83-32-9	Acenaphthene	0.20	U	ug/Bottle	0.20	8/28/13 9:30	9/05/13 17:51	EPA 8270D
208-96-8	Acenaphthylene	0.20	U	ug/Bottle	0.20	8/28/13 9:30	9/05/13 17:51	EPA 8270D
120-12-7	Anthracene	0.20	U	ug/Bottle	0.20	8/28/13 9:30	9/05/13 17:51	EPA 8270D
56-55-3	Benzo(a)anthracene	0.20	U	ug/Bottle	0.20	8/28/13 9:30	9/05/13 17:51	EPA 8270D
50-32-8	Benzo(a)pyrene	0.20	U	ug/Bottle	0.20	8/28/13 9:30	9/05/13 17:51	EPA 8270D
205-99-2	Benzo(b)fluoranthene	0.20	U	ug/Bottle	0.20	8/28/13 9:30	9/05/13 17:51	EPA 8270D
191-24-2	Benzo(g,h,i)perylene	0.20	U	ug/Bottle	0.20	8/28/13 9:30	9/05/13 17:51	EPA 8270D
207-08-9	Benzo(k)fluoranthene	0.20	U	ug/Bottle	0.20	8/28/13 9:30	9/05/13 17:51	EPA 8270D
218-01-9	Chrysene	0.20	U	ug/Bottle	0.20	8/28/13 9:30	9/05/13 17:51	EPA 8270D
53-70-3	Dibenz(a,h)anthracene	0.20	U	ug/Bottle	0.20	8/28/13 9:30	9/05/13 17:51	EPA 8270D
206-44-0	Fluoranthene	0.20	U	ug/Bottle	0.20	8/28/13 9:30	9/05/13 17:51	EPA 8270D
86-73-7	Fluorene	0.20	U	ug/Bottle	0.20	8/28/13 9:30	9/05/13 17:51	EPA 8270D
193-39-5	Indeno (1,2,3-cd) pyrene	0.20	U	ug/Bottle	0.20	8/28/13 9:30	9/05/13 17:51	EPA 8270D
91-20-3	Naphthalene	0.20	U	ug/Bottle	0.20	8/28/13 9:30	9/05/13 17:51	EPA 8270D
85-01-8	Phenanthrene	0.20	U	ug/Bottle	0.20	8/28/13 9:30	9/05/13 17:51	EPA 8270D

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
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D.A.R.T. Id: 13-0391
Project: 13-0391, 35th Avenue Site - Reported by Diana Burdette

Semi Volatile Organics

Project: 13-0391, 35th Avenue Site

Sample ID: IB1 **Lab ID:** E133206-04

Station ID: **Matrix:** Dry Ice Blank

Date Collected: 7/29/13 11:40

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
90-12-0	1-Methylnaphthalene	0.20	U	ug/Bottle	0.20	8/28/13 9:30	9/05/13 18:24	EPA 8270D
91-57-6	2-Methylnaphthalene	0.20	U	ug/Bottle	0.20	8/28/13 9:30	9/05/13 18:24	EPA 8270D
83-32-9	Acenaphthene	0.20	U	ug/Bottle	0.20	8/28/13 9:30	9/05/13 18:24	EPA 8270D
208-96-8	Acenaphthylene	0.20	U	ug/Bottle	0.20	8/28/13 9:30	9/05/13 18:24	EPA 8270D
120-12-7	Anthracene	0.20	U	ug/Bottle	0.20	8/28/13 9:30	9/05/13 18:24	EPA 8270D
56-55-3	Benzo(a)anthracene	0.20	U	ug/Bottle	0.20	8/28/13 9:30	9/05/13 18:24	EPA 8270D
50-32-8	Benzo(a)pyrene	0.20	U	ug/Bottle	0.20	8/28/13 9:30	9/05/13 18:24	EPA 8270D
205-99-2	Benzo(b)fluoranthene	0.20	U	ug/Bottle	0.20	8/28/13 9:30	9/05/13 18:24	EPA 8270D
191-24-2	Benzo(g,h,i)perylene	0.20	U	ug/Bottle	0.20	8/28/13 9:30	9/05/13 18:24	EPA 8270D
207-08-9	Benzo(k)fluoranthene	0.20	U	ug/Bottle	0.20	8/28/13 9:30	9/05/13 18:24	EPA 8270D
218-01-9	Chrysene	0.20	U	ug/Bottle	0.20	8/28/13 9:30	9/05/13 18:24	EPA 8270D
53-70-3	Dibenz(a,h)anthracene	0.20	U	ug/Bottle	0.20	8/28/13 9:30	9/05/13 18:24	EPA 8270D
206-44-0	Fluoranthene	0.20	U	ug/Bottle	0.20	8/28/13 9:30	9/05/13 18:24	EPA 8270D
86-73-7	Fluorene	0.20	U	ug/Bottle	0.20	8/28/13 9:30	9/05/13 18:24	EPA 8270D
193-39-5	Indeno (1,2,3-cd) pyrene	0.20	U	ug/Bottle	0.20	8/28/13 9:30	9/05/13 18:24	EPA 8270D
91-20-3	Naphthalene	0.20	U	ug/Bottle	0.20	8/28/13 9:30	9/05/13 18:24	EPA 8270D
85-01-8	Phenanthrene	0.20	U	ug/Bottle	0.20	8/28/13 9:30	9/05/13 18:24	EPA 8270D

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Project: 13-0391, 35th Avenue Site - Reported by Diana Burdette

Semi Volatile Organics

Project: 13-0391, 35th Avenue Site

Sample ID: IB2 **Lab ID:** E133206-05

Station ID: **Matrix:** Dry Ice Blank

Date Collected: 7/31/13 9:25

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
90-12-0	1-Methylnaphthalene	0.20	U	ug/Bottle	0.20	8/28/13 9:30	9/05/13 18:57	EPA 8270D
91-57-6	2-Methylnaphthalene	0.20	U	ug/Bottle	0.20	8/28/13 9:30	9/05/13 18:57	EPA 8270D
83-32-9	Acenaphthene	0.20	U	ug/Bottle	0.20	8/28/13 9:30	9/05/13 18:57	EPA 8270D
208-96-8	Acenaphthylene	0.20	U	ug/Bottle	0.20	8/28/13 9:30	9/05/13 18:57	EPA 8270D
120-12-7	Anthracene	0.20	U	ug/Bottle	0.20	8/28/13 9:30	9/05/13 18:57	EPA 8270D
56-55-3	Benzo(a)anthracene	0.20	U	ug/Bottle	0.20	8/28/13 9:30	9/05/13 18:57	EPA 8270D
50-32-8	Benzo(a)pyrene	0.20	U	ug/Bottle	0.20	8/28/13 9:30	9/05/13 18:57	EPA 8270D
205-99-2	Benzo(b)fluoranthene	0.20	U	ug/Bottle	0.20	8/28/13 9:30	9/05/13 18:57	EPA 8270D
191-24-2	Benzo(g,h,i)perylene	0.20	U	ug/Bottle	0.20	8/28/13 9:30	9/05/13 18:57	EPA 8270D
207-08-9	Benzo(k)fluoranthene	0.20	U	ug/Bottle	0.20	8/28/13 9:30	9/05/13 18:57	EPA 8270D
218-01-9	Chrysene	0.20	U	ug/Bottle	0.20	8/28/13 9:30	9/05/13 18:57	EPA 8270D
53-70-3	Dibenz(a,h)anthracene	0.20	U	ug/Bottle	0.20	8/28/13 9:30	9/05/13 18:57	EPA 8270D
206-44-0	Fluoranthene	0.20	U	ug/Bottle	0.20	8/28/13 9:30	9/05/13 18:57	EPA 8270D
86-73-7	Fluorene	0.20	U	ug/Bottle	0.20	8/28/13 9:30	9/05/13 18:57	EPA 8270D
193-39-5	Indeno (1,2,3-cd) pyrene	0.20	U	ug/Bottle	0.20	8/28/13 9:30	9/05/13 18:57	EPA 8270D
91-20-3	Naphthalene	0.20	U	ug/Bottle	0.20	8/28/13 9:30	9/05/13 18:57	EPA 8270D
85-01-8	Phenanthrene	0.20	U	ug/Bottle	0.20	8/28/13 9:30	9/05/13 18:57	EPA 8270D

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
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Semi Volatile Organics

Project: 13-0391, 35th Avenue Site

Sample ID: IB3 **Lab ID:** E133206-06

Station ID: **Matrix:** Dry Ice Blank

Date Collected: 8/1/13 10:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
90-12-0	1-Methylnaphthalene	0.20	U	ug/Bottle	0.20	8/28/13 9:30	9/05/13 19:30	EPA 8270D
91-57-6	2-Methylnaphthalene	0.20	U	ug/Bottle	0.20	8/28/13 9:30	9/05/13 19:30	EPA 8270D
83-32-9	Acenaphthene	0.20	U	ug/Bottle	0.20	8/28/13 9:30	9/05/13 19:30	EPA 8270D
208-96-8	Acenaphthylene	0.20	U	ug/Bottle	0.20	8/28/13 9:30	9/05/13 19:30	EPA 8270D
120-12-7	Anthracene	0.20	U	ug/Bottle	0.20	8/28/13 9:30	9/05/13 19:30	EPA 8270D
56-55-3	Benzo(a)anthracene	0.20	U	ug/Bottle	0.20	8/28/13 9:30	9/05/13 19:30	EPA 8270D
50-32-8	Benzo(a)pyrene	0.20	U	ug/Bottle	0.20	8/28/13 9:30	9/05/13 19:30	EPA 8270D
205-99-2	Benzo(b)fluoranthene	0.20	U	ug/Bottle	0.20	8/28/13 9:30	9/05/13 19:30	EPA 8270D
191-24-2	Benzo(g,h,i)perylene	0.20	U	ug/Bottle	0.20	8/28/13 9:30	9/05/13 19:30	EPA 8270D
207-08-9	Benzo(k)fluoranthene	0.20	U	ug/Bottle	0.20	8/28/13 9:30	9/05/13 19:30	EPA 8270D
218-01-9	Chrysene	0.20	U	ug/Bottle	0.20	8/28/13 9:30	9/05/13 19:30	EPA 8270D
53-70-3	Dibenz(a,h)anthracene	0.20	U	ug/Bottle	0.20	8/28/13 9:30	9/05/13 19:30	EPA 8270D
206-44-0	Fluoranthene	0.20	U	ug/Bottle	0.20	8/28/13 9:30	9/05/13 19:30	EPA 8270D
86-73-7	Fluorene	0.20	U	ug/Bottle	0.20	8/28/13 9:30	9/05/13 19:30	EPA 8270D
193-39-5	Indeno (1,2,3-cd) pyrene	0.20	U	ug/Bottle	0.20	8/28/13 9:30	9/05/13 19:30	EPA 8270D
91-20-3	Naphthalene	0.20	U	ug/Bottle	0.20	8/28/13 9:30	9/05/13 19:30	EPA 8270D
85-01-8	Phenanthrene	0.20	U	ug/Bottle	0.20	8/28/13 9:30	9/05/13 19:30	EPA 8270D

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Semi Volatile Organics

Project: 13-0391, 35th Avenue Site

Sample ID: CV0083A-VGUW-CS06 **Lab ID:** E133206-08
Station ID: CV0083VG **Matrix:** Tissue

Date Collected: 7/24/13 8:54

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
90-12-0	1-Methylnaphthalene	0.0068	U	mg/kg	0.0068	8/09/13 10:13	8/27/13 19:43	EPA 8270D
91-57-6	2-Methylnaphthalene	0.0068	U	mg/kg	0.0068	8/09/13 10:13	8/27/13 19:43	EPA 8270D
83-32-9	Acenaphthene	0.0068	U	mg/kg	0.0068	8/09/13 10:13	8/27/13 19:43	EPA 8270D
208-96-8	Acenaphthylene	0.0068	U	mg/kg	0.0068	8/09/13 10:13	8/27/13 19:43	EPA 8270D
120-12-7	Anthracene	0.0068	U, J, QL-3	mg/kg	0.0068	8/09/13 10:13	8/27/13 19:43	EPA 8270D
56-55-3	Benzo(a)anthracene	0.0068	U	mg/kg	0.0068	8/09/13 10:13	8/27/13 19:43	EPA 8270D
50-32-8	Benzo(a)pyrene	0.0068	U	mg/kg	0.0068	8/09/13 10:13	8/27/13 19:43	EPA 8270D
205-99-2	Benzo(b)fluoranthene	0.0068	U	mg/kg	0.0068	8/09/13 10:13	8/27/13 19:43	EPA 8270D
191-24-2	Benzo(g,h,i)perylene	0.0068	U	mg/kg	0.0068	8/09/13 10:13	8/27/13 19:43	EPA 8270D
207-08-9	Benzo(k)fluoranthene	0.0068	U	mg/kg	0.0068	8/09/13 10:13	8/27/13 19:43	EPA 8270D
218-01-9	Chrysene	0.0068	U	mg/kg	0.0068	8/09/13 10:13	8/27/13 19:43	EPA 8270D
53-70-3	Dibenz(a,h)anthracene	0.0068	U	mg/kg	0.0068	8/09/13 10:13	8/27/13 19:43	EPA 8270D
206-44-0	Fluoranthene	0.0068	U	mg/kg	0.0068	8/09/13 10:13	8/27/13 19:43	EPA 8270D
86-73-7	Fluorene	0.0068	U	mg/kg	0.0068	8/09/13 10:13	8/27/13 19:43	EPA 8270D
193-39-5	Indeno (1,2,3-cd) pyrene	0.0068	U	mg/kg	0.0068	8/09/13 10:13	8/27/13 19:43	EPA 8270D
91-20-3	Naphthalene	0.0068	U	mg/kg	0.0068	8/09/13 10:13	8/27/13 19:43	EPA 8270D
85-01-8	Phenanthrene	0.0068	U	mg/kg	0.0068	8/09/13 10:13	8/27/13 19:43	EPA 8270D
129-00-0	Pyrene	0.0068	U	mg/kg	0.0068	8/09/13 10:13	8/27/13 19:43	EPA 8270D

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Semi Volatile Organics

Project: 13-0391, 35th Avenue Site

Sample ID: CV0083A-VGW-CS06 **Lab ID:** E133206-09
Station ID: CV0083VG **Matrix:** Tissue

Date Collected: 7/24/13 8:54

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
90-12-0	1-Methylnaphthalene	0.0068	U	mg/kg	0.0068	8/09/13 10:13	8/27/13 20:15	EPA 8270D
91-57-6	2-Methylnaphthalene	0.0068	U	mg/kg	0.0068	8/09/13 10:13	8/27/13 20:15	EPA 8270D
83-32-9	Acenaphthene	0.0068	U	mg/kg	0.0068	8/09/13 10:13	8/27/13 20:15	EPA 8270D
208-96-8	Acenaphthylene	0.0068	U	mg/kg	0.0068	8/09/13 10:13	8/27/13 20:15	EPA 8270D
120-12-7	Anthracene	0.0068	U, J, QL-3	mg/kg	0.0068	8/09/13 10:13	8/27/13 20:15	EPA 8270D
56-55-3	Benzo(a)anthracene	0.0068	U	mg/kg	0.0068	8/09/13 10:13	8/27/13 20:15	EPA 8270D
50-32-8	Benzo(a)pyrene	0.0068	U	mg/kg	0.0068	8/09/13 10:13	8/27/13 20:15	EPA 8270D
205-99-2	Benzo(b)fluoranthene	0.0068	U	mg/kg	0.0068	8/09/13 10:13	8/27/13 20:15	EPA 8270D
191-24-2	Benzo(g,h,i)perylene	0.0068	U	mg/kg	0.0068	8/09/13 10:13	8/27/13 20:15	EPA 8270D
207-08-9	Benzo(k)fluoranthene	0.0068	U	mg/kg	0.0068	8/09/13 10:13	8/27/13 20:15	EPA 8270D
218-01-9	Chrysene	0.0068	U	mg/kg	0.0068	8/09/13 10:13	8/27/13 20:15	EPA 8270D
53-70-3	Dibenz(a,h)anthracene	0.0068	U	mg/kg	0.0068	8/09/13 10:13	8/27/13 20:15	EPA 8270D
206-44-0	Fluoranthene	0.0068	U	mg/kg	0.0068	8/09/13 10:13	8/27/13 20:15	EPA 8270D
86-73-7	Fluorene	0.0068	U	mg/kg	0.0068	8/09/13 10:13	8/27/13 20:15	EPA 8270D
193-39-5	Indeno (1,2,3-cd) pyrene	0.0068	U	mg/kg	0.0068	8/09/13 10:13	8/27/13 20:15	EPA 8270D
91-20-3	Naphthalene	0.0068	U	mg/kg	0.0068	8/09/13 10:13	8/27/13 20:15	EPA 8270D
85-01-8	Phenanthrene	0.0068	U	mg/kg	0.0068	8/09/13 10:13	8/27/13 20:15	EPA 8270D
129-00-0	Pyrene	0.0068	U	mg/kg	0.0068	8/09/13 10:13	8/27/13 20:15	EPA 8270D

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Semi Volatile Organics

Project: 13-0391, 35th Avenue Site

Sample ID: CV0083A-VGUW-CS08 **Lab ID:** E133206-10
Station ID: CV0083VG **Matrix:** Tissue

Date Collected: 7/24/13 9:01

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
90-12-0	1-Methylnaphthalene	0.0068	U	mg/kg	0.0068	8/09/13 10:13	8/26/13 21:03	EPA 8270D
91-57-6	2-Methylnaphthalene	0.0068	U	mg/kg	0.0068	8/09/13 10:13	8/26/13 21:03	EPA 8270D
83-32-9	Acenaphthene	0.0068	U	mg/kg	0.0068	8/09/13 10:13	8/26/13 21:03	EPA 8270D
208-96-8	Acenaphthylene	0.0068	U	mg/kg	0.0068	8/09/13 10:13	8/26/13 21:03	EPA 8270D
120-12-7	Anthracene	0.0068	U, J, QL-3	mg/kg	0.0068	8/09/13 10:13	8/26/13 21:03	EPA 8270D
56-55-3	Benzo(a)anthracene	0.0068	U	mg/kg	0.0068	8/09/13 10:13	8/26/13 21:03	EPA 8270D
50-32-8	Benzo(a)pyrene	0.0068	U	mg/kg	0.0068	8/09/13 10:13	8/26/13 21:03	EPA 8270D
205-99-2	Benzo(b)fluoranthene	0.0068	U	mg/kg	0.0068	8/09/13 10:13	8/26/13 21:03	EPA 8270D
191-24-2	Benzo(g,h,i)perylene	0.0068	U	mg/kg	0.0068	8/09/13 10:13	8/26/13 21:03	EPA 8270D
207-08-9	Benzo(k)fluoranthene	0.0068	U	mg/kg	0.0068	8/09/13 10:13	8/26/13 21:03	EPA 8270D
218-01-9	Chrysene	0.0068	U	mg/kg	0.0068	8/09/13 10:13	8/26/13 21:03	EPA 8270D
53-70-3	Dibenz(a,h)anthracene	0.0068	U	mg/kg	0.0068	8/09/13 10:13	8/26/13 21:03	EPA 8270D
206-44-0	Fluoranthene	0.0068	U	mg/kg	0.0068	8/09/13 10:13	8/26/13 21:03	EPA 8270D
86-73-7	Fluorene	0.0068	U	mg/kg	0.0068	8/09/13 10:13	8/26/13 21:03	EPA 8270D
193-39-5	Indeno (1,2,3-cd) pyrene	0.0068	U	mg/kg	0.0068	8/09/13 10:13	8/26/13 21:03	EPA 8270D
91-20-3	Naphthalene	0.0068	U	mg/kg	0.0068	8/09/13 10:13	8/26/13 21:03	EPA 8270D
85-01-8	Phenanthrene	0.0068	U	mg/kg	0.0068	8/09/13 10:13	8/26/13 21:03	EPA 8270D
129-00-0	Pyrene	0.0068	U	mg/kg	0.0068	8/09/13 10:13	8/26/13 21:03	EPA 8270D

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Semi Volatile Organics

Project: 13-0391, 35th Avenue Site

Sample ID: CV0083A-VGW-CS08 **Lab ID:** E133206-11
Station ID: CV0083VG **Matrix:** Tissue

Date Collected: 7/24/13 9:01

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
90-12-0	1-Methylnaphthalene	0.0068	U	mg/kg	0.0068	8/09/13 10:13	8/27/13 10:56	EPA 8270D
91-57-6	2-Methylnaphthalene	0.0068	U	mg/kg	0.0068	8/09/13 10:13	8/27/13 10:56	EPA 8270D
83-32-9	Acenaphthene	0.0068	U	mg/kg	0.0068	8/09/13 10:13	8/27/13 10:56	EPA 8270D
208-96-8	Acenaphthylene	0.0068	U	mg/kg	0.0068	8/09/13 10:13	8/27/13 10:56	EPA 8270D
120-12-7	Anthracene	0.0068	U, J, QL-3	mg/kg	0.0068	8/09/13 10:13	8/27/13 10:56	EPA 8270D
56-55-3	Benzo(a)anthracene	0.0068	U	mg/kg	0.0068	8/09/13 10:13	8/27/13 10:56	EPA 8270D
50-32-8	Benzo(a)pyrene	0.0068	U	mg/kg	0.0068	8/09/13 10:13	8/27/13 10:56	EPA 8270D
205-99-2	Benzo(b)fluoranthene	0.0068	U	mg/kg	0.0068	8/09/13 10:13	8/27/13 10:56	EPA 8270D
191-24-2	Benzo(g,h,i)perylene	0.0068	U	mg/kg	0.0068	8/09/13 10:13	8/27/13 10:56	EPA 8270D
207-08-9	Benzo(k)fluoranthene	0.0068	U	mg/kg	0.0068	8/09/13 10:13	8/27/13 10:56	EPA 8270D
218-01-9	Chrysene	0.0068	U	mg/kg	0.0068	8/09/13 10:13	8/27/13 10:56	EPA 8270D
53-70-3	Dibenz(a,h)anthracene	0.0068	U	mg/kg	0.0068	8/09/13 10:13	8/27/13 10:56	EPA 8270D
206-44-0	Fluoranthene	0.0068	U	mg/kg	0.0068	8/09/13 10:13	8/27/13 10:56	EPA 8270D
86-73-7	Fluorene	0.0068	U	mg/kg	0.0068	8/09/13 10:13	8/27/13 10:56	EPA 8270D
193-39-5	Indeno (1,2,3-cd) pyrene	0.0068	U	mg/kg	0.0068	8/09/13 10:13	8/27/13 10:56	EPA 8270D
91-20-3	Naphthalene	0.0068	U	mg/kg	0.0068	8/09/13 10:13	8/27/13 10:56	EPA 8270D
85-01-8	Phenanthrene	0.0068	U	mg/kg	0.0068	8/09/13 10:13	8/27/13 10:56	EPA 8270D
129-00-0	Pyrene	0.0068	U	mg/kg	0.0068	8/09/13 10:13	8/27/13 10:56	EPA 8270D

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Semi Volatile Organics

Project: 13-0391, 35th Avenue Site

Sample ID: CV0256A-VGUW-CS08 **Lab ID:** E133206-12
Station ID: CV0256VG **Matrix:** Tissue

Date Collected: 7/23/13 11:35

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
90-12-0	1-Methylnaphthalene	0.0068	U	mg/kg	0.0068	8/09/13 10:13	8/26/13 21:37	EPA 8270D
91-57-6	2-Methylnaphthalene	0.0068	U	mg/kg	0.0068	8/09/13 10:13	8/26/13 21:37	EPA 8270D
83-32-9	Acenaphthene	0.0068	U	mg/kg	0.0068	8/09/13 10:13	8/26/13 21:37	EPA 8270D
208-96-8	Acenaphthylene	0.0068	U	mg/kg	0.0068	8/09/13 10:13	8/26/13 21:37	EPA 8270D
120-12-7	Anthracene	0.0068	U, J, QL-3	mg/kg	0.0068	8/09/13 10:13	8/26/13 21:37	EPA 8270D
56-55-3	Benzo(a)anthracene	0.0068	U	mg/kg	0.0068	8/09/13 10:13	8/26/13 21:37	EPA 8270D
50-32-8	Benzo(a)pyrene	0.0068	U	mg/kg	0.0068	8/09/13 10:13	8/26/13 21:37	EPA 8270D
205-99-2	Benzo(b)fluoranthene	0.0068	U	mg/kg	0.0068	8/09/13 10:13	8/26/13 21:37	EPA 8270D
191-24-2	Benzo(g,h,i)perylene	0.0068	U	mg/kg	0.0068	8/09/13 10:13	8/26/13 21:37	EPA 8270D
207-08-9	Benzo(k)fluoranthene	0.0068	U	mg/kg	0.0068	8/09/13 10:13	8/26/13 21:37	EPA 8270D
218-01-9	Chrysene	0.0068	U	mg/kg	0.0068	8/09/13 10:13	8/26/13 21:37	EPA 8270D
53-70-3	Dibenz(a,h)anthracene	0.0068	U	mg/kg	0.0068	8/09/13 10:13	8/26/13 21:37	EPA 8270D
206-44-0	Fluoranthene	0.0068	U	mg/kg	0.0068	8/09/13 10:13	8/26/13 21:37	EPA 8270D
86-73-7	Fluorene	0.0068	U	mg/kg	0.0068	8/09/13 10:13	8/26/13 21:37	EPA 8270D
193-39-5	Indeno (1,2,3-cd) pyrene	0.0068	U	mg/kg	0.0068	8/09/13 10:13	8/26/13 21:37	EPA 8270D
91-20-3	Naphthalene	0.0068	U	mg/kg	0.0068	8/09/13 10:13	8/26/13 21:37	EPA 8270D
85-01-8	Phenanthrene	0.0068	U	mg/kg	0.0068	8/09/13 10:13	8/26/13 21:37	EPA 8270D
129-00-0	Pyrene	0.0068	U	mg/kg	0.0068	8/09/13 10:13	8/26/13 21:37	EPA 8270D

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Semi Volatile Organics

Project: 13-0391, 35th Avenue Site

Sample ID: CV0256A-VGUW-CS08D **Lab ID:** E133206-13
Station ID: CV0256VG **Matrix:** Tissue

Date Collected: 7/23/13 11:35

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
90-12-0	1-Methylnaphthalene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/26/13 22:10	EPA 8270D
91-57-6	2-Methylnaphthalene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/26/13 22:10	EPA 8270D
83-32-9	Acenaphthene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/26/13 22:10	EPA 8270D
208-96-8	Acenaphthylene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/26/13 22:10	EPA 8270D
120-12-7	Anthracene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/26/13 22:10	EPA 8270D
56-55-3	Benzo(a)anthracene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/26/13 22:10	EPA 8270D
50-32-8	Benzo(a)pyrene	0.0068	U, J, QL-3	mg/kg	0.0068	8/12/13 10:03	8/26/13 22:10	EPA 8270D
205-99-2	Benzo(b)fluoranthene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/26/13 22:10	EPA 8270D
191-24-2	Benzo(g,h,i)perylene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/26/13 22:10	EPA 8270D
207-08-9	Benzo(k)fluoranthene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/26/13 22:10	EPA 8270D
218-01-9	Chrysene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/26/13 22:10	EPA 8270D
53-70-3	Dibenz(a,h)anthracene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/26/13 22:10	EPA 8270D
206-44-0	Fluoranthene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/26/13 22:10	EPA 8270D
86-73-7	Fluorene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/26/13 22:10	EPA 8270D
193-39-5	Indeno (1,2,3-cd) pyrene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/26/13 22:10	EPA 8270D
91-20-3	Naphthalene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/26/13 22:10	EPA 8270D
85-01-8	Phenanthrene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/26/13 22:10	EPA 8270D
129-00-0	Pyrene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/26/13 22:10	EPA 8270D

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Semi Volatile Organics

Project: 13-0391, 35th Avenue Site

Sample ID: CV0256A-VGW-CS08 **Lab ID:** E133206-14
Station ID: CV0256VG **Matrix:** Tissue

Date Collected: 7/23/13 11:35

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
90-12-0	1-Methylnaphthalene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 12:36	EPA 8270D
91-57-6	2-Methylnaphthalene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 12:36	EPA 8270D
83-32-9	Acenaphthene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 12:36	EPA 8270D
208-96-8	Acenaphthylene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 12:36	EPA 8270D
120-12-7	Anthracene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 12:36	EPA 8270D
56-55-3	Benzo(a)anthracene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 12:36	EPA 8270D
50-32-8	Benzo(a)pyrene	0.0068	U, J, QL-3	mg/kg	0.0068	8/12/13 10:03	8/27/13 12:36	EPA 8270D
205-99-2	Benzo(b)fluoranthene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 12:36	EPA 8270D
191-24-2	Benzo(g,h,i)perylene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 12:36	EPA 8270D
207-08-9	Benzo(k)fluoranthene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 12:36	EPA 8270D
218-01-9	Chrysene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 12:36	EPA 8270D
53-70-3	Dibenz(a,h)anthracene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 12:36	EPA 8270D
206-44-0	Fluoranthene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 12:36	EPA 8270D
86-73-7	Fluorene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 12:36	EPA 8270D
193-39-5	Indeno (1,2,3-cd) pyrene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 12:36	EPA 8270D
91-20-3	Naphthalene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 12:36	EPA 8270D
85-01-8	Phenanthrene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 12:36	EPA 8270D
129-00-0	Pyrene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 12:36	EPA 8270D

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Semi Volatile Organics

Project: 13-0391, 35th Avenue Site

Sample ID: CV0256A-VGW-CS08D **Lab ID:** E133206-15
Station ID: CV0256VG **Matrix:** Tissue

Date Collected: 7/23/13 11:35

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
90-12-0	1-Methylnaphthalene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 12:03	EPA 8270D
91-57-6	2-Methylnaphthalene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 12:03	EPA 8270D
83-32-9	Acenaphthene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 12:03	EPA 8270D
208-96-8	Acenaphthylene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 12:03	EPA 8270D
120-12-7	Anthracene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 12:03	EPA 8270D
56-55-3	Benzo(a)anthracene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 12:03	EPA 8270D
50-32-8	Benzo(a)pyrene	0.0068	U, J, QL-3	mg/kg	0.0068	8/12/13 10:03	8/27/13 12:03	EPA 8270D
205-99-2	Benzo(b)fluoranthene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 12:03	EPA 8270D
191-24-2	Benzo(g,h,i)perylene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 12:03	EPA 8270D
207-08-9	Benzo(k)fluoranthene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 12:03	EPA 8270D
218-01-9	Chrysene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 12:03	EPA 8270D
53-70-3	Dibenz(a,h)anthracene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 12:03	EPA 8270D
206-44-0	Fluoranthene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 12:03	EPA 8270D
86-73-7	Fluorene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 12:03	EPA 8270D
193-39-5	Indeno (1,2,3-cd) pyrene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 12:03	EPA 8270D
91-20-3	Naphthalene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 12:03	EPA 8270D
85-01-8	Phenanthrene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 12:03	EPA 8270D
129-00-0	Pyrene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 12:03	EPA 8270D

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Project: 13-0391, 35th Avenue Site

Sample ID: CV0256A-VGUW-CS14 **Lab ID:** E133206-16
Station ID: CV0256VG **Matrix:** Tissue

Date Collected: 7/23/13 11:40

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
90-12-0	1-Methylnaphthalene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 13:09	EPA 8270D
91-57-6	2-Methylnaphthalene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 13:09	EPA 8270D
83-32-9	Acenaphthene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 13:09	EPA 8270D
208-96-8	Acenaphthylene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 13:09	EPA 8270D
120-12-7	Anthracene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 13:09	EPA 8270D
56-55-3	Benzo(a)anthracene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 13:09	EPA 8270D
50-32-8	Benzo(a)pyrene	0.0068	U, J, QL-3	mg/kg	0.0068	8/12/13 10:03	8/27/13 13:09	EPA 8270D
205-99-2	Benzo(b)fluoranthene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 13:09	EPA 8270D
191-24-2	Benzo(g,h,i)perylene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 13:09	EPA 8270D
207-08-9	Benzo(k)fluoranthene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 13:09	EPA 8270D
218-01-9	Chrysene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 13:09	EPA 8270D
53-70-3	Dibenz(a,h)anthracene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 13:09	EPA 8270D
206-44-0	Fluoranthene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 13:09	EPA 8270D
86-73-7	Fluorene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 13:09	EPA 8270D
193-39-5	Indeno (1,2,3-cd) pyrene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 13:09	EPA 8270D
91-20-3	Naphthalene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 13:09	EPA 8270D
85-01-8	Phenanthrene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 13:09	EPA 8270D
129-00-0	Pyrene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 13:09	EPA 8270D

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Semi Volatile Organics

Project: 13-0391, 35th Avenue Site

Sample ID: CV0256A-VGW-CS14 **Lab ID:** E133206-17
Station ID: CV0256VG **Matrix:** Tissue

Date Collected: 7/23/13 11:40

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
90-12-0	1-Methylnaphthalene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 11:30	EPA 8270D
91-57-6	2-Methylnaphthalene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 11:30	EPA 8270D
83-32-9	Acenaphthene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 11:30	EPA 8270D
208-96-8	Acenaphthylene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 11:30	EPA 8270D
120-12-7	Anthracene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 11:30	EPA 8270D
56-55-3	Benzo(a)anthracene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 11:30	EPA 8270D
50-32-8	Benzo(a)pyrene	0.0068	U, J, QL-3	mg/kg	0.0068	8/12/13 10:03	8/27/13 11:30	EPA 8270D
205-99-2	Benzo(b)fluoranthene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 11:30	EPA 8270D
191-24-2	Benzo(g,h,i)perylene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 11:30	EPA 8270D
207-08-9	Benzo(k)fluoranthene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 11:30	EPA 8270D
218-01-9	Chrysene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 11:30	EPA 8270D
53-70-3	Dibenz(a,h)anthracene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 11:30	EPA 8270D
206-44-0	Fluoranthene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 11:30	EPA 8270D
86-73-7	Fluorene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 11:30	EPA 8270D
193-39-5	Indeno (1,2,3-cd) pyrene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 11:30	EPA 8270D
91-20-3	Naphthalene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 11:30	EPA 8270D
85-01-8	Phenanthrene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 11:30	EPA 8270D
129-00-0	Pyrene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 11:30	EPA 8270D

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Semi Volatile Organics

Project: 13-0391, 35th Avenue Site

Sample ID: CV0272A-VGW-CS03 **Lab ID:** E133206-18
Station ID: CV0272VG **Matrix:** Tissue

Date Collected: 7/24/13 9:39

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
90-12-0	1-Methylnaphthalene	0.020	U	mg/kg	0.020	8/09/13 10:13	8/29/13 18:06	EPA 8270D
91-57-6	2-Methylnaphthalene	0.020	U	mg/kg	0.020	8/09/13 10:13	8/29/13 18:06	EPA 8270D
83-32-9	Acenaphthene	0.020	U	mg/kg	0.020	8/09/13 10:13	8/29/13 18:06	EPA 8270D
208-96-8	Acenaphthylene	0.020	U	mg/kg	0.020	8/09/13 10:13	8/29/13 18:06	EPA 8270D
120-12-7	Anthracene	0.020	U, J, QL-3	mg/kg	0.020	8/09/13 10:13	8/29/13 18:06	EPA 8270D
56-55-3	Benzo(a)anthracene	0.020	U	mg/kg	0.020	8/09/13 10:13	8/29/13 18:06	EPA 8270D
50-32-8	Benzo(a)pyrene	0.020	U	mg/kg	0.020	8/09/13 10:13	8/29/13 18:06	EPA 8270D
205-99-2	Benzo(b)fluoranthene	0.020	U	mg/kg	0.020	8/09/13 10:13	8/29/13 18:06	EPA 8270D
191-24-2	Benzo(g,h,i)perylene	0.020	U	mg/kg	0.020	8/09/13 10:13	8/29/13 18:06	EPA 8270D
207-08-9	Benzo(k)fluoranthene	0.020	U	mg/kg	0.020	8/09/13 10:13	8/29/13 18:06	EPA 8270D
218-01-9	Chrysene	0.020	U	mg/kg	0.020	8/09/13 10:13	8/29/13 18:06	EPA 8270D
53-70-3	Dibenz(a,h)anthracene	0.020	U	mg/kg	0.020	8/09/13 10:13	8/29/13 18:06	EPA 8270D
206-44-0	Fluoranthene	0.020	U	mg/kg	0.020	8/09/13 10:13	8/29/13 18:06	EPA 8270D
86-73-7	Fluorene	0.020	U	mg/kg	0.020	8/09/13 10:13	8/29/13 18:06	EPA 8270D
193-39-5	Indeno (1,2,3-cd) pyrene	0.020	U	mg/kg	0.020	8/09/13 10:13	8/29/13 18:06	EPA 8270D
91-20-3	Naphthalene	0.020	U	mg/kg	0.020	8/09/13 10:13	8/29/13 18:06	EPA 8270D
85-01-8	Phenanthrene	0.020	U	mg/kg	0.020	8/09/13 10:13	8/29/13 18:06	EPA 8270D
129-00-0	Pyrene	0.020	U	mg/kg	0.020	8/09/13 10:13	8/29/13 18:06	EPA 8270D

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Semi Volatile Organics

Project: 13-0391, 35th Avenue Site

Sample ID: CV0272A-VGW-CS06 **Lab ID:** E133206-19
Station ID: CV0272VG **Matrix:** Tissue

Date Collected: 7/24/13 9:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
90-12-0	1-Methylnaphthalene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 13:43	EPA 8270D
91-57-6	2-Methylnaphthalene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 13:43	EPA 8270D
83-32-9	Acenaphthene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 13:43	EPA 8270D
208-96-8	Acenaphthylene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 13:43	EPA 8270D
120-12-7	Anthracene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 13:43	EPA 8270D
56-55-3	Benzo(a)anthracene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 13:43	EPA 8270D
50-32-8	Benzo(a)pyrene	0.0068	U, J, QL-3	mg/kg	0.0068	8/12/13 10:03	8/27/13 13:43	EPA 8270D
205-99-2	Benzo(b)fluoranthene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 13:43	EPA 8270D
191-24-2	Benzo(g,h,i)perylene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 13:43	EPA 8270D
207-08-9	Benzo(k)fluoranthene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 13:43	EPA 8270D
218-01-9	Chrysene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 13:43	EPA 8270D
53-70-3	Dibenz(a,h)anthracene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 13:43	EPA 8270D
206-44-0	Fluoranthene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 13:43	EPA 8270D
86-73-7	Fluorene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 13:43	EPA 8270D
193-39-5	Indeno (1,2,3-cd) pyrene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 13:43	EPA 8270D
91-20-3	Naphthalene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 13:43	EPA 8270D
85-01-8	Phenanthrene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 13:43	EPA 8270D
129-00-0	Pyrene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 13:43	EPA 8270D

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Semi Volatile Organics

Project: 13-0391, 35th Avenue Site

Sample ID: CV0827A-VGUW-CS03 **Lab ID:** E133206-21
Station ID: CV0827VG **Matrix:** Tissue

Date Collected: 7/23/13 9:41

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
90-12-0	1-Methylnaphthalene	0.020	U	mg/kg	0.020	8/12/13 10:03	8/29/13 17:03	EPA 8270D
91-57-6	2-Methylnaphthalene	0.020	U	mg/kg	0.020	8/12/13 10:03	8/29/13 17:03	EPA 8270D
83-32-9	Acenaphthene	0.020	U	mg/kg	0.020	8/12/13 10:03	8/29/13 17:03	EPA 8270D
208-96-8	Acenaphthylene	0.020	U	mg/kg	0.020	8/12/13 10:03	8/29/13 17:03	EPA 8270D
120-12-7	Anthracene	0.020	U	mg/kg	0.020	8/12/13 10:03	8/29/13 17:03	EPA 8270D
56-55-3	Benzo(a)anthracene	0.020	U	mg/kg	0.020	8/12/13 10:03	8/29/13 17:03	EPA 8270D
50-32-8	Benzo(a)pyrene	0.020	U, J, QL-3	mg/kg	0.020	8/12/13 10:03	8/29/13 17:03	EPA 8270D
205-99-2	Benzo(b)fluoranthene	0.020	U	mg/kg	0.020	8/12/13 10:03	8/29/13 17:03	EPA 8270D
191-24-2	Benzo(g,h,i)perylene	0.020	U	mg/kg	0.020	8/12/13 10:03	8/29/13 17:03	EPA 8270D
207-08-9	Benzo(k)fluoranthene	0.020	U	mg/kg	0.020	8/12/13 10:03	8/29/13 17:03	EPA 8270D
218-01-9	Chrysene	0.020	U	mg/kg	0.020	8/12/13 10:03	8/29/13 17:03	EPA 8270D
53-70-3	Dibenz(a,h)anthracene	0.020	U	mg/kg	0.020	8/12/13 10:03	8/29/13 17:03	EPA 8270D
206-44-0	Fluoranthene	0.020	U	mg/kg	0.020	8/12/13 10:03	8/29/13 17:03	EPA 8270D
86-73-7	Fluorene	0.020	U	mg/kg	0.020	8/12/13 10:03	8/29/13 17:03	EPA 8270D
193-39-5	Indeno (1,2,3-cd) pyrene	0.020	U	mg/kg	0.020	8/12/13 10:03	8/29/13 17:03	EPA 8270D
91-20-3	Naphthalene	0.020	U	mg/kg	0.020	8/12/13 10:03	8/29/13 17:03	EPA 8270D
85-01-8	Phenanthrene	0.020	U	mg/kg	0.020	8/12/13 10:03	8/29/13 17:03	EPA 8270D
129-00-0	Pyrene	0.020	U	mg/kg	0.020	8/12/13 10:03	8/29/13 17:03	EPA 8270D

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Semi Volatile Organics

Project: 13-0391, 35th Avenue Site

Sample ID: CV0827A-VGW-CS03 **Lab ID:** E133206-22
Station ID: CV0827VG **Matrix:** Tissue

Date Collected: 7/23/13 9:41

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
90-12-0	1-Methylnaphthalene	0.020	U	mg/kg	0.020	8/12/13 10:03	8/29/13 17:34	EPA 8270D
91-57-6	2-Methylnaphthalene	0.020	U	mg/kg	0.020	8/12/13 10:03	8/29/13 17:34	EPA 8270D
83-32-9	Acenaphthene	0.020	U	mg/kg	0.020	8/12/13 10:03	8/29/13 17:34	EPA 8270D
208-96-8	Acenaphthylene	0.020	U	mg/kg	0.020	8/12/13 10:03	8/29/13 17:34	EPA 8270D
120-12-7	Anthracene	0.020	U	mg/kg	0.020	8/12/13 10:03	8/29/13 17:34	EPA 8270D
56-55-3	Benzo(a)anthracene	0.020	U	mg/kg	0.020	8/12/13 10:03	8/29/13 17:34	EPA 8270D
50-32-8	Benzo(a)pyrene	0.020	U, J, QL-3	mg/kg	0.020	8/12/13 10:03	8/29/13 17:34	EPA 8270D
205-99-2	Benzo(b)fluoranthene	0.020	U	mg/kg	0.020	8/12/13 10:03	8/29/13 17:34	EPA 8270D
191-24-2	Benzo(g,h,i)perylene	0.020	U	mg/kg	0.020	8/12/13 10:03	8/29/13 17:34	EPA 8270D
207-08-9	Benzo(k)fluoranthene	0.020	U	mg/kg	0.020	8/12/13 10:03	8/29/13 17:34	EPA 8270D
218-01-9	Chrysene	0.020	U	mg/kg	0.020	8/12/13 10:03	8/29/13 17:34	EPA 8270D
53-70-3	Dibenz(a,h)anthracene	0.020	U	mg/kg	0.020	8/12/13 10:03	8/29/13 17:34	EPA 8270D
206-44-0	Fluoranthene	0.020	U	mg/kg	0.020	8/12/13 10:03	8/29/13 17:34	EPA 8270D
86-73-7	Fluorene	0.020	U	mg/kg	0.020	8/12/13 10:03	8/29/13 17:34	EPA 8270D
193-39-5	Indeno (1,2,3-cd) pyrene	0.020	U	mg/kg	0.020	8/12/13 10:03	8/29/13 17:34	EPA 8270D
91-20-3	Naphthalene	0.020	U	mg/kg	0.020	8/12/13 10:03	8/29/13 17:34	EPA 8270D
85-01-8	Phenanthrene	0.020	U	mg/kg	0.020	8/12/13 10:03	8/29/13 17:34	EPA 8270D
129-00-0	Pyrene	0.020	U	mg/kg	0.020	8/12/13 10:03	8/29/13 17:34	EPA 8270D

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Semi Volatile Organics

Project: 13-0391, 35th Avenue Site

Sample ID: CV0827A-VGUW-CS06 **Lab ID:** E133206-24
Station ID: CV0827VG **Matrix:** Tissue

Date Collected: 7/23/13 9:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
90-12-0	1-Methylnaphthalene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 14:16	EPA 8270D
91-57-6	2-Methylnaphthalene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 14:16	EPA 8270D
83-32-9	Acenaphthene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 14:16	EPA 8270D
208-96-8	Acenaphthylene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 14:16	EPA 8270D
120-12-7	Anthracene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 14:16	EPA 8270D
56-55-3	Benzo(a)anthracene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 14:16	EPA 8270D
50-32-8	Benzo(a)pyrene	0.0068	U, J, QL-3	mg/kg	0.0068	8/12/13 10:03	8/27/13 14:16	EPA 8270D
205-99-2	Benzo(b)fluoranthene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 14:16	EPA 8270D
191-24-2	Benzo(g,h,i)perylene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 14:16	EPA 8270D
207-08-9	Benzo(k)fluoranthene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 14:16	EPA 8270D
218-01-9	Chrysene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 14:16	EPA 8270D
53-70-3	Dibenz(a,h)anthracene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 14:16	EPA 8270D
206-44-0	Fluoranthene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 14:16	EPA 8270D
86-73-7	Fluorene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 14:16	EPA 8270D
193-39-5	Indeno (1,2,3-cd) pyrene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 14:16	EPA 8270D
91-20-3	Naphthalene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 14:16	EPA 8270D
85-01-8	Phenanthrene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 14:16	EPA 8270D
129-00-0	Pyrene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 14:16	EPA 8270D

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Project: 13-0391, 35th Avenue Site

Sample ID: CV0827A-VGW-CS06 **Lab ID:** E133206-25
Station ID: CV0827VG **Matrix:** Tissue

Date Collected: 7/23/13 9:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
90-12-0	1-Methylnaphthalene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 14:48	EPA 8270D
91-57-6	2-Methylnaphthalene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 14:48	EPA 8270D
83-32-9	Acenaphthene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 14:48	EPA 8270D
208-96-8	Acenaphthylene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 14:48	EPA 8270D
120-12-7	Anthracene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 14:48	EPA 8270D
56-55-3	Benzo(a)anthracene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 14:48	EPA 8270D
50-32-8	Benzo(a)pyrene	0.0068	U, J, QL-3	mg/kg	0.0068	8/12/13 10:03	8/27/13 14:48	EPA 8270D
205-99-2	Benzo(b)fluoranthene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 14:48	EPA 8270D
191-24-2	Benzo(g,h,i)perylene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 14:48	EPA 8270D
207-08-9	Benzo(k)fluoranthene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 14:48	EPA 8270D
218-01-9	Chrysene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 14:48	EPA 8270D
53-70-3	Dibenz(a,h)anthracene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 14:48	EPA 8270D
206-44-0	Fluoranthene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 14:48	EPA 8270D
86-73-7	Fluorene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 14:48	EPA 8270D
193-39-5	Indeno (1,2,3-cd) pyrene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 14:48	EPA 8270D
91-20-3	Naphthalene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 14:48	EPA 8270D
85-01-8	Phenanthrene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 14:48	EPA 8270D
129-00-0	Pyrene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 14:48	EPA 8270D

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Semi Volatile Organics

Project: 13-0391, 35th Avenue Site

Sample ID: HP0306A-VGUW-CS06 **Lab ID:** E133206-27
Station ID: HP0306VG **Matrix:** Tissue

Date Collected: 7/23/13 10:55

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
90-12-0	1-Methylnaphthalene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 18:03	EPA 8270D
91-57-6	2-Methylnaphthalene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 18:03	EPA 8270D
83-32-9	Acenaphthene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 18:03	EPA 8270D
208-96-8	Acenaphthylene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 18:03	EPA 8270D
120-12-7	Anthracene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 18:03	EPA 8270D
56-55-3	Benzo(a)anthracene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 18:03	EPA 8270D
50-32-8	Benzo(a)pyrene	0.0068	U, J, QL-3	mg/kg	0.0068	8/12/13 10:03	8/27/13 18:03	EPA 8270D
205-99-2	Benzo(b)fluoranthene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 18:03	EPA 8270D
191-24-2	Benzo(g,h,i)perylene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 18:03	EPA 8270D
207-08-9	Benzo(k)fluoranthene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 18:03	EPA 8270D
218-01-9	Chrysene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 18:03	EPA 8270D
53-70-3	Dibenz(a,h)anthracene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 18:03	EPA 8270D
206-44-0	Fluoranthene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 18:03	EPA 8270D
86-73-7	Fluorene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 18:03	EPA 8270D
193-39-5	Indeno (1,2,3-cd) pyrene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 18:03	EPA 8270D
91-20-3	Naphthalene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 18:03	EPA 8270D
85-01-8	Phenanthrene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 18:03	EPA 8270D
129-00-0	Pyrene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 18:03	EPA 8270D

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Semi Volatile Organics

Project: 13-0391, 35th Avenue Site

Sample ID: HP0306A-VGUW-CS06D **Lab ID:** E133206-28
Station ID: HP0306VG **Matrix:** Tissue

Date Collected: 7/23/13 10:55

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
90-12-0	1-Methylnaphthalene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 18:37	EPA 8270D
91-57-6	2-Methylnaphthalene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 18:37	EPA 8270D
83-32-9	Acenaphthene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 18:37	EPA 8270D
208-96-8	Acenaphthylene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 18:37	EPA 8270D
120-12-7	Anthracene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 18:37	EPA 8270D
56-55-3	Benzo(a)anthracene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 18:37	EPA 8270D
50-32-8	Benzo(a)pyrene	0.0068	U, J, QL-3	mg/kg	0.0068	8/12/13 10:03	8/27/13 18:37	EPA 8270D
205-99-2	Benzo(b)fluoranthene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 18:37	EPA 8270D
191-24-2	Benzo(g,h,i)perylene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 18:37	EPA 8270D
207-08-9	Benzo(k)fluoranthene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 18:37	EPA 8270D
218-01-9	Chrysene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 18:37	EPA 8270D
53-70-3	Dibenz(a,h)anthracene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 18:37	EPA 8270D
206-44-0	Fluoranthene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 18:37	EPA 8270D
86-73-7	Fluorene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 18:37	EPA 8270D
193-39-5	Indeno (1,2,3-cd) pyrene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 18:37	EPA 8270D
91-20-3	Naphthalene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 18:37	EPA 8270D
85-01-8	Phenanthrene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 18:37	EPA 8270D
129-00-0	Pyrene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 18:37	EPA 8270D

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 13-0391
Project: 13-0391, 35th Avenue Site - Reported by Diana Burdette

Semi Volatile Organics

Project: 13-0391, 35th Avenue Site

Sample ID: HP0306A-VGW-CS06 **Lab ID:** E133206-29
Station ID: HP0306VG **Matrix:** Tissue

Date Collected: 7/23/13 10:55

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
90-12-0	1-Methylnaphthalene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 19:10	EPA 8270D
91-57-6	2-Methylnaphthalene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 19:10	EPA 8270D
83-32-9	Acenaphthene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 19:10	EPA 8270D
208-96-8	Acenaphthylene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 19:10	EPA 8270D
120-12-7	Anthracene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 19:10	EPA 8270D
56-55-3	Benzo(a)anthracene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 19:10	EPA 8270D
50-32-8	Benzo(a)pyrene	0.0068	U, J, QL-3	mg/kg	0.0068	8/12/13 10:03	8/27/13 19:10	EPA 8270D
205-99-2	Benzo(b)fluoranthene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 19:10	EPA 8270D
191-24-2	Benzo(g,h,i)perylene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 19:10	EPA 8270D
207-08-9	Benzo(k)fluoranthene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 19:10	EPA 8270D
218-01-9	Chrysene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 19:10	EPA 8270D
53-70-3	Dibenz(a,h)anthracene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 19:10	EPA 8270D
206-44-0	Fluoranthene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 19:10	EPA 8270D
86-73-7	Fluorene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 19:10	EPA 8270D
193-39-5	Indeno (1,2,3-cd) pyrene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 19:10	EPA 8270D
91-20-3	Naphthalene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 19:10	EPA 8270D
85-01-8	Phenanthrene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 19:10	EPA 8270D
129-00-0	Pyrene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 19:10	EPA 8270D

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Region 4 Science and Ecosystem Support Division
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Project: 13-0391, 35th Avenue Site - Reported by Diana Burdette

Semi Volatile Organics

Project: 13-0391, 35th Avenue Site

Sample ID: HP0306A-VGW-CS06D **Lab ID:** E133206-30
Station ID: HP0306VG **Matrix:** Tissue

Date Collected: 7/23/13 10:55

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
90-12-0	1-Methylnaphthalene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 17:31	EPA 8270D
91-57-6	2-Methylnaphthalene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 17:31	EPA 8270D
83-32-9	Acenaphthene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 17:31	EPA 8270D
208-96-8	Acenaphthylene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 17:31	EPA 8270D
120-12-7	Anthracene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 17:31	EPA 8270D
56-55-3	Benzo(a)anthracene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 17:31	EPA 8270D
50-32-8	Benzo(a)pyrene	0.0068	U, J, QL-3	mg/kg	0.0068	8/12/13 10:03	8/27/13 17:31	EPA 8270D
205-99-2	Benzo(b)fluoranthene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 17:31	EPA 8270D
191-24-2	Benzo(g,h,i)perylene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 17:31	EPA 8270D
207-08-9	Benzo(k)fluoranthene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 17:31	EPA 8270D
218-01-9	Chrysene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 17:31	EPA 8270D
53-70-3	Dibenz(a,h)anthracene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 17:31	EPA 8270D
206-44-0	Fluoranthene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 17:31	EPA 8270D
86-73-7	Fluorene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 17:31	EPA 8270D
193-39-5	Indeno (1,2,3-cd) pyrene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 17:31	EPA 8270D
91-20-3	Naphthalene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 17:31	EPA 8270D
85-01-8	Phenanthrene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 17:31	EPA 8270D
129-00-0	Pyrene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 17:31	EPA 8270D

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Semi Volatile Organics

Project: 13-0391, 35th Avenue Site

Sample ID: HP0306A-VGUW-GS13 **Lab ID:** E133206-32
Station ID: HP0306VG **Matrix:** Tissue

Date Collected: 7/23/13 10:46

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
90-12-0	1-Methylnaphthalene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 15:20	EPA 8270D
91-57-6	2-Methylnaphthalene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 15:20	EPA 8270D
83-32-9	Acenaphthene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 15:20	EPA 8270D
208-96-8	Acenaphthylene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 15:20	EPA 8270D
120-12-7	Anthracene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 15:20	EPA 8270D
56-55-3	Benzo(a)anthracene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 15:20	EPA 8270D
50-32-8	Benzo(a)pyrene	0.0068	U, J, QL-3	mg/kg	0.0068	8/12/13 10:03	8/27/13 15:20	EPA 8270D
205-99-2	Benzo(b)fluoranthene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 15:20	EPA 8270D
191-24-2	Benzo(g,h,i)perylene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 15:20	EPA 8270D
207-08-9	Benzo(k)fluoranthene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 15:20	EPA 8270D
218-01-9	Chrysene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 15:20	EPA 8270D
53-70-3	Dibenz(a,h)anthracene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 15:20	EPA 8270D
206-44-0	Fluoranthene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 15:20	EPA 8270D
86-73-7	Fluorene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 15:20	EPA 8270D
193-39-5	Indeno (1,2,3-cd) pyrene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 15:20	EPA 8270D
91-20-3	Naphthalene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 15:20	EPA 8270D
85-01-8	Phenanthrene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 15:20	EPA 8270D
129-00-0	Pyrene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 15:20	EPA 8270D

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980 College Station Road, Athens, Georgia 30605-2700
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Semi Volatile Organics

Project: 13-0391, 35th Avenue Site

Sample ID: HP0306A-VGUW-GS13D **Lab ID:** E133206-33
Station ID: HP0306VG **Matrix:** Tissue

Date Collected: 7/23/13 10:46

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
90-12-0	1-Methylnaphthalene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 15:52	EPA 8270D
91-57-6	2-Methylnaphthalene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 15:52	EPA 8270D
83-32-9	Acenaphthene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 15:52	EPA 8270D
208-96-8	Acenaphthylene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 15:52	EPA 8270D
120-12-7	Anthracene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 15:52	EPA 8270D
56-55-3	Benzo(a)anthracene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 15:52	EPA 8270D
50-32-8	Benzo(a)pyrene	0.0068	U, J, QL-3	mg/kg	0.0068	8/12/13 10:03	8/27/13 15:52	EPA 8270D
205-99-2	Benzo(b)fluoranthene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 15:52	EPA 8270D
191-24-2	Benzo(g,h,i)perylene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 15:52	EPA 8270D
207-08-9	Benzo(k)fluoranthene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 15:52	EPA 8270D
218-01-9	Chrysene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 15:52	EPA 8270D
53-70-3	Dibenz(a,h)anthracene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 15:52	EPA 8270D
206-44-0	Fluoranthene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 15:52	EPA 8270D
86-73-7	Fluorene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 15:52	EPA 8270D
193-39-5	Indeno (1,2,3-cd) pyrene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 15:52	EPA 8270D
91-20-3	Naphthalene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 15:52	EPA 8270D
85-01-8	Phenanthrene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 15:52	EPA 8270D
129-00-0	Pyrene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 15:52	EPA 8270D

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Semi Volatile Organics

Project: 13-0391, 35th Avenue Site

Sample ID: HP0306A-VGW-GS13 **Lab ID:** E133206-34
Station ID: HP0306VG **Matrix:** Tissue

Date Collected: 7/23/13 10:46

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
90-12-0	1-Methylnaphthalene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 16:26	EPA 8270D
91-57-6	2-Methylnaphthalene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 16:26	EPA 8270D
83-32-9	Acenaphthene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 16:26	EPA 8270D
208-96-8	Acenaphthylene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 16:26	EPA 8270D
120-12-7	Anthracene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 16:26	EPA 8270D
56-55-3	Benzo(a)anthracene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 16:26	EPA 8270D
50-32-8	Benzo(a)pyrene	0.0068	U, J, QL-3	mg/kg	0.0068	8/12/13 10:03	8/27/13 16:26	EPA 8270D
205-99-2	Benzo(b)fluoranthene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 16:26	EPA 8270D
191-24-2	Benzo(g,h,i)perylene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 16:26	EPA 8270D
207-08-9	Benzo(k)fluoranthene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 16:26	EPA 8270D
218-01-9	Chrysene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 16:26	EPA 8270D
53-70-3	Dibenz(a,h)anthracene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 16:26	EPA 8270D
206-44-0	Fluoranthene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 16:26	EPA 8270D
86-73-7	Fluorene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 16:26	EPA 8270D
193-39-5	Indeno (1,2,3-cd) pyrene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 16:26	EPA 8270D
91-20-3	Naphthalene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 16:26	EPA 8270D
85-01-8	Phenanthrene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 16:26	EPA 8270D
129-00-0	Pyrene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 16:26	EPA 8270D

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Semi Volatile Organics

Project: 13-0391, 35th Avenue Site

Sample ID: HP0306A-VGW-GS13D **Lab ID:** E133206-35
Station ID: HP0306VG **Matrix:** Tissue

Date Collected: 7/23/13 10:46

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
90-12-0	1-Methylnaphthalene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 16:58	EPA 8270D
91-57-6	2-Methylnaphthalene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 16:58	EPA 8270D
83-32-9	Acenaphthene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 16:58	EPA 8270D
208-96-8	Acenaphthylene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 16:58	EPA 8270D
120-12-7	Anthracene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 16:58	EPA 8270D
56-55-3	Benzo(a)anthracene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 16:58	EPA 8270D
50-32-8	Benzo(a)pyrene	0.0068	U, J, QL-3	mg/kg	0.0068	8/12/13 10:03	8/27/13 16:58	EPA 8270D
205-99-2	Benzo(b)fluoranthene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 16:58	EPA 8270D
191-24-2	Benzo(g,h,i)perylene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 16:58	EPA 8270D
207-08-9	Benzo(k)fluoranthene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 16:58	EPA 8270D
218-01-9	Chrysene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 16:58	EPA 8270D
53-70-3	Dibenz(a,h)anthracene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 16:58	EPA 8270D
206-44-0	Fluoranthene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 16:58	EPA 8270D
86-73-7	Fluorene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 16:58	EPA 8270D
193-39-5	Indeno (1,2,3-cd) pyrene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 16:58	EPA 8270D
91-20-3	Naphthalene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 16:58	EPA 8270D
85-01-8	Phenanthrene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 16:58	EPA 8270D
129-00-0	Pyrene	0.0068	U	mg/kg	0.0068	8/12/13 10:03	8/27/13 16:58	EPA 8270D

Semi Volatile Organics (SVOA) - Quality Control

US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1308042 - E 3550 Tissue										
Blank (1308042-BLK1)				Prepared: 08/09/13 Analyzed: 08/26/13						
EPA 8270D										
1-Methylnaphthalene	U	0.0067	mg/kg							U
2-Methylnaphthalene	U	0.0067	"							U
Naphthalene	U	0.0067	"							U
Acenaphthylene	U	0.0067	"							U
Acenaphthene	U	0.0067	"							U
Fluorene	U	0.0067	"							U
Phenanthrene	U	0.0067	"							U
Anthracene	U	0.0067	"							U
Fluoranthene	U	0.0067	"							U
Pyrene	U	0.0067	"							U
Benzo(a)anthracene	U	0.0067	"							U
Chrysene	U	0.0067	"							U
Benzo(b)fluoranthene	U	0.0067	"							U
Benzo(k)fluoranthene	U	0.0067	"							U
Benzo(a)pyrene	U	0.0067	"							U
Indeno (1,2,3-cd) pyrene	U	0.0067	"							U
Dibenz(a,h)anthracene	U	0.0067	"							U
Benzo(g,h,i)perylene	U	0.0067	"							U
LCS (1308042-BS1)				Prepared: 08/09/13 Analyzed: 08/26/13						
EPA 8270D										
1-Methylnaphthalene	0.025718	0.0067	mg/kg	0.033400		77.0	54-88			
2-Methylnaphthalene	0.026219	0.0067	"	0.033400		78.5	48-104			
Naphthalene	0.028991	0.0067	"	0.033400		86.8	48-85			QL-2
Acenaphthylene	0.026987	0.0067	"	0.033400		80.8	62-90			
Acenaphthene	0.027188	0.0067	"	0.033400		81.4	65-91			
Fluorene	0.027956	0.0067	"	0.033400		83.7	64-106			
Phenanthrene	0.032565	0.0067	"	0.033400		97.5	59-122			
Anthracene	0.020140	0.0067	"	0.033400		60.3	50-103			
Fluoranthene	0.034536	0.0067	"	0.033400		103	65-121			
Pyrene	0.037408	0.0067	"	0.033400		112	69-100			QL-2
Benzo(a)anthracene	0.031096	0.0067	"	0.033400		93.1	65-119			
Chrysene	0.036941	0.0067	"	0.033400		111	70-115			
Benzo(b)fluoranthene	0.035605	0.0067	"	0.033400		107	58-135			
Benzo(k)fluoranthene	0.039078	0.0067	"	0.033400		117	44-156			
Benzo(a)pyrene	0.015999	0.0067	"	0.033400		47.9	40-107			
Indeno (1,2,3-cd) pyrene	0.029526	0.0067	"	0.033400		88.4	60-108			
Dibenz(a,h)anthracene	0.030795	0.0067	"	0.033400		92.2	65-105			
Benzo(g,h,i)perylene	0.030828	0.0067	"	0.033400		92.3	22-90			QL-2

Semi Volatile Organics (SVOA) - Quality Control

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1308042 - E 3550 Tissue										
LCS (1308042-BS1)				Prepared: 08/09/13 Analyzed: 08/26/13						
LCS Dup (1308042-BSD1)				Prepared: 08/09/13 Analyzed: 08/26/13						
EPA 8270D										
1-Methylnaphthalene	0.024382	0.0067	mg/kg	0.033400		73.0	54-88	5.33	22	
2-Methylnaphthalene	0.024883	0.0067	"	0.033400		74.5	48-104	5.23	22	
Naphthalene	0.026854	0.0067	"	0.033400		80.4	48-85	7.66	28	
Acenaphthylene	0.026587	0.0067	"	0.033400		79.6	62-90	1.50	18	
Acenaphthene	0.027422	0.0067	"	0.033400		82.1	65-91	0.856	15	
Fluorene	0.029125	0.0067	"	0.033400		87.2	64-106	4.10	15	
Phenanthrene	0.032565	0.0067	"	0.033400		97.5	59-122	0.00	11	
Anthracene	0.018170	0.0067	"	0.033400		54.4	50-103	10.3	9.6	QL-3
Fluoranthene	0.032799	0.0067	"	0.033400		98.2	65-121	5.16	11	
Pyrene	0.039846	0.0067	"	0.033400		119	69-100	6.31	12	QL-2
Benzo(a)anthracene	0.030027	0.0067	"	0.033400		89.9	65-119	3.50	11	
Chrysene	0.035204	0.0067	"	0.033400		105	70-115	4.81	10	
Benzo(b)fluoranthene	0.032365	0.0067	"	0.033400		96.9	58-135	9.53	18	
Benzo(k)fluoranthene	0.037341	0.0067	"	0.033400		112	44-156	4.55	23	
Benzo(a)pyrene	0.014395	0.0067	"	0.033400		43.1	40-107	10.5	15	
Indeno (1,2,3-cd) pyrene	0.030194	0.0067	"	0.033400		90.4	60-108	2.24	22	
Dibenz(a,h)anthracene	0.029192	0.0067	"	0.033400		87.4	65-105	5.35	16	
Benzo(g,h,i)perylene	0.029960	0.0067	"	0.033400		89.7	22-90	2.86	25	
Matrix Spike (1308042-MS1)		**Source: E133206-11**		Prepared: 08/09/13 Analyzed: 08/27/13						
EPA 8270D										
1-Methylnaphthalene	0.023509	0.0068	mg/kg	0.033875	U	69.4	42-104			
2-Methylnaphthalene	0.022832	0.0068	"	0.033875	U	67.4	42-104			
Naphthalene	0.026524	0.0068	"	0.033875	U	78.3	41-100			
Acenaphthylene	0.027236	0.0068	"	0.033875	U	80.4	44-108			
Acenaphthene	0.027710	0.0068	"	0.033875	U	81.8	48-105			
Fluorene	0.030725	0.0068	"	0.033875	U	90.7	53-105			
Phenanthrene	0.031335	0.0068	"	0.033875	U	92.5	54-110			
Anthracene	0.029438	0.0068	"	0.033875	U	86.9	51-110			
Fluoranthene	0.033130	0.0068	"	0.033875	U	97.8	52-114			
Pyrene	0.039566	0.0068	"	0.033875	U	117	46-130			
Benzo(a)anthracene	0.033401	0.0068	"	0.033875	U	98.6	58-116			
Chrysene	0.033706	0.0068	"	0.033875	U	99.5	52-118			
Benzo(b)fluoranthene	0.038449	0.0068	"	0.033875	U	114	55-111			QM-2
Benzo(k)fluoranthene	0.043801	0.0068	"	0.033875	U	129	44-112			QM-2
Benzo(a)pyrene	0.035129	0.0068	"	0.033875	U	104	56-104			

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1308042 - E 3550 Tissue										
Matrix Spike (1308042-MS1)	**Source: E133206-11**			Prepared: 08/09/13 Analyzed: 08/27/13						
Indeno (1,2,3-cd) pyrene	0.026186	0.0068	mg/kg	0.033875	U	77.3	51-116			
Dibenz(a,h)anthracene	0.026050	0.0068	"	0.033875	U	76.9	50-121			
Benzo(g,h,i)perylene	0.024221	0.0068	"	0.033875	U	71.5	23-86			
MRL Verification (1308042-PS1)				Prepared: 08/09/13 Analyzed: 08/26/13						
EPA 8270D										
1-Methylnaphthalene	0.0053035	0.0067	mg/kg	0.0066711		79.5	34-108			MRL-4, Q-2, J
2-Methylnaphthalene	0.0056037	0.0067	"	0.0066711		84.0	28-124			MRL-4, Q-2, J
Naphthalene	0.0067712	0.0067	"	0.0066711		102	28-105			MRL-4
Acenaphthylene	0.0052368	0.0067	"	0.0066711		78.5	42-110			MRL-4, Q-2, J
Acenaphthene	0.0058706	0.0067	"	0.0066711		88.0	45-111			MRL-4, Q-2, J
Fluorene	0.0060707	0.0067	"	0.0066711		91.0	44-126			MRL-4, Q-2, J
Phenanthrene	0.0069046	0.0067	"	0.0066711		104	39-142			MRL-4
Anthracene	0.0034023	0.0067	"	0.0066711		51.0	30-123			MRL-4, Q-2, J
Fluoranthene	0.0069046	0.0067	"	0.0066711		104	45-141			MRL-4
Pyrene	0.0092061	0.0067	"	0.0066711		138	49-120			MRL-4, QR-2
Benzo(a)anthracene	0.0071047	0.0067	"	0.0066711		106	45-139			MRL-4
Chrysene	0.0073716	0.0067	"	0.0066711		110	50-135			MRL-4
Benzo(b)fluoranthene	0.0067045	0.0067	"	0.0066711		100	38-155			MRL-4
Benzo(k)fluoranthene	0.0070380	0.0067	"	0.0066711		106	24-176			MRL-4
Benzo(a)pyrene	0.0031354	0.0067	"	0.0066711		47.0	20-127			MRL-4, Q-2, J
Indeno (1,2,3-cd) pyrene	0.0053702	0.0067	"	0.0066711		80.5	40-128			MRL-4, Q-2, J
Dibenz(a,h)anthracene	0.0057372	0.0067	"	0.0066711		86.0	45-125			MRL-4, Q-2, J
Benzo(g,h,i)perylene	0.0058706	0.0067	"	0.0066711		88.0	10-110			MRL-4, Q-2, J
Batch 1308052 - E 3550 Tissue										
Blank (1308052-BLK1)				Prepared: 08/12/13 Analyzed: 08/26/13						
EPA 8270D										
1-Methylnaphthalene	U	0.0068	mg/kg							U
2-Methylnaphthalene	U	0.0068	"							U
Naphthalene	U	0.0068	"							U
Acenaphthylene	U	0.0068	"							U

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1308052 - E 3550 Tissue										
Blank (1308052-BLK1)				Prepared: 08/12/13 Analyzed: 08/26/13						
Acenaphthene	U	0.0068	mg/kg							U
Fluorene	U	0.0068	"							U
Phenanthrene	U	0.0068	"							U
Anthracene	U	0.0068	"							U
Fluoranthene	U	0.0068	"							U
Pyrene	U	0.0068	"							U
Benzo(a)anthracene	U	0.0068	"							U
Chrysene	U	0.0068	"							U
Benzo(b)fluoranthene	U	0.0068	"							U
Benzo(k)fluoranthene	U	0.0068	"							U
Benzo(a)pyrene	U	0.0068	"							U
Indeno (1,2,3-cd) pyrene	U	0.0068	"							U
Dibenz(a,h)anthracene	U	0.0068	"							U
Benzo(g,h,i)perylene	U	0.0068	"							U
LCS (1308052-BS1)				Prepared: 08/12/13 Analyzed: 08/26/13						
EPA 8270D										
1-Methylnaphthalene	0.025364	0.0068	mg/kg	0.033864		74.9	54-88			
2-Methylnaphthalene	0.025974	0.0068	"	0.033864		76.7	48-104			
Naphthalene	0.029225	0.0068	"	0.033864		86.3	48-85			QL-2
Acenaphthylene	0.027667	0.0068	"	0.033864		81.7	62-90			
Acenaphthene	0.028107	0.0068	"	0.033864		83.0	65-91			
Fluorene	0.030715	0.0068	"	0.033864		90.7	64-106			
Phenanthrene	0.033153	0.0068	"	0.033864		97.9	59-122			
Anthracene	0.025770	0.0068	"	0.033864		76.1	50-103			
Fluoranthene	0.034406	0.0068	"	0.033864		102	65-121			
Pyrene	0.040501	0.0068	"	0.033864		120	69-100			QL-2
Benzo(a)anthracene	0.033728	0.0068	"	0.033864		99.6	65-119			
Chrysene	0.036844	0.0068	"	0.033864		109	70-115			
Benzo(b)fluoranthene	0.033051	0.0068	"	0.033864		97.6	58-135			
Benzo(k)fluoranthene	0.037115	0.0068	"	0.033864		110	44-156			
Benzo(a)pyrene	0.023739	0.0068	"	0.033864		70.1	40-107			
Indeno (1,2,3-cd) pyrene	0.033322	0.0068	"	0.033864		98.4	60-108			
Dibenz(a,h)anthracene	0.032035	0.0068	"	0.033864		94.6	65-105			
Benzo(g,h,i)perylene	0.030884	0.0068	"	0.033864		91.2	22-90			QL-2

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1308052 - E 3550 Tissue										
LCS Dup (1308052-BSD1)				Prepared: 08/12/13 Analyzed: 08/26/13						
EPA 8270D										
1-Methylnaphthalene	0.025822	0.0068	mg/kg	0.033887		76.2	54-88	1.79	22	
2-Methylnaphthalene	0.026262	0.0068	"	0.033887		77.5	48-104	1.11	22	
Naphthalene	0.029380	0.0068	"	0.033887		86.7	48-85	0.530	28	QL-2
Acenaphthylene	0.027686	0.0068	"	0.033887		81.7	62-90	0.0678	18	
Acenaphthene	0.027279	0.0068	"	0.033887		80.5	65-91	2.99	15	
Fluorene	0.030227	0.0068	"	0.033887		89.2	64-106	1.60	15	
Phenanthrene	0.032328	0.0068	"	0.033887		95.4	59-122	2.52	11	
Anthracene	0.023755	0.0068	"	0.033887		70.1	50-103	8.14	9.6	
Fluoranthene	0.033311	0.0068	"	0.033887		98.3	65-121	3.23	11	
Pyrene	0.039376	0.0068	"	0.033887		116	69-100	2.82	12	QL-2
Benzo(a)anthracene	0.031311	0.0068	"	0.033887		92.4	65-119	7.43	11	
Chrysene	0.035412	0.0068	"	0.033887		104	70-115	3.96	10	
Benzo(b)fluoranthene	0.035886	0.0068	"	0.033887		106	58-135	8.22	18	
Benzo(k)fluoranthene	0.035344	0.0068	"	0.033887		104	44-156	4.89	23	
Benzo(a)pyrene	0.019892	0.0068	"	0.033887		58.7	40-107	17.6	15	QL-3
Indeno (1,2,3-cd) pyrene	0.030701	0.0068	"	0.033887		90.6	60-108	8.19	22	
Dibenz(a,h)anthracene	0.028228	0.0068	"	0.033887		83.3	65-105	12.6	16	
Benzo(g,h,i)perylene	0.029549	0.0068	"	0.033887		87.2	22-90	4.42	25	
Matrix Spike (1308052-MS1)		**Source: E133206-17**		Prepared: 08/12/13 Analyzed: 08/27/13						
EPA 8270D										
1-Methylnaphthalene	0.028060	0.0068	mg/kg	0.033807	U	83.0	42-104			
2-Methylnaphthalene	0.028330	0.0068	"	0.033807	U	83.8	42-104			
Naphthalene	0.031237	0.0068	"	0.033807	U	92.4	41-100			
Acenaphthylene	0.030798	0.0068	"	0.033807	U	91.1	44-108			
Acenaphthene	0.030020	0.0068	"	0.033807	U	88.8	48-105			
Fluorene	0.034077	0.0068	"	0.033807	U	101	53-105			
Phenanthrene	0.033976	0.0068	"	0.033807	U	100	54-110			
Anthracene	0.034652	0.0068	"	0.033807	U	102	51-110			
Fluoranthene	0.037255	0.0068	"	0.033807	U	110	52-114			
Pyrene	0.042630	0.0068	"	0.033807	U	126	46-130			
Benzo(a)anthracene	0.035666	0.0068	"	0.033807	U	106	58-116			
Chrysene	0.036917	0.0068	"	0.033807	U	109	52-118			
Benzo(b)fluoranthene	0.040771	0.0068	"	0.033807	U	121	55-111			QM-2
Benzo(k)fluoranthene	0.038945	0.0068	"	0.033807	U	115	44-112			QM-2
Benzo(a)pyrene	0.036173	0.0068	"	0.033807	U	107	56-104			QM-2
Indeno (1,2,3-cd) pyrene	0.027248	0.0068	"	0.033807	U	80.6	51-116			
Dibenz(a,h)anthracene	0.029581	0.0068	"	0.033807	U	87.5	50-121			
Benzo(g,h,i)perylene	0.022853	0.0068	"	0.033807	U	67.6	23-86			

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1308052 - E 3550 Tissue										
Matrix Spike (1308052-MS1)	**Source: E133206-17**			Prepared: 08/12/13 Analyzed: 08/27/13						
MRL Verification (1308052-PS1)				Prepared: 08/12/13 Analyzed: 08/26/13						
EPA 8270D										
1-Methylnaphthalene	0.0054109	0.0068	mg/kg	0.0067636		80.0	34-108			MRL-4, Q-2, J
2-Methylnaphthalene	0.0053433	0.0068	"	0.0067636		79.0	28-124			MRL-4, Q-2, J
Naphthalene	0.0065269	0.0068	"	0.0067636		96.5	28-105			MRL-4, Q-2, J
Acenaphthylene	0.0059858	0.0068	"	0.0067636		88.5	42-110			MRL-4, Q-2, J
Acenaphthene	0.0056814	0.0068	"	0.0067636		84.0	45-111			MRL-4, Q-2, J
Fluorene	0.0061887	0.0068	"	0.0067636		91.5	44-126			MRL-4, Q-2, J
Phenanthrene	0.0068312	0.0068	"	0.0067636		101	39-142			MRL-4
Anthracene	0.0045654	0.0068	"	0.0067636		67.5	30-123			MRL-4, Q-2, J
Fluoranthene	0.0072371	0.0068	"	0.0067636		107	45-141			MRL-4
Pyrene	0.0080149	0.0068	"	0.0067636		118	49-120			MRL-4
Benzo(a)anthracene	0.0076429	0.0068	"	0.0067636		113	45-139			MRL-4
Chrysene	0.0072032	0.0068	"	0.0067636		106	50-135			MRL-4
Benzo(b)fluoranthene	0.0065269	0.0068	"	0.0067636		96.5	38-155			MRL-4, Q-2, J
Benzo(k)fluoranthene	0.0080149	0.0068	"	0.0067636		118	24-176			MRL-4
Benzo(a)pyrene	0.0037538	0.0068	"	0.0067636		55.5	20-127			MRL-4, Q-2, J
Indeno (1,2,3-cd) pyrene	0.0055800	0.0068	"	0.0067636		82.5	40-128			MRL-4, Q-2, J
Dibenz(a,h)anthracene	0.0050389	0.0068	"	0.0067636		74.5	45-125			MRL-4, Q-2, J
Benzo(g,h,i)perylene	0.0064592	0.0068	"	0.0067636		95.5	10-110			MRL-4, Q-2, J
Batch 1308115 - E 3520 LLE										
Blank (1308115-BLK1)				Prepared: 08/28/13 Analyzed: 09/05/13						
EPA 8270D										
1-Methylnaphthalene	U	0.20	ug/Bottle							U
2-Methylnaphthalene	U	0.20	"							U
Naphthalene	U	0.20	"							U
Acenaphthylene	U	0.20	"							U
Acenaphthene	U	0.20	"							U
Fluorene	U	0.20	"							U

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1308115 - E 3520 LLE										
Blank (1308115-BLK1)				Prepared: 08/28/13 Analyzed: 09/05/13						
Phenanthrene	U	0.20	ug/Bottle							U
Anthracene	U	0.20	"							U
Fluoranthene	U	0.20	"							U
Benzo(a)anthracene	U	0.20	"							U
Chrysene	U	0.20	"							U
Benzo(b)fluoranthene	U	0.20	"							U
Benzo(k)fluoranthene	U	0.20	"							U
Benzo(a)pyrene	U	0.20	"							U
Indeno (1,2,3-cd) pyrene	U	0.20	"							U
Dibenz(a,h)anthracene	U	0.20	"							U
Benzo(g,h,i)perylene	U	0.20	"							U
LCS (1308115-BS1)				Prepared: 08/28/13 Analyzed: 09/05/13						
EPA 8270D										
1-Methylnaphthalene	0.81000	0.20	ug/Bottle	1.0000		81.0	70-130			
2-Methylnaphthalene	0.83900	0.20	"	1.0000		83.9	70-130			
Naphthalene	0.96800	0.20	"	1.0000		96.8	70-130			
Acenaphthylene	0.81200	0.20	"	1.0000		81.2	70-130			
Acenaphthene	0.84700	0.20	"	1.0000		84.7	70-130			
Fluorene	0.87400	0.20	"	1.0000		87.4	70-130			
Phenanthrene	0.91500	0.20	"	1.0000		91.5	70-130			
Anthracene	0.81400	0.20	"	1.0000		81.4	70-130			
Fluoranthene	0.86200	0.20	"	1.0000		86.2	70-130			
Benzo(a)anthracene	0.80700	0.20	"	1.0000		80.7	70-130			
Chrysene	0.83100	0.20	"	1.0000		83.1	70-130			
Benzo(b)fluoranthene	0.81200	0.20	"	1.0000		81.2	70-130			
Benzo(k)fluoranthene	0.77800	0.20	"	1.0000		77.8	70-130			
Benzo(a)pyrene	0.71800	0.20	"	1.0000		71.8	70-130			
Indeno (1,2,3-cd) pyrene	0.79900	0.20	"	1.0000		79.9	70-130			
Dibenz(a,h)anthracene	0.73600	0.20	"	1.0000		73.6	70-130			
Benzo(g,h,i)perylene	0.78800	0.20	"	1.0000		78.8	70-130			

Semi Volatile Organics (SVOA) - Quality Control

US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1308115 - E 3520 LLE										
LCS Dup (1308115-BSD1)				Prepared: 08/28/13 Analyzed: 09/05/13						
EPA 8270D										
1-Methylnaphthalene	0.79900	0.20	ug/Bottle	1.0000		79.9	70-130	1.37	20	
2-Methylnaphthalene	0.81400	0.20	"	1.0000		81.4	70-130	3.02	20	
Naphthalene	0.90900	0.20	"	1.0000		90.9	70-130	6.29	20	
Acenaphthylene	0.74300	0.20	"	1.0000		74.3	70-130	8.87	20	
Acenaphthene	0.84300	0.20	"	1.0000		84.3	70-130	0.473	20	
Fluorene	0.85600	0.20	"	1.0000		85.6	70-130	2.08	20	
Phenanthrene	0.91500	0.20	"	1.0000		91.5	70-130	0.00	20	
Anthracene	0.86700	0.20	"	1.0000		86.7	70-130	6.31	20	
Fluoranthene	0.92900	0.20	"	1.0000		92.9	70-130	7.48	20	
Benzo(a)anthracene	0.87000	0.20	"	1.0000		87.0	70-130	7.51	20	
Chrysene	0.96300	0.20	"	1.0000		96.3	70-130	14.7	20	
Benzo(b)fluoranthene	0.95600	0.20	"	1.0000		95.6	70-130	16.3	20	
Benzo(k)fluoranthene	0.83000	0.20	"	1.0000		83.0	70-130	6.47	20	
Benzo(a)pyrene	0.80700	0.20	"	1.0000		80.7	70-130	11.7	20	
Indeno (1,2,3-cd) pyrene	0.90300	0.20	"	1.0000		90.3	70-130	12.2	20	
Dibenz(a,h)anthracene	0.81700	0.20	"	1.0000		81.7	70-130	10.4	20	
Benzo(g,h,i)perylene	0.92900	0.20	"	1.0000		92.9	70-130	16.4	20	
MRL Verification (1308115-PS1)				Prepared: 08/28/13 Analyzed: 09/06/13						
EPA 8270D										
1-Methylnaphthalene	0.14600	0.20	ug/Bottle	0.20000		73.0	50-150			MRL-2, Q-2, J
2-Methylnaphthalene	0.17400	0.20	"	0.20000		87.0	50-150			MRL-2, Q-2, J
Naphthalene	0.18900	0.20	"	0.20000		94.5	50-150			MRL-2, Q-2, J
Acenaphthylene	0.13900	0.20	"	0.20000		69.5	50-150			MRL-2, Q-2, J
Acenaphthene	0.14400	0.20	"	0.20000		72.0	50-150			MRL-2, Q-2, J
Fluorene	0.15500	0.20	"	0.20000		77.5	50-150			MRL-2, Q-2, J
Phenanthrene	0.18400	0.20	"	0.20000		92.0	50-150			MRL-2, Q-2, J
Anthracene	0.15500	0.20	"	0.20000		77.5	50-150			MRL-2, Q-2, J
Fluoranthene	0.16400	0.20	"	0.20000		82.0	50-150			MRL-2, Q-2, J
Benzo(a)anthracene	0.18700	0.20	"	0.20000		93.5	50-150			MRL-2, Q-2, J
Chrysene	0.17000	0.20	"	0.20000		85.0	50-150			MRL-2, Q-2, J

Semi Volatile Organics (SVOA) - Quality Control

US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1308115 - E 3520 LLE										
MRL Verification (1308115-PS1)				Prepared: 08/28/13 Analyzed: 09/06/13						
Benzo(b)fluoranthene	0.14900	0.20	ug/Bottle	0.20000		74.5	50-150			MRL-2, Q-2, J
Benzo(k)fluoranthene	0.13900	0.20	"	0.20000		69.5	50-150			MRL-2, Q-2, J
Benzo(a)pyrene	0.12600	0.20	"	0.20000		63.0	50-150			MRL-2, Q-2, J
Indeno (1,2,3-cd) pyrene	0.13200	0.20	"	0.20000		66.0	50-150			MRL-2, Q-2, J
Dibenz(a,h)anthracene	0.12900	0.20	"	0.20000		64.5	50-150			MRL-2, Q-2, J
Benzo(g,h,i)perylene	0.17800	0.20	"	0.20000		89.0	50-150			MRL-2, Q-2, J

Notes and Definitions for QC Samples

U	The analyte was not detected at or above the reporting limit.
J	The identification of the analyte is acceptable; the reported value is an estimate.
MRL-2	MRL verification for Non-Potable Water matrix
MRL-4	MRL verification for Tissue matrix
Q-2	Result greater than MDL but less than MRL.
QL-2	Laboratory Control Spike Recovery greater than method control limits
QL-3	Laboratory Control Spike Precision outside method control limits
QM-2	Matrix Spike Recovery greater than method control limits
QR-2	MRL verification recovery greater than upper control limits.
T-1	Sample received in cooler with temperature blank greater than 6 degrees C.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
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D.A.R.T. Id: 13-0391
Project: 13-0391, 35th Avenue Site - Reported by Terri White

September 11, 2013

4SESD-ASB

MEMORANDUM

SUBJECT: FINAL Analytical Report
Project: 13-0391, 35th Avenue Site
Superfund Emergency Response and Removal

FROM: Terri White
ASB Inorganic Chemistry Section Chief, Acting

THRU: Gary Bennett, Chief
Analytical Support Branch

TO: Richard Jardine

Attached are the final results for the analytical groups listed below. These analyses were performed in accordance with the Analytical Support Branch's (ASB) Laboratory Operations and Quality Assurance Manual (ASB LOQAM) found at www.epa.gov/region4/sesd/asbsop. Any unique project data quality objectives specified in writing by the data requestor have also been incorporated into the data unless otherwise noted in the Report Narrative. Chemistry data have been verified based on the ASB LOQAM specifications and have been qualified by this laboratory if the applicable quality control criteria were not met. Verification is defined in Section 5.2 of the ASB LOQAM. For a listing of specific data qualifiers and explanations, please refer to the Data Qualifier Definitions included in this report. The reported results are accurate within the limits of the method(s) and are representative only of the samples as received by the laboratory.

Analyses Included in this report:	Method Used:	Accreditations:
Physical Properties (PHYSP)		
Physical Properties	EPA 200.2 (Tissue)	None
Total Metals (TMTL)		
Total Metals	EPA 200.8 (Dry Ice Blank)	None
Total Metals	EPA 200.8 (Tissue)	None

Sample Disposal Policy

Because of the laboratory's limited space for long term sample storage, our policy is to dispose of samples on a periodic schedule. Please note that within 60 days of this memo, the original samples and all sample extracts and/or sample digestates will be disposed of in accordance with applicable regulations. The 60-day sample disposal policy does not apply to criminal samples which are held until the laboratory is notified by the criminal investigators that case development and litigation are complete.

These samples may be held in the laboratory's custody for a longer period of time if you have a special project need. If you wish for the laboratory to hold samples beyond the 60-day period, please contact our Sample Control Coordinator by e-mail at R4SampleCustody@epa.gov, and provide a reason for holding samples beyond 60 days

cc: Nardina Turner

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
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SAMPLES INCLUDED IN THIS REPORT

Project: 13-0391, 35th Avenue Site

Sample ID	Laboratory ID	Matrix	Date Collected	Date Received
EB12	E133206-01	Equipment Rinse Blank	7/31/13 09:30	8/8/13 15:18
EB20	E133206-02	Equipment Rinse Blank	7/29/13 11:45	8/8/13 15:18
EB8	E133206-03	Equipment Rinse Blank	8/1/13 10:20	8/8/13 15:18
IB1	E133206-04	Dry Ice Blank	7/29/13 11:40	8/8/13 15:18
IB2	E133206-05	Dry Ice Blank	7/31/13 09:25	8/8/13 15:18
IB3	E133206-06	Dry Ice Blank	8/1/13 10:15	8/8/13 15:18
CV0083A-VGW-CS03	E133206-07	Tissue	7/24/13 09:06	8/8/13 15:18
CV0083A-VGUW-CS06	E133206-08	Tissue	7/24/13 08:54	8/8/13 15:18
CV0083A-VGW-CS06	E133206-09	Tissue	7/24/13 08:54	8/8/13 15:18
CV0083A-VGUW-CS08	E133206-10	Tissue	7/24/13 09:01	8/8/13 15:18
CV0083A-VGW-CS08	E133206-11	Tissue	7/24/13 09:01	8/8/13 15:18
CV0256A-VGUW-CS08	E133206-12	Tissue	7/23/13 11:35	8/8/13 15:18
CV0256A-VGUW-CS08D	E133206-13	Tissue	7/23/13 11:35	8/8/13 15:18
CV0256A-VGW-CS08	E133206-14	Tissue	7/23/13 11:35	8/8/13 15:18
CV0256A-VGW-CS08D	E133206-15	Tissue	7/23/13 11:35	8/8/13 15:18
CV0256A-VGUW-CS14	E133206-16	Tissue	7/23/13 11:40	8/8/13 15:18
CV0256A-VGW-CS14	E133206-17	Tissue	7/23/13 11:40	8/8/13 15:18
CV0272A-VGW-CS03	E133206-18	Tissue	7/24/13 09:39	8/8/13 15:18
CV0272A-VGW-CS06	E133206-19	Tissue	7/24/13 09:30	8/8/13 15:18
CV0453A-VGW-CS15	E133206-20	Tissue	7/23/13 13:30	8/8/13 15:18
CV0827A-VGUW-CS03	E133206-21	Tissue	7/23/13 09:41	8/8/13 15:18
CV0827A-VGW-CS03	E133206-22	Tissue	7/23/13 09:41	8/8/13 15:18
CV0827A-VGW-CS05	E133206-23	Tissue	7/23/13 09:47	8/8/13 15:18
CV0827A-VGUW-CS06	E133206-24	Tissue	7/23/13 09:45	8/8/13 15:18
CV0827A-VGW-CS06	E133206-25	Tissue	7/23/13 09:45	8/8/13 15:18
CV0827A-VGW-CS09	E133206-26	Tissue	7/23/13 09:45	8/8/13 15:18
HP0306A-VGUW-CS06	E133206-27	Tissue	7/23/13 10:55	8/8/13 15:18
HP0306A-VGUW-CS06D	E133206-28	Tissue	7/23/13 10:55	8/8/13 15:18
HP0306A-VGW-CS06	E133206-29	Tissue	7/23/13 10:55	8/8/13 15:18
HP0306A-VGW-CS06D	E133206-30	Tissue	7/23/13 10:55	8/8/13 15:18
HP0306A-VGW-CS09	E133206-31	Tissue	7/23/13 10:50	8/8/13 15:18
HP0306A-VGUW-GS13	E133206-32	Tissue	7/23/13 10:46	8/8/13 15:18
HP0306A-VGUW-GS13D	E133206-33	Tissue	7/23/13 10:46	8/8/13 15:18
HP0306A-VGW-GS13	E133206-34	Tissue	7/23/13 10:46	8/8/13 15:18

HP0306A-VGW-GS13D	E133206-35	Tissue	7/23/13 10:46	8/8/13 15:18

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DATA QUALIFIER DEFINITIONS

U	The analyte was not detected at or above the reporting limit.
CR	Precision outside of control limit due to initial weights of MS and MSD
J	The identification of the analyte is acceptable; the reported value is an estimate.
QM-3	Matrix Spike Precision outside method control limits

ACRONYMS AND ABBREVIATIONS

CAS Chemical Abstracts Service

Note: Analytes with no known CAS identifiers have been assigned codes beginning with "E", the EPA ID as assigned by the EPA Substance Registry System (www.epa.gov/srs), or beginning with "R4-", a unique identifier assigned by the EPA Region 4 laboratory.

ISO The test, if analyzed after June 26, 2012, is accredited under the EPA Region 4 ASB's ISO/IEC 17025 accreditation issued by ANSI-ASQ National Accreditation Board/ACLASS. Refer to certificate and scope of accreditation AT-1691.

MDL Method Detection Limit - The minimum concentration of a substance (an analyte) that can be measured and reported with a 99% confidence that the analyte concentration is greater than zero.

MRL Minimum Reporting Limit - Analyte concentration that corresponds to the lowest demonstrated level of acceptable quantitation. The MRL is sample-specific and accounts for preparation weights and volumes, dilutions, and moisture content of soil/sediments.

TIC Tentatively Identified Compound - An analyte identified based on a match with the instrument software's mass spectral library. A calibration standard has not been analyzed to confirm the compound's identification or the estimated concentration reported.

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Total Metals

Project: 13-0391, 35th Avenue Site

Sample ID: EB12 **Lab ID:** E133206-01

Station ID: **Matrix:** Equipment Rinse Blank

Date Collected: 7/31/13 9:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	0.20	U	ug/Blank	0.20	8/16/13 10:42	8/21/13 15:00	EPA 200.8
7439-92-1	Lead	0.20	U	ug/Blank	0.20	8/16/13 10:42	8/21/13 15:00	EPA 200.8

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Total Metals

Project: 13-0391, 35th Avenue Site

Sample ID: EB20 **Lab ID:** E133206-02

Station ID: **Matrix:** Equipment Rinse Blank

Date Collected: 7/29/13 11:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	0.20	U	ug/Blank	0.20	8/16/13 10:42	8/21/13 15:04	EPA 200.8
7439-92-1	Lead	0.20	U	ug/Blank	0.20	8/16/13 10:42	8/21/13 15:04	EPA 200.8

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D.A.R.T. Id: 13-0391
Project: 13-0391, 35th Avenue Site - Reported by Terri White

Total Metals

Project: 13-0391, 35th Avenue Site

Sample ID: EB8 **Lab ID:** E133206-03

Station ID: **Matrix:** Equipment Rinse Blank

Date Collected: 8/1/13 10:20

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	0.20	U	ug/Blank	0.20	8/16/13 10:42	8/21/13 15:08	EPA 200.8
7439-92-1	Lead	0.20	U	ug/Blank	0.20	8/16/13 10:42	8/21/13 15:08	EPA 200.8

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Total Metals

Project: 13-0391, 35th Avenue Site

Sample ID: IB1 **Lab ID:** E133206-04

Station ID: **Matrix:** Dry Ice Blank

Date Collected: 7/29/13 11:40

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	0.20	U	ug/Blank	0.20	8/16/13 10:42	8/21/13 15:12	EPA 200.8
7439-92-1	Lead	0.20	U	ug/Blank	0.20	8/16/13 10:42	8/21/13 15:12	EPA 200.8

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Total Metals

Project: 13-0391, 35th Avenue Site

Sample ID: IB2 **Lab ID:** E133206-05

Station ID: **Matrix:** Dry Ice Blank

Date Collected: 7/31/13 9:25

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	0.20	U	ug/Blank	0.20	8/16/13 10:42	8/21/13 15:17	EPA 200.8
7439-92-1	Lead	0.20	U	ug/Blank	0.20	8/16/13 10:42	8/21/13 15:17	EPA 200.8

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Total Metals

Project: 13-0391, 35th Avenue Site

Sample ID: IB3 **Lab ID:** E133206-06

Station ID: **Matrix:** Dry Ice Blank

Date Collected: 8/1/13 10:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	0.20	U	ug/Blank	0.20	8/16/13 10:42	8/21/13 15:20	EPA 200.8
7439-92-1	Lead	0.20	U	ug/Blank	0.20	8/16/13 10:42	8/21/13 15:20	EPA 200.8

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Project: 13-0391, 35th Avenue Site - Reported by Terri White

Total Metals

Project: 13-0391, 35th Avenue Site

Sample ID: CV0083A-VGW-CS03 **Lab ID:** E133206-07
Station ID: CV0083VG **Matrix:** Tissue

Date Collected: 7/24/13 9:06

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	0.081	U	mg/kg	0.081	8/20/13 16:26	8/28/13 15:17	EPA 200.8
7439-92-1	Lead	0.081	U	mg/kg	0.081	8/20/13 16:26	8/28/13 15:17	EPA 200.8

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Project: 13-0391, 35th Avenue Site - Reported by Terri White

Physical Properties

Project: 13-0391, 35th Avenue Site

Sample ID: CV0083A-VGW-CS03 **Lab ID:** E133206-07
Station ID: CV0083VG **Matrix:** Tissue

Date Collected: 7/24/13 9:06

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	91		%	0.0	8/20/13 15:40	8/21/13 10:12	EPA 200.2

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Total Metals

Project: 13-0391, 35th Avenue Site

Sample ID: CV0083A-VGUW-CS06 **Lab ID:** E133206-08
Station ID: CV0083VG **Matrix:** Tissue

Date Collected: 7/24/13 8:54

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	0.089	U	mg/kg	0.089	8/20/13 16:26	8/28/13 15:26	EPA 200.8
7439-92-1	Lead	0.43		mg/kg	0.089	8/20/13 16:26	8/28/13 15:26	EPA 200.8

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Physical Properties

Project: 13-0391, 35th Avenue Site

Sample ID: CV0083A-VGUW-CS06 **Lab ID:** E133206-08
Station ID: CV0083VG **Matrix:** Tissue

Date Collected: 7/24/13 8:54

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	88		%	0.0	8/20/13 15:40	8/21/13 10:12	EPA 200.2

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Total Metals

Project: 13-0391, 35th Avenue Site

Sample ID: CV0083A-VGW-CS06 **Lab ID:** E133206-09

Station ID: CV0083VG **Matrix:** Tissue

Date Collected: 7/24/13 8:54

CAS Number	*Analyte*	*Results*	*Qualifiers*	*Units*	*MRL*	*Prepared*	*Analyzed*	*Method*
7440-38-2	Arsenic	0.091	U	mg/kg	0.091	8/20/13 16:26	8/28/13 15:29	EPA 200.8
7439-92-1	Lead	0.091	U	mg/kg	0.091	8/20/13 16:26	8/28/13 15:29	EPA 200.8

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
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D.A.R.T. Id: 13-0391
Project: 13-0391, 35th Avenue Site - Reported by Terri White

Physical Properties

Project: 13-0391, 35th Avenue Site

Sample ID: CV0083A-VGW-CS06 **Lab ID:** E133206-09
Station ID: CV0083VG **Matrix:** Tissue

Date Collected: 7/24/13 8:54

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	92		%	0.0	8/20/13 15:40	8/21/13 10:12	EPA 200.2

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D.A.R.T. Id: 13-0391
Project: 13-0391, 35th Avenue Site - Reported by Terri White

Total Metals

Project: 13-0391, 35th Avenue Site

Sample ID: CV0083A-VGUW-CS08 **Lab ID:** E133206-10

Station ID: CV0083VG **Matrix:** Tissue

Date Collected: 7/24/13 9:01

CAS Number	*Analyte*	*Results*	*Qualifiers*	*Units*	*MRL*	*Prepared*	*Analyzed*	*Method*
7440-38-2	Arsenic	0.10	U	mg/kg	0.10	8/20/13 16:26	8/28/13 15:32	EPA 200.8
7439-92-1	Lead	0.10	U	mg/kg	0.10	8/20/13 16:26	8/28/13 15:32	EPA 200.8

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Physical Properties

Project: 13-0391, 35th Avenue Site

Sample ID: CV0083A-VGUW-CS08 **Lab ID:** E133206-10
Station ID: CV0083VG **Matrix:** Tissue

Date Collected: 7/24/13 9:01

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	96		%	0.0	8/20/13 15:40	8/21/13 10:12	EPA 200.2

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Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 13-0391
Project: 13-0391, 35th Avenue Site - Reported by Terri White

Total Metals

Project: 13-0391, 35th Avenue Site

Sample ID: CV0083A-VGW-CS08 **Lab ID:** E133206-11

Station ID: CV0083VG **Matrix:** Tissue

Date Collected: 7/24/13 9:01

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	0.079	U	mg/kg	0.079	8/20/13 16:26	8/28/13 15:34	EPA 200.8
7439-92-1	Lead	0.079	U	mg/kg	0.079	8/20/13 16:26	8/28/13 15:34	EPA 200.8

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980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 13-0391
Project: 13-0391, 35th Avenue Site - Reported by Terri White

Physical Properties

Project: 13-0391, 35th Avenue Site

Sample ID: CV0083A-VGW-CS08 **Lab ID:** E133206-11
Station ID: CV0083VG **Matrix:** Tissue

Date Collected: 7/24/13 9:01

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	96		%	0.0	8/20/13 15:40	8/21/13 10:12	EPA 200.2

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D.A.R.T. Id: 13-0391
Project: 13-0391, 35th Avenue Site - Reported by Terri White

Total Metals

Project: 13-0391, 35th Avenue Site

Sample ID: CV0256A-VGUW-CS08 **Lab ID:** E133206-12
Station ID: CV0256VG **Matrix:** Tissue

Date Collected: 7/23/13 11:35

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	0.060	U	mg/kg	0.060	8/20/13 16:26	8/28/13 15:43	EPA 200.8
7439-92-1	Lead	0.063		mg/kg	0.060	8/20/13 16:26	8/28/13 15:43	EPA 200.8

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D.A.R.T. Id: 13-0391
Project: 13-0391, 35th Avenue Site - Reported by Terri White

Physical Properties

Project: 13-0391, 35th Avenue Site

Sample ID: CV0256A-VGUW-CS08 **Lab ID:** E133206-12
Station ID: CV0256VG **Matrix:** Tissue

Date Collected: 7/23/13 11:35

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	96		%	0.0	8/20/13 15:40	8/21/13 10:12	EPA 200.2

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Region 4 Science and Ecosystem Support Division
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D.A.R.T. Id: 13-0391
Project: 13-0391, 35th Avenue Site - Reported by Terri White

Total Metals

Project: 13-0391, 35th Avenue Site

Sample ID: CV0256A-VGUW-CS08D **Lab ID:** E133206-13
Station ID: CV0256VG **Matrix:** Tissue

Date Collected: 7/23/13 11:35

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	0.053	U	mg/kg	0.053	8/20/13 16:26	8/28/13 15:46	EPA 200.8
7439-92-1	Lead	0.053	U	mg/kg	0.053	8/20/13 16:26	8/28/13 15:46	EPA 200.8

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D.A.R.T. Id: 13-0391
Project: 13-0391, 35th Avenue Site - Reported by Terri White

Physical Properties

Project: 13-0391, 35th Avenue Site

Sample ID: CV0256A-VGUW-CS08D **Lab ID:** E133206-13
Station ID: CV0256VG **Matrix:** Tissue

Date Collected: 7/23/13 11:35

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	96		%	0.0	8/20/13 15:40	8/21/13 10:12	EPA 200.2

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
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D.A.R.T. Id: 13-0391
Project: 13-0391, 35th Avenue Site - Reported by Terri White

Total Metals

Project: 13-0391, 35th Avenue Site

Sample ID: CV0256A-VGW-CS08 **Lab ID:** E133206-14

Station ID: CV0256VG **Matrix:** Tissue

Date Collected: 7/23/13 11:35

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	0.10	U	mg/kg	0.10	8/20/13 16:26	8/28/13 15:49	EPA 200.8
7439-92-1	Lead	0.10	U	mg/kg	0.10	8/20/13 16:26	8/28/13 15:49	EPA 200.8

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Region 4 Science and Ecosystem Support Division
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D.A.R.T. Id: 13-0391
Project: 13-0391, 35th Avenue Site - Reported by Terri White

Physical Properties

Project: 13-0391, 35th Avenue Site

Sample ID: CV0256A-VGW-CS08 **Lab ID:** E133206-14
Station ID: CV0256VG **Matrix:** Tissue

Date Collected: 7/23/13 11:35

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	94		%	0.0	8/20/13 15:40	8/21/13 10:12	EPA 200.2

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 13-0391
Project: 13-0391, 35th Avenue Site - Reported by Terri White

Total Metals

Project: 13-0391, 35th Avenue Site

Sample ID: CV0256A-VGW-CS08D **Lab ID:** E133206-15
Station ID: CV0256VG **Matrix:** Tissue

Date Collected: 7/23/13 11:35

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	0.091	U	mg/kg	0.091	8/20/13 16:26	8/28/13 15:51	EPA 200.8
7439-92-1	Lead	0.091	U	mg/kg	0.091	8/20/13 16:26	8/28/13 15:51	EPA 200.8

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980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 13-0391
Project: 13-0391, 35th Avenue Site - Reported by Terri White

Physical Properties

Project: 13-0391, 35th Avenue Site

Sample ID: CV0256A-VGW-CS08D **Lab ID:** E133206-15
Station ID: CV0256VG **Matrix:** Tissue

Date Collected: 7/23/13 11:35

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	96		%	0.0	8/20/13 15:40	8/21/13 10:12	EPA 200.2

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Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 13-0391
Project: 13-0391, 35th Avenue Site - Reported by Terri White

Total Metals

Project: 13-0391, 35th Avenue Site

Sample ID: CV0256A-VGUW-CS14 **Lab ID:** E133206-16
Station ID: CV0256VG **Matrix:** Tissue

Date Collected: 7/23/13 11:40

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	0.088	U	mg/kg	0.088	8/20/13 16:26	8/28/13 15:54	EPA 200.8
7439-92-1	Lead	0.088	U	mg/kg	0.088	8/20/13 16:26	8/28/13 15:54	EPA 200.8

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980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 13-0391
Project: 13-0391, 35th Avenue Site - Reported by Terri White

Physical Properties

Project: 13-0391, 35th Avenue Site

Sample ID: CV0256A-VGUW-CS14 **Lab ID:** E133206-16
Station ID: CV0256VG **Matrix:** Tissue

Date Collected: 7/23/13 11:40

CAS Number	*Analyte*	*Results*	*Qualifiers*	*Units*	*MRL*	*Prepared*	*Analyzed*	*Method*
E1644012	% Moisture	95		%	0.0	8/20/13 15:40	8/21/13 10:12	EPA 200.2

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 13-0391
Project: 13-0391, 35th Avenue Site - Reported by Terri White

Total Metals

Project: 13-0391, 35th Avenue Site

Sample ID: CV0256A-VGW-CS14 **Lab ID:** E133206-17
Station ID: CV0256VG **Matrix:** Tissue

Date Collected: 7/23/13 11:40

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	0.10	U	mg/kg	0.10	8/20/13 16:26	8/28/13 15:57	EPA 200.8
7439-92-1	Lead	0.10	U	mg/kg	0.10	8/20/13 16:26	8/28/13 15:57	EPA 200.8

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980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 13-0391
Project: 13-0391, 35th Avenue Site - Reported by Terri White

Physical Properties

Project: 13-0391, 35th Avenue Site

Sample ID: CV0256A-VGW-CS14 **Lab ID:** E133206-17
Station ID: CV0256VG **Matrix:** Tissue

Date Collected: 7/23/13 11:40

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	95		%	0.0	8/20/13 15:40	8/21/13 10:12	EPA 200.2

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Total Metals

Project: 13-0391, 35th Avenue Site

Sample ID: CV0272A-VGW-CS03 **Lab ID:** E133206-18

Station ID: CV0272VG **Matrix:** Tissue

Date Collected: 7/24/13 9:39

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	0.080	U	mg/kg	0.080	8/20/13 16:26	8/28/13 16:06	EPA 200.8
7439-92-1	Lead	0.080	U	mg/kg	0.080	8/20/13 16:26	8/28/13 16:06	EPA 200.8

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
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D.A.R.T. Id: 13-0391
Project: 13-0391, 35th Avenue Site - Reported by Terri White

Physical Properties

Project: 13-0391, 35th Avenue Site

Sample ID: CV0272A-VGW-CS03 **Lab ID:** E133206-18
Station ID: CV0272VG **Matrix:** Tissue

Date Collected: 7/24/13 9:39

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	89		%	0.0	8/20/13 15:40	8/21/13 10:12	EPA 200.2

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D.A.R.T. Id: 13-0391
Project: 13-0391, 35th Avenue Site - Reported by Terri White

Total Metals

Project: 13-0391, 35th Avenue Site

Sample ID: CV0272A-VGW-CS06 **Lab ID:** E133206-19

Station ID: CV0272VG **Matrix:** Tissue

Date Collected: 7/24/13 9:30

CAS Number	*Analyte*	*Results*	*Qualifiers*	*Units*	*MRL*	*Prepared*	*Analyzed*	*Method*
7440-38-2	Arsenic	0.099	U	mg/kg	0.099	8/20/13 16:26	8/28/13 16:08	EPA 200.8
7439-92-1	Lead	0.099	U	mg/kg	0.099	8/20/13 16:26	8/28/13 16:08	EPA 200.8

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980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 13-0391
Project: 13-0391, 35th Avenue Site - Reported by Terri White

Physical Properties

Project: 13-0391, 35th Avenue Site

Sample ID: CV0272A-VGW-CS06 **Lab ID:** E133206-19
Station ID: CV0272VG **Matrix:** Tissue

Date Collected: 7/24/13 9:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	93		%	0.0	8/20/13 15:40	8/21/13 10:12	EPA 200.2

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980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 13-0391
Project: 13-0391, 35th Avenue Site - Reported by Terri White

Total Metals

Project: 13-0391, 35th Avenue Site

Sample ID: CV0453A-VGW-CS15 **Lab ID:** E133206-20

Station ID: CV0453VG **Matrix:** Tissue

Date Collected: 7/23/13 13:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	0.086	U	mg/kg	0.086	8/20/13 16:26	8/28/13 16:17	EPA 200.8
7439-92-1	Lead	0.57		mg/kg	0.086	8/20/13 16:26	8/28/13 16:17	EPA 200.8

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 13-0391
Project: 13-0391, 35th Avenue Site - Reported by Terri White

Physical Properties

Project: 13-0391, 35th Avenue Site

Sample ID: CV0453A-VGW-CS15 **Lab ID:** E133206-20
Station ID: CV0453VG **Matrix:** Tissue

Date Collected: 7/23/13 13:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	90		%	0.0	8/20/13 15:40	8/21/13 10:12	EPA 200.2

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980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 13-0391
Project: 13-0391, 35th Avenue Site - Reported by Terri White

Total Metals

Project: 13-0391, 35th Avenue Site

Sample ID: CV0827A-VGUW-CS03 **Lab ID:** E133206-21

Station ID: CV0827VG **Matrix:** Tissue

Date Collected: 7/23/13 9:41

CAS Number	*Analyte*	*Results*	*Qualifiers*	*Units*	*MRL*	*Prepared*	*Analyzed*	*Method*
7440-38-2	Arsenic	0.069		mg/kg	0.063	8/20/13 16:26	8/28/13 16:20	EPA 200.8
7439-92-1	Lead	0.16		mg/kg	0.063	8/20/13 16:26	8/28/13 16:20	EPA 200.8

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980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 13-0391
Project: 13-0391, 35th Avenue Site - Reported by Terri White

Physical Properties

Project: 13-0391, 35th Avenue Site

Sample ID: CV0827A-VGUW-CS03 **Lab ID:** E133206-21
Station ID: CV0827VG **Matrix:** Tissue

Date Collected: 7/23/13 9:41

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	88		%	0.0	8/20/13 15:40	8/21/13 10:12	EPA 200.2

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 13-0391
Project: 13-0391, 35th Avenue Site - Reported by Terri White

Total Metals

Project: 13-0391, 35th Avenue Site

Sample ID: CV0827A-VGW-CS03 **Lab ID:** E133206-22

Station ID: CV0827VG **Matrix:** Tissue

Date Collected: 7/23/13 9:41

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	0.083	U	mg/kg	0.083	8/20/13 16:26	8/28/13 16:23	EPA 200.8
7439-92-1	Lead	0.083	U	mg/kg	0.083	8/20/13 16:26	8/28/13 16:23	EPA 200.8

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 13-0391
Project: 13-0391, 35th Avenue Site - Reported by Terri White

Physical Properties

Project: 13-0391, 35th Avenue Site

Sample ID: CV0827A-VGW-CS03 **Lab ID:** E133206-22
Station ID: CV0827VG **Matrix:** Tissue

Date Collected: 7/23/13 9:41

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	90		%	0.0	8/20/13 15:40	8/21/13 10:12	EPA 200.2

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 13-0391
Project: 13-0391, 35th Avenue Site - Reported by Terri White

Total Metals

Project: 13-0391, 35th Avenue Site

Sample ID: CV0827A-VGW-CS05 **Lab ID:** E133206-23

Station ID: CV0827VG **Matrix:** Tissue

Date Collected: 7/23/13 9:47

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	0.082	U	mg/kg	0.082	8/20/13 16:26	8/28/13 16:25	EPA 200.8
7439-92-1	Lead	0.082	U	mg/kg	0.082	8/20/13 16:26	8/28/13 16:25	EPA 200.8

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
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980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 13-0391
Project: 13-0391, 35th Avenue Site - Reported by Terri White

Physical Properties

Project: 13-0391, 35th Avenue Site

Sample ID: CV0827A-VGW-CS05 **Lab ID:** E133206-23
Station ID: CV0827VG **Matrix:** Tissue

Date Collected: 7/23/13 9:47

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	89		%	0.0	8/20/13 15:40	8/21/13 10:12	EPA 200.2

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
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D.A.R.T. Id: 13-0391
Project: 13-0391, 35th Avenue Site - Reported by Terri White

Total Metals

Project: 13-0391, 35th Avenue Site

Sample ID: CV0827A-VGUW-CS06 **Lab ID:** E133206-24
Station ID: CV0827VG **Matrix:** Tissue

Date Collected: 7/23/13 9:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	0.060	U	mg/kg	0.060	8/20/13 16:26	8/28/13 16:28	EPA 200.8
7439-92-1	Lead	0.060	U	mg/kg	0.060	8/20/13 16:26	8/28/13 16:28	EPA 200.8

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
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D.A.R.T. Id: 13-0391
Project: 13-0391, 35th Avenue Site - Reported by Terri White

Physical Properties

Project: 13-0391, 35th Avenue Site

Sample ID: CV0827A-VGUW-CS06 **Lab ID:** E133206-24
Station ID: CV0827VG **Matrix:** Tissue

Date Collected: 7/23/13 9:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	94		%	0.0	8/20/13 15:40	8/21/13 10:12	EPA 200.2

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 13-0391
Project: 13-0391, 35th Avenue Site - Reported by Terri White

Total Metals

Project: 13-0391, 35th Avenue Site

Sample ID: CV0827A-VGW-CS06 **Lab ID:** E133206-25

Station ID: CV0827VG **Matrix:** Tissue

Date Collected: 7/23/13 9:45

CAS Number	*Analyte*	*Results*	*Qualifiers*	*Units*	*MRL*	*Prepared*	*Analyzed*	*Method*
7440-38-2	Arsenic	0.086	U	mg/kg	0.086	8/20/13 16:26	8/28/13 16:31	EPA 200.8
7439-92-1	Lead	0.086	U	mg/kg	0.086	8/20/13 16:26	8/28/13 16:31	EPA 200.8

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
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980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 13-0391
Project: 13-0391, 35th Avenue Site - Reported by Terri White

Physical Properties

Project: 13-0391, 35th Avenue Site

Sample ID: CV0827A-VGW-CS06 **Lab ID:** E133206-25
Station ID: CV0827VG **Matrix:** Tissue

Date Collected: 7/23/13 9:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	94		%	0.0	8/20/13 15:40	8/21/13 10:12	EPA 200.2

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D.A.R.T. Id: 13-0391
Project: 13-0391, 35th Avenue Site - Reported by Terri White

Total Metals

Project: 13-0391, 35th Avenue Site

Sample ID: CV0827A-VGW-CS09 **Lab ID:** E133206-26
Station ID: CV0827VG **Matrix:** Tissue

Date Collected: 7/23/13 9:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	0.090	U	mg/kg	0.090	8/20/13 16:26	8/28/13 16:34	EPA 200.8
7439-92-1	Lead	0.090	U	mg/kg	0.090	8/20/13 16:26	8/28/13 16:34	EPA 200.8

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980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 13-0391
Project: 13-0391, 35th Avenue Site - Reported by Terri White

Physical Properties

Project: 13-0391, 35th Avenue Site

Sample ID: CV0827A-VGW-CS09 **Lab ID:** E133206-26
Station ID: CV0827VG **Matrix:** Tissue

Date Collected: 7/23/13 9:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	87		%	0.0	8/20/13 15:40	8/21/13 10:12	EPA 200.2

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Region 4 Science and Ecosystem Support Division
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D.A.R.T. Id: 13-0391
Project: 13-0391, 35th Avenue Site - Reported by Terri White

Total Metals

Project: 13-0391, 35th Avenue Site

Sample ID: HP0306A-VGUW-CS06 **Lab ID:** E133206-27
Station ID: HP0306VG **Matrix:** Tissue

Date Collected: 7/23/13 10:55

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	0.047	U	mg/kg	0.047	8/20/13 16:37	8/28/13 16:51	EPA 200.8
7439-92-1	Lead	0.061		mg/kg	0.047	8/20/13 16:37	8/28/13 16:51	EPA 200.8

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Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 13-0391
Project: 13-0391, 35th Avenue Site - Reported by Terri White

Physical Properties

Project: 13-0391, 35th Avenue Site

Sample ID: HP0306A-VGUW-CS06 **Lab ID:** E133206-27
Station ID: HP0306VG **Matrix:** Tissue

Date Collected: 7/23/13 10:55

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	94		%	0.0	8/20/13 15:40	8/21/13 10:12	EPA 200.2

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Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 13-0391
Project: 13-0391, 35th Avenue Site - Reported by Terri White

Total Metals

Project: 13-0391, 35th Avenue Site

Sample ID: HP0306A-VGUW-CS06D
Lab ID: E133206-28
Station ID: HP0306VG
Matrix: Tissue

Date Collected: 7/23/13 10:55

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	0.082	U, J, CR, QM-3	mg/kg	0.082	8/20/13 16:37	8/28/13 16:54	EPA 200.8
7439-92-1	Lead	0.082	U, J, CR, QM-3	mg/kg	0.082	8/20/13 16:37	8/28/13 16:54	EPA 200.8

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D.A.R.T. Id: 13-0391
Project: 13-0391, 35th Avenue Site - Reported by Terri White

Physical Properties

Project: 13-0391, 35th Avenue Site

Sample ID: HP0306A-VGUW-CS06D **Lab ID:** E133206-28
Station ID: HP0306VG **Matrix:** Tissue

Date Collected: 7/23/13 10:55

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	94		%	0.0	8/20/13 15:40	8/21/13 10:12	EPA 200.2

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D.A.R.T. Id: 13-0391
Project: 13-0391, 35th Avenue Site - Reported by Terri White

Total Metals

Project: 13-0391, 35th Avenue Site

Sample ID: HP0306A-VGW-CS06 **Lab ID:** E133206-29
Station ID: HP0306VG **Matrix:** Tissue

Date Collected: 7/23/13 10:55

CAS Number	*Analyte*	*Results*	*Qualifiers*	*Units*	*MRL*	*Prepared*	*Analyzed*	*Method*
7440-38-2	Arsenic	0.046	U	mg/kg	0.046	8/20/13 16:37	8/28/13 17:02	EPA 200.8
7439-92-1	Lead	0.046	U	mg/kg	0.046	8/20/13 16:37	8/28/13 17:02	EPA 200.8

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D.A.R.T. Id: 13-0391
Project: 13-0391, 35th Avenue Site - Reported by Terri White

Physical Properties

Project: 13-0391, 35th Avenue Site

Sample ID: HP0306A-VGW-CS06 **Lab ID:** E133206-29
Station ID: HP0306VG **Matrix:** Tissue

Date Collected: 7/23/13 10:55

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	94		%	0.0	8/20/13 15:40	8/21/13 10:12	EPA 200.2

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Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 13-0391
Project: 13-0391, 35th Avenue Site - Reported by Terri White

Total Metals

Project: 13-0391, 35th Avenue Site

Sample ID: HP0306A-VGW-CS06D **Lab ID:** E133206-30
Station ID: HP0306VG **Matrix:** Tissue

Date Collected: 7/23/13 10:55

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	0.085	U	mg/kg	0.085	8/20/13 16:37	8/28/13 17:11	EPA 200.8
7439-92-1	Lead	0.085	U	mg/kg	0.085	8/20/13 16:37	8/28/13 17:11	EPA 200.8

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D.A.R.T. Id: 13-0391
Project: 13-0391, 35th Avenue Site - Reported by Terri White

Physical Properties

Project: 13-0391, 35th Avenue Site

Sample ID: HP0306A-VGW-CS06D **Lab ID:** E133206-30
Station ID: HP0306VG **Matrix:** Tissue

Date Collected: 7/23/13 10:55

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	93		%	0.0	8/20/13 15:40	8/21/13 10:12	EPA 200.2

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Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 13-0391
Project: 13-0391, 35th Avenue Site - Reported by Terri White

Total Metals

Project: 13-0391, 35th Avenue Site

Sample ID: HP0306A-VGW-CS09 **Lab ID:** E133206-31

Station ID: HP0306VG **Matrix:** Tissue

Date Collected: 7/23/13 10:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	0.084	U	mg/kg	0.084	8/20/13 16:37	8/28/13 17:14	EPA 200.8
7439-92-1	Lead	0.084	U	mg/kg	0.084	8/20/13 16:37	8/28/13 17:14	EPA 200.8

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Project: 13-0391, 35th Avenue Site - Reported by Terri White

Physical Properties

Project: 13-0391, 35th Avenue Site

Sample ID: HP0306A-VGW-CS09 **Lab ID:** E133206-31
Station ID: HP0306VG **Matrix:** Tissue

Date Collected: 7/23/13 10:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	93		%	0.0	8/20/13 15:40	8/21/13 10:12	EPA 200.2

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Project: 13-0391, 35th Avenue Site - Reported by Terri White

Total Metals

Project: 13-0391, 35th Avenue Site

Sample ID: HP0306A-VGUW-GS13 **Lab ID:** E133206-32
Station ID: HP0306VG **Matrix:** Tissue

Date Collected: 7/23/13 10:46

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	0.069	U	mg/kg	0.069	8/20/13 16:37	8/28/13 17:16	EPA 200.8
7439-92-1	Lead	0.15		mg/kg	0.069	8/20/13 16:37	8/28/13 17:16	EPA 200.8

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D.A.R.T. Id: 13-0391
Project: 13-0391, 35th Avenue Site - Reported by Terri White

Physical Properties

Project: 13-0391, 35th Avenue Site

Sample ID: HP0306A-VGUW-GS13 **Lab ID:** E133206-32
Station ID: HP0306VG **Matrix:** Tissue

Date Collected: 7/23/13 10:46

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	93		%	0.0	8/20/13 15:40	8/21/13 10:12	EPA 200.2

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Region 4 Science and Ecosystem Support Division
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D.A.R.T. Id: 13-0391
Project: 13-0391, 35th Avenue Site - Reported by Terri White

Total Metals

Project: 13-0391, 35th Avenue Site

Sample ID: HP0306A-VGUW-GS13D **Lab ID:** E133206-33
Station ID: HP0306VG **Matrix:** Tissue

Date Collected: 7/23/13 10:46

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	0.079	U	mg/kg	0.079	8/20/13 16:37	8/28/13 17:19	EPA 200.8
7439-92-1	Lead	0.21		mg/kg	0.079	8/20/13 16:37	8/28/13 17:19	EPA 200.8

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D.A.R.T. Id: 13-0391
Project: 13-0391, 35th Avenue Site - Reported by Terri White

Physical Properties

Project: 13-0391, 35th Avenue Site

Sample ID: HP0306A-VGUW-GS13D **Lab ID:** E133206-33
Station ID: HP0306VG **Matrix:** Tissue

Date Collected: 7/23/13 10:46

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	92		%	0.0	8/20/13 15:40	8/21/13 10:12	EPA 200.2

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Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 13-0391
Project: 13-0391, 35th Avenue Site - Reported by Terri White

Total Metals

Project: 13-0391, 35th Avenue Site

Sample ID: HP0306A-VGW-GS13 **Lab ID:** E133206-34
Station ID: HP0306VG **Matrix:** Tissue

Date Collected: 7/23/13 10:46

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	0.066	U	mg/kg	0.066	8/20/13 16:37	8/28/13 17:22	EPA 200.8
7439-92-1	Lead	0.066	U	mg/kg	0.066	8/20/13 16:37	8/28/13 17:22	EPA 200.8

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Region 4 Science and Ecosystem Support Division
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D.A.R.T. Id: 13-0391
Project: 13-0391, 35th Avenue Site - Reported by Terri White

Physical Properties

Project: 13-0391, 35th Avenue Site

Sample ID: HP0306A-VGW-GS13 **Lab ID:** E133206-34
Station ID: HP0306VG **Matrix:** Tissue

Date Collected: 7/23/13 10:46

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	92		%	0.0	8/20/13 15:40	8/21/13 10:12	EPA 200.2

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Region 4 Science and Ecosystem Support Division
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D.A.R.T. Id: 13-0391
Project: 13-0391, 35th Avenue Site - Reported by Terri White

Total Metals

Project: 13-0391, 35th Avenue Site

Sample ID: HP0306A-VGW-GS13D **Lab ID:** E133206-35
Station ID: HP0306VG **Matrix:** Tissue

Date Collected: 7/23/13 10:46

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	0.062	U	mg/kg	0.062	8/20/13 16:37	8/28/13 17:25	EPA 200.8
7439-92-1	Lead	0.062	U	mg/kg	0.062	8/20/13 16:37	8/28/13 17:25	EPA 200.8

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Region 4 Science and Ecosystem Support Division
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D.A.R.T. Id: 13-0391
Project: 13-0391, 35th Avenue Site - Reported by Terri White

Physical Properties

Project: 13-0391, 35th Avenue Site

Sample ID: HP0306A-VGW-GS13D **Lab ID:** E133206-35
Station ID: HP0306VG **Matrix:** Tissue

Date Collected: 7/23/13 10:46

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	92		%	0.0	8/20/13 15:40	8/21/13 10:12	EPA 200.2

Total Metals (TMTL) - Quality Control

US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1308071 - M M/T Bottle-dry ice blk										
Blank (1308071-BLK1)				Prepared: 08/16/13 Analyzed: 08/21/13						
EPA 200.8										
Arsenic	U	0.0010	ug/Blank							U
Lead	U	0.0010	"							U
LCS (1308071-BS1)				Prepared: 08/16/13 Analyzed: 08/21/13						
EPA 200.8										
Arsenic	0.19644	0.010	ug/Blank	0.20000		98.2	85-115			
Lead	0.20449	0.010	"	0.20000		102	85-115			
LCS Dup (1308071-BSD1)				Prepared: 08/16/13 Analyzed: 08/21/13						
EPA 200.8										
Arsenic	0.19090	0.010	ug/Blank	0.20000		95.5	85-115	2.86	10	
Lead	0.19978	0.010	"	0.20000		99.9	85-115	2.33	10	
MRL Verification (1308071-PS1)				Prepared: 08/16/13 Analyzed: 08/21/13						
EPA 200.8										
Arsenic	0.0010468	0.0010	ug/Blank	0.0010000		105	65-135			MRL-7
Lead	0.0010723	0.0010	"	0.0010000		107	65-135			MRL-7
Batch 1308082 - M 200.3 Tissue										
Blank (1308082-BLK1)				Prepared: 08/20/13 Analyzed: 08/28/13						
EPA 200.8										
Arsenic	U	0.020	mg/kg							U
Lead	U	0.020	"							U
LCS (1308082-BS1)				Prepared: 08/20/13 Analyzed: 08/28/13						
EPA 200.8										
Arsenic	9.5570	0.25	mg/kg	10.000		95.6	85-125			
Lead	20.531	0.25	"	20.000		103	85-125			
Matrix Spike (1308082-MS1)			**Source: E133206-07**	Prepared: 08/20/13 Analyzed: 08/28/13						
EPA 200.8										
Arsenic	9.7037	0.25	mg/kg	9.9088	U	97.9	70-130			
Lead	21.307	0.25	"	19.818	0.019604	107	70-130			

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Total Metals (TMTL) - Quality Control
US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1308082 - M 200.3 Tissue										
Matrix Spike (1308082-MS2)	**Source: E133206-17**			Prepared: 08/20/13 Analyzed: 08/28/13						
EPA 200.8										
Arsenic	7.7613	0.21	mg/kg	8.2705	U	93.8	70-130			
Lead	17.099	0.21	"	16.541	U	103	70-130			
Matrix Spike Dup (1308082-MSD1)	**Source: E133206-07**			Prepared: 08/20/13 Analyzed: 08/28/13						
EPA 200.8										
Arsenic	8.6781	0.23	mg/kg	9.0508	U	95.9	70-130	11.2	20	
Lead	18.541	0.23	"	18.102	0.019604	102	70-130	13.9	20	
Matrix Spike Dup (1308082-MSD2)	**Source: E133206-17**			Prepared: 08/20/13 Analyzed: 08/28/13						
EPA 200.8										
Arsenic	8.1939	0.22	mg/kg	8.9967	U	91.1	70-130	5.42	20	
Lead	20.139	0.22	"	17.993	U	112	70-130	16.3	20	
MRL Verification (1308082-PS1)				Prepared: 08/20/13 Analyzed: 08/28/13						
EPA 200.8										
Arsenic	0.015168	0.020	mg/kg	0.020000		75.8	65-135			MRL-4, U
Lead	0.021565	0.020	"	0.020000		108	65-135			MRL-4
Batch 1308083 - M 200.3 Tissue										
Blank (1308083-BLK1)				Prepared: 08/20/13 Analyzed: 08/28/13						
EPA 200.8										
Arsenic	U	0.020	mg/kg							U
Lead	U	0.020	"							U
LCS (1308083-BS1)				Prepared: 08/20/13 Analyzed: 08/28/13						
EPA 200.8										
Arsenic	9.5105	0.25	mg/kg	10.000		95.1	85-125			
Lead	20.694	0.25	"	20.000		103	85-125			
Matrix Spike (1308083-MS1)	**Source: E133206-28**			Prepared: 08/20/13 Analyzed: 08/28/13						
EPA 200.8										
Arsenic	4.5791	0.12	mg/kg	4.7367	U	96.7	70-130			
Lead	9.9036	0.12	"	9.4735	0.066473	104	70-130			

Total Metals (TMTL) - Quality Control

US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1308083 - M 200.3 Tissue										
Matrix Spike Dup (1308083-MSD1)	**Source: E133206-28**			Prepared: 08/20/13 Analyzed: 08/28/13						
EPA 200.8										
Arsenic	5.9359	0.15	mg/kg	6.1473	U	96.6	70-130	25.8	20	CR, QM-3
Lead	12.730	0.15	"	12.295	0.066473	103	70-130	25.0	20	CR, QM-3
MRL Verification (1308083-PS1)				Prepared: 08/20/13 Analyzed: 08/28/13						
EPA 200.8										
Arsenic	0.014421	0.020	mg/kg	0.020000		72.1	65-135			MRL-4, U
Lead	0.021752	0.020	"	0.020000		109	65-135			MRL-4

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Physical Properties (PHYSP) - Quality Control

US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1308084 - E 3550 Tissue										
Duplicate (1308084-DUP1)		**Source: E133206-25**		Prepared: 08/20/13 Analyzed: 08/21/13						
EPA 200.2										
% Moisture	94.078	0.0	%		93.666			0.439	20	
Batch 1308085 - E 3550 Tissue										
Duplicate (1308085-DUP1)		**Source: E133206-35**		Prepared: 08/20/13 Analyzed: 08/21/13						
EPA 200.2										
% Moisture	92.255	0.0	%		92.153			0.111	20	

Notes and Definitions for QC Samples

U	The analyte was not detected at or above the reporting limit.
CR	Precision outside of control limit due to initial weights of MS and MSD
MRL-4	MRL verification for Tissue matrix
MRL-7	MRL Verification for other matrices (bottle blanks, etc)
QM-3	Matrix Spike Precision outside method control limits

October 17, 2013

Mr. Rick Jardine
On-Scene Coordinator
U.S. Environmental Protection Agency Region 4
Sam Nunn Atlanta Federal Center
61 Forsyth Street
Atlanta, Georgia 30303

Subject: **Geoprobe Soil Boring Sampling Trip Report**
35th Avenue Removal Investigation
Birmingham, Jefferson County, Alabama
Contract No. EP-W-05-053
Technical Direction Document (TDD) No.: TNA-05-003-0148

Dear Mr. Jardine:

Oneida Total Integrated Enterprises (OTIE), Superfund Technical Assessment Response Team (START) has prepared this trip report detailing the vegetable and soil sampling activities conducted at the 35th Avenue Removal Investigation site (the site) in support of the U.S. Environmental Protection Agency (EPA). All activities and procedures described in this document were conducted in accordance with the EPA Region 4 Science and Ecosystems Support Division (SESD) *Field Branches Quality System and Technical Procedures* (FBQSTP).

START was tasked under EPA Contract Number (No.) EP-W-05-053, TDD No. TNA-05-003-0148 to conduct a subsurface soil sampling investigation using a Geoprobe drill equipped with direct push technology. Soil samples were collected from soil borings advanced in the vicinity of the site located in Birmingham, Jefferson County, Alabama (Figure 1, Appendix A). The purpose of this sampling event was to observe surface and subsurface soil conditions at previously sampled properties, collect samples for Toxicity Characteristic Leaching Procedure (TCLP) analysis for future disposal purposes, and collect samples from previously un-sampled areas owned by Walter Energy. START advanced soil borings at 20 private residential properties and two properties owned by Walter Energy where written access had been granted by the property owner.

START documented on-site conditions with written logbook notes and digital photographs; and submitted a total of 22 soil samples to the laboratory for Target Compound List (TCL) polycyclic aromatic hydrocarbons (PAH), TCLP metals, and/or Resource Conservation and Recovery Act (RCRA) 8 metals analysis. The soil samples collected were submitted to the Test America laboratory in Savannah, Georgia for metals and TCLP analysis, and to the Test America laboratory in Tampa, Florida for PAH analysis.

Site Description

The site encompasses three residential neighborhoods: Fairmont, Collegeville, and Harriman Park; in Birmingham, Jefferson County Alabama (Figures 1 and 2, Appendix A). The geographic coordinates for an approximate center point of the site are 33.561625 North latitude and -86.802568 West longitude. The Fairmont neighborhood comprises the western portion of the site, Collegeville the southern portion, and Harriman Park the eastern portion.

Location Description

This investigation focused on 20 residential properties and two Walter Energy properties located within the following boundaries: south of 49th Street, east of 26th Street/Highway 31, north of 27th Avenue, and west of the railroad lines (Figure 2, Appendix A).

Soil Sampling Activities

From September 17 through September 20, 2013, START personnel collected soil samples from 20 private residential properties and two Walter Energy properties. START had intended on sampling from 21 residential properties, but one owner, who had previously granted access, refused access for this event. The Sample Locations maps are included as Figures 3 to 5 in Appendix A. Samples were collected in accordance with the OTIE QAPP/SSP.

Logbook notes and a photographic log documenting field activities are included as Appendix C and Appendix D, respectively. The soil boring logs are provided in Appendix E.

Laboratory Analytical Results

The following sections summarize the laboratory analytical results for soil samples collected during this sampling event. Laboratory analytical results are summarized in Tables 1 through 2 included in Appendix B. The final analytical report with case narrative is included as Appendix F.

Soil Sampling Results

The September 17 through September 20, 2013 sampling event was comprised of a total of 22 soil samples, including two field duplicate samples that were submitted to Test America laboratories for TCL PAH, TCLP, and/or metals analysis. For evaluation purposes, analytical results were compared to the Removal Management Level (RML) for Residential Soil values for the Walter Energy properties and TCLP RCRA limits for the residential properties. XRF readings were performed on the samples being sent to the laboratory for TCLP analysis for comparison purposes. Analytical results indicated the presence of lead above the respective RML value in one sample and TCL PAH above their respective RML values in three samples all located in the Walter Energy properties. The 15 residential properties that were sampled yielded one result for lead above TCLP limits.

Conclusion

START was tasked under EPA Contract No. EP-W-05-053, TDD No. TNA-05-003-0148 to collect soil samples for laboratory analysis from 20 private residential properties and two Walter Energy properties located in the vicinity of the site. The soil samples were collected from September 17 through September 20, 2013. Soil samples were submitted to the Test America laboratory in Savannah, GA for PAH analysis and submitted to the Test America laboratory in Tampa, FL for metals and TCLP analysis.

- Lead was detected the respective RML in one of the Walter Energy property samples.
- PAHs were detected above their respective RML values in three soil samples collected at Walter Energy properties.
- Lead was detected above TCLP limits at one of the residential properties

If you have any questions or comments regarding this letter report or require any additional information please feel free to contact me or Russell Henderson, START Project Manager, at 678-355-5550.

Sincerely,

Russell Henderson
START Project Manager
OTIE

cc: Russell Henderson, START Project Manager
Katrina Jones, EPA Project Officer
Darryl Walker, EPA Project Officer
OTIE START File

APPENDIX A

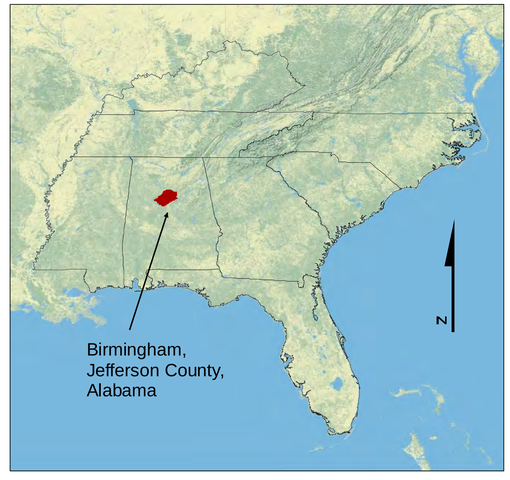
FIGURES

Legend

Study Area

Notes:
USGS Topo Quad. 1:24,000 scale of
Quad Birmingham North Date published: 1978.
Quad ID: 33086-E7

Feet
0 1,850 3,700



United States Environmental Protection Agency

35TH AVENUE REMOVAL
BIRMINGHAM,
JEFFERSON COUNTY,
ALABAMA
TDD No. TNA-05-003-0148

FIGURE 1
TOPOGRAPHICAL MAP

OTIE
Oneida Total Integrated Enterprises

Fairmont

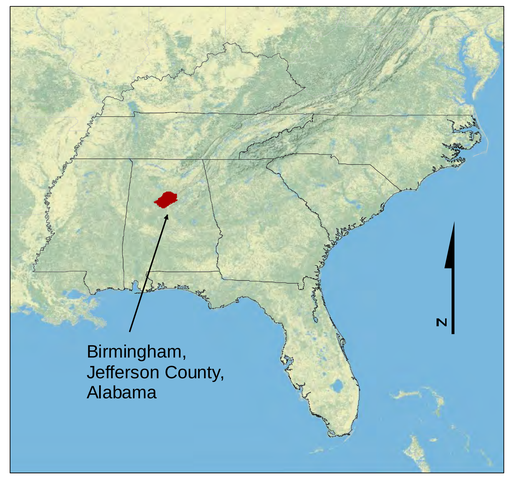
Harriman Park

Collegeville

Legend

- Study Area
- Fairmont
- Collegeville
- Harriman Park

Feet
0 750 1,500



United States Environmental Protection Agency

35TH AVENUE REMOVAL
BIRMINGHAM,
JEFFERSON COUNTY,
ALABAMA
TDD No. TNA-05-003-0148

FIGURE 2
STUDY AREA MAP

OTIE
Oneida Total Integrated Enterprises

Legend

Geoprobe Parcel Sample

Feet

0 320 640

Birmingham,
Jefferson County,
Alabama

35TH AVENUE REMOVAL SITE
BIRMINGHAM
JEFFERSON COUNTY
ALABAMA
TDD NO. TNA-05-003-0148

FIGURE 3
GEOPROBE PARCEL SAMPLE MAP
COLLEGEVILLE

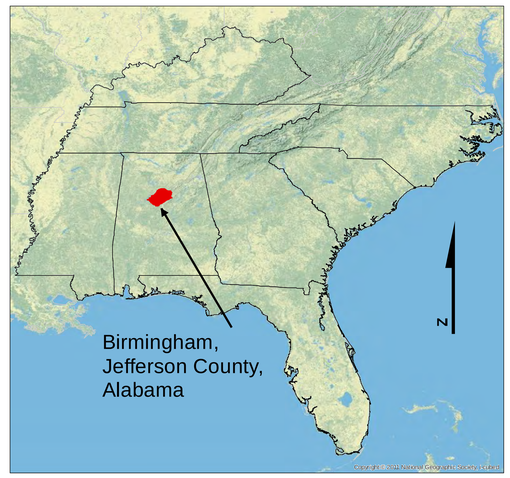
United States Environmental Protection Agency

OTIE
Oneida Total Integrated Enterprises

Legend

Geoprobe Parcel Sample

Feet
0 215 430



35TH AVENUE REMOVAL SITE
BIRMINGHAM
JEFFERSON COUNTY
ALABAMA
TDD NO. TNA-05-003-0148

FIGURE 4
GEOPROBE PARCEL SAMPLE MAP
FAIRMONT

United States Environmental Protection Agency

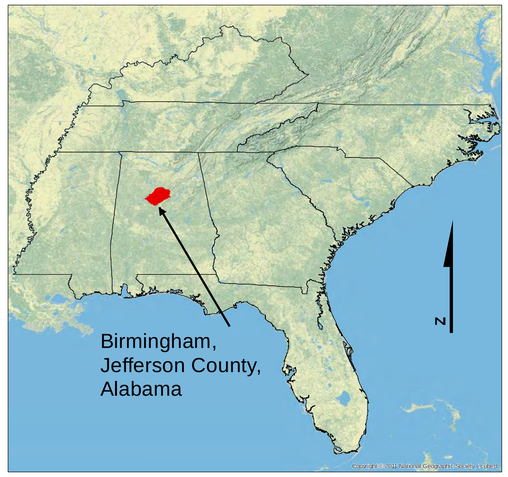
OTIE
Oneida Total Integrated Enterprises

Legend

Geoprobe Parcel Sample

Feet

0 335 670



35TH AVENUE REMOVAL SITE
BIRMINGHAM
JEFFERSON COUNTY
ALABAMA
TDD NO. TNA-05-003-0148

FIGURE 5
GEOPROBE PARCEL SAMPLE MAP
HARRIMAN PARK

United States Environmental Protection Agency

OTIE
Oneida Total Integrated Enterprises

APPENDIX B

TABLES

TABLE 1
35TH AVENUE REMOVAL
RESIDENTIAL PROPERTY SOIL BORING SAMPLING RESULTS

Sample ID	Comparison Level	CV0003A-HA0_6in	CV0003A-HA6_12in	CV0003A-HA0_1ft	CV0003A-GP0_2ft	CV0003A-GP2_4ft	CV0060B-HA0_6in
Top Depth (ft)		0	0.5	0	0	2	0
Bottom Depth (ft)		0.5	1	1	2	4	0.5
Location		CV0003A-HA	CV0003A-HA	CV0003-GP	CV0003-GP	CV0003-GP	CV0060-GP
Matrix		Surface Soil	Surface Soil	Surface Soil	Surface Soil	Subsurface Soil	Surface Soil
Sample Type		Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample
TCLP (mg/L)							
Arsenic	5	NA	NA	0.2 U	NA	NA	NA
Barium	100	NA	NA	1 U	NA	NA	NA
Cadmium	1	NA	NA	0.1 U	NA	NA	NA
Chromium	5	NA	NA	0.2 U	NA	NA	NA
Lead	5	NA	NA	0.2 U	NA	NA	NA
Selenium	1	NA	NA	0.5 U	NA	NA	NA
Silver	5	NA	NA	0.1 U	NA	NA	NA
XRF (ppm)							
Arsenic	39	19	15	13	**44.3**	8.35	**54.99**
Lead	400	167	167	143	242.23	17.71	**421.68**

Notes:

Bold and shaded - Concentration exceeds the comparison value
mg/L - Milligrams per liter
NA - Not analyzed
ppm - parts per million
TCLP - Toxicity Characteristic Leaching Procedure
XRF - X-Ray Fluorescence
U - Analyte not detected above method detection limit

TABLE 1

35TH AVENUE REMOVAL

RESIDENTIAL PROPERTY SOIL BORING SAMPLING RESULTS

Sample ID	Comparison Level	CV0060B-HA6_12in	CV0060B-HA0_1ft	CV0060B-GP0_2ft	CV0060B-GP2_4ft	CV0186B-HA0_6in	CV0186B-HA6_12in
Top Depth (ft)		0.5	0	0	2	0	0.5
Bottom Depth (ft)		1	1	2	4	0.5	1
Location		CV0060-GP	CV0060-GP	CV0060-GP	CV0060-GP	CV0186-GP	CV0186-GP
Matrix		Surface Soil	Surface Soil	Surface Soil	Subsurface Soil	Surface Soil	Surface Soil
Sample Type		Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample
TCLP (mg/L)							
Arsenic	5	NA	NA	NA	NA	NA	NA
Barium	100	NA	NA	NA	NA	NA	NA
Cadmium	1	NA	NA	NA	NA	NA	NA
Chromium	5	NA	NA	NA	NA	NA	NA
Lead	5	NA	NA	NA	NA	NA	NA
Selenium	1	NA	NA	NA	NA	NA	NA
Silver	5	NA	NA	NA	NA	NA	NA
XRF (ppm)							
Arsenic	39	33.33	**60.92**	**42.86**	18.69	**41.62**	**42.17**
Lead	400	289.81	**507.81**	192.89	38.02	356.16	251.81

Notes:

Bold and shaded - Concentration ex
mg/L - Milligrams per lit
NA - Not analyzed
ppm - parts per million
TCLP - Toxicity Characte
XRF - X-Ray Fluorescer
U - Analyte not dete

TABLE 1

35TH AVENUE REMOVAL

RESIDENTIAL PROPERTY SOIL BORING SAMPLING RESULTS

Sample ID	Comparison Level	CV0186B-HA0_1ft	CV0186B-GP0_2ft	CV0186B-GP2_4ft	CV0232B-HA0_6in	CV0232B-HA6_12in	CV0232B-HA0_1ft
Top Depth (ft)		0	0	2	0	0.5	0
Bottom Depth (ft)		1	2	4	0.5	1	1
Location		CV0186-GP	CV0186-GP	CV0186-GP	CV0232-GP	CV0232-GP	CV0232-GP
Matrix		Surface Soil	Surface Soil	Subsurface Soil	Surface Soil	Surface Soil	Surface Soil
Sample Type		Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample
TCLP (mg/L)							
Arsenic	5	NA	NA	NA	NA	NA	0.2 U
Barium	100	NA	NA	NA	NA	NA	1.4
Cadmium	1	NA	NA	NA	NA	NA	0.1 U
Chromium	5	NA	NA	NA	NA	NA	0.2 U
Lead	5	NA	NA	NA	NA	NA	0.2 U
Selenium	1	NA	NA	NA	NA	NA	0.5 U
Silver	5	NA	NA	NA	NA	NA	0.1 U
XRF (ppm)							
Arsenic	39	29.76	29.63	10.95	**145.87**	**64.59**	**119.48**
Lead	400	254.44	141.28	19.21	**2903.48**	310.27	**1094.6**

Notes:

Bold and shaded - Concentration ex
mg/L - Milligrams per lit
NA - Not analyzed
ppm - parts per million
TCLP - Toxicity Characte
XRF - X-Ray Fluorescer
U - Analyte not dete

TABLE 1
35TH AVENUE REMOVAL
RESIDENTIAL PROPERTY SOIL BORING SAMPLING RESULTS

Sample ID	Comparison Level	CV0232B-GP0_2ft	CV0232B-GP2_4ft	CV0246B-HA0_1ft	CV0409A-HA0_6in	CV0409A-HA6_12in	CV0409A-HA0_1ft
Top Depth (ft)		0	2	0	0		0
Bottom Depth (ft)		2	4	1	0.5		1
Location		CV0232-GP	CV0232-GP	CV0246	CV0409-GP	CV0409-GP	CV0409-GP
Matrix		Surface Soil	Subsurface Soil	Surface Soil	Surface Soil	Surface Soil	Surface Soil
Sample Type		Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample
TCLP (mg/L)							
Arsenic	5	NA	NA	0.2 U	NA	NA	0.2 U
Barium	100	NA	NA	1 U	NA	NA	1 U
Cadmium	1	NA	NA	0.1 U	NA	NA	0.1 U
Chromium	5	NA	NA	0.2 U	NA	NA	0.2 U
Lead	5	NA	NA	0.2 U	NA	NA	0.2 U
Selenium	1	NA	NA	0.5 U	NA	NA	0.5 U
Silver	5	NA	NA	0.1 U	NA	NA	0.1 U
XRF (ppm)							
Arsenic	39	**85.53**	**76.74**	**78**	13.2	32.18	16.68
Lead	400	**545.18**	**446.38**	**1007**	129.91	114.07	130.49

Notes:

Bold and shaded - Concentration ex
mg/L - Milligrams per lit
NA - Not analyzed
ppm - parts per million
TCLP - Toxicity Characte
XRF - X-Ray Fluorescer
U - Analyte not dete

TABLE 1

35TH AVENUE REMOVAL

RESIDENTIAL PROPERTY SOIL BORING SAMPLING RESULTS

Sample ID	Comparison Level	CV0409A-GP0_2ft	CV0409A-GP2_4ft	CV0409A-HA06_12in	CV0511AB-HA0_6in	CV0511AB-HA6_12in	CV0511AB-HA0_1ft
Top Depth (ft)		0	2	0.5	0	0.5	0
Bottom Depth (ft)		2	4	1	0.5	1	1
Location		CV0409-GP	CV0409-GP	CV0409-GP	CV0511-GP	CV0511-GP	CV0511-GP
Matrix		Surface Soil	Subsurface Soil	Surface Soil	Surface Soil	Surface Soil	Surface Soil
Sample Type		Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample
TCLP (mg/L)							
Arsenic	5	NA	NA	NA	NA	NA	0.2 U
Barium	100	NA	NA	NA	NA	NA	1 U
Cadmium	1	NA	NA	NA	NA	NA	0.1 U
Chromium	5	NA	NA	NA	NA	NA	0.2 U
Lead	5	NA	NA	NA	NA	NA	0.2 U
Selenium	1	NA	NA	NA	NA	NA	0.5 U
Silver	5	NA	NA	NA	NA	NA	0.1 U
XRF (ppm)							
Arsenic	39	**45.39**	7.73	15.02	18.81	10.55	12.88
Lead	400	312.06	17.26	167.4	108.37	36.87	94.95

Notes:

Bold and shaded - Concentration ex
mg/L - Milligrams per lit
NA - Not analyzed
ppm - parts per million
TCLP - Toxicity Characte
XRF - X-Ray Fluorescer
U - Analyte not dete

TABLE 1

35TH AVENUE REMOVAL

RESIDENTIAL PROPERTY SOIL BORING SAMPLING RESULTS

Sample ID	Comparison Level	CV0511-GP0_2ft	CV0511-GP2_4ft	CV0654B-GP0_2ft	CV0654B-GP2_4ft	CV1248A-HA0_6in	CV1248A-HA6_12in
Top Depth (ft)		0	2	0	2	0	0.5
Bottom Depth (ft)		2	4	2	4	0.5	1
Location		CV0511-GP	CV0511-GP	CV0654B-GP	CV0654B-GP	CV1248-GP	CV1248-GP
Matrix		Surface Soil	Subsurface Soil	Surface Soil	Subsurface Soil	Surface Soil	Surface Soil
Sample Type		Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample
TCLP (mg/L)							
Arsenic	5	NA	NA	NA	NA	NA	NA
Barium	100	NA	NA	NA	NA	NA	NA
Cadmium	1	NA	NA	NA	NA	NA	NA
Chromium	5	NA	NA	NA	NA	NA	NA
Lead	5	NA	NA	NA	NA	NA	NA
Selenium	1	NA	NA	NA	NA	NA	NA
Silver	5	NA	NA	NA	NA	NA	NA
XRF (ppm)							
Arsenic	39	9.58	5.51	24.08	26.48	25.98	34.55
Lead	400	24.1	16.38	95.48	35.69	303.54	288.56

Notes:

Bold and shaded - Concentration ex
mg/L - Milligrams per lit
NA - Not analyzed
ppm - parts per million
TCLP - Toxicity Characte
XRF - X-Ray Fluorescer
U - Analyte not dete

TABLE 1
35TH AVENUE REMOVAL
RESIDENTIAL PROPERTY SOIL BORING SAMPLING RESULTS

Sample ID	Comparison Level	CV1248A-HA0_1ft	CV1248A-GP0_2ft	CV1248A-GP2_4ft	FM0139A-GP0_6in	FM0139A-GP6_12in	FM0139A-GP0_1ft
Top Depth (ft)		0	0	2	0	0.5	0
Bottom Depth (ft)		1	2	4	0.5	1	1
Location		CV1248-GP	CV1248-GP	CV1248-GP	FM0139-GP	FM0139-GP	FM0139-GP
Matrix		Surface Soil	Surface Soil	Subsurface Soil	Surface Soil	Surface Soil	Subsurface Soil
Sample Type		Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample
TCLP (mg/L)							
Arsenic	5	0.2 U	NA	NA	NA	NA	0.2 U
Barium	100	1 U	NA	NA	NA	NA	1 U
Cadmium	1	0.1 U	NA	NA	NA	NA	0.1 U
Chromium	5	0.2 U	NA	NA	NA	NA	0.2 U
Lead	5	0.2 U	NA	NA	NA	NA	0.2 U
Selenium	1	0.5 U	NA	NA	NA	NA	0.5 U
Silver	5	0.1 U	NA	NA	NA	NA	0.1 U
XRF (ppm)							
Arsenic	39	26.89	26.32	9.12	17.72	24.91	27.67
Lead	400	272.07	178.75	17.58	72.64	17.56	82.82

Notes:

Bold and shaded - Concentration ex
mg/L - Milligrams per lit
NA - Not analyzed
ppm - parts per million
TCLP - Toxicity Characte
XRF - X-Ray Fluorescer
U - Analyte not dete

TABLE 1

35TH AVENUE REMOVAL

RESIDENTIAL PROPERTY SOIL BORING SAMPLING RESULTS

Sample ID	Comparison Level	FM0139A-GP12_18in	FM0139A-GP18_24ft	FM0139A-GP3ft	FM0139A-GP4ft	FM0195C-GP0_6in	FM0195C-GP6_12in
Top Depth (ft)		1	1.5	3	4	0	0.5
Bottom Depth (ft)		1.5	2	3	4	0.5	1
Location		FM0139-GP	FM0139-GP	FM0139-GP	FM0139-GP	FM0195-GP	FM0195-GP
Matrix		Surface Soil	Subsurface Soil	Subsurface Soil	Subsurface Soil	Surface Soil	Surface Soil
Sample Type		Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample
TCLP (mg/L)							
Arsenic	5	NA	NA	NA	NA	NA	NA
Barium	100	NA	NA	NA	NA	NA	NA
Cadmium	1	NA	NA	NA	NA	NA	NA
Chromium	5	NA	NA	NA	NA	NA	NA
Lead	5	NA	NA	NA	NA	NA	NA
Selenium	1	NA	NA	NA	NA	NA	NA
Silver	5	NA	NA	NA	NA	NA	NA
XRF (ppm)							
Arsenic	39	20.66	21.08	19.02	16.18	**216.15**	12.7
Lead	400	13.93	12.5	13.35	10.73	**1699.05**	108.41

Notes:

Bold and shaded - Concentration ex
mg/L - Milligrams per lit
NA - Not analyzed
ppm - parts per million
TCLP - Toxicity Characte
XRF - X-Ray Fluorescer
U - Analyte not dete

TABLE 1

35TH AVENUE REMOVAL

RESIDENTIAL PROPERTY SOIL BORING SAMPLING RESULTS

Sample ID	Comparison Level	FM0195C-GP0_1ft	FM0195C-SURF1ft	FM0195C-GP12_18in	FM0195C-GP18_24in	FM0195C-GP3ft	FM0195C-GP4ft
Top Depth (ft)		0	0	1	1.5	3	4
Bottom Depth (ft)		1	1	1.5	2	3	4
Location		FM0195-GP	FM0195-GP	FM0195-GP	FM0195-GP	FM0195-GP	FM0195-GP
Matrix		Surface Soil	Surface Soil	Surface Soil	Surface Soil	Subsurface Soil	Subsurface Soil
Sample Type		Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample
TCLP (mg/L)							
Arsenic	5	0.2 U	NA	NA	NA	NA	NA
Barium	100	1 U	NA	NA	NA	NA	NA
Cadmium	1	0.1 U	NA	NA	NA	NA	NA
Chromium	5	0.2 U	NA	NA	NA	NA	NA
Lead	5	**39**	NA	NA	NA	NA	NA
Selenium	1	0.5 U	NA	NA	NA	NA	NA
Silver	5	0.1 U	NA	NA	NA	NA	NA
XRF (ppm)							
Arsenic	39	**82.23**	**83.97**	2.16	7.04	10.84	7.05
Lead	400	**2638.35**	**2262.86**	9.83	12.25	14.79	14.48

Notes:

Bold and shaded - Concentration ex
mg/L - Milligrams per lit
NA - Not analyzed
ppm - parts per million
TCLP - Toxicity Characte
XRF - X-Ray Fluorescer
U - Analyte not dete

TABLE 1

35TH AVENUE REMOVAL

RESIDENTIAL PROPERTY SOIL BORING SAMPLING RESULTS

Sample ID	Comparison Level	FM0265B-GP0_6in	FM0265B-GP6_12in	FM0265B-GP0_1ft	FM0265B-GP12_18in	FM0265B-GP18_24in	FM0265B-GP3ft
Top Depth (ft)		0	0.5	0	1	1.5	3
Bottom Depth (ft)		0.5	1	1	1.5	2	3
Location		FM0265-GP	FM0265-GP	FM0265-GP	FM0265-GP	FM0265-GP	FM0265-GP
Matrix		Surface Soil	Surface Soil	Subsurface Soil	Surface Soil	Surface Soil	Subsurface Soil
Sample Type		Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample
TCLP (mg/L)							
Arsenic	5	NA	NA	0.2 U	NA	NA	NA
Barium	100	NA	NA	1.1	NA	NA	NA
Cadmium	1	NA	NA	0.1 U	NA	NA	NA
Chromium	5	NA	NA	0.2 U	NA	NA	NA
Lead	5	NA	NA	1.5	NA	NA	NA
Selenium	1	NA	NA	0.5 U	NA	NA	NA
Silver	5	NA	NA	0.1 U	NA	NA	NA
XRF (ppm)							
Arsenic	39	34.76	11.51	< LOD	8.41	10.16	7.12
Lead	400	**898.9**	55.67	**878.19**	21	27.4	29.73

Notes:

Bold and shaded - Concentration ex
mg/L - Milligrams per lit
NA - Not analyzed
ppm - parts per million
TCLP - Toxicity Characte
XRF - X-Ray Fluorescer
U - Analyte not dete

TABLE 1
35TH AVENUE REMOVAL
RESIDENTIAL PROPERTY SOIL BORING SAMPLING RESULTS

Sample ID	Comparison Level	FM0265B-GP4ft	FM0351B-HA0_6in	FM0351B-HA6_12in	FM0351B-HA0_1ft	FM0351B-HA12_18in	FM0351B-HA18_24in
Top Depth (ft)		4	0	0.5	0	1	1.5
Bottom Depth (ft)		4	0.5	1	1	1.5	2
Location		FM0265-GP	FM0351-GP	FM0351-GP	FM0351-GP	FM0351-GP	FM0351-GP
Matrix		Subsurface Soil	Surface Soil	Surface Soil	Surface Soil	Surface Soil	Surface Soil
Sample Type		Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample
TCLP (mg/L)							
Arsenic	5	NA	NA	NA	0.2 U	NA	NA
Barium	100	NA	NA	NA	1 U	NA	NA
Cadmium	1	NA	NA	NA	0.1 U	NA	NA
Chromium	5	NA	NA	NA	0.2 U	NA	NA
Lead	5	NA	NA	NA	0.2 U	NA	NA
Selenium	1	NA	NA	NA	0.5 U	NA	NA
Silver	5	NA	NA	NA	0.1 U	NA	NA
XRF (ppm)							
Arsenic	39	5.91	27.31	**40.33**	27.59	6.69	5.17
Lead	400	25.41	124.11	67.69	112.42	19.34	13.17

Notes:

Bold and shaded - Concentration ex
mg/L - Milligrams per lit
NA - Not analyzed
ppm - parts per million
TCLP - Toxicity Characte
XRF - X-Ray Fluorescer
U - Analyte not dete

TABLE 1
35TH AVENUE REMOVAL
RESIDENTIAL PROPERTY SOIL BORING SAMPLING RESULTS

Sample ID	Comparison Level	HP0023A-GP0_2ft	HP0023A-GP2_4ft	HP0025A-GP0_2ft	HP0025A-GP2_4ft	HP0025B-GP0_6in	HP0025B-GP0_1ft
Top Depth (ft)		0	2	0	2	0	0
Bottom Depth (ft)		2	4	2	4	0.5	1
Location		HP0023-GP	HP0023-GP	HP0025A-GP	HP0025A-GP	HP0025B-GP	HP0025B-GP
Matrix		Surface Soil	Subsurface Soil	Surface Soil	Subsurface Soil	Surface Soil	Surface Soil
Sample Type		Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample
TCLP (mg/L)							
Arsenic	5	NA	NA	NA	NA	NA	0.2 U
Barium	100	NA	NA	NA	NA	NA	3.8
Cadmium	1	NA	NA	NA	NA	NA	0.1 U
Chromium	5	NA	NA	NA	NA	NA	0.2 U
Lead	5	NA	NA	NA	NA	NA	1
Selenium	1	NA	NA	NA	NA	NA	0.5 U
Silver	5	NA	NA	NA	NA	NA	0.1 U
XRF (ppm)							
Arsenic	39	19.1	27.69	34.45	14.89	**52.28**	**74.38**
Lead	400	78.65	82.05	106.02	17.38	**970.08**	**801.81**

Notes:

Bold and shaded - Concentration ex
mg/L - Milligrams per lit
NA - Not analyzed
ppm - parts per million
TCLP - Toxicity Characte
XRF - X-Ray Fluorescer
U - Analyte not dete

TABLE 1
35TH AVENUE REMOVAL
RESIDENTIAL PROPERTY SOIL BORING SAMPLING RESULTS

Sample ID	Comparison Level	HP0025B-GP6in	HP0025B-GP12_18ft	HP0025B-GP24in	HP0025B-GP2_4ft	HP0037B-HA0_6in	HP0037B-HA6_12in
Top Depth (ft)		0.5	1	2	2	0	0.5
Bottom Depth (ft)		0.5	1.5	2	4	0.5	1
Location		HP0025B-GP	HP0025B-GP	HP0025B-GP	HP0025B-GP	HP0037-GP	HP0037-GP
Matrix		Surface Soil	Surface Soil	Surface Soil	Subsurface Soil	Surface Soil	Surface Soil
Sample Type		Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample
TCLP (mg/L)							
Arsenic	5	NA	NA	NA	NA	NA	NA
Barium	100	NA	NA	NA	NA	NA	NA
Cadmium	1	NA	NA	NA	NA	NA	NA
Chromium	5	NA	NA	NA	NA	NA	NA
Lead	5	NA	NA	NA	NA	NA	NA
Selenium	1	NA	NA	NA	NA	NA	NA
Silver	5	NA	NA	NA	NA	NA	NA
XRF (ppm)							
Arsenic	39	**75.05**	**60.8**	20.29	17.26	28.06	14.46
Lead	400	**553.58**	295.79	43.86	34.55	131.4	220.42

Notes:

Bold and shaded - Concentration ex
mg/L - Milligrams per lit
NA - Not analyzed
ppm - parts per million
TCLP - Toxicity Characte
XRF - X-Ray Fluorescer
U - Analyte not dete

TABLE 1
35TH AVENUE REMOVAL
RESIDENTIAL PROPERTY SOIL BORING SAMPLING RESULTS

Sample ID	Comparison Level	HP0037B-HA0_1ft	HP0037B-GP0_2ft	HP0037B-GP2_4ft	HP0062A-GP0_2ft	HP0062A-GP2_4ft	HP0113A-GP0_2ft
Top Depth (ft)		0	0	2	0	2	0
Bottom Depth (ft)		1	2	4	2	4	2
Location		HP0037-GP	HP0037-GP	HP0037-GP	HP0062-GP	HP0062-GP	HP0113-GP
Matrix		Surface Soil	Surface Soil	Subsurface Soil	Surface Soil	Subsurface Soil	Surface Soil
Sample Type		Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample
TCLP (mg/L)							
Arsenic	5	0.2 U	NA	NA	NA	NA	NA
Barium	100	1 U	NA	NA	NA	NA	NA
Cadmium	1	0.1 U	NA	NA	NA	NA	NA
Chromium	5	0.2 U	NA	NA	NA	NA	NA
Lead	5	0.2 U	NA	NA	NA	NA	NA
Selenium	1	0.5 U	NA	NA	NA	NA	NA
Silver	5	0.1 U	NA	NA	NA	NA	NA
XRF (ppm)							
Arsenic	39	27.96	12.35	8.98	26.47	10.95	21.97
Lead	400	146.65	122.45	17.39	49.53	14.13	72.09

Notes:

Bold and shaded - Concentration ex
mg/L - Milligrams per lit
NA - Not analyzed
ppm - parts per million
TCLP - Toxicity Characte
XRF - X-Ray Fluorescer
U - Analyte not dete

TABLE 1

35TH AVENUE REMOVAL

RESIDENTIAL PROPERTY SOIL BORING SAMPLING RESULTS

Sample ID	Comparison Level	HP0113A-GP2_4ft	HP0192B-GP0_6in	HP0192B-GP6_12in	HP0192B-GP0_1ft	HP0192B-GP12_18in	HP0192B-GP18_24in
Top Depth (ft)		2	0	0.5	0	1	1.5
Bottom Depth (ft)		4	0.5	1	1	1.5	2
Location		HP0113-GP	HP0192-GP	HP0192-GP	HP0192-GP	HP0192-GP	HP0192-GP
Matrix		Subsurface Soil	Surface Soil	Surface Soil	Surface Soil	Surface Soil	Surface Soil
Sample Type		Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample
TCLP (mg/L)							
Arsenic	5	NA	NA	NA	0.2 U	NA	NA
Barium	100	NA	NA	NA	1 U	NA	NA
Cadmium	1	NA	NA	NA	0.1 U	NA	NA
Chromium	5	NA	NA	NA	0.2 U	NA	NA
Lead	5	NA	NA	NA	0.2 U	NA	NA
Selenium	1	NA	NA	NA	0.5 U	NA	NA
Silver	5	NA	NA	NA	0.1 U	NA	NA
XRF (ppm)							
Arsenic	39	21.15	33.88	**57.71**	**159.21**	9.39	23.5
Lead	400	15.39	**2564.97**	**1065.9**	**3230.38**	106.45	62.96

Notes:

Bold and shaded - Concentration ex
mg/L - Milligrams per lit
NA - Not analyzed
ppm - parts per million
TCLP - Toxicity Characte
XRF - X-Ray Fluorescer
U - Analyte not dete

TABLE 1
35TH AVENUE REMOVAL
RESIDENTIAL PROPERTY SOIL BORING SAMPLING RESULTS

Sample ID	Comparison Level	HP0192B-GP3ft	HP0192B-GP4ft	HP0204B-HA0_6in	HP0204B-HA6_12in	HP0204B-HA0_1ft	HP0228-GP6in
Top Depth (ft)		3	4	0	0.5	0	0.5
Bottom Depth (ft)		3	4	0.5	1	1	0.5
Location		HP0192-GP	HP0192-GP	HP0204-GP	HP0204-GP	HP0204-GP	HP0228-GP
Matrix		Subsurface Soil	Subsurface Soil	Surface Soil	Surface Soil	Surface Soil	Surface Soil
Sample Type		Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample
TCLP (mg/L)							
Arsenic	5	NA	NA	NA	NA	0.2 U	NA
Barium	100	NA	NA	NA	NA	1 U	NA
Cadmium	1	NA	NA	NA	NA	0.1 U	NA
Chromium	5	NA	NA	NA	NA	0.2 U	NA
Lead	5	NA	NA	NA	NA	0.2 U	NA
Selenium	1	NA	NA	NA	NA	0.5 U	NA
Silver	5	NA	NA	NA	NA	0.1 U	NA
XRF (ppm)							
Arsenic	39	13.87	24.31	**44.5**	16.92	13.51	**55.32**
Lead	400	41.47	67.67	342.4	55.89	85.43	68.15

Notes:

Bold and shaded - Concentration ex
mg/L - Milligrams per lit
NA - Not analyzed
ppm - parts per million
TCLP - Toxicity Characte
XRF - X-Ray Fluorescer
U - Analyte not dete

TABLE 1

35TH AVENUE REMOVAL

RESIDENTIAL PROPERTY SOIL BORING SAMPLING RESULTS

Sample ID	Comparison Level	HP0228-GP12in	HP0228A-GP0_1ft
Top Depth (ft)		1	0
Bottom Depth (ft)		1	1
Location		HP0228-GP	HP0228-GP
Matrix		Surface Soil	Surface Soil
Sample Type		Field Sample	Field Sample
TCLP (mg/L)			
Arsenic	5	NA	0.2 U
Barium	100	NA	1 U
Cadmium	1	NA	0.1 U
Chromium	5	NA	0.2 U
Lead	5	NA	0.2 U
Selenium	1	NA	0.5 U
Silver	5	NA	0.1 U
XRF (ppm)			
Arsenic	39	32.97	**232.88**
Lead	400	13.2	**688.62**

Notes:

Bold and shaded - Concentration ex
mg/L - Milligrams per lit
NA - Not analyzed
ppm - parts per million
TCLP - Toxicity Characte
XRF - X-Ray Fluorescer
U - Analyte not dete

TABLE 2
35TH AVENUE REMOVAL
WALTER ENERGY SOIL BORING SAMPLING RESULTS

Analyte		WCRW-GP01-0_6in	WCRW-GP01-0_6inD	WCWL-GP04-3_4ft	WCWL-GP05-2_4ft	WCWL-GP06-2_3ft	WCWL-GP08-0_2ft	WCWL-GP08D-0_2ft
Top Depth (ft)		0	0	3	2	2	0	0
Bottom Depth (ft)	**Residential Soil**	0.5	0.5	4	4	3	2	2
Location	**RML**	WCRW-GP01	WCRW-GP01	WCRW-GP04	WCRW-GP05	WCRW-GP06	WCRW-GP08	WCRW-GP08
Matrix		Surface Soil	Surface Soil	Subsurface Soil	Subsurface Soil	Subsurface Soil	Surface Soil	Surface Soil
Sample Type		Field Sample	Field Duplicate	Field Sample	Field Sample	Field Sample	Field Sample	Field Duplicate
Metals, Total (mg/kg)								
Arsenic	39	4	4.3	NA	NA	NA	20	NA
Barium	46000	290	290	NA	NA	NA	230	NA
Cadmium	210	0.49 U	0.47 U	NA	NA	NA	6.7	NA
Chromium	NL	15	14	NA	NA	NA	57	NA
Lead	400	4.3	4.9	NA	NA	NA	**700**	NA
Selenium	1200	3.4	4	NA	NA	NA	2.5 U	NA
Silver	1200	0.99 U	0.93 U	NA	NA	NA	0.24 J	NA
PAH (ug/kg)								
1-Methylnaphthalene	1600000	42 U	NA	180	410	140	3600	1200
2-Methylnaphthalene	690000	42 U	NA	190	420	170	6500	2300
Acenaphthene	10000000	110 U	NA	120 U	520	110 U	3000	990
Acenaphthylene	NL	42 U	NA	62	170 U	54	3300	1800
Anthracene	52000000	8.9 U	NA	96	500	84	12000	5400
Benzo[a]anthracene	15000	8.5 U	NA	150	3300	180	**18000**	11000
Benzo[a]pyrene	1500	11 U	NA	55	**2600**	110	**12000**	**6200**
Benzo[b]fluoranthene	15000	9 J	NA	130	8200	180	13000	9800
Benzo[g,h,i]perylene	NL	21 U	NA	61	2900	92	7700	4000
Benzo[k]fluoranthene	150000	8.5 U	NA	79	2100	110	8300	3900
Chrysene	1500000	8.6 J	NA	250	7000	210	17000	12000
Dibenz(a,h)anthracene	1500	21 U	NA	24	1200	28	**3300**	**1800**
Fluoranthene	6900000	59	NA	190	3800	480	4300	16000
Fluorene	6900000	21 U	NA	70	450	65	12000	2700
Indeno[1,2,3-cd]pyrene	15000	21 U	NA	41	2200	77	7100	3800
Naphthalene	360000	42 U	NA	220	1200	150	6700	3000
Phenanthrene	NL	8.5 U	NA	310	1900	240	50000	14000
Pyrene	5200000	21	NA	160	2600	260	28000	13000

Notes:

Bold and shaded - Concentration exceeds the associated RML
J - Value is estimated
mg/kg - Milligrams per kilogram
NA - Not analyzed
NL - Comparison value not listed
PAH - Polycyclic aromatic hydrocarbons
RML - Removal Management Level
U - Analyte not detected above the reporting limti
ug/kg - Micrograms per kilogram

APPENDIX C

LOGBOOK NOTES

United States Environmental Protection Agency
Region 4

OTIE
Oneida Total Integrated Enterprises

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

35TH AVENUE REMOVAL INVESTIGATION
BIRMINGHAM, ALABAMA
JEFF CROWLEY, ON-SCENE COORDINATOR

FIELD SAMPLING LOGBOOK

Book 1 **of** ____

Inclusive Dates: 9/16/13 - 9/20/13

List of Sampling Team in logbook:

Name	Initials	Organization/Duties
Jerome Partap	JP	OTIE ,Team Leader
Ryan Stubbs	RS	OTIE
Nairimar Berrios-Cartagena	NBC	OTIE

Sampling Procedures and Methodology

Unless specified elsewhere in this logbook, all soil samples will be collected in accordance with the EPA Science and Ecosystem Division (SESD) Field Branches Quality System and Technical Procedures (FBQSTP) Soil Sampling (SESDPROC-300-R2) based on the following design.

The total number of 5-point composite surface soil samples (0-4 inches below ground surface) to be collected from each property will be based on the lot size as follows:

- For residential properties with a total parcel lot size equal to or less than (≤) 5,000 square feet - the front yard and back yards of each property. If the property has a substantial side yard (primarily corner lots), then one composite soil sample may also be collected from the side yard. Aliquots will be collected away from influences with drip lines and burn areas in a five dice configuration (each of the four corners and the center).
- For residential properties with a total parcel lot size greater than (>) 5,000 square feet and ≤ ¼-acre - the property should be divided into two roughly equal surface areas. If the property has a substantial side yard (primarily corner lots), then one composite soil sample may be collected from the side yard with the remainder of the property being divided into two roughly equal surface areas. Aliquots will be collected away from influences including drip lines and burn areas with reasonably equal spacing between aliquots.
- Residential properties over ¼-acre in parcel lot size will be divided into ¼-acre sections. When dividing any such property with a substantial side yard (primarily corner lots), one composite soil sample may be collected from the side yard. Aliquots will be collected away from influences including drip lines and burn areas in a five dice configuration, if possible, with reasonably equal spacing between aliquots.

Grab surface soil samples will be collected from apparent exposure pathways where active play sets are located.

Three-point composite surface soil samples will be collected from distinct vegetable gardens from each residential property.

Samples shall not be collected under paved areas or under stationary fixed structures.

Grab sediment samples will be collected in accordance with EPA SESD FBSTP Sediment Sampling (SESDPROC-200-R2) from any surface water drainage pathways located on individual properties, as directed by the OSC, and in and along the banks of the 34th Street North Ditch.

Each surface soil or sediment sample should be homogenized in a stainless steel bowl. One 8-ounce jar will be filled and the remaining sample material will be placed in zip-top bags for screening. Information identifying the location, sample, and date/time will be inscribed on each jar and zip-top bag.

All sample bags will be screened for metals in accordance with SESD FBQSTP Field XRF Measurement (SESDPROC-107-R2) using a Niton XRF. The sample will be dried before sieving or analysis is performed. Once the sample has dried, the sample will be divided into two subsamples; one subsample will be sieved through a #10 screen (2 mm) and the other will be left unsieved. Once separated into sieved and unsieved samples, the zip-top bag will be compressed by folding over the excess plastic and removing as much air and space from the sample as possible. The XRF will be placed directly on the exterior of the compressed sample in the plastic zip-top bag to measure metals concentrations. Following XRF screening, the unsieved portion of the sample material will be containerized into one 8-ounce jars and the sieved portion of the sample will be containerized into another 8-ounce jar.

Based on the site DQOs the 8-ounce jars of surface soil and sediment samples should be submitted to PEL, Tampa, Florida (a NELAC certified laboratory) for low level PAH, and/or TCL SVOC, RCRA metals, PCB, and/or Hexavalent Chromium analysis. RCRA metals will be analyzed from both the sieved and unsieved portions of the sample. All other analysis will be conducted on the unsieved portion.

The location of each aliquot will also be logged in accordance with SESD FBQSTP Global Positioning System (SESDPROC- 110-R3) using a Trimble GPS.

A description of the color and texture of the aliquot material will be recorded in each box.

The ***station ID*** for each location will consist of seven characters, beginning with the six digit Property ID designation for the property followed by a alphabetic letter beginning with "A".

e.g. CV0001A would be the station ID for the front yard 5-pt composite sample collected at the property with Property ID CV0001.

The ***sample ID*** for each sample is the station ID with "CS" (composite soil), "GS" (grab soil), "SD" (sediment), or "SW" (surface water) appended, therefore, the sample ID for this sample would be CV0001A-CS. Co-located duplicates will be designated by appending a "D" to the end of the sample ID. Pan splits will be identified by appending an "SP" to the end of the sample ID.

Residential sampling protocol
- Screen with XRF at 6", 12", 18", + 24"
- Collect TCLP sample from 0-1 foot

Rock wool area sampling protocol
- Screen with XRF at every foot interval.
- Collect sample at the foot interval with the highest XRF reading.

ADDRESS: 3400 33rd Terrace North PROPERTY ID: CVOS11AB
DATE: 9/17/13 ARRIVAL TIME: 0815

Other pertinent information (weather conditions, etc.):

PROPERTY COMMENTS:

DRAINAGE DITCH HAS TAR RUNOFF SO WILL MOVE LOCATION

GEOPROBE 6620DT

Carver School property

Grid for property sketch

0-2" - GRASS 0815
2"-4" - DK CLAY w/SILT, DRY, NO ODOR
4"-4 - BRWN CLAY w/SILT, STIFF, NO ODOR

BORING TERMINATED @ 4 FT

0-2 - 0815 ; AS - 10 ± 3 ; Pb - 24 ± 3
2-4 - 0900 ; AS - 6 ± 2 ; Pb - 16 ± 3

9/20/13 @ 0730

A SAMPLING ONSITE TO SAMPLE 0-1 FOR INTERVAL FOR TCLP METALS

0745 0-6" - AS - 19 ± 4 ; Pb - 108 ± 5
0750 6"-1 - AS - 11 ± 3 ; Pb - 37 ± 3

0800 0-1 SAMPLE
AS - 13 ± 4
Pb - 95 ± 5

STATION ID: CV0511AB SAMPLE ID: CV0511AB-GPO-2

SAMPLE COLLECTION TIME: 0855

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

Collection: Composite or (Grab) MS/MSD? Y or (N)

Field Duplicate or Split: *Yes or* (No) *If yes, indicate* Duplicate/split sample station ID: N/A

GPS Coordinates: Trimble [X] Instrument #: Logged? (Y) or N

Aliquot #1: *Latitude:* 33.558093 N *Longitude* 86.796284 W

Media description: refer to page 6

Aliquot #2 *Latitude:* N *Longitude* W

Media description:

Aliquot #3: *Latitude:* N *Longitude* W

Media description:

Aliquot #4: *Latitude:* N *Longitude* W

Media description:

Aliquot #5: *Latitude:* N *Longitude* W

Media description:

STATION ID: CV0511AB SAMPLE ID: CV0511AB-HAO-1ft

SAMPLE COLLECTION TIME: 0800 9/20/2013

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

Collection: Composite or (Grab) MS/MSD? Y or (N)

Field Duplicate or Split: *Yes or No If yes, indicate* Duplicate/split sample station ID:

GPS Coordinates: Trimble [X] Instrument #: Logged? (Y) or N

Aliquot #1: *Latitude:* 33.558093 N *Longitude* 86.796284 W

Media description: refer to page 6

(AK) this information is good

Aliquot #2 *Latitude:* N *Longitude* W

Media description:

Aliquot #3: *Latitude:* N *Longitude* W

Media description:

Aliquot #4: *Latitude:* N *Longitude* W

Media description:

Aliquot #5: *Latitude:* N *Longitude* W

Media description:

CV0409A

ADDRESS: 3385 33RD PL N PROPERTY ID: ~~CV0409~~

DATE: 9/17/13 ARRIVAL TIME: 0915

Other pertinent information (weather conditions, etc.):

SUNNY, CLEAR 78°F

PROPERTY COMMENTS:

VACANT RESIDENCE

Grid for property sketch

0945 0-2" - GRASS, TOPSOIL; TRACE COAL FRAGS
2"-1 - REDDISH ~~CLAY~~ CLAY w/SILT w/GRAVEL, DRY, NO ODOR
1-2 - BRN ~~CLAY~~ CLAY w/SILT, DRY, NO ODOR

0950 2-4 - BRN ~~CLAY~~ CLAY w/SILT, DRY, NO ODOR

BORING TERMINATED @ 4FT

0-2 - AS - 45 ± 8; Pb - 312 ± 10

2-4 - AS - 8 ± 2; Pb - 17 ± 3

COMPLETED @ 1000

9/19/13 @ 1520

Δ IN PROTOCOL RESAMPLING 0-1 INTERVAL

1525 0-6" - AS - 13 ± 4; Pb - 130 ± 6

1530 6" - 1 - AS - 32 ± 5; Pb - 114 ± 6

1535 0-1 SAMPLE
AS - 17 ± 4
Pb - 130 ± 6

STATION ID: CV0409A SAMPLE ID: CV0409A-SD0-2 ft

SAMPLE COLLECTION TIME: 0945

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

Collection: Composite or (Grab) MS/MSD? Y or (N)

Field Duplicate or Split: *Yes or* (No) *If yes, indicate* Duplicate/split sample station ID: N/A

GPS Coordinates: Trimble [X] Instrument #: Logged? (Y) or N

Aliquot #1: *Latitude:* 33.558271 N *Longitude* 86.799376 W

Media description: refer to page 8

Aliquot #2 *Latitude:* N *Longitude* W

Media description:

Aliquot #3: *Latitude:* N *Longitude* W

Media description:

Aliquot #4: *Latitude:* N *Longitude* W

Media description:

Aliquot #5: *Latitude:* N *Longitude* W

Media description:

STATION ID: CV0409A SAMPLE ID: CV0409A-HA0-1ft

SAMPLE COLLECTION TIME: 1535 9/19/2013

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

Collection: Composite or (Grab) MS/MSD? Y or (N)

Field Duplicate or Split: *Yes or* (No) *If yes, indicate* Duplicate/split sample station ID:

GPS Coordinates: Trimble [X] Instrument #: Logged? (Y) or N

Aliquot #1: *Latitude:* 33.558271 N *Longitude* 86.799376 W

Media description: refer to page 8

this is good information

Aliquot #2 *Latitude:* N *Longitude* W

Media description:

Aliquot #3: *Latitude:* N *Longitude* W

Media description:

Aliquot #4: *Latitude:* N *Longitude* W

Media description:

Aliquot #5: *Latitude:* N *Longitude* W

Media description:

ADDRESS: 3394 33rd Place North PROPERTY ID: CV0003A

DATE: 9/17/13 ARRIVAL TIME: 1007

Other pertinent information (weather conditions, etc.):

SUNNY, CLEAR 78°F

PROPERTY COMMENTS:

VACANT

Grid for property sketch

1010 0-½" - GRASS, TOPSOIL W/COAL FRAGS

4"-2 - BWN CLAY W/SILT, DRY, NO ODOR

1015 2-4 - BWN CLAY W/SILT W/OXIDATION, DRY, NO ODOR

BORING TERMINATED @4FT

0-2 - AS - 44 ± 7 ; Pb - 242 ± 8

2-4 - AS - 8 ± 2 ; Pb - 18 ± 3

COMPLETED @ 1025

9/19/13 @1540

SAMPLING PROTOCOL; SAMPLING 0-1 FT INTERVAL

1545 0-6" - AS - 19 ± 5 ; Pb - 169 ± 7

1550 6"-1 - AS - 15 ± 5; Pb - 167 ± 7

1555 0-1 - SAMPLE

AS - 13 ± 4

Pb - 143 ± 6

STATION ID: CV0003A SAMPLE ID: CV0003A-GP02ft

SAMPLE COLLECTION TIME: 1010

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

Collection: Composite or (Grab) MS/MSD? Y or (N)

Field Duplicate or Split: *Yes or* (No) *If yes, indicate* Duplicate/split sample station ID: N/A

GPS Coordinates: Trimble [X] Instrument #: Logged? (Y) or N

Aliquot #1: *Latitude:* 33.558756 N *Longitude* 86.799032 W

Media description: refer to page 10

Aliquot #2 *Latitude:* N *Longitude* W

Media description:

Aliquot #3: *Latitude:* N *Longitude* W

Media description:

Aliquot #4: *Latitude:* N *Longitude* W

Media description:

Aliquot #5: *Latitude:* N *Longitude* W

Media description:

STATION ID: CV0003A SAMPLE ID: CV0003-HA0-1ft

SAMPLE COLLECTION TIME: 1555 9/19/2013

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

Collection: Composite or (Grab) MS/MSD? Y or (N)

Field Duplicate or Split: *Yes or No If yes, indicate* Duplicate/split sample station ID:

GPS Coordinates: Trimble [X] Instrument #: Logged? (Y) or N

Aliquot #1: *Latitude:* 33.558756 N *Longitude* 86.799032 W

Media description:

Aliquot #2 *Latitude:* N *Longitude* W

Media description:

Aliquot #3: *Latitude:* N *Longitude* W

Media description:

Aliquot #4: *Latitude:* N *Longitude* W

Media description:

Aliquot #5 *Latitude:* N *Longitude* W

Media description:

ADDRESS: 3705 Huntsville Road PROPERTY ID: CV0654B

DATE: 9/17/13 ARRIVAL TIME: 1035

Other pertinent information (weather conditions, etc.):

Sunny, clear 80°F

PROPERTY COMMENTS:

VACANT HOUSE

Grid for property sketch

1040 0-~~4~~" - GRASS, TOPSOIL, COAL FRAGS

4"-2- BRWN ~~SILTY CLAY~~ CLAY w/ SILT, DRY, NO ODOR

1045 2-~~4~~ - BWN ~~SILTY CLAY~~ CLAY w/ SILT, DRY, NO ODOR

BORING TERMINATED @ 4FT

0-2 - AS - 24 ± 4 ; Pb - 95 ± 5

2-4 - AS - 26 ± 3 ; Pb - 36 ± 4

COMPLETED @ 1100

STATION ID: CU0654B SAMPLE ID: CU0654B-GPO-2

SAMPLE COLLECTION TIME: 1090

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

Collection: Composite or (Grab) MS/MSD? Y or N

Field Duplicate or Split: *Yes or* (No) *If yes, indicate* Duplicate/split sample station ID: N/A

GPS Coordinates: Trimble [X] Instrument #: Logged? (Y) or N

Aliquot #1: *Latitude:* 33.55902 N *Longitude* 86.800686 W

Media description: refer to page 12

Aliquot #2 *Latitude:* N *Longitude* W

Media description:

Aliquot #3: *Latitude:* N *Longitude* W

Media description:

Aliquot #4: *Latitude:* N *Longitude* W

Media description:

Aliquot #5: *Latitude:* N *Longitude* W

Media description:

STATION ID: SAMPLE ID:

SAMPLE COLLECTION TIME:

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

Collection: Composite or Grab MS/MSD? Y or N

Field Duplicate or Split: *Yes or No If yes, indicate* Duplicate/split sample station ID:

GPS Coordinates: Trimble [ ] Instrument #: Logged? Y or N

Aliquot #1: *Latitude:* N *Longitude* W

Media description:

Aliquot #2 *Latitude:* N *Longitude* W

Media description:

Aliquot #3: *Latitude:* N *Longitude* W

Media description:

Aliquot #4 *Latitude:* N *Longitude* W

Media description:

Aliquot #5 *Latitude* N *Longitude* W

Media description:

ADDRESS: 3432 31st Way North PROPERTY ID: CV0186B

DATE: 9/17/13 ARRIVAL TIME: 1120

Other pertinent information (weather conditions, etc.):
Sunny + ~80°F

PROPERTY COMMENTS:
Vacant lot adjacent to church

Grid for property sketch

1125 0-6" H gray to dk gray sandy silt no odor
6"-2' tan clay no odor
1130 2'-4' tan clay no odor
Boring terminated at 4 ft.

0-2' As 30 ± 5
Pb 141 ± 6

0-4' As 11 ± 2
Pb 19 ± 3
Completed at 1140

9/20/13 @ 0905 0 SAMPLE INSTEAD 0-1 TCLP SAMPLE

0908 0-6" - As - 42 ± 7; Pb - 356 ± 9
0910 6"-1' - As - 42 ± 6; Pb - 252 ± 8

0915 0-1 SAMPLE
As - 30 ± 6
Pb - 254 ± 8

STATION ID: CV0186 SAMPLE ID: CV0186B-GP0-2

SAMPLE COLLECTION TIME: 1125

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

Collection: Composite or (Grab) MS/MSD? Y or (N)

Field Duplicate or Split: *Yes or* (No) *If yes, indicate* Duplicate/split sample station ID: N/A

GPS Coordinates: Trimble [X] Instrument #: Logged? (Y) or N

Aliquot #1: *Latitude:* 33.559531 N *Longitude* 86.804394 W

Media description: refer to page 14

Aliquot #2 *Latitude:* N *Longitude* W

Media description:

Aliquot #3: *Latitude:* N *Longitude* W

Media description:

Aliquot #4: *Latitude:* N *Longitude* W

Media description:

Aliquot #5: *Latitude:* N *Longitude* W

Media description:

STATION ID: CV0186B SAMPLE ID: CV0186B-HA0-1ft

SAMPLE COLLECTION TIME: 0925 9/19/2013

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

Collection: Composite or (Grab) MS/MSD? Y or (N)

Field Duplicate or Split: *Yes or No If yes, indicate* Duplicate/split sample station ID:

GPS Coordinates: Trimble [X] Instrument #: Logged? (Y) or N

Aliquot #1: *Latitude:* 33.559531 N *Longitude* 86.804394 W

Media description: refer to page 14

Aliquot #2 *Latitude:* N *Longitude* W

Media description:

Aliquot #3: *Latitude:* N *Longitude* W

Media description:

Aliquot #4 *Latitude:* N *Longitude* W

Media description:

Aliquot #5 *Latitude* N *Longitude* W

Media description:

ADDRESS: 3212 32nd St. North PROPERTY ID: CV02463

DATE: 9/17/13 ARRIVAL TIME: 1302

Other pertinent information (weather conditions, etc.):

SUNNY, CLEAR 81°F

PROPERTY COMMENTS:

PER OSC - DPT UNABLE TO ACCESS PROPERTY, WILL HAND AUGER BACKYARD TO 8FT FOR TCLP SAMPLE

OUTSIDE FENCE IN ALLEY CURVET 4FT SLEEVE TO DETERMINE STRATIGRAPHY ONLY

Grid for property sketch

1300 0-1 - GRASS, TOPSOIL, ~~SILTY~~ SANDY CLAY W/ COAL FRAGS NO ODOR

~~AS~~ AS - 78 ± 12 ; Pb - 1007 ± 4

DPT BOMING IN ALLEY OUTSIDE FENCE

1315 0-6" - GRASS, TOPSOIL, COAL FRAGS, 40% REC

6"-4 - BWN ~~SILTY CLAY~~ CLAY W/SILT, DRY, NO ODOR

1320 4-8 - BWN ~~SILTY CLAY~~ CLAY W/SILT, DRY, NO ODOR, 60%

COMPLETED 1325

STATION ID: CV0246B SAMPLE ID: CV0246B-AA0-1

SAMPLE COLLECTION TIME: 1300

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

Collection: Composite or (Grab) MS/MSD? Y or (N)

Field Duplicate or Split: *Yes or* (No) *If yes, indicate* Duplicate/split sample station ID: _____

GPS Coordinates: Trimble [X] Instrument #: _____ Logged? (Y) or N

Aliquot #1: *Latitude:* 33.555496 N *Longitude* 86.803154 W

Media description: _____

Aliquot #2 *Latitude:* _____ N *Longitude* _____ W

Media description: _____

Aliquot #3: *Latitude:* _____ N *Longitude* _____ W

Media description: _____

Aliquot #4: *Latitude:* _____ N *Longitude* _____ W

Media description: _____

Aliquot #5: *Latitude:* _____ N *Longitude* _____ W

Media description: _____

STATION ID: _____ SAMPLE ID: _____

SAMPLE COLLECTION TIME: _____

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

Collection: Composite or Grab MS/MSD? Y or N

Field Duplicate or Split: *Yes or No If yes, indicate* Duplicate/split sample station ID: _____

GPS Coordinates: Trimble [ ] Instrument #: _____ Logged? Y or N

Aliquot #1: *Latitude:* _____ N *Longitude* _____ W

Media description: _____

Aliquot #2 *Latitude:* _____ N *Longitude* _____ W

Media description: _____

Aliquot #3: *Latitude:* _____ N *Longitude* _____ W

Media description: _____

Aliquot #4: *Latitude:* _____ N *Longitude* _____ W

Media description: _____

Aliquot #5: *Latitude:* _____ N *Longitude* _____ W

Media description: _____

ADDRESS: 3146 31st Ave. North PROPERTY ID: CV00608

DATE: 9/17/13 ARRIVAL TIME: 1330

Other pertinent information (weather conditions, etc.):

SUNNY, CLEAR 85°F

PROPERTY COMMENTS:

VACANT HOUSE

Grid for property sketch

1340 0-1 GRASS, TOPSOIL, COAL FRAGS

1-3.5 - DK BWN CLAY W/ SILT ~~SILTY CLAY~~, DRY, NO ODOR 80% REC

1345 3.5-4 - BWN CLAY W/ SILT ~~SILTY CLAY~~, DRY, NO ODOR

BORING TERMINATED @ 4FT

0-2 - AS - 43 ± 6 ; Pb - 193 ± 3

2-4 - AS - 19 ± 3 ; Pb - 38 ± 4

COMPLETED @ 1350

9/20/13 @ 0820 Δ SAMPLE PROTOCOL

0825 0-6" - AS - 55 ± 8 ; Pb - 422 ± 10

0830 6"-1 - AS - 33 ± 6 ; Pb - 290 ± 8

0835 0-1 - SAMPLE

AS - 61 ± 9 ; Pb - 508 ± 911

STATION ID: CV0060B SAMPLE ID: CV0060B-GP0-2

SAMPLE COLLECTION TIME: 1340

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

Collection: Composite or (Grab) MS/MSD? Y or (N)

Field Duplicate or Split: *Yes or* (No) *If yes, indicate* Duplicate/split sample station ID: N/A

GPS Coordinates: Trimble [X] Instrument #: Logged? (Y) or N

Aliquot #1: *Latitude:* 33.554403 N *Longitude* 86.803114 W

Media description: refer to page 18

Aliquot #2 *Latitude:* N *Longitude* W

Media description:

Aliquot #3: *Latitude:* N *Longitude* W

Media description:

Aliquot #4: *Latitude:* N *Longitude* W

Media description:

Aliquot #5: *Latitude:* N *Longitude* W

Media description:

STATION ID: CV0060B SAMPLE ID: CV0060B-HA0-1ft

SAMPLE COLLECTION TIME: 0835 9/20/2013

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

Collection: Composite or (Grab) MS/MSD? Y or (N)

Field Duplicate or Split: *Yes or No If yes, indicate* Duplicate/split sample station ID:

GPS Coordinates: Trimble [X] Instrument #: Logged? (Y) or N

Aliquot #1: *Latitude:* 33.554403 N *Longitude* 86.803114 W

Media description: refer to page 18

Aliquot #2 *Latitude:* N *Longitude* W

Media description:

Aliquot #3: *Latitude:* N *Longitude* W

Media description:

Aliquot #4: *Latitude:* N *Longitude* W

Media description:

Aliquot #5: *Latitude:* N *Longitude* W

Media description:

ADDRESS: 3336 32nd Place N. PROPERTY ID: CV0232

DATE: 9/17/13 ARRIVAL TIME: 1400

Other pertinent information (weather conditions, etc.):

SUNNY, CLEAR 86°F

PROPERTY COMMENTS:

Access to the backyard thru drive way

RESIDENTIAL

Grid for property sketch

1420 0 - 2" - GRASS, TOPSOIL, BLACK SAND w/ GRAVEL FRAGS, RED BRICK DEBRIS 80% REC

1425 2-4 - BRN CLAY w/ SILT, STIFF, NO ODOR

BORING TERMINATED @ 4 FT

0-2 — AS - 86 ± 10 ; Pb - 545 ± 13

2-4 — AS - 77 ± 9 ; Pb - 446 ± 11

COMPLETED @ 1435

9/20/13 @ 0845

0847 0-6" - AS - 146 ± 22 ; Pb - 2903 ± 29

0850 6" - 1 - AS - 65 ± 7 ; Pb - 310 ± 9

0855 0-1 SAMPLE - AS D - 119 ± 13 ; Pb - 1095 ± 17

STATION ID: CV0232B SAMPLE ID: CV0232B-SP0-2

SAMPLE COLLECTION TIME: 1420

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

Collection: Composite or (Grab) MS/MSD? Y or (N)

Field Duplicate or Split: *Yes or* (No) *If yes, indicate* Duplicate/split sample station ID: N/A

GPS Coordinates: Trimble (Y) Instrument #: Logged? (Y) or N

Aliquot #1: *Latitude:* 33.556869 N *Longitude* 86.802018 W

Media description: refer to page 20

Aliquot #2 *Latitude:* N *Longitude* W

Media description:

Aliquot #3: *Latitude:* N *Longitude* W

Media description:

Aliquot #4: *Latitude:* N *Longitude* W

Media description:

Aliquot #5: *Latitude:* N *Longitude* W

Media description:

STATION ID: CV0232B SAMPLE ID: CV0232B-HA0-1 ft

SAMPLE COLLECTION TIME: 0855 9/20/2013

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

Collection: Composite or (Grab) MS/MSD? Y or (N)

Field Duplicate or Split: *Yes or* (No) *If yes, indicate* Duplicate/split sample station ID:

GPS Coordinates: Trimble (Y) Instrument #: Logged? Y or (N)

Aliquot #1: *Latitude:* 33.556869 N *Longitude* 86.802018 W

Media description: refer to page 20

Aliquot #2 *Latitude:* N *Longitude* W

Media description:

Aliquot #3: *Latitude:* N *Longitude* W

Media description:

Aliquot #4: *Latitude:* N *Longitude* W

Media description:

Aliquot #5: *Latitude:* N *Longitude* W

Media description:

ADDRESS: 3412 29th Ave. North PROPERTY ID: CV1248A

DATE: 9/17/13 ARRIVAL TIME: 1445

Other pertinent information (weather conditions, etc.):

SUNNY, CLEAR 86°F

PROPERTY COMMENTS:

RESIDENTIAL

Grid for property sketch

1500 0-6" - GRASS, TOPSOIL, SANDY SILT W/ COAL FRAGS

6-2 - Δ TO BWN ~~SILTY CLAY~~ CLAY W/ SILT, STIFF, NO ODOR 80% REC

1505 2-4 - BWN ~~SILTY CLAY~~ CLAY W/ SILT, STIFF, NO ODOR

BORING TERMINATED @ 4FT

0-2 - AS - 26 ± 5 ; Pb - 179 ± 7

2-4 - AS - 9 ± 2 ; Pb - 18 ± 3

9/20/13 @ 0804 - Δ SAMPLE PROTOCOL 0-1 SAMPLE

0806 0-6" - AS - 26 ± 7 ; Pb - 304 ± 9

0808 6"-1 - AS - 35 ± 6 ; Pb - 289 ± 8

0810 0-1 - SAMPLE

AS - 27 ± 6 ; Pb - 272 ± 8

STATION ID: CV1248A **SAMPLE ID:** CV1248A-GPO-2ft

SAMPLE COLLECTION TIME: 1500

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

front yard

Collection: Composite or (Grab) **MS/MSD?** Y or (N)

Field Duplicate or Split: *Yes or* (No) ***If yes, indicate*** **Duplicate/split sample station ID:** N/A

GPS Coordinates: Trimble [X] Instrument #: _____ Logged? (Y) or N

Aliquot #1: *Latitude:* 33.551933 N *Longitude* 86.79781 W

Media description: refer to page 22

Aliquot #2 *Latitude:* _____ N *Longitude* _____ W

Media description: _____

Aliquot #3: *Latitude:* _____ N *Longitude* _____ W

Media description: _____

Aliquot #4: *Latitude:* _____ N *Longitude* _____ W

Media description: _____

Aliquot #5: *Latitude:* _____ N *Longitude* _____ W

Media description: _____

STATION ID: CV1248A **SAMPLE ID:** CV1248A-HA0-1ft

SAMPLE COLLECTION TIME: 0810 9/20/2013

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

front yard

Collection: Composite or (Grab) **MS/MSD?** Y or (N)

Field Duplicate or Split: *Yes or* (No) ***If yes, indicate*** **Duplicate/split sample station ID:** _____

GPS Coordinates: Trimble [X] Instrument #: _____ Logged? (Y) or N

Aliquot #1: *Latitude:* 33.551933 N *Longitude* 86.79781 W

Media description: refer to page 22

Aliquot #2 *Latitude:* _____ N *Longitude* _____ W

Media description: _____

Aliquot #3: *Latitude:* _____ N *Longitude* _____ W

Media description: _____

Aliquot #4: *Latitude:* _____ N *Longitude* _____ W

Media description: _____

Aliquot #5: *Latitude:* _____ N *Longitude* _____ W

Media description: _____

ADDRESS: 3654 41st Ave. North PROPERTY ID: HP0062A

DATE: 9/18/13 ARRIVAL TIME: 0815

Other pertinent information (weather conditions, etc.):
Partly cloudy and ~72°F

PROPERTY COMMENTS:
Vacant lot

Grid for property sketch

0820 Tan/orange clay no odor 0-4'
0825 Boring terminated at 4'

0-2' As - 26 ± 4 ; Pb - 50 ± 5
2-4' As - 11 ± 2 ; Pb - 14 ± 3

STATION ID: HP0062A SAMPLE ID: HP0062A-GP

SAMPLE COLLECTION TIME: 0820

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

Collection: Composite or (Grab) MS/MSD? Y or (N)

Field Duplicate or Split: *Yes or* (*No*) ***If yes, indicate*** **Duplicate/split sample station ID:** _____

GPS Coordinates: Trimble [ ] Instrument #: _____ Logged? Y or (N)

Aliquot #1: *Latitude:* _____ N *Longitude* _____ W

Media description: refer to page 24

Aliquot #2 *Latitude:* _____ N *Longitude* _____ W

Media description: _____

Aliquot #3: *Latitude:* _____ N *Longitude* _____ W

Media description: _____

Aliquot #4: *Latitude:* _____ N *Longitude* _____ W

Media description: _____

Aliquot #5: *Latitude:* _____ N *Longitude* _____ W

Media description: _____

STATION ID: _____ SAMPLE ID: _____

SAMPLE COLLECTION TIME: _____

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

Collection: Composite or Grab MS/MSD? Y or N

Field Duplicate or Split: *Yes or No* ***If yes, indicate*** **Duplicate/split sample station ID:** _____

GPS Coordinates: Trimble [ ] Instrument #: _____ Logged? Y or N

Aliquot #1: *Latitude:* _____ N *Longitude* _____ W

Media description: _____

Aliquot #2 *Latitude:* _____ N *Longitude* _____ W

Media description: _____

Aliquot #3: *Latitude:* _____ N *Longitude* _____ W

Media description: _____

Aliquot #4: *Latitude:* _____ N *Longitude* _____ W

Media description: _____

Aliquot #5: *Latitude:* _____ N *Longitude* _____ W

Media description: _____

ADDRESS: 3624 42nd Ave. North PROPERTY ID: HP0113A

DATE: 9/18/13 ARRIVAL TIME: 0835

Other pertinent information (weather conditions, etc.):

Partly cloudy & 70's

PROPERTY COMMENTS:

Vacant lot

Grid for property sketch

0843 0-6" Brown/orange sandy clay no odor
6"-2' Orange clay
0845 2'-4' Yellow brange clay
Terminated boring at 4'.
0-2' As - 22 ±4; Pb-72 ±5
2-4' As - 21 ±3; Pb 15 ±3

STATION ID: HP 0113A **SAMPLE ID:** HP0113A-GP6-2

SAMPLE COLLECTION TIME: 0843

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

Collection: Composite or (Grab) **MS/MSD?** Y or (N)

Field Duplicate or Split: *Yes or* (*No*) ***If yes, indicate*** **Duplicate/split sample station ID:** _____

GPS Coordinates: Trimble [X] Instrument #: _____ Logged? (Y) or N

Aliquot #1: *Latitude:* 33.584989 N *Longitude* 86.792535 W

Media description: refer to page 26

Aliquot #2 *Latitude:* _____ N *Longitude* _____ W

Media description: _____

Aliquot #3: *Latitude:* _____ N *Longitude* _____ W

Media description: _____

Aliquot #4: *Latitude:* _____ N *Longitude* _____ W

Media description: _____

Aliquot #5: *Latitude:* _____ N *Longitude* _____ W

Media description: _____

STATION ID: _____ **SAMPLE ID:** _____

SAMPLE COLLECTION TIME: _____

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

Collection: Composite or Grab **MS/MSD?** Y or N

Field Duplicate or Split: *Yes or No* ***If yes, indicate*** **Duplicate/split sample station ID:** _____

GPS Coordinates: Trimble [ ] Instrument #: _____ Logged? Y or N

Aliquot #1: *Latitude:* _____ N *Longitude* _____ W

Media description: _____

Aliquot #2 *Latitude:* _____ N *Longitude* _____ W

Media description: _____

Aliquot #3: *Latitude:* _____ N *Longitude* _____ W

Media description: _____

Aliquot #4: *Latitude:* _____ N *Longitude* _____ W

Media description: _____

Aliquot #5: *Latitude:* _____ N *Longitude* _____ W

Media description: _____

ADDRESS: 3510 41st Ave N. PROPERTY ID: HP0037B

DATE: 9/18/13 ARRIVAL TIME: 0900

Other pertinent information (weather conditions, etc.):
Partly cloudy & 70's

PROPERTY COMMENTS:
House on lot. Wire fluff in driveway.

Grid for property sketch

0915 0-6" Dark gray sandy silt no odor
6"-1" Red brown sandy clay
1-2' Red brown silty clay
0920 2-4' Red brown silty clay
Boring terminated at 4'.
0-2' As - 12 ± 4; Pb - 122 ± 5
2-4' As - 9 ± 2; Pb - 17 ± 3

9/19/13 @ 1450
1455 0-6" - As - 28 ± 4; Pb - 131 ± 6
1500 6"-1' - As - 14 ± 5; Pb - 220 ± 7

0-1 - 1505 SAMPLED
As - 28 ± 5; Pb - 147 ± 6

LOT RESAMPLED DUE TO Δ IN PROTOCOL

STATION ID: HP0037B SAMPLE ID: HP0037B-SPO-2ft

SAMPLE COLLECTION TIME: 0915

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

back yard

Collection: Composite or (Grab) MS/MSD? Y or (N)

Field Duplicate or Split: *Yes or* (No) *If yes, indicate* Duplicate/split sample station ID: _____

GPS Coordinates: Trimble [X] Instrument #: _____ Logged? (Y) or N

Aliquot #1: *Latitude:* 33.564469 N *Longitude* 86.796483 W

Media description: refer to page 28

Aliquot #2 *Latitude:* _____ N *Longitude* _____ W

Media description: _____

Aliquot #3: *Latitude:* _____ N *Longitude* _____ W

Media description: _____

Aliquot #4: *Latitude:* _____ N *Longitude* _____ W

Media description: _____

Aliquot #5: *Latitude:* _____ N *Longitude* _____ W

Media description: _____

STATION ID: HP0037B SAMPLE ID: HP0037B-HAO-1ft

SAMPLE COLLECTION TIME: 1505 9/19/2013

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

back yard

Collection: Composite or (Grab) MS/MSD? Y or (N)

Field Duplicate or Split: *Yes or* (No) *If yes, indicate* Duplicate/split sample station ID: _____

GPS Coordinates: Trimble [X] Instrument #: _____ Logged? (Y) or N

Aliquot #1: *Latitude:* 33.564469 N *Longitude* 86.796483 W

Media description: refer to page 28

Aliquot #2 *Latitude:* _____ N *Longitude* _____ W

Media description: _____

Aliquot #3: *Latitude:* _____ N *Longitude* _____ W

Media description: _____

Aliquot #4: *Latitude:* _____ N *Longitude* _____ W

Media description: _____

Aliquot #5: *Latitude:* _____ N *Longitude* _____ W

Media description: _____

ADDRESS: 4504 37th St. North PROPERTY ID: HP0023A

DATE: 9/18/13 ARRIVAL TIME: 0935

Other pertinent information (weather conditions, etc.):

Partly cloudy

PROPERTY COMMENTS:

Vacant house on lot.

~~Result~~ Refusal on first attempt.

Grid for property sketch

0945 0-6" Lt brn silt with gravel
6"-2' Orange silty clay
0947 2'-3' Orange silty clay
3'-4' Orange silty clay with coal fragments
Boring terminated at 4'
0-2 As - 19 ±4; Pb - 79 ±5
2-4 As - 28 ±4; Pb - 82 ±5

STATION ID: HP0023A **SAMPLE ID:** HP0023A-GPO-1

SAMPLE COLLECTION TIME: 0947

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

Front yard

Collection: Composite or ~~Grab~~ **MS/MSD?** Y or (N)

Field Duplicate or Split: *Yes or* (No) *If yes, indicate* **Duplicate/split sample station ID:** _____

GPS Coordinates: Trimble [X] Instrument #: _____ Logged? (Y) or N

Aliquot #1: *Latitude:* 33.567817 N *Longitude* 86.790877 W

Media description: refer to page 30

Aliquot #2 *Latitude:* _____ N *Longitude* _____ W

Media description: _____

Aliquot #3: *Latitude:* _____ N *Longitude* _____ W

Media description: _____

Aliquot #4: *Latitude:* _____ N *Longitude* _____ W

Media description: _____

Aliquot #5: *Latitude:* _____ N *Longitude* _____ W

Media description: _____

STATION ID: _____ **SAMPLE ID:** _____

SAMPLE COLLECTION TIME: _____

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

_____

Collection: Composite or Grab **MS/MSD?** Y or N

Field Duplicate or Split: *Yes or No If yes, indicate* **Duplicate/split sample station ID:** _____

GPS Coordinates: Trimble [ ] Instrument #: _____ Logged? Y or N

Aliquot #1: *Latitude:* _____ N *Longitude* _____ W

Media description: _____

Aliquot #2 *Latitude:* _____ N *Longitude* _____ W

Media description: _____

Aliquot #3: *Latitude:* _____ N *Longitude* _____ W

Media description: _____

Aliquot #4: *Latitude:* _____ N *Longitude* _____ W

Media description: _____

Aliquot #5: *Latitude:* _____ N *Longitude* _____ W

Media description: _____

ADDRESS: 4508 ~~45th Ave~~ 37th St. N PROPERTY ID: HP0025A

DATE: 9/18/13 ARRIVAL TIME: 1000

Other pertinent information (weather conditions, etc.):
Partly cloudy & 70's

PROPERTY COMMENTS:
Vacant lot that was previously covered with bamboo. OSC Jardine added on this lot.

Grid for property sketch

1005
0-6" Brn to Dk brn silty clay with coal frags
6"-2' Orange stained clay
1007
2'-3' Stained orange clay
3-4' Yellow clay
Boring terminated at 4'
0-2 As - 34 ± 5 ; Pb - 106 ± 6
2-4 As - 15 ± 2 ; Pb - 17 ± 3

1015
0-6" Dk brn silt
6-12" Dk brn clay
1-3.5' Red brn clay stained
3.5-4' Yellow clay
6" - As - 52 ± 12 ; Pb - 970 ± 16
12" - As - 75 ± 11 ; Pb - 554 ± 14
18" - As - 61 ± 7 ; Pb - 296 ± 9
24" - As - 20 ± 3 ; Pb - 44 ± 4
0-1' As - 74 ± 12 ; Pb - 802 ± 15
2-4' As - 17 ± 3 ; Pb - 35 ± 3

STATION ID: HP0025A SAMPLE ID: HP0025A-GPO-1

SAMPLE COLLECTION TIME: 1005

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):
Front half

Collection: Composite or (Grab) MS/MSD? Y or (N)

Field Duplicate or Split: *Yes or* (No) *If yes, indicate* Duplicate/split sample station ID: _____

GPS Coordinates: Trimble [X] Instrument #: _____ Logged? (Y) or N

Aliquot #1: *Latitude:* 33.567924 N *Longitude* 86.790886 W
Media description: refer to page 32

Aliquot #2 *Latitude:* _____ N *Longitude* _____ W
Media description: _____

Aliquot #3: *Latitude:* _____ N *Longitude* _____ W
Media description: _____

Aliquot #4: *Latitude:* _____ N *Longitude* _____ W
Media description: _____

Aliquot #5: *Latitude:* _____ N *Longitude* _____ W
Media description: _____

STATION ID: HP0025B SAMPLE ID: HP0025A-GPO-1ft

SAMPLE COLLECTION TIME: ~~1007~~ 1015

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):
Back half

Collection: Composite or (Grab) MS/MSD? Y or (N)

Field Duplicate or Split: *Yes or* (No) *If yes, indicate* Duplicate/split sample station ID: _____

GPS Coordinates: Trimble [X] Instrument #: _____ Logged? (Y) or N

Aliquot #1: *Latitude:* 33.567964 N *Longitude* 86.791127 W
Media description: refer to page 32

Aliquot #2 *Latitude:* _____ N *Longitude* _____ W
Media description: _____

Aliquot #3: *Latitude:* _____ N *Longitude* _____ W
Media description: _____

Aliquot #4: *Latitude:* _____ N *Longitude* _____ W
Media description: _____

Aliquot #5: *Latitude:* _____ N *Longitude* _____ W
Media description: _____

ADDRESS: 3628 44th Ave N PROPERTY ID: HP0088

DATE: 9/18/13 @ 1055 ARRIVAL TIME: _____

Other pertinent information (weather conditions, etc.):

Partly cloudy and 70's

PROPERTY COMMENTS:

Vacant house

Refusal at 1 foot.

Grid for property sketch

1115

0-4" Lt brn silt with gravel
4"-8" Lt brn to orange silty clay w/ coal
8"-12" Sandy silt black w/ clay frags
6" - As - 55 ± 4 ; Pb - 68 ± 5
12" - As - 33 ± 4 ; Pb - 13 ± 4
0-1' - As - 233 ± 14 ; Pb - 553 ± 12

STATION ID: HP0228A **SAMPLE ID:** HP0228A-GPO-1

SAMPLE COLLECTION TIME: 1115

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

_____

Collection: Composite or (Grab) **MS/MSD?** Y or (N)

Field Duplicate or Split: *Yes or* (No) ***If yes, indicate*** **Duplicate/split sample station ID:** _____

GPS Coordinates: Trimble [ ] Instrument #: _____ Logged? Y or (N)

Aliquot #1: *Latitude:* _____ N *Longitude* _____ W

Media description: _____

Aliquot #2 *Latitude:* _____ N *Longitude* _____ W

Media description: _____

Aliquot #3: *Latitude:* _____ N *Longitude* _____ W

Media description: _____

Aliquot #4: *Latitude:* _____ N *Longitude* _____ W

Media description: _____

Aliquot #5: *Latitude:* _____ N *Longitude* _____ W

Media description: _____

STATION ID: _____ **SAMPLE ID:** _____

SAMPLE COLLECTION TIME: _____

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

_____

Collection: Composite or Grab **MS/MSD?** Y or N

Field Duplicate or Split: *Yes or No* ***If yes, indicate*** **Duplicate/split sample station ID:** _____

GPS Coordinates: Trimble [ ] Instrument #: _____ Logged? Y or N

Aliquot #1: *Latitude:* _____ N *Longitude* _____ W

Media description: _____

Aliquot #2 *Latitude:* _____ N *Longitude* _____ W

Media description: _____

Aliquot #3: *Latitude:* _____ N *Longitude* _____ W

Media description: _____

Aliquot #4: *Latitude:* _____ N *Longitude* _____ W

Media description: _____

Aliquot #5: *Latitude:* _____ N *Longitude* _____ W

Media description: _____

ADDRESS: 3932 Fairmont Place PROPERTY ID: FM0351

DATE: 9/19/13 ARRIVAL TIME: 0845

Other pertinent information (weather conditions, etc.):

PROPERTY COMMENTS:

House on property. Hand augering in side yard.

Grid for property sketch

0920 0-6" - GRASS, TOPSOIL, COAL FRAGS

0922 6"-1' - TAN SANDY CLAY, DRY, NO ODOR

0924 1-1.5' - SAA

0926 1.5-2' - SAA

0-6" - As - 27 ± 4 ; Pb - 124 ± 5

6"-1' - As - 40 ± 4 ; Pb - 68 ± 4

1'-1.5' - As - ~~5 ± 2~~ 7 ± 2 ; Pb - ~~13 ± 2~~ 19 ± 3

1.5-2' - As - 5 ± 2 ; Pb - 13 ± 2

0935 - COMBINED 0.5' + 6"-1'

As - 28 ± 4

Pb - 112 ± 5

STATION ID: FM0351B **SAMPLE ID:** FM0351B-HA0-1

SAMPLE COLLECTION TIME: 0935

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

Side

Collection: Composite or (Grab) **MS/MSD?** Y or (N)

Field Duplicate or Split: *Yes or* (No) ***If yes, indicate*** **Duplicate/split sample station ID:** _____

GPS Coordinates: Trimble [ ] Instrument #: _____ Logged? (Y) or N

Aliquot #1: *Latitude:* 33.562918 N *Longitude* 86.814071 W

Media description: refer to page 36

Aliquot #2 *Latitude:* _____ N *Longitude* _____ W

Media description: _____

Aliquot #3: *Latitude:* _____ N *Longitude* _____ W

Media description: _____

Aliquot #4: *Latitude:* _____ N *Longitude* _____ W

Media description: _____

Aliquot #5: *Latitude:* _____ N *Longitude* _____ W

Media description: _____

STATION ID: _____ **SAMPLE ID:** _____

SAMPLE COLLECTION TIME: _____

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

_____

Collection: Composite or Grab **MS/MSD?** Y or N

Field Duplicate or Split: *Yes or No* ***If yes, indicate*** **Duplicate/split sample station ID:** _____

GPS Coordinates: Trimble [ ] Instrument #: _____ Logged? Y or N

Aliquot #1: *Latitude:* _____ N *Longitude* _____ W

Media description: _____

Aliquot #2 *Latitude:* _____ N *Longitude* _____ W

Media description: _____

Aliquot #3: *Latitude:* _____ N *Longitude* _____ W

Media description: _____

Aliquot #4: *Latitude:* _____ N *Longitude* _____ W

Media description: _____

Aliquot #5: *Latitude:* _____ N *Longitude* _____ W

Media description: _____

ADDRESS: 4001 Fairmont Place PROPERTY ID: FM0265B

DATE: 3/19/13 ARRIVAL TIME: 1000

Other pertinent information (weather conditions, etc.):

Clear & 70's

PROPERTY COMMENTS:

RESIDENTIAL HOUSE ; BACKYARD

Grid for property sketch

1010 0-6" - GRASS TOPSOIL, COAL FINES

1012 6"-1' - S BWN SANDY CLAY, DRY, NO ODOR

1014 1-1.5 - SAA

1016 1.5-2 - ~~SAA~~ - BWN CLAY & SILT, NO ODOR

1020 2-4 - SAA

0-6" - As - 35 ± 11 ; Pb - 899 ± 15

6"-1' - As - 12 ± 3 ; Pb - 56 ± 4

1'-1.5 - As - 8 ± 2 ; Pb - 21 ± 3

1.5-2.0 - As - 10 ± 3 ; Pb - 27 ± 3

2-3 - As - 7 ± 3 ; Pb - 30 ± 3

3-4 - As - 6 ± 2 ; Pb - 25 ± 3

STATION ID: FM0265B **SAMPLE ID:** FM0265B6P0_1ft

SAMPLE COLLECTION TIME: 1030

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

Collection: Composite or (Grab) **MS/MSD?** Y or (N)

Field Duplicate or Split: *Yes or* (*No*) *If yes, indicate* **Duplicate/split sample station ID:** _____

GPS Coordinates: Trimble [X] Instrument #: _____ Logged? (Y) or N

Aliquot #1: *Latitude:* 33.563165 N *Longitude* 86.813317 W

Media description: refer to page 38

Aliquot #2 *Latitude:* _____ N *Longitude* _____ W

Media description: _____

Aliquot #3: *Latitude:* _____ N *Longitude* _____ W

Media description: _____

Aliquot #4: *Latitude:* _____ N *Longitude* _____ W

Media description: _____

Aliquot #5: *Latitude:* _____ N *Longitude* _____ W

Media description: _____

STATION ID: _____ **SAMPLE ID:** _____

SAMPLE COLLECTION TIME: _____

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

Collection: Composite or Grab **MS/MSD?** Y or N

Field Duplicate or Split: *Yes or No If yes, indicate* **Duplicate/split sample station ID:** _____

GPS Coordinates: Trimble [ ] Instrument #: _____ Logged? Y or N

Aliquot #1: *Latitude:* _____ N *Longitude* _____ W

Media description: _____

Aliquot #2 *Latitude:* _____ N *Longitude* _____ W

Media description: _____

Aliquot #3: *Latitude:* _____ N *Longitude* _____ W

Media description: _____

Aliquot #4: *Latitude:* _____ N *Longitude* _____ W

Media description: _____

Aliquot #5: *Latitude:* _____ N *Longitude* _____ W

Media description: _____

ADDRESS: 3136 45th Ave North PROPERTY ID: FM0195

DATE: 9/19/13 ARRIVAL TIME: 1045

Other pertinent information (weather conditions, etc.):

PROPERTY COMMENTS:

VACANT LOT

SAMPLE CORNER OF LOT

INITIAL SCREEN - AS-84±16 ; Pb-2263±22

Grid for property sketch

1102 0-6" - GRASS, TOPSOIL, TRANSFORMER PARTS, GRAVEL

1104 6"-1 - TAN SANDY CLAY, DRY, NO ODOR w/ GRAVEL

1106 1-1.5 - TAN CLAY w/ SILT, DRY, NO ODOR

1108 1.5-2.0 - SAA

0-6 - AS - 216±15 ; Pb - 1699±20

6"-1' - AS - 13±4 ; Pb - 108±5

1-1.5' - AS - 2±1 ; Pb - 10±2

1.5-2 - AS - 7±2 ; Pb - 12±2

1110 2-3 - AS - 11±2 ; Pb - 15±3

1112 2-4 - TAN CLAY w/ SILT

3-4 - AS - 7±2 ; Pb - 14±3

0-1 - SAMPLE @ 1102

AS - 82±19 ; Pb - 2638±26

1120 - COMPLETED

STATION ID: FM0195C SAMPLE ID: FM0195C-GP0-1ft

SAMPLE COLLECTION TIME: 1102

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

Collection: Composite or (Grab) MS/MSD? Y or (N)

Field Duplicate or Split: *Yes or* (*No*) ***If yes, indicate*** **Duplicate/split sample station ID:** _____

GPS Coordinates: Trimble [X] Instrument #: _____ Logged? (Y) or N

Aliquot #1: *Latitude:* 33.570677 N *Longitude* 86.805851 W

Media description: refer to page 40

Aliquot #2 *Latitude:* _____ N *Longitude* _____ W

Media description: _____

Aliquot #3: *Latitude:* _____ N *Longitude* _____ W

Media description: _____

Aliquot #4: *Latitude:* _____ N *Longitude* _____ W

Media description: _____

Aliquot #5: *Latitude:* _____ N *Longitude* _____ W

Media description: _____

STATION ID: _____ SAMPLE ID: _____

SAMPLE COLLECTION TIME: _____

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

Collection: Composite or Grab MS/MSD? Y or N

Field Duplicate or Split: *Yes or No* ***If yes, indicate*** **Duplicate/split sample station ID:** _____

GPS Coordinates: Trimble [ ] Instrument #: _____ Logged? Y or N

Aliquot #1: *Latitude:* _____ N *Longitude* _____ W

Media description: _____

Aliquot #2 *Latitude:* _____ N *Longitude* _____ W

Media description: _____

Aliquot #3: *Latitude:* _____ N *Longitude* _____ W

Media description: _____

Aliquot #4: *Latitude:* _____ N *Longitude* _____ W

Media description: _____

Aliquot #5: *Latitude:* _____ N *Longitude* _____ W

Media description: _____

ADDRESS: 2940 42nd Ave N. PROPERTY ID: FM0139

DATE: 9/19/13 ARRIVAL TIME: 1130

Other pertinent information (weather conditions, etc.):

PROPERTY COMMENTS:

House on property. Access front yard through driveway

Grid for property sketch

0-6" Dk brn silt
6"-3' Red brn sandy silt
3-4' Red brn silty clay
Terminated boring at 4'.

XRF readings

0-6" - As 18±4 ; Pb 73±5
6"-1' - As 25±3 ; Pb 18±3
1-1.5' - As 21±3 ; Pb 14±3
1.5-2' - As 21±3 ; Pb 13±3
2-3' - As 19±2 ; Pb 13±3
3-4' - As 16±2 ; Pb 11±3

1205 Collected 0-1' - As - 28±4 ; Pb - 83±5

COMPLETED 1215

STATION ID: FM0139A **SAMPLE ID:** FM0139A-GPO-1H

SAMPLE COLLECTION TIME: 1205

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

Collection: Composite or (Grab) **MS/MSD?** Y or (N)

Field Duplicate or Split: ~~(Yes)~~ or (No) *If yes, indicate* **Duplicate/split sample station ID:**

GPS Coordinates: Trimble [X] Instrument #: Logged? (Y) or N

Aliquot #1: *Latitude:* 33.5666608 N *Longitude* 86.809471 W

Media description: refer to page 42

Aliquot #2 *Latitude:* N *Longitude* W

Media description:

Aliquot #3: *Latitude:* N *Longitude* W

Media description:

Aliquot #4: *Latitude:* N *Longitude* W

Media description:

Aliquot #5: *Latitude:* N *Longitude* W

Media description:

STATION ID: **SAMPLE ID:**

SAMPLE COLLECTION TIME:

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

Collection: Composite or Grab **MS/MSD?** Y or N

Field Duplicate or Split: *Yes or No If yes, indicate* **Duplicate/split sample station ID:**

GPS Coordinates: Trimble [ ] Instrument #: Logged? Y or N

Aliquot #1: *Latitude:* N *Longitude* W

Media description:

Aliquot #2 *Latitude:* N *Longitude* W

Media description:

Aliquot #3: *Latitude:* N *Longitude* W

Media description:

Aliquot #4: *Latitude:* N *Longitude* W

Media description:

Aliquot #5: *Latitude:* N *Longitude* W

Media description:

ADDRESS: 3716 43rd Ave. North PROPERTY ID: _____

DATE: _____ ARRIVAL TIME: 1310

Other pertinent information (weather conditions, etc.):

PROPERTY COMMENTS:

* Property owner refused additional sampling.

Grid for property sketch

NO SAMPLE

STATION ID: _____ **SAMPLE ID:** _____

SAMPLE COLLECTION TIME: _____

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

_____

Collection: Composite or Grab **MS/MSD?** Y or N

Field Duplicate or Split: *Yes or No* ***If yes, indicate*** **Duplicate/split sample station ID:** _____

GPS Coordinates: Trimble [ ] Instrument #: _____ Logged? Y or N

Aliquot #1: *Latitude:* _____ N *Longitude* _____ W

Media description: _____

Aliquot #2 *Latitude:* _____ N *Longitude* _____ W

Media description: _____

Aliquot #3: *Latitude:* _____ N *Longitude* _____ W

Media description: _____

Aliquot #4: *Latitude:* _____ N *Longitude* _____ W

Media description: _____

Aliquot #5: *Latitude:* _____ N *Longitude* _____ W

Media description: _____

STATION ID: _____ **SAMPLE ID:** _____

SAMPLE COLLECTION TIME: _____

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

_____

Collection: Composite or Grab **MS/MSD?** Y or N

Field Duplicate or Split: *Yes or No* ***If yes, indicate*** **Duplicate/split sample station ID:** _____

GPS Coordinates: Trimble [ ] Instrument #: _____ Logged? Y or N

Aliquot #1: *Latitude:* _____ N *Longitude* _____ W

Media description: _____

Aliquot #2 *Latitude:* _____ N *Longitude* _____ W

Media description: _____

Aliquot #3: *Latitude:* _____ N *Longitude* _____ W

Media description: _____

Aliquot #4: *Latitude:* _____ N *Longitude* _____ W

Media description: _____

Aliquot #5: *Latitude:* _____ N *Longitude* _____ W

Media description: _____

ADDRESS: 3653 43rd Ave. North PROPERTY ID: HP0192

DATE: 9/19/13 ARRIVAL TIME: 1320

Other pertinent information (weather conditions, etc.):

Sunny, clear 87°F

PROPERTY COMMENTS:

VACANT House

Grid for property sketch

1325 0-6" grass, topsoil, gravel + coal frags + slag

1327 6"-12" gravel, red bricks

1330 12"-4' Stiff clay with silt brn

0-6" - As 34 ± 18 ; Pb 2565 ± 25

6"-12" - As 58 ± 12 ; Pb 1066 ± 17

12"-18" - As 9 ± 5 ; Pb 106 ± 6

18"-24" - As - 24 ± 3 ; Pb - 63 ± 4

2-3 - As - 14 ± 3 ; Pb - 41 ± 4

3-4 - As - 24 ± 4 ; Pb - 68 ± 4

0-1 - Sample 1400

As - 159 ± 21

Pb - 3230 ± 28

STATION ID: HP0192B **SAMPLE ID:** HP0192B-GP0-1ft

SAMPLE COLLECTION TIME: 1400

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

back yard

Collection: Composite or (Grab) **MS/MSD?** Y or (N)

Field Duplicate or Split: *Yes or* (*No*) ***If yes, indicate*** **Duplicate/split sample station ID:** _____

GPS Coordinates: Trimble [X] Instrument #: _____ Logged? (Y) or N

Aliquot #1: *Latitude:* 33.565473 N *Longitude* 86.791737 W

Media description: refer to page 46

Aliquot #2 *Latitude:* _____ N *Longitude* _____ W

Media description: _____

Aliquot #3: *Latitude:* _____ N *Longitude* _____ W

Media description: _____

Aliquot #4: *Latitude:* _____ N *Longitude* _____ W

Media description: _____

Aliquot #5: *Latitude:* _____ N *Longitude* _____ W

Media description: _____

STATION ID: _____ **SAMPLE ID:** _____

SAMPLE COLLECTION TIME: _____

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

_____

Collection: Composite or Grab **MS/MSD?** Y or N

Field Duplicate or Split: *Yes or No* ***If yes, indicate*** **Duplicate/split sample station ID:** _____

GPS Coordinates: Trimble [ ] Instrument #: _____ Logged? Y or N

Aliquot #1: *Latitude:* _____ N *Longitude* _____ W

Media description: _____

Aliquot #2 *Latitude:* _____ N *Longitude* _____ W

Media description: _____

Aliquot #3: *Latitude:* _____ N *Longitude* _____ W

Media description: _____

Aliquot #4: *Latitude:* _____ N *Longitude* _____ W

Media description: _____

Aliquot #5: *Latitude:* _____ N *Longitude* _____ W

Media description: _____

ADDRESS: 3705 43RD AVE N PROPERTY ID: HP020413-HA

DATE: 9/19/13 ARRIVAL TIME: 1415

Other pertinent information (weather conditions, etc.):

PROPERTY COMMENTS:

Grid for property sketch HP020413-HA

1420 0-6" - GRASS, TOPSOIL, SANDY SILT, DRY

1425 ~~1430~~ 6"-1 - GRAY SANDY SILT, DRY, NO ODOR

0-6" - As - 45 ± 7 ; Pb - 342 ± 9

6"-1 - As - 17 ± 3 ; Pb - 56 ± 4

0-1 - SAMPLE 1430

As - 14 ± 3 ; Pb - 85 ± 5

STATION ID: HP 0204 B **SAMPLE ID:** HP 0204B-HA0-1ft

SAMPLE COLLECTION TIME: 1430

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

Collection: Composite or (Grab) **MS/MSD?** Y or (N)

Field Duplicate or Split: *Yes or* (No) *If yes, indicate* **Duplicate/split sample station ID:**

GPS Coordinates: Trimble [X] Instrument #: Logged? (Y) or N

Aliquot #1: *Latitude:* 33.565431 N *Longitude* 86.790479 W

Media description: refer to page 48

Aliquot #2 *Latitude:* N *Longitude* W

Media description:

Aliquot #3: *Latitude:* N *Longitude* W

Media description:

Aliquot #4: *Latitude:* N *Longitude* W

Media description:

Aliquot #5: *Latitude:* N *Longitude* W

Media description:

STATION ID: **SAMPLE ID:**

SAMPLE COLLECTION TIME:

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

Collection: Composite or Grab **MS/MSD?** Y or N

Field Duplicate or Split: *Yes or No If yes, indicate* **Duplicate/split sample station ID:**

GPS Coordinates: Trimble [ ] Instrument #: Logged? Y or N

Aliquot #1: *Latitude:* N *Longitude* W

Media description:

Aliquot #2 *Latitude:* N *Longitude* W

Media description:

Aliquot #3: *Latitude:* N *Longitude* W

Media description:

Aliquot #4: *Latitude:* N *Longitude* W

Media description:

Aliquot #5: *Latitude:* N *Longitude* W

Media description:

APPENDIX D

PHOTOGRAPHIC LOG

Site: 35th Avenue Removal **Contract:** EP-W-05-053 **TDD:** TNA-05-003-0148 **OSC:** Rick Jardine **Property ID: WCWLGP05** **Date:** September 16, 2013 **Time:** 1331 **Photographer:** Jerome Partap **Official Photograph No. : 1** View of the Walter Coke wooded lot; location GP-05.	
Site: 35th Avenue Removal **Contract:** EP-W-05-053 **TDD:** TNA-05-003-0148 **OSC:** Rick Jardine **Property ID: WCWLGP05** **Date:** September 16, 2013 **Time:** 1333 **Photographer:** Jerome Partap **Official Photograph No. : 2** Sample collected for XRF screening at GP05-0_2ft. PAH sample collected at this interval.	

Site: 35th Avenue Removal **Contract:** EP-W-05-053 **TDD:** TNA-05-003-0148 **OSC:** Rick Jardine **Property ID: WCWLGP05** **Date:** September 16, 2013 **Time:** 1348 **Photographer:** Jerome Partap **Official Photograph No. : 3** Sample collected for XRF screening at GP05-2_4ft.	
Site: 35th Avenue Removal **Contract:** EP-W-05-053 **TDD:** TNA-05-003-0148 **OSC:** Rick Jardine **Property ID: WCWLGP05** **Date:** September 16, 2013 **Time:** 1348 **Photographer:** Jerome Partap **Official Photograph No. : 4** Slag material found at GP05-2_4ft.	

Site: 35th Avenue Removal
Contract: EP-W-05-053
TDD: TNA-05-003-0148
OSC: Rick Jardine

Property ID: CV0511
Date: September 17, 2013
Time: 0851
Photographer: Ryan Stubbs

Official Photograph No. : 5
View of sample location CV0511AB.

Site: 35th Avenue Removal
Contract: EP-W-05-053
TDD: TNA-05-003-0148
OSC: Rick Jardine

Property ID: CV0511
Date: September 20, 2013
Time: 0748
Photographer: Ryan Stubbs

Official Photograph No. : 6
Soil 0-6 inches and 6-12 inches intervals. TCLP sample collected at 0-1foot interval.

Site: 35th Avenue Removal
Contract: EP-W-05-053
TDD: TNA-05-003-0148
OSC: Rick Jardine

Property ID: CV0511
Date: September 17, 2013
Time: 0857
Photographer: Jerome Partap

Official Photograph No. : 7
Soil of the 0 to 2 feet interval.

Site: 35th Avenue Removal
Contract: EP-W-05-053
TDD: TNA-05-003-0148
OSC: Rick Jardine

Property ID: CV0511
Date: September 17, 2013
Time: 0858
Photographer: Jerome Partap

Official Photograph No. : 8
Soil of the 2 to 4 feet interval.

Site: 35th Avenue Removal
Contract: EP-W-05-053
TDD: TNA-05-003-0148
OSC: Rick Jardine

Property ID: CV0409
Date: September 17, 2013
Time: 0946
Photographer: Ryan Stubbs

Official Photograph No. : 9
View of sample location CV0409A.

Site: 35th Avenue Removal
Contract: EP-W-05-053
TDD: TNA-05-003-0148
OSC: Rick Jardine

Property ID: CV0409
Date: September 19, 2013
Time: 1533
Photographer: Ryan Stubbs

Official Photograph No. : 10
Soil 0-6 inches and 6-12 inches intervals. TCLP sample collected at 0-1 foot interval.

Site: 35th Avenue Removal
Contract: EP-W-05-053
TDD: TNA-05-003-0148
OSC: Rick Jardine

Property ID: CV0409
Date: September 17, 2013
Time: 0949
Photographer: Jerome Partap

Official Photograph No. : 11
Soil of the 0 to 2 feet interval.

Site: 35th Avenue Removal
Contract: EP-W-05-053
TDD: TNA-05-003-0148
OSC: Rick Jardine

Property ID: CV0409
Date: September 17, 2013
Time: 0950
Photographer: Jerome Partap

Official Photograph No. : 12
Soil of the 2 to 4 feet interval.

Site: 35th Avenue Removal
Contract: EP-W-05-053
TDD: TNA-05-003-0148
OSC: Rick Jardine

Property ID: CV0003
Date: September 17, 2013
Time: 1007
Photographer: Ryan Stubbs

Official Photograph No. : 13
View of sample location CV0003A.

Site: 35th Avenue Removal
Contract: EP-W-05-053
TDD: TNA-05-003-0148
OSC: Rick Jardine

Property ID: CV0003
Date: September 19, 2013
Time: 1551
Photographer: Ryan Stubbs

Official Photograph No. : 14
Soil 0-6 inches and 6-12 inches intervals. TCLP sample collected at 0-1foot interval.

Site: 35th Avenue Removal
Contract: EP-W-05-053
TDD: TNA-05-003-0148
OSC: Rick Jardine

Property ID: CV0003
Date: September 17, 2013
Time: 1013
Photographer: Jerome Partap

Official Photograph No. : 15
Soil of the 0 to 2 feet interval.

Site: 35th Avenue Removal
Contract: EP-W-05-053
TDD: TNA-05-003-0148
OSC: Rick Jardine

Property ID: CV0003
Date: September 17, 2013
Time: 1013
Photographer: Jerome Partap

Official Photograph No. : 16
Soil of the 2 to 4 feet interval.

Site: 35th Avenue Removal
Contract: EP-W-05-053
TDD: TNA-05-003-0148
OSC: Rick Jardine

Property ID: CV0654
Date: September 17, 2013
Time: 1041
Photographer: Ryan Stubbs

Official Photograph No. : 17
View of sample location CV0654B.

Site: 35th Avenue Removal
Contract: EP-W-05-053
TDD: TNA-05-003-0148
OSC: Rick Jardine

Property ID: CV0654
Date: September 17, 2013
Time: 1046
Photographer: Jerome Partap

Official Photograph No. : 18
Soil of the 0 to 2 feet interval.

Site: 35th Avenue Removal
Contract: EP-W-05-053
TDD: TNA-05-003-0148
OSC: Rick Jardine

Property ID: CV0654
Date: September 17, 2013
Time: 1046
Photographer: Jerome Partap

Official Photograph No. : 19
Soil of the 2 to 4 feet interval.

Site: 35th Avenue Removal
Contract: EP-W-05-053
TDD: TNA-05-003-0148
OSC: Rick Jardine

Property ID: CV0186
Date: September 17, 2013
Time: 1120
Photographer: Ryan Stubbs

Official Photograph No. : 20
View of sample location CV0186B.

Site: 35th Avenue Removal
Contract: EP-W-05-053
TDD: TNA-05-003-0148
OSC: Rick Jardine

Property ID: CV0186
Date: September 20, 2013
Time: 0914
Photographer: Ryan Stubbs

Official Photograph No. : 21
Soil 0-6 inches and 6-12 inches intervals.

Site: 35th Avenue Removal **Contract:** EP-W-05-053 **TDD:** TNA-05-003-0148 **OSC:** Rick Jardine **Property ID: CV0186** **Date:** September 17, 2013 **Time:** 1123 **Photographer:** Jerome Partap **Official Photograph No. : 22** Soil of the 0 to 2 feet interval.	
Site: 35th Avenue Removal **Contract:** EP-W-05-053 **TDD:** TNA-05-003-0148 **OSC:** Rick Jardine **Property ID: CV0186** **Date:** September 17, 2013 **Time:** 1124 **Photographer:** Jerome Partap **Official Photograph No. : 23** Soil of the 2 to 4 feet interval.	

Site: 35th Avenue Removal
Contract: EP-W-05-053
TDD: TNA-05-003-0148
OSC: Rick Jardine

Property ID: CV0246
Date: September 17, 2013
Time: 1300
Photographer: Ryan Stubbs

Official Photograph No. : 24
View of sample location CV0246B.

Site: 35th Avenue Removal
Contract: EP-W-05-053
TDD: TNA-05-003-0148
OSC: Rick Jardine

Property ID: CV0246
Date: September 17, 2013
Time: 1317
Photographer: Ryan Stubbs

Official Photograph No. : 25
TCLP sample was collected from 0-1 foot interval.

Site: 35th Avenue Removal
Contract: EP-W-05-053
TDD: TNA-05-003-0148
OSC: Rick Jardine

Property ID: CV0060
Date: September 17, 2013
Time: 1335
Photographer: Ryan Stubbs

Official Photograph No. : 26
View of sample location CV0060B.

Site: 35th Avenue Removal
Contract: EP-W-05-053
TDD: TNA-05-003-0148
OSC: Rick Jardine

Property ID: CV0060
Date: September 20, 2013
Time: 0832
Photographer: Ryan Stubbs

Official Photograph No. : 27
Soil 0-6 inches and 6-12 inches intervals.

Site: 35th Avenue Removal
Contract: EP-W-05-053
TDD: TNA-05-003-0148
OSC: Rick Jardine

Property ID: CV0060
Date: September 17, 2013
Time: 1338
Photographer: Jerome Partap

Official Photograph No. : 28
Soil of the 0 to 2 feet interval.

Site: 35th Avenue Removal
Contract: EP-W-05-053
TDD: TNA-05-003-0148
OSC: Rick Jardine

Property ID: CV0060
Date: September 17, 2013
Time: 1338
Photographer: Jerome Partap

Official Photograph No. : 29
Soil of the 2 to 4 feet interval.

Site: 35th Avenue Removal
Contract: EP-W-05-053
TDD: TNA-05-003-0148
OSC: Rick Jardine

Property ID: CV0232
Date: September 17, 2013
Time: 1415
Photographer: Ryan Stubbs

Official Photograph No. : 30
View of sample location CV0232B.

Site: 35th Avenue Removal
Contract: EP-W-05-053
TDD: TNA-05-003-0148
OSC: Rick Jardine

Property ID: CV0232
Date: September 20, 2013
Time: 0857
Photographer: Ryan Stubbs

Official Photograph No. : 31
Soil 0-6 inches and 6-12 inches intervals. TCLP sample was collected from 0-1 foot interval.

Site: 35th Avenue Removal
Contract: EP-W-05-053
TDD: TNA-05-003-0148
OSC: Rick Jardine

Property ID: CV0232
Date: September 17, 2013
Time: 1420
Photographer: Jerome Partap

Official Photograph No. : 32
Soil of the 0 to 2 feet interval.

Site: 35th Avenue Removal
Contract: EP-W-05-053
TDD: TNA-05-003-0148
OSC: Rick Jardine

Property ID: CV0232
Date: September 17, 2013
Time: 1420
Photographer: Jerome Partap

Official Photograph No. : 33
Soil of the 2 to 4 feet interval.

Site: 35th Avenue Removal
Contract: EP-W-05-053
TDD: TNA-05-003-0148
OSC: Rick Jardine

Property ID: CV1248
Date: September 17, 2013
Time: 1454
Photographer: Ryan Stubbs

Official Photograph No. : 34
View of sample location CV1248A.

Site: 35th Avenue Removal
Contract: EP-W-05-053
TDD: TNA-05-003-0148
OSC: Rick Jardine

Property ID: CV1248
Date: September 20, 2013
Time: 0812
Photographer: Ryan Stubbs

Official Photograph No. : 35
Soil 0-6 inches and 6-12 inches intervals. TCLP sample was collected from 0-1 foot interval.

Site: 35th Avenue Removal **Contract:** EP-W-05-053 **TDD:** TNA-05-003-0148 **OSC:** Rick Jardine **Property ID: CV1248** **Date:** September 17, 2013 **Time:** 1457 **Photographer:** Jerome Partap **Official Photograph No. : 36** Soil of the 0 to 2 feet interval.	
Site: 35th Avenue Removal **Contract:** EP-W-05-053 **TDD:** TNA-05-003-0148 **OSC:** Rick Jardine **Property ID: CV1248** **Date:** September 17, 2013 **Time:** 1458 **Photographer:** Jerome Partap **Official Photograph No. : 37** Soil of the 2 to 4 feet interval.	

Site: 35th Avenue Removal
Contract: EP-W-05-053
TDD: TNA-05-003-0148
OSC: Rick Jardine

Property ID: HP0062A
Date: September 18, 2013
Time: 0824
Photographer: Ryan Stubbs

Official Photograph No. : 38
Soil of the 0 to 2 feet interval.

Site: 35th Avenue Removal
Contract: EP-W-05-053
TDD: TNA-05-003-0148
OSC: Rick Jardine

Property ID: HP0062
Date: September 18, 2013
Time: 0824
Photographer: Ryan Stubbs

Official Photograph No. : 39
Soil of the 2 to 4 feet interval.

Site: 35th Avenue Removal
Contract: EP-W-05-053
TDD: TNA-05-003-0148
OSC: Rick Jardine

Property ID: HP0113
Date: September 18, 2013
Time: 0841
Photographer: Ryan Stubbs

Official Photograph No. : 40
View of sample location HP0113A.

Site: 35th Avenue Removal
Contract: EP-W-05-053
TDD: TNA-05-003-0148
OSC: Rick Jardine

Property ID: HP0113
Date: September 18, 2013
Time: 0845
Photographer: Ryan Stubbs

Official Photograph No. : 41
Soil of the 0 to 2 feet interval.

Site: 35th Avenue Removal
Contract: EP-W-05-053
TDD: TNA-05-003-0148
OSC: Rick Jardine

Property ID: HP0113
Date: September 18, 2013
Time: 0845
Photographer: Jerome Partap

Official Photograph No. : 42
Soil of the 2 to 4 feet interval.

Site: 35th Avenue Removal
Contract: EP-W-05-053
TDD: TNA-05-003-0148
OSC: Rick Jardine

Property ID: HP0037
Date: September 18, 2013
Time: 0911
Photographer: Ryan Stubbs

Official Photograph No. : 34
View of sample location HP0037B.

Site: 35th Avenue Removal
Contract: EP-W-05-053
TDD: TNA-05-003-0148
OSC: Rick Jardine

Property ID: HP0037
Date: September 19, 2013
Time: 1511
Photographer: Ryan Stubbs

Official Photograph No. : 35
Soil 0-6 inches and 6-12 inches intervals. TCLP sample was collected from 0-1 foot interval.

Site: 35th Avenue Removal **Contract:** EP-W-05-053 **TDD:** TNA-05-003-0148 **OSC:** Rick Jardine **Property ID: HP0037** **Date:** September 18, 2013 **Time:** 0915 **Photographer:** Ryan Stubbs **Official Photograph No. : 36** Soil of the 0 to 2 feet interval.	
Site: 35th Avenue Removal **Contract:** EP-W-05-053 **TDD:** TNA-05-003-0148 **OSC:** Rick Jardine **Property ID: HP0037** **Date:** September 18, 2013 **Time:** 0915 **Photographer:** Ryan Stubbs **Official Photograph No. : 37** Soil of the 2 to 4 feet interval.	

Site: 35th Avenue Removal
Contract: EP-W-05-053
TDD: TNA-05-003-0148
OSC: Rick Jardine

Property ID: HP0023
Date: September 18, 2013
Time: 0943
Photographer: Ryan Stubbs

Official Photograph No. : 38
View of sample location HP0023A.

Site: 35th Avenue Removal
Contract: EP-W-05-053
TDD: TNA-05-003-0148
OSC: Rick Jardine

Property ID: HP0023
Date: September 18, 2013
Time: 0945
Photographer: Ryan Stubbs

Official Photograph No. : 39
Soil of the 0 to 2 feet interval.

Site: 35th Avenue Removal
Contract: EP-W-05-053
TDD: TNA-05-003-0148
OSC: Rick Jardine

Property ID: HP0023
Date: September 18, 2013
Time: 0947
Photographer: Ryan Stubbs

Official Photograph No. : 40
Soil of the 2 to 4 feet interval.

Site: 35th Avenue Removal
Contract: EP-W-05-053
TDD: TNA-05-003-0148
OSC: Rick Jardine

Property ID: HP0025
Date: September 18, 2013
Time: 1002
Photographer: Ryan Stubbs

Official Photograph No. : 41
Sample location HP0025B.
Soil of the 0 to 2 feet interval.

Site: 35th Avenue Removal
Contract: EP-W-05-053
TDD: TNA-05-003-0148
OSC: Rick Jardine

Property ID: HP0025
Date: September 18, 2013
Time: 1002
Photographer: Ryan Stubbs

Official Photograph No. : 42
Soil of the 2 to 4 feet interval.

Site: 35th Avenue Removal
Contract: EP-W-05-053
TDD: TNA-05-003-0148
OSC: Rick Jardine

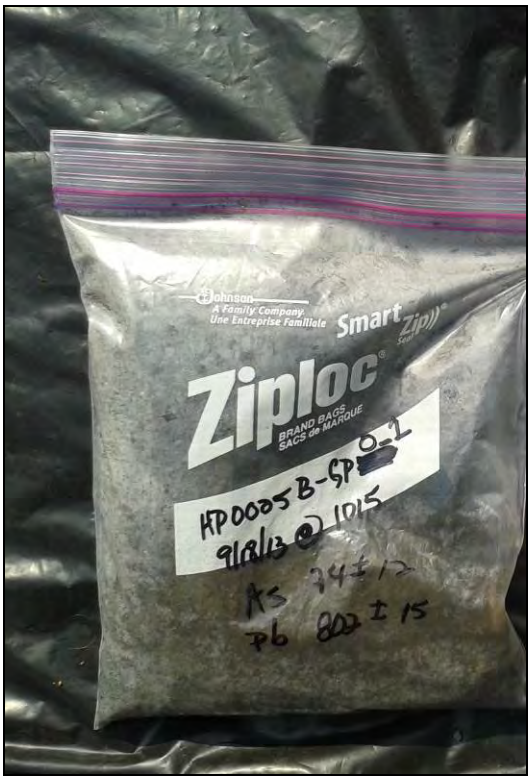
Property ID: HP0025
Date: September 18, 2013
Time: 1015
Photographer: Ryan Stubbs

Official Photograph No. : 43
Soil of the 0 to 2 and 2 to 4 feet intervals.

Site: 35th Avenue Removal
Contract: EP-W-05-053
TDD: TNA-05-003-0148
OSC: Rick Jardine

Property ID: HP0025
Date: September 18, 2013
Time: 1042
Photographer: Ryan Stubbs

Official Photograph No. : 44
TCLP sample was collected from 0-1 foot interval.



Site: 35th Avenue Removal
Contract: EP-W-05-053
TDD: TNA-05-003-0148
OSC: Rick Jardine

Property ID: HP0228
Date: September 18, 2013
Time: 1113
Photographer: Ryan Stubbs

Official Photograph No. : 45
Sample location HP0228A. Soil of the 0 to 1 foot interval.

Site: 35th Avenue Removal
Contract: EP-W-05-053
TDD: TNA-05-003-0148
OSC: Rick Jardine

Property ID: HP0228
Date: September 18, 2013
Time: 1124
Photographer: Ryan Stubbs

Official Photograph No. : 46
TCLP sample was collected from 0-1 foot interval.

Site: 35th Avenue Removal
Contract: EP-W-05-053
TDD: TNA-05-003-0148
OSC: Rick Jardine

Property ID: WCRWGP01
Date: September 18, 2013
Time: 1358
Photographer: Ryan Stubbs

Official Photograph No. : 47
View of the rock wool top area.

Site: 35th Avenue Removal
Contract: EP-W-05-053
TDD: TNA-05-003-0148
OSC: Rick Jardine

Property ID: WCRWGP01
Date: September 18, 2013
Time: 1310
Photographer: Ryan Stubbs

Official Photograph No. : 48
View of sample location WCRW-GP01.

Site: 35th Avenue Removal
Contract: EP-W-05-053
TDD: TNA-05-003-0148
OSC: Rick Jardine

Property ID: WCRWGP01
Date: September 18, 2013
Time: 1422
Photographer: Ryan Stubbs

Official Photograph No. : 49
View of the auger drillers had to utilize to dig the material at the rock wool in order to collect the sample. PAH and RCRA 7 metals samples were collected from 0 to 6 inches.

Site: 35th Avenue Removal
Contract: EP-W-05-053
TDD: TNA-05-003-0148
OSC: Rick Jardine

Property ID: WCWLGP04
Date: September 18, 2013
Time: 1527
Photographer: Ryan Stubbs

Official Photograph No. : 50
View of Walter coke wooded lot location WCWL-GP04.

Site: 35th Avenue Removal
Contract: EP-W-05-053
TDD: TNA-05-003-0148
OSC: Rick Jardine

Property ID: WCWLGP04
Date: September 18, 2013
Time: 1537
Photographer: Ryan Stubbs

Official Photograph No. : 51
Soil of the 0 to 2 feet interval.

Site: 35th Avenue Removal
Contract: EP-W-05-053
TDD: TNA-05-003-0148
OSC: Rick Jardine

Property ID: WCWLGP04
Date: September 18, 2013
Time: 1543
Photographer: Ryan Stubbs

Official Photograph No. : 52
Soil of the 2 to 4 feet interval.

Site: 35th Avenue Removal
Contract: EP-W-05-053
TDD: TNA-05-003-0148
OSC: Rick Jardine

Property ID: WCWLGP04
Date: September 18, 2013
Time: 1602
Photographer: Ryan Stubbs

Official Photograph No. : 53
PAH sample collected from 3 to 4 feet interval.

Site: 35th Avenue Removal
Contract: EP-W-05-053
TDD: TNA-05-003-0148
OSC: Rick Jardine

Property ID: WCWLGP08
Date: September 18, 2013
Time: 1637
Photographer: Ryan Stubbs

Official Photograph No. : 54
View of Walter Coke wooded lot, location WCWL-GP04.

Site: 35th Avenue Removal
Contract: EP-W-05-053
TDD: TNA-05-003-0148
OSC: Rick Jardine

Property ID: WCWLGP08
Date: September 18, 2013
Time: 1735
Photographer: Ryan Stubbs

Official Photograph No. : 55
PAH and RCRA 7 Metals sample collected from the 0 to 2 feet interval.

Site: 35th Avenue Removal
Contract: EP-W-05-053
TDD: TNA-05-003-0148
OSC: Rick Jardine

Property ID: FM0351
Date: September 19, 2013
Time: 0930
Photographer: Ryan Stubbs

Official Photograph No. : 56
View of sample location FM0351B.

Site: 35th Avenue Removal
Contract: EP-W-05-053
TDD: TNA-05-003-0148
OSC: Rick Jardine

Property ID: FM0351
Date: September 19, 2013
Time: 0934
Photographer: Ryan Stubbs

Official Photograph No. : 57
Soil of the 0 to 6 and 6 to 12 inches intervals.

Site: 35th Avenue Removal
Contract: EP-W-05-053
TDD: TNA-05-003-0148
OSC: Rick Jardine

Property ID: FM0351
Date: September 19, 2013
Time: 0941
Photographer: Ryan Stubbs

Official Photograph No. : 58
Soil of the 12 to 18 and to 18 to 24 inches intervals.

Site: 35th Avenue Removal
Contract: EP-W-05-053
TDD: TNA-05-003-0148
OSC: Rick Jardine

Property ID: FM0351
Date: September 19, 2013
Time: 0956
Photographer: Ryan Stubbs

Official Photograph No. : 58
TCLP sample collected from 0 to 1 foot interval.

Site: 35th Avenue Removal
Contract: EP-W-05-053
TDD: TNA-05-003-0148
OSC: Rick Jardine

Property ID: FM0265
Date: September 19, 2013
Time: 1011
Photographer: Ryan Stubbs

Official Photograph No. : 59
View of sample location FM0265B.

Site: 35th Avenue Removal
Contract: EP-W-05-053
TDD: TNA-05-003-0148
OSC: Rick Jardine

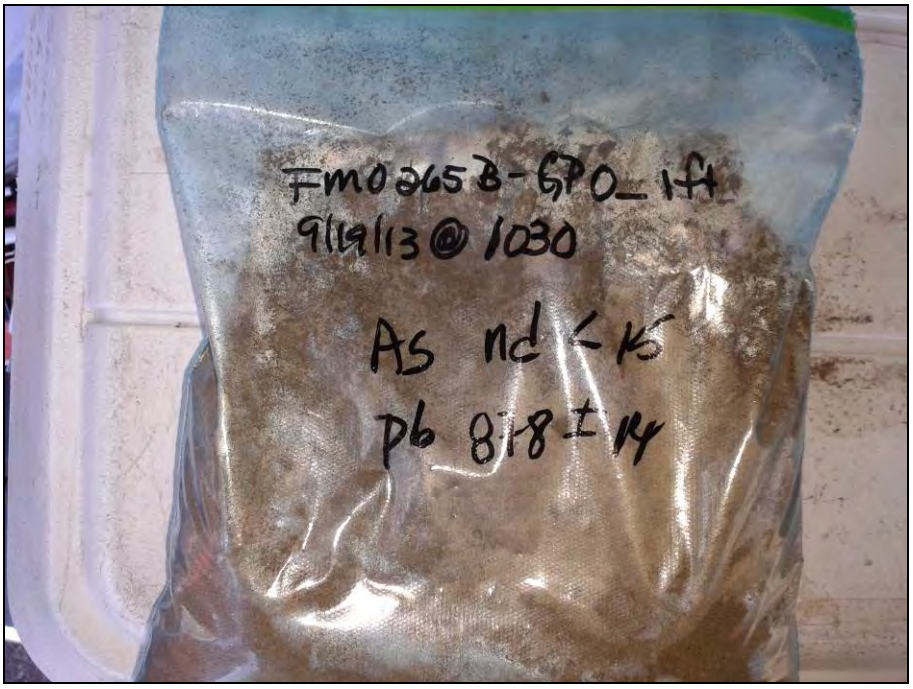
Property ID: FM0265
Date: September 19, 2013
Time: 1011
Photographer: Ryan Stubbs

Official Photograph No. : 60
Soil of the 0 to 2 interval.

Site: 35th Avenue Removal
Contract: EP-W-05-053
TDD: TNA-05-003-0148
OSC: Rick Jardine

Property ID: FM0265
Date: September 19, 2013
Time: 1032
Photographer: Ryan Stubbs

Official Photograph No. : 61
TCLP sample collected from 0 to 1 foot interval.



Site: 35th Avenue Removal
Contract: EP-W-05-053
TDD: TNA-05-003-0148
OSC: Rick Jardine

Property ID: FM0195
Date: September 19, 2013
Time: 1056
Photographer: Ryan Stubbs

Official Photograph No. : 62
View of sample location FM0195C.

Site: 35th Avenue Removal
Contract: EP-W-05-053
TDD: TNA-05-003-0148
OSC: Rick Jardine

Property ID: FM0195
Date: September 19, 2013
Time: 1103
Photographer: Ryan Stubbs

Official Photograph No. : 63
Soil from 0 to 2 feet interval. TCLP sample collected from 0 to 1 foot interval.

Site: 35th Avenue Removal
Contract: EP-W-05-053
TDD: TNA-05-003-0148
OSC: Rick Jardine

Property ID: FM0195
Date: September 19, 2013
Time: 1103
Photographer: Ryan Stubbs

Official Photograph No. : 61
Soil from 2 to 4 feet interval.

Site: 35th Avenue Removal **Contract:** EP-W-05-053 **TDD:** TNA-05-003-0148 **OSC:** Rick Jardine **Property ID: FM0139** **Date:** September 19, 2013 **Time:** 1141 **Photographer:** Ryan Stubbs **Official Photograph No. : 62** View of sample location FM0139A.	
Site: 35th Avenue Removal **Contract:** EP-W-05-053 **TDD:** TNA-05-003-0148 **OSC:** Rick Jardine **Property ID: FM0139** **Date:** September 19, 2013 **Time:** 1146 **Photographer:** Ryan Stubbs **Official Photograph No. : 63** Soil from 0 to 2 feet interval. TCLP sample collected from 0 to 1 foot interval.	

Site: 35th Avenue Removal
Contract: EP-W-05-053
TDD: TNA-05-003-0148
OSC: Rick Jardine

Property ID: HP0192
Date: September 19, 2013
Time: 1344
Photographer: Ryan Stubbs

Official Photograph No. : 64
View of sample location HP0192B.

Site: 35th Avenue Removal
Contract: EP-W-05-053
TDD: TNA-05-003-0148
OSC: Rick Jardine

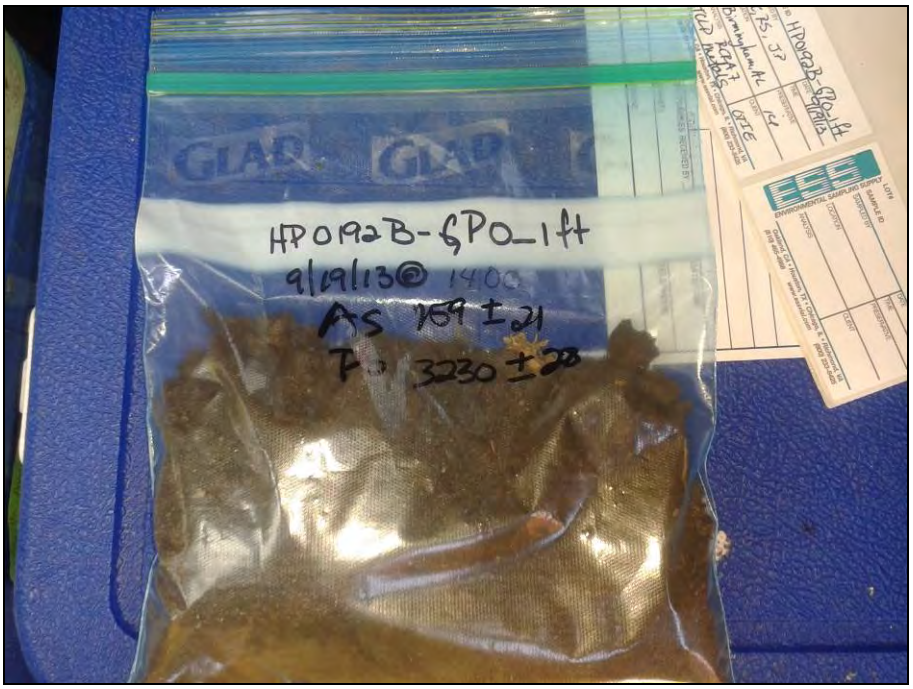
Property ID: HP0192
Date: September 19, 2013
Time: 1354
Photographer: Ryan Stubbs

Official Photograph No. : 65
Soil from 0 to 2 and 2 to 4 feet intervals.

Site: 35th Avenue Removal
Contract: EP-W-05-053
TDD: TNA-05-003-0148
OSC: Rick Jardine

Property ID: HP0192
Date: September 19, 2013
Time:
Photographer: Ryan Stubbs

Official Photograph No. : 66
TCLP sample collected from 0 to 1 foot interval.



Site: 35th Avenue Removal
Contract: EP-W-05-053
TDD: TNA-05-003-0148
OSC: Rick Jardine

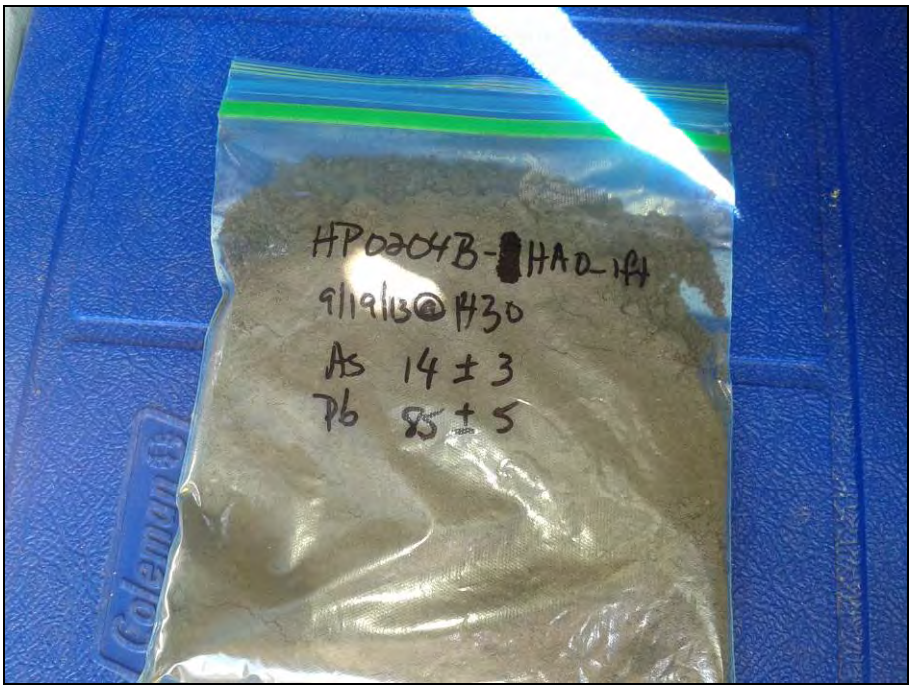
Property ID: HP0204
Date: September 19, 2013
Time: 1433
Photographer: Ryan Stubbs

Official Photograph No. : 65
Sample location HP0204B. Soil from 0 to 6 and 6 to 12 inches intervals.

Site: 35th Avenue Removal
Contract: EP-W-05-053
TDD: TNA-05-003-0148
OSC: Rick Jardine

Property ID: HP0204
Date: September 19, 2013
Time: 1436
Photographer: Ryan Stubbs

Official Photograph No. : 66
TCLP sample collected from 0 to 1 foot interval.



APPENDIX E

SOIL BORING LOGS

Project: 35th Avenue Removal					Soil Boring Identification: **CV0003A**			
Project #: 2005148	Phase: 1356				Logged by: Jerry Partap			
Address: 3394 33rd Place North, Birmingham, AL							**CV0003**	
Driller: Walker Hill					Begin: 9/19/13 @1545		End: 9/19/13 @1555	
Crew Chief: Roger Matthews/Keri Power					Method: Geoprobe® Direct Push			
Latitude: 33.558756	Longitude: -86.799032						Surface: Grass	
Screen: N/A	Riser: N/A							
Water Depth: N/A	at Drilling: N/A				at Completion: N/A		Measurement Date: N/A	
Number/ Type of Samples: 1/Soil					Total Depth (ft): 1 ft		Borehole Diameter: 1.5"	
Soil Sample analyzed for TCLP Metals								
Sample								
Time	Length	Depth Feet	Well Diagram	Graphic Log	Description	XRF Readings (ppm)		Sample Identification
	1ft	0 – 1			Grass top soil w/trace coal fragments;	As 19+/-5 Pb 167+/-7		CV0003A-HA0_1 ft
					Brown clay w/silt, dry, no odor	As 15+/-5 Pb 167+/-7		
	1ft	1 – 2						
	1ft	2 – 3						
	1ft	3 – 4						
		4			Boring Terminated @1 foot CV0003A-HA0_1 ft Sample XRF Reading - As - 13+/-4; Pb - 143+/-6			

Notes:

CV	Collegeville
ppm	parts per million
N/A	Not Available
As	Arsenic
Pb	Lead

Data recorded Central Standard Time

Project: 35th Avenue Removal				Soil Boring Identification: **CV0003A**			
Project #: 2005148	Phase: 1356			Logged by: Jerry Partap			
Address: 3394 33rd Place North, Birmingham, AL						**CV0003**	
Driller: Walker Hill				Begin: 9/17/13 @1007		End: 9/17/13 @1025	
Crew Chief: Roger Matthews/Keri Power				Method: Geoprobe® Direct Push			
Latitude: 33.558756	Longitude: -86.799032					Surface: Grass	
Screen: N/A	Riser: N/A						
Water Depth: N/A	at Drilling: N/A			at Completion: N/A		Measurement Date: N/A	
Number/ Type of Samples: 1/Soil				Total Depth (ft): 4 ft		Borehole Diameter: 1.5"	
Soil Sample analyzed for TCLP Metals							
Sample							
Time	Length	Depth Feet	Well Diagram	Graphic Log	Description	XRF Readings (ppm)	Sample Identification
	1ft	0 – 1			Grass top soil w/trace coal fragments; Brown clay w/silt, dry, no odor	As - 44+/-7 Pb - 242+/-8	CV0003A-GP0_2 ft
	1ft	1 – 2			Brown clay w/silt, dry, no odor		
	1ft	2 – 3			Brown clay w/silt, with oxidation, dry, no odor	As - 8+/-2 Pb - 18+/-3	
	1ft	3 – 4					
					Boring Terminated @4 feet CV0003A GP0_2 ft Sample XRF Reading - As - 44+/-7; Pb - 242+/-8		

Notes:

CV	Collegeville
ppm	parts per million
N/A	Not Available
As	Arsenic
Pb	Lead

Data recorded Central Standard Time

Project: 35th Avenue Removal		Soil Boring Identification: **CV0060B**	
Project #: 2005148	Phase: 1356	Logged by: Jerry Partap	
Address: 3146 31st Avenue North, Birmingham, AL			**CV0060**
Driller: Walker Hill		Begin: 9/17/13 @1330	End: 9/17/13 @1350
Crew Chief: Roger Matthews/Keri Power		Method: Geoprobe® Direct Push	
Latitude: 33.554403	Longitude: -86.803114		Surface: Grass
Screen: N/A	Riser: N/A		
Water Depth: N/A	at Drilling: N/A	at Completion: N/A	Measurement Date: N/A
Number/ Type of Samples: 1/Soil		Total Depth (ft): 4 ft	Borehole Diameter: 1.5"

Soil Sample not submitted for analysis.

Sample							
Time	Length	Depth Feet	Well Diagram	Graphic Log	Description	XRF Readings (ppm)	Sample Identification
	1ft	0 – 1			Grass top soil w/trace coal fragments; Dark brown clay w/silt, dry, no odor	As - 43+/-6 Pb - 193+/-3	CV0060B-GP0_2ft
	1ft	1 – 2			Dark brown clay w/silt, dry, no odor		
	1ft	2 – 3				As - 19+/-3 Pb - 38+/-4	
	1ft	3 – 4			Brown clay w/silt, dry, no odor		
					Boring Terminated @4 feet CV0060B-GP0_2 ft Sample XRF Reading - As - 43+/-6; Pb - 193+/-6		

Notes:

CV	Collegeville
ppm	parts per million
N/A	Not Available
As	Arsenic
Pb	Lead

Data recorded Central Standard Time

Project: 35th Avenue Removal		Soil Boring Identification: **CV0060B**	
Project #: 2005148	Phase: 1356	Logged by: Jerry Partap	
Address: 3146 31st Avenue North, Birmingham, AL			**CV0060**
Driller: Walker Hill		Begin: 9/20/13 @0825	End: 9/20/13 @0835
Crew Chief: Roger Matthews/Keri Power		Method: Geoprobe® Direct Push	
Latitude: 33.554403	Longitude: -86.803114		Surface: Grass
Screen: N/A	Riser: N/A		
Water Depth: N/A	at Drilling: N/A	at Completion: N/A	Measurement Date: N/A
Number/ Type of Samples: 1/Soil		Total Depth (ft): 1 ft	Borehole Diameter: 1.5"

Soil Sample not submitted for analysis.

Sample							
Time	Length	Depth Feet	Well Diagram	Graphic Log	Description	XRF Readings (ppm)	Sample Identification
	1ft	0 – 1			Grass top soil w/trace coal fragments Dark brown clay w/silt, dry, no odor	As 55+/-8 Pb 422+/-10 As 33+/-6 Pb 290+/-8	CV0060B-HA0_1 ft
	1ft	1 – 2					
	1ft	2 – 3					
	1ft	3 – 4					
		4			Boring Terminated @1 foot CV0060B-HA0_1 ft Sample XRF Reading - As - 61+/-9; Pb - 508+/-11		

Notes:

CV	Collegeville
ppm	parts per million
N/A	Not Available
As	Arsenic
Pb	Lead

Data recorded Central Standard Time

Project: 35th Avenue Removal				Soil Boring Identification: **CV0186B**			
Project #: 2005148	Phase: 1356			Logged by: Jerry Partap			
Address: 3432 31st Way North, Birmingham, AL						**CV0186**	
Driller: Walker Hill				Begin: 9/17/13 @1120		End: 9/17/13 @1140	
Crew Chief: Roger Matthews/Keri Power				Method: Geoprobe® Direct Push			
Latitude: 33.559531	Longitude: -86.804394					Surface: Grass	
Screen: N/A	Riser: N/A						
Water Depth: N/A	at Drilling: N/A			at Completion: N/A		Measurement Date: N/A	
Number/ Type of Samples: 1/Soil				Total Depth (ft): 4 ft		Borehole Diameter: 1.5"	
Soil Sample not submitted for analysis							

Sample							
Time	Length	Depth Feet	Well Diagram	Graphic Log	Description	XRF Readings (ppm)	Sample Identification
	1ft	0 – 1			Light to dark Grey sandy silt, no odor	As - 30+/-5 Pb - 141+/-6	CV0186B-GP0_2ft
	1ft	1 – 2			Tan clay, no odor		
	1ft	2 – 3			Tan clay, no odor	As - 11+/-2 Pb - 19+/-3	
	1ft	3 – 4					
		4			Boring Terminated @4 feet CV0186B-GP0_2 ft Sample XRF Reading - As - 30+/-6; Pb - 254+/-8		

Notes:

CV	Collegeville
ppm	parts per million
N/A	Not Available
As	Arsenic
Pb	Lead

Data recorded Central Standard Time

Project: 35th Avenue Removal		Soil Boring Identification: **CV0186B**	
Project #: 2005148	Phase: 1356	Logged by: Jerry Partap	
Address: 3432 31st Way North, Birmingham, AL			**CV0186**
Driller: Walker Hill		Begin: 9/20/13 @0908	End: 9/20/13 @0915
Crew Chief: Roger Matthews/Keri Power		Method: Geoprobe® Direct Push	
Latitude: 33.559531	Longitude: -86.804394		Surface: Grass
Screen: N/A	Riser: N/A		
Water Depth: N/A	at Drilling: N/A	at Completion: N/A	Measurement Date: N/A
Number/ Type of Samples: 1/Soil		Total Depth (ft): 1 ft	Borehole Diameter: 1.5"
Soil Sample not submitted for analysis			

Sample							
Time	Length	Depth Feet	Well Diagram	Graphic Log	Description	XRF Readings (ppm)	Sample Identification
	1ft	0			Grass top soil	As 42+/-7 Pb 356+/-9	CV0186B-HA0_1ft
		1			Gray sandy silt, no odor	As 42+/-6 Pb 252+/-8	
	1ft	2					
	1ft	3					
	1ft	4					
					Boring Terminated @1 foot CV0186B HA0_1 ft Sample XRF Reading - As - 30+/-6; Pb - 254+/-8		

Notes:

CV	Collegeville
ppm	parts per million
N/A	Not Available
As	Arsenic
Pb	Lead

Data recorded Central Standard Time

OTIE
Oneida Total Integrated Enterprises

Project: 35th Avenue Removal			Soil Boring Identification: **CV0232B**	
Project #: 2005148	Phase: 1356		Logged by: Jerry Partap	
Address: 3336 32nd Place North, Birmingham, AL				**CV0232**
Driller: Walker Hill			Begin: 9/17/13 @1400	End: 9/17/13 @1420
Crew Chief: Roger Matthews/Keri Power			Method: Geoprobe® Direct Push	
Latitude: 33.556869	Longitude: -86.802018			Surface: Grass
Screen: N/A	Riser: N/A			
Water Depth: N/A	at Drilling: N/A		at Completion: N/A	Measurement Date: N/A
Number/ Type of Samples: 1/Soil			Total Depth (ft): 4 ft	Borehole Diameter: 1.5"
Soil Sample analyzed for TCLP Metals				

Sample							
Time	Length	Depth Feet	Well Diagram	Graphic Log	Description	XRF Readings (ppm)	Sample Identification
	1ft	0 – 1			Grass, top soil, black sand w/coal fragments; Red bricks, debris;	As - 86+/-10 Pb - 545+/-13	CV0232B-GP0_2ft
	1ft	1 – 2			Brown clay w/silt, stiff, no odor		
	1ft	2 – 3			Brown clay w/silt, stiff, no odor	As - 77+/-9 Pb - 446+/-11	
	1ft	3 – 4					
					Boring Terminated @4 feet CV0232B-GP0_2 ft Sample XRF Reading - As - 86+/-10; Pb - 545+/-13		

Notes:

CV	Collegeville
ppm	parts per million
N/A	Not Available
As	Arsenic
Pb	Lead

Data recorded Central Standard Time

Project: 35th Avenue Removal		Soil Boring Identification: **CV0232B**	
Project #: 2005148	Phase: 1356	Logged by: Jerry Partap	
Address: 3336 32nd Place North, Birmingham, AL			**CV0232**
Driller: Walker Hill		Begin: 9/20/13 @0847	End: 9/20/13 @0855
Crew Chief: Roger Matthews/Keri Power		Method: Geoprobe® Direct Push	
Latitude: 33.556869	Longitude: -86.802018		Surface: Grass
Screen: N/A	Riser: N/A		
Water Depth: N/A	at Drilling: N/A	at Completion: N/A	Measurement Date: N/A
Number/ Type of Samples: 1/Soil		Total Depth (ft): 1 ft	Borehole Diameter: 1.5"
Soil Sample analyzed for TCLP Metals			

Sample							
Time	Length	Depth Feet	Well Diagram	Graphic Log	Description	XRF Readings (ppm)	Sample Identification
	1ft	0 – 1			Grass, top soil, black sand w/coal fragments; Red bricks, debris	As 146+/-22 Pb 2903+/-29 As 65+/-7 Pb 310+/-9	CV0232B-HA0_1ft
	1ft	1 – 2					
	1ft	2 – 3					
	1ft	3 – 4					
		4			Boring Terminated @1 foot CV0232B HA0_1 ft Sample XRF Reading - As - 119+/-13; Pb - 1095+/-17		

Notes:

CV	Collegeville
ppm	parts per million
N/A	Not Available
As	Arsenic
Pb	Lead

Data recorded Central Standard Time

Project: 35th Avenue Removal				Soil Boring Identification: **CV0409A**			
Project #: 2005148	Phase: 1356			Logged by: Jerry Partap			
Address: 3385 33rd Place North, Birmingham, AL						**CV0409**	
Driller: Walker Hill				Begin: 9/17/13 @0915		End: 9/17/13 @0945	
Crew Chief: Roger Matthews/Keri Power				Method: Geoprobe® Direct Push			
Latitude: 33.558271	Longitude: -86.799376					Surface: Grass	
Screen: N/A	Riser: N/A						
Water Depth: N/A	at Drilling: N/A			at Completion: N/A		Measurement Date: N/A	
Number/ Type of Samples: 1/Soil				Total Depth (ft): 4 ft		Borehole Diameter: 1.5"	
Soil Sample analyzed for TCLP Metals							

Sample							
Time	Length	Depth Feet	Well Diagram	Graphic Log	Description	XRF Readings (ppm)	Sample Identification
	1ft	0 – 1			Grass top soil w/trace coal fragments; Reddish clay w/silt & gravel, dry, no odor	As - 45+/-8 Pb - 312+/-10	CV0409A-GP0_2ft
	1ft	1 – 2			Brown clay w/silt, dry, no odor		
	1ft	2 – 3			Brown clay w/silt, dry, no odor	As - 8+/-2 Pb - 17+/-3	
	1ft	3 – 4					
		4			Boring Terminated @4 feet CV0409A-GP0_2 ft Sample XRF Reading - As - 45+/-8; Pb - 312+/-10		

Notes:

CV	Collegeville
ppm	parts per million
N/A	Not Available
As	Arsenic
Pb	Lead

Data recorded Central Standard Time

Project: 35th Avenue Removal		Soil Boring Identification: **CV0409A**	
Project #: 2005148	Phase: 1356	Logged by: Jerry Partap	
Address: 3385 33rd Place North, Birmingham, AL			**CV0409**
Driller: Walker Hill		Begin: 9/18/13 @1525	End: 9/19/13 @1535
Crew Chief: Roger Matthews/Keri Power		Method: Geoprobe® Direct Push	
Latitude: 33.558271	Longitude: -86.799376		Surface: Grass
Screen: N/A	Riser: N/A		
Water Depth: N/A	at Drilling: N/A	at Completion: N/A	Measurement Date: N/A
Number/ Type of Samples: 1/Soil		Total Depth (ft): 1 ft	Borehole Diameter: 1.5"
Soil Sample analyzed for TCLP Metals			

Sample							
Time	Length	Depth Feet	Well Diagram	Graphic Log	Description	XRF Readings (ppm)	Sample Identification
	1ft	0			Grass top soil w/trace coal fragments	As 13+/-4 Pb 130+/-6	CV0409A-HA0_1ft
		1			Reddish clay w/silt & gravel, dry, no odor	As 32+/-5 Pb 114+/-6	
	1ft	2					
	1ft	3					
	1ft	4					
					Boring Terminated @1 foot CV0409A HA0_1 ft Sample XRF Reading - As - 17+/-4; Pb - 130+/-6		

Notes:

CV	Collegeville
ppm	parts per million
N/A	Not Available
As	Arsenic
Pb	Lead

Data recorded Central Standard Time

Project: 35th Avenue Removal			Soil Boring Identification: **CV0511AB**		
Project #: 2005148	Phase: 1356		Logged by: Jerry Partap		
Address: 3400 33rd Terrace North, Birmingham, AL				**CV0511**	
Driller: Walker Hill			Begin: 9/17/13 @0815	End: 9/17/13 @0900	
Crew Chief: Roger Matthews/Keri Power			Method: Geoprobe® Direct Push		
Latitude: 33.558093	Longitude: -86.796284			Surface: Grass	
Screen: N/A	Riser: N/A				
Water Depth: N/A	at Drilling: N/A		at Completion: N/A	Measurement Date: N/A	
Number/ Type of Samples: 1/Soil			Total Depth (ft): 4 ft	Borehole Diameter: 1.5"	
Soil Sample analyzed for TCLP Metals					

Sample							
Time	Length	Depth Feet	Well Diagram	Graphic Log	Description	XRF Readings (ppm)	Sample Identification
	1ft	0 – 1			Grass top soil Dark clay w/silt, dry, no odor Brown clay w/silt, stiff, no odor	As - 10+/-3 Pb - 24+/-3	CV0511AB-GP0_2ft
	1ft	1 – 2			Brown clay w/silt, stiff, no odor		
	1ft	2 – 3			Brown clay w/silt, stiff, no odor	As - 6+/-2 Pb - 37+/-3	
	1ft	3 – 4					
					Boring Terminated @4 feet CV0511AB-GP 0_2 ft Sample XRF Reading - As - 10+/-3; Pb - 24+/-3		

Notes:

CV	Collegeville
ppm	parts per million
N/A	Not Available
As	Arsenic
Pb	Lead

Data recorded Central Standard Time

Project: 35th Avenue Removal		Soil Boring Identification: **CV0511AB**	
Project #: 2005148	Phase: 1356	Logged by: Jerry Partap	
Address: 3400 33rd Terrace North, Birmingham, AL			**CV0511**
Driller: Walker Hill		Begin: 9/20/13 @0745	End: 9/20/13 @0800
Crew Chief: Roger Matthews/Keri Power		Method: Geoprobe® Direct Push	
Latitude: 33.558093	Longitude: -86.796284		Surface: Grass
Screen: N/A	Riser: N/A		
Water Depth: N/A	at Drilling: N/A	at Completion: N/A	Measurement Date: N/A
Number/ Type of Samples: 1/Soil		Total Depth (ft): 1 ft	Borehole Diameter: 1.5"
Soil Sample analyzed for TCLP Metals			

Sample							
Time	Length	Depth Feet	Well Diagram	Graphic Log	Description	XRF Readings (ppm)	Sample Identification
	1ft	0 – 1			Grass top soil Dark clay w/silt, dry, no odor	As 19+/-4 Pb 108+/-5 As 11+/-3 Pb 37+/-3	CV0511AB-HA0_1ft
	1ft	1 – 2					
	1ft	2 – 3					
	1ft	3 – 4					
		4			Boring Terminated @1 foot CV0511AB-HA 0_1 ft Sample XRF Reading - As - 13+/-4; Pb - 95+/-5		

Notes:

CV	Collegeville
ppm	parts per million
N/A	Not Available
As	Arsenic
Pb	Lead

Data recorded Central Standard Time

Project: 35th Avenue Removal		Soil Boring Identification: **CV0654B**	
Project #: 2005148	Phase: 1356	Logged by: Jerry Partap	
Address: 3705 Huntsville Road, Birmingham, AL			**CV0654**
Driller: Walker Hill		Begin: 9/17/13 @1035	End: 9/17/13 @1100
Crew Chief: Roger Matthews/Keri Power		Method: Geoprobe® Direct Push	
Latitude: 33.55902	Longitude: -86.800686		Surface: Grass
Screen: N/A	Riser: N/A		
Water Depth: N/A	at Drilling: N/A	at Completion: N/A	Measurement Date: N/A
Number/ Type of Samples:		Total Depth (ft): 4 ft	Borehole Diameter: 1.5"

Sample							
Time	Length	Depth Feet	Well Diagram	Graphic Log	Description	XRF Readings (ppm)	Sample Identification
	1ft	0 – 1			Grass top soil w/trace coal fragments Brown clay w/silt, dry, no odor	As - 24+/-4 Pb - 95+/-5	
	1ft	1 – 2			Brown clay w/silt, dry, no odor		
	1ft	2 – 3			Brown clay w/silt, dry, no odor	As - 26+/-3 Pb - 36+/-4	
	1ft	3 – 4			Brown clay w/silt, dry, no odor		
					Boring Terminated @4 feet		

Notes:

CV	Collegeville
ppm	parts per million
N/A	Not Available
As	Arsenic
Pb	Lead

Data recorded Central Standard Time

Project: 35th Avenue Removal				Soil Boring Identification: **CV1248A**			
Project #: 2005148	Phase: 1356			Logged by: Jerry Partap			
Address: 3412 29th Avenue North, Birmingham, AL							**CV1248**
Driller: Walker Hill				Begin: 9/17/13 @1445			End: 9/17/13 @1530
Crew Chief: Roger Matthews/Keri Power				Method: Geoprobe® Direct Push			
Latitude: 33.551933	Longitude: -86.79781						Surface: Grass
Screen: N/A	Riser: N/A						
Water Depth: N/A	at Drilling: N/A			at Completion: N/A			Measurement Date: N/A
Number/ Type of Samples: 1/Soil				Total Depth (ft): 4 ft			Borehole Diameter: 1.5"
Soil Sample analyzed for TCLP Metals							

Sample							
Time	Length	Depth Feet	Well Diagram	Graphic Log	Description	XRF Readings (ppm)	Sample Identification
	1ft	0 – 1			Grass, top soil, sandy silt w/coal fragments	As - 26+/-5 Pb - 179+/-7	CV1248A-GP0_2ft
	1ft	1 – 2			Brown clay w/silt, stiff, no odor		
	1ft	2 – 3			Brown clay w/silt, stiff, no odor	As - 9+/-2 Pb - 18+/-3	
	1ft	3 – 4					
		4			Boring Terminated @4 feet CV1248A-GP0_2 ft Sample XRF Reading - As - 26+/-5; Pb - 179+/-7		

Notes:

CV	Collegeville
ppm	parts per million
N/A	Not Available
As	Arsenic
Pb	Lead

Data recorded Central Standard Time

Project: 35th Avenue Removal				Soil Boring Identification: **CV1248A**			
Project #: 2005148	Phase: 1356			Logged by: Jerry Partap			
Address: 3412 29th Avenue North, Birmingham, AL						**CV1248**	
Driller: Walker Hill				Begin: 9/20/13 @0806		End: 9/20/13 @0810	
Crew Chief: Roger Matthews/Keri Power				Method: Geoprobe® Direct Push			
Latitude: 33.551933	Longitude: -86.79781					Surface: Grass	
Screen: N/A	Riser: N/A						
Water Depth: N/A	at Drilling: N/A			at Completion: N/A		Measurement Date: N/A	
Number/ Type of Samples: 1/Soil				Total Depth (ft): 1 ft		Borehole Diameter: 1.5"	
Soil Sample analyzed for TCLP Metals							

Sample							
Time	Length	Depth Feet	Well Diagram	Graphic Log	Description	XRF Readings (ppm)	Sample Identification
	1ft	0 – 1			Grass, top soil, sandy silt w/coal fragments	As 26+/-7 Pb 304+/-9	CV1248A-HA0_1ft
					Brown clay w/silt, stiff, no odor	As 35+/-6 Pb 289+/-8	
	1ft	1 – 2					
	1ft	2 – 3					
	1ft	3 – 4					
		4			Boring Terminated @1 foot CV1248A-HA0_1 ft Sample XRF Reading - As - 27+/-6; Pb - 272+/-8		

Notes:

CV	Collegeville
ppm	parts per million
N/A	Not Available
As	Arsenic
Pb	Lead

Data recorded Central Standard Time

Project: 35th Avenue Removal				Soil Boring Identification: **CV0246B**			
Project #: 2005148	Phase: 1356			Logged by: Jerry Partap			
Address: 3212 32nd Street North, Birmingham, AL						**CV0246**	
Driller: Walker Hill				Begin: 9/17/13 @1300		End: 9/17/13 @1325	
Crew Chief: Roger Matthews/Keri Power				Method: Geoprobe® Direct Push			
Latitude: 33.55496	Longitude: -86.803154					Surface: Grass	
Screen: N/A	Riser: N/A						
Water Depth: N/A	at Drilling: N/A			at Completion: N/A		Measurement Date: N/A	
Number/ Type of Samples: 1/Soil				Total Depth (ft): 4 ft		Borehole Diameter: 1.5"	
Soil Sample analyzed for TCLP Metals							

Sample		Depth Feet	Well Diagram	Graphic Log	Description	XRF Readings (ppm)	Sample Identification
Time	Length						
	1ft	0 – 1			Grass top soil; sandy clay with coal fragments	As 78+/-12 Pb 1007+/-4	CV0246B-HA0_1ft
	1ft	1 – 2					
	1ft	2 – 3					
	1ft	3 – 4					
					Boring Terminated @1 foot CV0246B-HA0_1 ft Sample XRF Reading - As - 78+/-12; Pb - 1007+/-4		

Notes:

CV	Collegeville
ppm	parts per million
N/A	Not Available
As	Arsenic
Pb	Lead

Data recorded Central Standard Time

Project: 35th Avenue Removal		Soil Boring Identification: **HP0023A**	
Project #: 2005148	Phase: 1356	Logged by: Ryan Stubbs	
Address: 4504 37th Street North, Birmingham, AL			**HP0023**
Driller: Walker Hill		Begin: 9/18/13 @0935	End: 9/18/13 @0947
Crew Chief: Roger Matthews/Keri Power		Method: Geoprobe® Direct Push	
Latitude: 33.567812	Longitude: -86.790872		Surface: Grass
Screen: N/A	Riser: N/A		
Water Depth: N/A	at Drilling: N/A	at Completion: N/A	Measurement Date: N/A
Number/ Type of Samples:		Total Depth (ft): 4 ft	Borehole Diameter: 1.5"

Sample							
Time	Length	Depth Feet	Well Diagram	Graphic Log	Description	XRF Readings (ppm)	Sample Identification
	1ft	0 – 1			Light Brown silt w/gravel Orange silty clay	As - 19+/-4 Pb - 79+/-5	
	1ft	1 – 2			Orange silty clay		
	1ft	2 – 3			Orange silty clay	As - 28+/-4 Pb - 82+/-5	
	1ft	3 – 4			Orange silty clay w/coal fragments		
					Boring Terminated @4 feet		

Notes:

HP	Harriman Park
ppm	parts per million
N/A	Not Available
As	Arsenic
Pb	Lead

Data recorded Central Standard Time

Project: 35th Avenue Removal				Soil Boring Identification: **HP0025A**			
Project #: 2005148	Phase: 1356			Logged by: Ryan Stubbs			
Address: 4508 37th Street North, Birmingham, AL						**HP0025**	
Driller: Walker Hill				Begin: 9/18/13 @1000		End: 9/18/13 @1005	
Crew Chief: Roger Matthews/Keri Power				Method: Geoprobe® Direct Push			
Latitude: 33.567924	Longitude: -86.790886					Surface: Grass	
Screen: N/A	Riser: N/A						
Water Depth: N/A	at Drilling: N/A			at Completion: N/A		Measurement Date: N/A	
Number/ Type of Samples: 1/Soil				Total Depth (ft): 4 ft		Borehole Diameter: 1.5"	
Soil Sample analyzed for TCLP Metals							

Sample							
Time	Length	Depth Feet	Well Diagram	Graphic Log	Description	XRF Readings (ppm)	Sample Identification
	1ft	0 – 1			Brown to dark brown silty clay w/coal fragments Orange stained clay	As - 34+/-5 Pb - 106+/-6	HP0025A GP0_1 ft
	1ft	1 – 2			Orange stained clay		
	1ft	2 – 3			Orange stained clay	As - 15+/-2 Pb - 17+/-3	
	1ft	3 – 4			Yellow clay		
		4			Boring Terminated @4 feet HP0025A GP0_1 ft Sample XRF Reading - As - 34+/-5; Pb - 106+/-6		

Notes:

HP	Harriman Park
ppm	parts per million
N/A	Not Available
As	Arsenic
Pb	Lead

Data recorded Central Standard Time

Project: 35th Avenue Removal				Soil Boring Identification: **HP0025B**			
Project #: 2005148	Phase: 1356			Logged by: Ryan Stubbs			
Address: 4508 37th Street North, Birmingham, AL						**HP0025**	
Driller: Walker Hill				Begin: 9/18/13 @1005		End: 9/18/13 @1015	
Crew Chief: Roger Matthews/Keri Power				Method: Geoprobe® Direct Push			
Latitude: 33.567924	Longitude: -86.790886					Surface: Grass	
Screen: N/A	Riser: N/A						
Water Depth: N/A	at Drilling: N/A			at Completion: N/A		Measurement Date: N/A	
Number/ Type of Samples: 1/Soil				Total Depth (ft): 4 ft		Borehole Diameter: 1.5"	
Soil Sample analyzed for TCLP Metals							

Sample							
Time	Length	Depth Feet	Well Diagram	Graphic Log	Description	XRF Readings (ppm)	Sample Identification
	1ft	0 – 1			Brown to dark brown silty clay w/coal Dark brown clay	As - 74+/-12 Pb - 802+/-15	HP0025B-GP0_1 ft
	1ft	1 – 2			Red brown clay satained	As - 61+/-7 Pb - 296+/-9 As - 20+/-3 Pb - 44+/-4	
	1ft	2 – 3			Red brown clay satained		
	1ft	3 – 4			Yellow clay	As - 15+/-2 Pb - 106+/-6	
					Boring Terminated @4 feet HP0025A-GP0_1 ft Sample XRF Reading - As - 74+/-12; Pb - 802+/-15		

Notes:

HP	Harriman Park
ppm	parts per million
N/A	Not Available
As	Arsenic
Pb	Lead

Data recorded Central Standard Time

Project: 35th Avenue Removal				Soil Boring Identification: **HP0037B**			
Project #: 2005148	Phase: 1356			Logged by: Jerry Partap			
Address: 3510 41st Avenue North, Birmingham, AL						**HP0037**	
Driller: Walker Hill				Begin: 9/18/13 @0900		End: 9/18/13 @0920	
Crew Chief: Roger Matthews/Keri Power				Method: Geoprobe® Direct Push			
Latitude: 33.564469	Longitude: -86.796483					Surface: Grass	
Screen: N/A	Riser: N/A						
Water Depth: N/A	at Drilling: N/A			at Completion: N/A		Measurement Date: N/A	
Number/ Type of Samples: 1/Soil				Total Depth (ft): 4 ft		Borehole Diameter: 1.5"	
Soil Sample analyzed for TCLP Metals							

Sample							
Time	Length	Depth Feet	Well Diagram	Graphic Log	Description	XRF Readings (ppm)	Sample Identification
	1ft	0 – 1			Dark grey sandy silt, no odor		
	1ft	1 – 2			Red brow sandy clay	As - 12+/-4 Pb - 122+/-5	HP0037B-GP0_2ft
	1ft	2 – 3			Red/Brown silty clay	As - 9+/-2 Pb - 17+/-3	
	1ft	3 – 4					
		4			Boring Terminated @4 feet HP0037B-GP0_2 ft Sample XRF Reading - As - 12+/-4; Pb - 122+/-5		

Notes:

HP	Harriman Park
ppm	parts per million
N/A	Not Available
As	Arsenic
Pb	Lead

Data recorded Central Standard Time

Project: 35th Avenue Removal				Soil Boring Identification: **HP0037B**			
Project #: 2005148	Phase: 1356			Logged by: Jerry Partap			
Address: 3510 41st Avenue North, Birmingham, AL						**HP0037**	
Driller: Walker Hill				Begin: 9/19/13 @1455		End: 9/19/13 @1500	
Crew Chief: Roger Matthews/Keri Power				Method: Geoprobe® Direct Push			
Latitude: 33.564469	Longitude: -86.796483					Surface: Grass	
Screen: N/A	Riser: N/A						
Water Depth: N/A	at Drilling: N/A			at Completion: N/A		Measurement Date: N/A	
Number/ Type of Samples: 1/Soil				Total Depth (ft): 1 ft		Borehole Diameter: 1.5"	
Soil Sample analyzed for TCLP Metals							

Sample							
Time	Length	Depth Feet	Well Diagram	Graphic Log	Description	XRF Readings (ppm)	Sample Identification
	1ft	0 1			Grass, top soil, gray sandy silt, no odor Gray sandy clay	As 28+/-4 Pb 131+/-6 As 14+/-5 Pb 220+/-7	HP0037B-HA0_1ft
	1ft	2					
	1ft	3					
	1ft	4					
					Boring Terminated @1 feet HP0037B-HA0_1 ft Sample XRF Reading - As - 28+/-5; Pb - 147+/-6		

Notes:

HP	Harriman Park
ppm	parts per million
N/A	Not Available
As	Arsenic
Pb	Lead

Data recorded Central Standard Time

Project: 35th Avenue Removal					Soil Boring Identification: **HP0062A**		
Project #: 2005148	Phase: 1356				Logged by: Ryan Stubbs		
						HP0062	
Driller: Walker Hill					Begin: 9/18/13 @0820	End: 9/18/13 @0825	
Crew Chief: Roger Matthews/Keri Power					Method: Geoprobe® Direct Push		
Latitude:	Longitude:					Surface: Grass	
Screen: N/A	Riser: N/A						
Water Depth: N/A	at Drilling: N/A				at Completion: N/A	Measurement Date: N/A	
Number/ Type of Samples:					Total Depth (ft): 4 ft	Borehole Diameter: 1.5"	

Sample							
Time	Length	Depth Feet	Well Diagram	Graphic Log	Description	XRF Readings (ppm)	Sample Identification
	1ft	0 – 1			Grass & top soil Tan/Orange clay, no odor	As - 26+/-4 Pb - 50+/-5	HP0062A-GP0_2ft
	1ft	1 – 2			Tan/Orange clay, no odor		
	1ft	2 – 3			Tan/Orange clay, no odor	As - 11+/-2 Pb - 14+/-3	
	1ft	3 – 4			Tan/Orange clay, no odor		
		4			Boring Terminated @4 feet HP0062A-GP0_2ft Sample XRF Reading - As - 26+/-4; Pb - 50+/-5		

Notes:

HP	Harriman Park
ppm	parts per million
N/A	Not Available
As	Arsenic
Pb	Lead

Data recorded Central Standard Time

Project: 35th Avenue Removal		Soil Boring Identification: **HP0113A**	
Project #: 2005148	Phase: 1356	Logged by: Ryan Stubbs	
Address: 3624 42nd Avenue North, Birmingham, AL			**HP0113**
Driller: Walker Hill		Begin: 9/18/13 @0835	End: 9/18/13 @0845
Crew Chief: Roger Matthews/Keri Power		Method: Geoprobe® Direct Push	
Latitude: 33.564989	Longitude: -86.792535		Surface: Grass
Screen: N/A	Riser: N/A		
Water Depth: N/A	at Drilling: N/A	at Completion: N/A	Measurement Date: N/A
Number/ Type of Samples:		Total Depth (ft): 4 ft	Borehole Diameter: 1.5"

Sample							
Time	Length	Depth Feet	Well Diagram	Graphic Log	Description	XRF Readings (ppm)	Sample Identification
	1ft	0 – 1			Grass & top soil Brown/Orange sandy clay, no odor	As - 22+/-4 Pb - 72+/-5	HP0113A-GP0_2ft
	1ft	1 – 2			Brown/Orange sandy clay, no odor		
	1ft	2 – 3			Yellow/Orange clay, no odor	As - 21+/-3 Pb - 15+/-3	
	1ft	3 – 4			Yellow/Orange clay, no odor		
					Boring Terminated @4 feet HP0113A-GP0_2ft Sample XRF Reading - As - 22+/-4; Pb - 72+/-5		

Notes:

HP	Harriman Park
ppm	parts per million
N/A	Not Available
As	Arsenic
Pb	Lead

Data recorded Central Standard Time

Project: 35th Avenue Removal		Soil Boring Identification: **HP0192B**	
Project #: 2005148	Phase: 1356	Logged by: Jerry Partap	
Address: 3653 43rd Avenue North, Birmingham, AL			**HP0192**
Driller: Walker Hill		Begin: 9/19/13 @1320	End: 9/19/13 @1330
Crew Chief: Roger Matthews/Keri Power		Method: Geoprobe® Direct Push	
Latitude: 33.565473	Longitude: -86.791737		Surface: Grass
Screen: N/A	Riser: N/A		
Water Depth: N/A	at Drilling: N/A	at Completion: N/A	Measurement Date: N/A
Number/ Type of Samples: 1/Soil		Total Depth (ft): 4 ft	Borehole Diameter: 1.5"
Soil Sample analyzed for TCLP Metals			

Sample							
Time	Length	Depth Feet	Well Diagram	Graphic Log	Description	XRF Readings (ppm)	Sample Identification
	1ft	0 – 1			Grass, top soil, gravel & coal fragments	As 34+/-18 Pb 2565+/-25	HP0192B-GP0_1 ft
					Gravel and red bricks	As 58+/-12 Pb 1066+/-17	
	1ft	1 – 2			Brown clay w/silt, stiff	As 9+/-5 Pb 106+/-6	
						As 24+/-3 Pb 63+/-4	
	1ft	2 – 3			Brown clay w/silt, stiff	As 14+/-3 Pb 41+/-4	
	1ft	3 – 4			Brown clay w/silt, stiff	As 24+/-4 Pb 68+/-4	
		4			Boring Terminated @4 feet HP0192B-GP0_1 ft Sample XRF Reading - As - 159+/-21; Pb - 3230+/-28		

Notes:

HP	Harriman Park
ppm	parts per million
N/A	Not Available
As	Arsenic
Pb	Lead

Data recorded Central Standard Time

Project: 35th Avenue Removal				Soil Boring Identification: **HP0204B**		
Project #: 2005148	Phase: 1356			Logged by: Jerry Partap		
Address: 3705 43rd Avenue North, Birmingham, AL					**HP0204**	
Driller: Walker Hill				Begin: 9/19/13 @1415	End: 9/19/13 @1425	
Crew Chief: Roger Matthews/Keri Power				Method: Geoprobe® Direct Push		
Latitude: 33.565431	Longitude: -86.790479				Surface: Grass	
Screen: N/A	Riser: N/A					
Water Depth: N/A	at Drilling: N/A			at Completion: N/A	Measurement Date: N/A	
Number/ Type of Samples: 1/Soil				Total Depth (ft): 1 ft	Borehole Diameter: 1.5"	
Soil Sample analyzed for TCLP Metals						

Sample							
Time	Length	Depth Feet	Well Diagram	Graphic Log	Description	XRF Readings (ppm)	Sample Identification
	1ft	0 1			Grass, top soil, sandy silt, dry, no odor Gray sandy silt, dry, no odor	As - 45+/-7 Pb - 342+/-9 As - 17+/-3 Pb - 56+/-4	HP0204B-HA0_1 ft
					Boring Terminated @1 foot HP0204B-HA0_1 ft Sample XRF Reading - As - 14+/-3; Pb - 85+/-5		

Notes:

HP	Harriman Park
ppm	parts per million
N/A	Not Available
As	Arsenic
Pb	Lead

Data recorded Central Standard Time

Project: 35th Avenue Removal				Soil Boring Identification: **HP0228A**		
Project #: 2005148	Phase: 1356			Logged by: Ryan Stubbs		
Address: 3628 44th Avenue North, Birmingham, AL					**HP0228**	
Driller: Walker Hill				Begin: 9/18/13 @1055	End: 9/18/13 @1115	
Crew Chief: Roger Matthews/Keri Power				Method: Geoprobe® Direct Push		
Latitude:	Longitude:				Surface: Grass	
Screen: N/A	Riser: N/A					
Water Depth: N/A	at Drilling: N/A			at Completion: N/A	Measurement Date: N/A	
Number/ Type of Samples: 1/Soil				Total Depth (ft): 1 ft	Borehole Diameter: 1.5"	
Soil Sample analyzed for TCLP Metals						

Sample Time	Sample Length	Depth Feet	Well Diagram	Graphic Log	Description	XRF Readings (ppm)	Sample Identification
	1ft	0			Light brown silt w/gravel	As - 55+/-4 Pb - 68+/-5	HP0228A-GP0_1 ft
					Light brown/orange silty clay w/coal fragments	As - 33+/-4	
		1			Black sandy silt w/coal fragments	Pb - 13+/-4	
					Boring Terminated @1 foot HP0228A-GP0_1 ft Sample XRF Reading - As - 223+/-14; Pb - 553+/-12		

Notes:

HP	Harriman Park
ppm	parts per million
N/A	Not Available
As	Arsenic
Pb	Lead

Data recorded Central Standard Time

Project: 35th Avenue Removal				Soil Boring Identification: **FM0139A**			
Project #: 2005148	Phase: 1356			Logged by: Ryan Stubbs			
Address: 2940 42nd Avenue North, Birmingham, AL						**FM0139**	
Driller: Walker Hill				Begin: 9/19/13 @1130		End: 9/19/13 @1205	
Crew Chief: Roger Matthews/Keri Power				Method: Geoprobe® Direct Push			
Latitude: 33.566668	Longitude: -86.809471					Surface: Grass	
Screen: N/A	Riser: N/A						
Water Depth: N/A	at Drilling: N/A			at Completion: N/A		Measurement Date: N/A	
Number/ Type of Samples: 1/Soil				Total Depth (ft): 4 ft		Borehole Diameter: 1.5"	
Soil Sample analyzed for TCLP Metals							

Sample							
Time	Length	Depth Feet	Well Diagram	Graphic Log	Description	XRF Readings (ppm)	Sample Identification
	1ft	0 – 1			Grass, top soil, dark brown silt Red/brown sandy silt	As 18+/-4 Pb 73+/-5 As 25+/-3 Pb 18+/-3	FM0139A-GP0_1 ft
	1ft	1 – 2			Red/brown sandy silt	As 21+/-3 Pb 14+/-3 As 21+/-3 Pb 13+/-3	
	1ft	2 – 3			Red/brown sandy silt	As 19+/-2 Pb 13+/-3	
	1ft	3 – 4			Red/brown silty clay	As 16+/-2 Pb 11+/-3	
					Boring Terminated @4 feet FM0139A-GP0_1 ft Sample XRF Reading - As - 28+/-4; Pb - 83+/-5		

Notes:

FM	Fairmont
ppm	parts per million
N/A	Not Available
As	Arsenic
Pb	Lead

Data recorded Central Standard Time

Project: 35th Avenue Removal		Soil Boring Identification: **FM0195C**	
Project #: 2005148	Phase: 1356	Logged by: Jerry Partap	
Address: 3136 45th Avenue North, Birmingham, AL			**FM0195**
Driller: Walker Hill		Begin: 9/19/13 @1045	End: 9/19/13 @1112
Crew Chief: Roger Matthews/Keri Power		Method: Geoprobe® Direct Push	
Latitude: 33.570677	Longitude: -86.805851		Surface: Grass
Screen: N/A	Riser: N/A		
Water Depth: N/A	at Drilling: N/A	at Completion: N/A	Measurement Date: N/A
Number/ Type of Samples: 1/Soil		Total Depth (ft): 4 ft	Borehole Diameter: 1.5"
Soil Sample analyzed for TCLP Metals			

Sample							
Time	Length	Depth Feet	Well Diagram	Graphic Log	Description	XRF Readings (ppm)	Sample Identification
	1ft	0 – 1			Grass, top soil, transformer parts Tan sandy clay w/gravel, dry, no odor	As 216+/-15 Pb 1699+/-20 As 13+/-4 Pb 108+/-5	FM0195C-GP0_1 ft
	1ft	1 – 2			Tan sandy clay w/silt, dry, no odor	As 2+/-1 Pb 10+/-2 As 7+/-2 Pb 12+/-2	
	1ft	2 – 3			Tan sandy clay w/silt, dry, no odor	As 11+/-2 Pb 15+/-3	
	1ft	3 – 4			Tan sandy clay w/silt, dry, no odor	As 7+/-2 Pb 14+/-3	
		4			Boring Terminated @4 feet FM0195C-GP0_1 ft Sample XRF Reading - As - 82+/-19; Pb - 2638+/-26		

Notes:

FM	Fairmont
ppm	parts per million
N/A	Not Available
As	Arsenic
Pb	Lead

Data recorded Central Standard Time

Project: 35th Avenue Removal				Soil Boring Identification: **FM0265B**			
Project #: 2005148	Phase: 1356			Logged by: Jerry Partap			
Address: 4001 Fairmont Place, Birmingham, AL						**FM0265**	
Driller: Walker Hill				Begin: 9/19/13 @1000		End: 9/19/13 @1020	
Crew Chief: Roger Matthews/Keri Power				Method: Geoprobe® Direct Push			
Latitude: 33.563165	Longitude: -86.813317					Surface: Grass	
Screen: N/A	Riser: N/A						
Water Depth: N/A	at Drilling: N/A			at Completion: N/A		Measurement Date: N/A	
Number/ Type of Samples: 1/Soil				Total Depth (ft): 4 ft		Borehole Diameter: 1.5"	
Soil Sample analyzed for TCLP Metals							

Sample							
Time	Length	Depth Feet	Well Diagram	Graphic Log	Description	XRF Readings (ppm)	Sample Identification
	1ft	0 – 1			Grass, top soil w/coal fragments Brown sandy clay, dry, no odor	As 35+/-11 Pb 899+/-15	FM0265B-GP0_1 ft
	1ft	1 – 2			Brown sandy clay, dry, no odor	As 12+/-3 Pb 56+/-4 As 8+/-2 Pb 21+/-3 As 10+/-3 Pb 27+/-3	
	1ft	2 – 3			Brown sandy clay, dry, no odor	As 7+/-3 Pb 30+/-3	
	1ft	3 – 4			Brown sandy clay, dry, no odor	As 6+/-2 Pb 25+/-3	
					Boring Terminated @4 feet FM0265B-GP0_1 ft Sample XRF Reading - As - <LOD+/-15; Pb - 878+/-14		

Notes:

FM	Fairmont
ppm	parts per million
N/A	Not Available
As	Arsenic
Pb	Lead

Data recorded Central Standard Time

Project: 35th Avenue Removal		Soil Boring Identification: **FM0351B**	
Project #: 2005148	Phase: 1356	Logged by: Jerry Partap	
Address: 3932 Fairmont Place, Birmingham, AL			**FM0351**
Driller: Walker Hill		Begin: 9/19/13 @0845	End: 9/19/13 @0935
Crew Chief: Roger Matthews/Keri Power		Method: Geoprobe® Direct Push	
Latitude: 33.562918	Longitude: -86.814071		Surface: Grass
Screen: N/A	Riser: N/A		
Water Depth: N/A	at Drilling: N/A	at Completion: N/A	Measurement Date: N/A
Number/ Type of Samples: 1/Soil		Total Depth (ft): 2 ft	Borehole Diameter: 1.5"
Soil Sample analyzed for TCLP Metals			

Sample							
Time	Length	Depth Feet	Well Diagram	Graphic Log	Description	XRF Readings (ppm)	Sample Identification
	1ft	0			Grass, top soil w/coal fragments	As 27+/-4 Pb 124+/-5	
					Tan sandy clay, dry, no odor	As 40+/-4 Pb 68+/-4	FM0351B-HA0_1ft
	1ft	1			Tan sandy clay, dry, no odor	As 7+/-2 Pb 19+/-3	
		2				As 5+/-2 Pb 13+/-2	
					Boring Terminated @2 feet FM0351B-HA0_1 ft Sample XRF Reading - As - 28+/-4; Pb - 112+/-5		

Notes:

FM	Fairmont
ppm	parts per million
N/A	Not Available
As	Arsenic
Pb	Lead

Data recorded Central Standard Time

APPENDIX F

LABORATORY ANALYTICAL REPORTS

Data Validation Checklist
Inorganic Analyses

Project:	35TH Avenue Superfund Site	Project No:	2005148-1356
Laboratory:	Test America, Inc., Savannah, GA	SDG No.:	680-94506-1
Method:	SW-846 6010B, 1311/6010	Associated Samples:	Refer to Attachment A (Sample Summary)
Matrix:	Soil	Samples Collected:	09/17/2013-09/20/2013
Reviewer:	Renea Anglin	Date:	10/17/2013
Concurrence:	Limari Krebs	Date:	

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
1. Were sample preservation requirements met? If pH of aqueous sample >2 and was not adjusted by laboratory prior to analysis, J- flag positive results and R- flag non-detect results.	x			Received at 4.0°C or 4.5°C.	
2. Were all COC records signed and integrity seals intact, indicating that COC was maintained for all samples?	x				
3. Were there any problems noted in laboratory data package concerning condition of samples upon receipt?		x			
4. Do any soil/sediment samples contain more than 50% water? If yes, then results are to be reported on a wet-weight basis.		x			
5. Have any technical holding times, determined from date of collection to date of analysis, been exceeded? (metals: ≤6 months).		x		6010 was prepared 09/24/13 and analyzed 09/25/13. TCLP samples were prepared on 09/30/13 and analyzed on 09/30/13.	
6. Were results for all project-specified target analytes reported?	x				
7. Were project-specified Reporting Limits achieved for undiluted sample analyses?	x				
8. Were method blank (MB) prepared at the appropriate frequency (one per 20 samples, batch, matrix, and level)?	x				
9. Was a calibration blank (ICB/CCB) analyzed at the beginning, after every 10th sample, and at the end of each analytical run?	x				
10. Were target analytes detected in the method and/or calibration blanks?		x			
11. Were target analytes reported in equipment blank analyses above the DL?			x		

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
12. Were contaminants detected in samples below the blank contamination action level? o If blank result > RL, • Flag sample results ≤ RL with a U • Flag positive sample results > RL and ≤10x blank result , as J+ positive results o If blank result ≤RL, • Flag sample results ≤ RL with a U • Flag positive sample results > RL and ≤10x blank result , as J+ positive results			x		
13. Are there negative laboratory blank results with the absolute value ≤RL? If yes, then flag positive and non-detect sample results that are < 10x absolute blank value as J- and UJ, respectively.		x			
14. Was a field duplicate analyzed?	x			WCRW-GP01-2-6in and duplicate WCWR-GP01-2-6inD	
15. Was precision deemed acceptable as defined by the project plans?	x				
16. Were initial and continuing calibration standards analyzed at the lab/project-specified frequency for each instrument? o 6010B: • ICAL: Blank and one standard • ICV initially, and CCV every 10th sample and at the end of the analytical run	x			• 6010B: 09/25/13. Two (2) Initial calibration standards. ICV initially, and CCV every 10 samples and at end of run • 1311/6010B: 09/30/13. Two (2) Initial calibration standards. ICV initially, and CCV every 10 samples and at end of run	

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
17. Were these results within lab/project specifications? o 6010B (ICV/CCV Criteria: 90-110%R): • If %R <75, then J- flag positive results and R-flag non-detects • If 75-89%R, then J- flag positive results and UJ flag non-detects • If 111-125%R, then J flag positive results • If >125%R, then J+ flag positive results • If >160%R, then R flag positive results	x				
18. Was the interference check sample (ICS) analyzed at the beginning of each ICP analytical run?	x				
19. Are ICS recoveries within 80-120% of the true value? If not, qualify data as follows when native Al, Fe, Ca, and Mg sample concentrations are equal to or greater than the ICS spiking level: o If >120%R (or >true value plus 2x CRQL), J+ flag positive results o If 50-79%R (or less than true value – 2x the CRQL), J- flag positive results and UJ flag non-detects o If <50%R, J- flag positive results and R-flag non-detects	x				
20. Was a LCS analyzed for each preparation batch (one per 20 samples per matrix and level)?	x				
21. Did LCS recoveries meet laboratory/project (80-120%R) specifications? o Soil: • LCS result > Upper control limit (UCL): J+ flag positive results • LCS result < Lower control limit (LCL): J- flag positive results and UJ flag non-detects	x				
22. Was the RPD between LCS and LCSD results within laboratory /project control limits (≤20%RPD)? If not, J and UJ flag positive and non-detect results, respectively	x				
23. Was a Matrix Spike (MS) and Matrix Spike Duplicate (MSD) analyzed once per preparation batch?	x				

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
24. Is the MS and MSD parent sample a project-specific sample?	x			WCRW-GP01-01_6in	
25. Was a post-digestion spike (PDS) analysis conducted when MS and/or MSD results did not meet control limits (Note: PDS is not required for silver)?	x			WCRW-GP01-01_6in	
26. For all analytes with sample concentration < 4 x spike concentration, are spike recoveries within laboratory/project control limits (MS, MSD, and PDS: 75-125%R)? Only QC results for project samples are evaluated. If not, o 6010B: • If MS %R <30 and PDS %R <75, then J- and R Flag positive and ND results, respectively • If MS %R <30 and PDS %R >75, then J flag positive and UJ flag non-detect results • If MS and MSD %R 30-74 and PDS%R <75, then J- flag positive and UJ flag non-detect results • If MS and MSD %R 30-74 and PDS%R ≥75, then J flag positive and UJ flag non-detect results • If MS, MSD, and PDS %R >125, J+ flag positive results • If MS and MSD %R >125 and PDS %R ≤125, then J flag positive results • If MS and MSD %R <30 and no PDS, then J- flag positive and R-flag non-detect results • If MS and MSD %R 30-74 and no PDS, then J- and UJ flag positive and non-detect results, respectively • If MS and MSD %R >125 and no PDS, then J+ flag positive results		x		Barium results were >4x the spike level, therefore Barium cannot be evaluated. MS- Arsenic 74%R, Cadmium 61%R, Chromium 50%R, Lead 64%R and selenium 72%R. MSD- Arsenic 66%R, Cadmium 57%R, Chromium 29%R, Lead 67%R and selenium 62%R. PDS- Lead 74%R. Therefore- Arsenic, Chromium, Lead and Selenium were flagged J, and Cadmium was flagged UJ in samples WCRW-GP01-01_6in and WCRW-GP01-01_6inD.	
27. Were laboratory/project (≤20%RPD) criteria met for precision during the MS and MSD analysis? Only QC results for project samples are evaluated. o If RPD >20%, J and UJ flag positive and non-detect results.	x				

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
28. Was a serial dilution conducted for 6010B?	x				
29. Is the serial dilution parent sample a project-specific sample?	x			WCRW-GP01-01_6in	
30. Is the percent difference between the serially diluted result and undiluted result less 10% (for those analytes with native concentrations greater than 50x the DL)? Only QC results for project samples are evaluated. o If %D >10, J and UJ flag positive and non-detect results, respectively.		x		Barium was 19%D. Therefore Barium was flagged as J in WCRW-GP01-01_6in and WCRW-GP01-01_6inD.	
31. Was a laboratory duplicate analyzed?				Laboratory duplicate sample analyses were not analyzed. An evaluation of precision was based on the results of the LCS and LCSD results and MS/MSD.	
32. Was the lab duplicate analysis conducted on a project-specific sample?			x		
33. Were criteria for laboratory/project precision met? Only QC results for project samples are evaluated. o If RPD values >20% (35% for soil/sediment) or absolute difference > RL (2x RL for soil/sediment), then J and UJ flag positive and non-detect results, respectively	x				
34. Were lab comments included in report? If yes, summarize contents or attach a copy of the narrative.				Refer to Attachment B (Case Narratives)	
Comments: The data review process was modeled after the USEPA Contract Laboratory Program (CLP) National Functional Guidelines (NFG) for Inorganic Data Review (EPA 540-R-04-004, October 2004). Sample results have been qualified based on the results of the data review process (Attachment D). Criteria for acceptability of data were based upon available site information, analytical method requirements, guidance documents, and professional judgment					

DV Flag Definitions:

J- The result is an estimated quantity, but the result may be biased low.
J The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
J+ The result is an estimated quantity, but the result may be biased high.
R The data are unusable. The sample results are rejected due to serious deficiencies in meeting Quality Control (QC) criteria. The analyte may or may not be present in the sample.
U The analyte was analyzed for, but was not detected above the associated level; blank contamination may exist.
UJ The analyte was analyzed for, but was not detected. The reported limit is approximate and may be inaccurate or imprecise.

ATTACHMENT A

SAMPLE SUMMARY

COVER PAGE
METALS

Lab Name: TestAmerica Savannah Job Number: 680-94506-1

SDG No.: 680-94506-1

Project: 35th Avenue Superfund Site

Client Sample ID	Lab Sample ID
WCRW-GP01-0_6in	680-94506-1
WCRW-GP01-0_6inD	680-94506-2
WCWL-GP08-0_2ft	680-94506-3
CV0409A-HA0_1ft	680-94506-4
FM0351B-HA0-_1ft	680-94506-5
HP0025B-GP0_1ft	680-94506-6
FM0265B-GP0_1ft	680-94506-7
HP0204B-HA0_1ft	680-94506-8
HP0228A-GP0_1ft	680-94506-9
FM0195C-GP0_1ft	680-94506-10
CV1248A-HA0_1ft	680-94506-11
CV0246B-HA0_1ft	680-94506-12
HP0192B-GP0_1ft	680-94506-13
HP0037B-HA0_1ft	680-94506-14
CV023B-HA0_1ft	680-94506-15
FM0139A-GP0_1ft	680-94506-16
CV0003A-HA0_1ft	680-94506-17
CV0511AB-HA0_1ft	680-94506-18

Comments:

ATTACHMENT B

CASE NARRATIVE

CASE NARRATIVE
Client: Oneida Total Integrated Enterprises LLC
Project: 35th Avenue Superfund Site
Report Number: 680-94506-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 9/24/2013 9:19 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 4.0° C and 4.5° C.

METALS (ICP) - TCLP

Samples CV0409A-HA0_1ft (680-94506-4), FM0351B-HA0-_1ft (680-94506-5), HP0025B-GP0_1ft (680-94506-6), FM0265B-GP0_1ft (680-94506-7), HP0204B-HA0_1ft (680-94506-8), HP0228A-GP0_1ft (680-94506-9), FM0195C-GP0_1ft (680-94506-10), CV1248A-HA0_1ft (680-94506-11), CV0246B-HA0_1ft (680-94506-12), HP0192B-GP0_1ft (680-94506-13), HP0037B-HA0_1ft (680-94506-14), CV023B-HA0_1ft (680-94506-15), FM0139A-GP0_1ft (680-94506-16), CV0003A-HA0_1ft (680-94506-17) and CV0511AB-HA0_1ft (680-94506-18) were analyzed for Metals (ICP) - TCLP in accordance with EPA SW-846 Methods 1311/6010C.

Method(s) 6010C: The serial dilution performed for the following sample(s) associated with batch 680-295281 was outside control limits for barium: (680-94506-1 SD)

Method(s) 6010C: The post digestion spike % recovery for lead associated with batch 680-295281 was outside of control limits.

Method(s) 6010C: Due to the high concentration of barium, the matrix spike / matrix spike duplicate (MS/MSD) for batch 680-295281 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria.

Method(s) 6010C: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 680-295281 were outside control limits for arsenic, cadmium, chromium, lead, and selenium. The associated laboratory control sample (LCS) recovery met acceptance criteria.

METALS (ICP)

Samples WCRW-GP01-0__6in (680-94506-1), WCRW-GP01-0_6inD (680-94506-2) and WCWL-GP08-0_2ft (680-94506-3) were analyzed for Metals (ICP) in accordance with EPA SW-846 Method 6010C.

Several analytes recoveries are outside criteria for the MS and MSD of sample WCRW-GP01-0__6in (680-94506-1) in batch 680-295566.

Method(s) 6010B, 6010C: The post digestion spike % recovery for silver associated with batch 680-296074 was outside of control limits.

PERCENT SOLIDS/MOISTURE

Samples WCRW-GP01-0__6in (680-94506-1), WCRW-GP01-0_6inD (680-94506-2) and WCWL-GP08-0_2ft (680-94506-3) were analyzed for Percent Solids/Moisture in accordance with TestAmerica SOP.

10-7-13

ATTACHMENT C

QUALIFIED SAMPLE RESULTS

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: WCRW-GP01-0_6in
Lab Sample ID: 680-94506-1
Lab Name: TestAmerica Savannah
Job No.: 680-94506-1
SDG ID.: 680-94506-1
Matrix: Solid
Date Sampled: 09/18/2013 13:30
Reporting Basis: DRY
Date Received: 09/24/2013 09:19
% Solids: 94.4

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	4.0	2.0	0.58	mg/Kg			1	6010C
7440-39-3	Barium	290	0.99	0.30	mg/Kg			1	6010C
7440-43-9	Cadmium	0.49	0.49	0.099	mg/Kg			1	6010C
7440-47-3	Chromium	15	0.99	0.49	mg/Kg			1	6010C
7439-92-1	Lead	4.3	0.99	0.52	mg/Kg			1	6010C
7782-49-2	Selenium	3.4	2.5	0.99	mg/Kg			1	6010C
7440-22-4	Silver	0.99	0.99	0.095	mg/Kg	U		1	6010C

10-17-13

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: WCRW-GP01-0_6inD
Lab Sample ID: 680-94506-2
Lab Name: TestAmerica Savannah
Job No.: 680-94506-1
SDG ID.: 680-94506-1
Matrix: Solid
Date Sampled: 09/18/2013 13:30
Reporting Basis: DRY
Date Received: 09/24/2013 09:19
% Solids: 94.0

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	4.3	1.9	0.55	mg/Kg	J		1	6010C
7440-39-3	Barium	290	0.93	0.28	mg/Kg	J		1	6010C
7440-43-9	Cadmium	0.47	0.47	0.093	mg/Kg	J		1	6010C
7440-47-3	Chromium	14	0.93	0.47	mg/Kg	J		1	6010C
7439-92-1	Lead	4.9	0.93	0.49	mg/Kg	J		1	6010C
7782-49-2	Selenium	4.0	2.3	0.93	mg/Kg	J		1	6010C
7440-22-4	Silver	0.93	0.93	0.090	mg/Kg	U		1	6010C

10-17-13

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: WCWL-GP08-0_2ft
Lab Sample ID: 680-94506-3
Lab Name: TestAmerica Savannah
Job No.: 680-94506-1
SDG ID.: 680-94506-1
Matrix: Solid
Date Sampled: 09/18/2013 17:30
Reporting Basis: DRY
Date Received: 09/24/2013 09:19
% Solids: 94.6

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	20	2.0	0.58	mg/Kg			1	6010C
7440-39-3	Barium	230	0.99	0.30	mg/Kg			1	6010C
7440-43-9	Cadmium	6.7	0.49	0.099	mg/Kg			1	6010C
7440-47-3	Chromium	57	0.99	0.49	mg/Kg			1	6010C
7439-92-1	Lead	700	0.99	0.52	mg/Kg			1	6010C
7782-49-2	Selenium	2.5	2.5	0.99	mg/Kg	U		1	6010C
7440-22-4	Silver	0.24	0.99	0.095	mg/Kg	J		1	6010C

10-17-13

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - TCLP

Client Sample ID: CV0409A-HA0_1ft
Lab Sample ID: 680-94506-4
Lab Name: TestAmerica Savannah
Job No.: 680-94506-1
SDG ID.: 680-94506-1
Matrix: Solid
Date Sampled: 09/19/2013 15:35
Reporting Basis: WET
Date Received: 09/24/2013 09:19

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	0.20	0.20	0.20	mg/L	U		1	6010C
7440-39-3	Barium	1.0	1.0	1.0	mg/L	U		1	6010C
7440-43-9	Cadmium	0.10	0.10	0.10	mg/L	U		1	6010C
7440-47-3	Chromium	0.20	0.20	0.20	mg/L	U		1	6010C
7439-92-1	Lead	0.20	0.20	0.20	mg/L	U		1	6010C
7782-49-2	Selenium	0.50	0.50	0.50	mg/L	U		1	6010C
7440-22-4	Silver	0.10	0.10	0.10	mg/L	U		1	6010C

10-17-13

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - TCLP

Client Sample ID: FM0351B-HA0-_1ft
Lab Sample ID: 680-94506-5
Lab Name: TestAmerica Savannah
Job No.: 680-94506-1
SDG ID.: 680-94506-1
Matrix: Solid
Date Sampled: 09/19/2013 09:35
Reporting Basis: WET
Date Received: 09/24/2013 09:19

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	0.20	0.20	0.20	mg/L	U		1	6010C
7440-39-3	Barium	1.0	1.0	1.0	mg/L	U		1	6010C
7440-43-9	Cadmium	0.10	0.10	0.10	mg/L	U		1	6010C
7440-47-3	Chromium	0.20	0.20	0.20	mg/L	U		1	6010C
7439-92-1	Lead	0.20	0.20	0.20	mg/L	U		1	6010C
7782-49-2	Selenium	0.50	0.50	0.50	mg/L	U		1	6010C
7440-22-4	Silver	0.10	0.10	0.10	mg/L	U		1	6010C

10-17-13

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - TCLP

Client Sample ID: HP0025B-GP0_1ft
Lab Sample ID: 680-94506-6
Lab Name: TestAmerica Savannah
Job No.: 680-94506-1
SDG ID.: 680-94506-1
Matrix: Solid
Date Sampled: 09/18/2013 10:15
Reporting Basis: WET
Date Received: 09/24/2013 09:19

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	0.20	0.20	0.20	mg/L	U		1	6010C
7440-39-3	Barium	3.8	1.0	1.0	mg/L			1	6010C
7440-43-9	Cadmium	0.10	0.10	0.10	mg/L	U		1	6010C
7440-47-3	Chromium	0.20	0.20	0.20	mg/L	U		1	6010C
7439-92-1	Lead	1.0	0.20	0.20	mg/L			1	6010C
7782-49-2	Selenium	0.50	0.50	0.50	mg/L	U		1	6010C
7440-22-4	Silver	0.10	0.10	0.10	mg/L	U		1	6010C

10-17-13

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - TCLP

Client Sample ID: FM0265B-GP0_1ft
Lab Sample ID: 680-94506-7
Lab Name: TestAmerica Savannah
Job No.: 680-94506-1
SDG ID.: 680-94506-1
Matrix: Solid
Date Sampled: 09/19/2013 10:30
Reporting Basis: WET
Date Received: 09/24/2013 09:19

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	0.20	0.20	0.20	mg/L	U		1	6010C
7440-39-3	Barium	1.1	1.0	1.0	mg/L			1	6010C
7440-43-9	Cadmium	0.10	0.10	0.10	mg/L	U		1	6010C
7440-47-3	Chromium	0.20	0.20	0.20	mg/L	U		1	6010C
7439-92-1	Lead	1.5	0.20	0.20	mg/L			1	6010C
7782-49-2	Selenium	0.50	0.50	0.50	mg/L	U		1	6010C
7440-22-4	Silver	0.10	0.10	0.10	mg/L	U		1	6010C

10-17-13

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - TCLP

Client Sample ID: HP0204B-HA0_1ft
Lab Sample ID: 680-94506-8
Lab Name: TestAmerica Savannah
Job No.: 680-94506-1
SDG ID.: 680-94506-1
Matrix: Solid
Date Sampled: 09/19/2013 14:30
Reporting Basis: WET
Date Received: 09/24/2013 09:19

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	0.20	0.20	0.20	mg/L	U		1	6010C
7440-39-3	Barium	1.0	1.0	1.0	mg/L	U		1	6010C
7440-43-9	Cadmium	0.10	0.10	0.10	mg/L	U		1	6010C
7440-47-3	Chromium	0.20	0.20	0.20	mg/L	U		1	6010C
7439-92-1	Lead	0.20	0.20	0.20	mg/L	U		1	6010C
7782-49-2	Selenium	0.50	0.50	0.50	mg/L	U		1	6010C
7440-22-4	Silver	0.10	0.10	0.10	mg/L	U		1	6010C

10-17-13

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - TCLP

Client Sample ID: HP0228A-GP0_1ft
Lab Sample ID: 680-94506-9
Lab Name: TestAmerica Savannah
Job No.: 680-94506-1
SDG ID.: 680-94506-1
Matrix: Solid
Date Sampled: 09/18/2013 11:15
Reporting Basis: WET
Date Received: 09/24/2013 09:19

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	0.20	0.20	0.20	mg/L	U		1	6010C
7440-39-3	Barium	1.0	1.0	1.0	mg/L	U		1	6010C
7440-43-9	Cadmium	0.10	0.10	0.10	mg/L	U		1	6010C
7440-47-3	Chromium	0.20	0.20	0.20	mg/L	U		1	6010C
7439-92-1	Lead	0.20	0.20	0.20	mg/L	U		1	6010C
7782-49-2	Selenium	0.50	0.50	0.50	mg/L	U		1	6010C
7440-22-4	Silver	0.10	0.10	0.10	mg/L	U		1	6010C

10-17-13

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - TCLP

Client Sample ID: FM0195C-GP0_1ft
Lab Sample ID: 680-94506-10
Lab Name: TestAmerica Savannah
Job No.: 680-94506-1
SDG ID.: 680-94506-1
Matrix: Solid
Date Sampled: 09/19/2013 11:02
Reporting Basis: WET
Date Received: 09/24/2013 09:19

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	0.20	0.20	0.20	mg/L	U		1	6010C
7440-39-3	Barium	1.0	1.0	1.0	mg/L	U		1	6010C
7440-43-9	Cadmium	0.10	0.10	0.10	mg/L	U		1	6010C
7440-47-3	Chromium	0.20	0.20	0.20	mg/L	U		1	6010C
7439-92-1	Lead	39	0.20	0.20	mg/L			1	6010C
7782-49-2	Selenium	0.50	0.50	0.50	mg/L	U		1	6010C
7440-22-4	Silver	0.10	0.10	0.10	mg/L	U		1	6010C

10-17-13

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - TCLP

Client Sample ID: CV1248A-HA0_1ft
Lab Sample ID: 680-94506-11
Lab Name: TestAmerica Savannah
Job No.: 680-94506-1
SDG ID.: 680-94506-1
Matrix: Solid
Date Sampled: 09/20/2013 08:10
Reporting Basis: WET
Date Received: 09/24/2013 09:19

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	0.20	0.20	0.20	mg/L	U		1	6010C
7440-39-3	Barium	1.0	1.0	1.0	mg/L	U		1	6010C
7440-43-9	Cadmium	0.10	0.10	0.10	mg/L	U		1	6010C
7440-47-3	Chromium	0.20	0.20	0.20	mg/L	U		1	6010C
7439-92-1	Lead	0.20	0.20	0.20	mg/L	U		1	6010C
7782-49-2	Selenium	0.50	0.50	0.50	mg/L	U		1	6010C
7440-22-4	Silver	0.10	0.10	0.10	mg/L	U		1	6010C

10-17-13

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - TCLP

Client Sample ID: CV0246B-HA0_1ft
Lab Sample ID: 680-94506-12
Lab Name: TestAmerica Savannah
Job No.: 680-94506-1
SDG ID.: 680-94506-1
Matrix: Solid
Date Sampled: 09/17/2013 13:00
Reporting Basis: WET
Date Received: 09/24/2013 09:19

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	0.20	0.20	0.20	mg/L	U		1	6010C
7440-39-3	Barium	1.0	1.0	1.0	mg/L	U		1	6010C
7440-43-9	Cadmium	0.10	0.10	0.10	mg/L	U		1	6010C
7440-47-3	Chromium	0.20	0.20	0.20	mg/L	U		1	6010C
7439-92-1	Lead	0.20	0.20	0.20	mg/L	U		1	6010C
7782-49-2	Selenium	0.50	0.50	0.50	mg/L	U		1	6010C
7440-22-4	Silver	0.10	0.10	0.10	mg/L	U		1	6010C

10-17-13

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - TCLP

Client Sample ID: HP0192B-GP0_1ft
Lab Sample ID: 680-94506-13
Lab Name: TestAmerica Savannah
Job No.: 680-94506-1
SDG ID.: 680-94506-1
Matrix: Solid
Date Sampled: 09/19/2013 14:00
Reporting Basis: WET
Date Received: 09/24/2013 09:19

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	0.20	0.20	0.20	mg/L	U		1	6010C
7440-39-3	Barium	1.0	1.0	1.0	mg/L	U		1	6010C
7440-43-9	Cadmium	0.10	0.10	0.10	mg/L	U		1	6010C
7440-47-3	Chromium	0.20	0.20	0.20	mg/L	U		1	6010C
7439-92-1	Lead	0.20	0.20	0.20	mg/L	U		1	6010C
7782-49-2	Selenium	0.50	0.50	0.50	mg/L	U		1	6010C
7440-22-4	Silver	0.10	0.10	0.10	mg/L	U		1	6010C

10-17-13

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - TCLP

Client Sample ID: HP0037B-HA0_1ft
Lab Sample ID: 680-94506-14
Lab Name: TestAmerica Savannah
Job No.: 680-94506-1
SDG ID.: 680-94506-1
Matrix: Solid
Date Sampled: 09/19/2013 15:05
Reporting Basis: WET
Date Received: 09/24/2013 09:19

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	0.20	0.20	0.20	mg/L	U		1	6010C
7440-39-3	Barium	1.0	1.0	1.0	mg/L	U		1	6010C
7440-43-9	Cadmium	0.10	0.10	0.10	mg/L	U		1	6010C
7440-47-3	Chromium	0.20	0.20	0.20	mg/L	U		1	6010C
7439-92-1	Lead	0.20	0.20	0.20	mg/L	U		1	6010C
7782-49-2	Selenium	0.50	0.50	0.50	mg/L	U		1	6010C
7440-22-4	Silver	0.10	0.10	0.10	mg/L	U		1	6010C

10-17-13

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - TCLP

Client Sample ID: CV023B-HA0_1ft
Lab Sample ID: 680-94506-15
Lab Name: TestAmerica Savannah
Job No.: 680-94506-1
SDG ID.: 680-94506-1
Matrix: Solid
Date Sampled: 09/20/2013 08:55
Reporting Basis: WET
Date Received: 09/24/2013 09:19

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	0.20	0.20	0.20	mg/L	U		1	6010C
7440-39-3	Barium	1.4	1.0	1.0	mg/L			1	6010C
7440-43-9	Cadmium	0.10	0.10	0.10	mg/L	U		1	6010C
7440-47-3	Chromium	0.20	0.20	0.20	mg/L	U		1	6010C
7439-92-1	Lead	0.20	0.20	0.20	mg/L	U		1	6010C
7782-49-2	Selenium	0.50	0.50	0.50	mg/L	U		1	6010C
7440-22-4	Silver	0.10	0.10	0.10	mg/L	U		1	6010C

10-17-13

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - TCLP

Client Sample ID: FM0139A-GP0_1ft
Lab Sample ID: 680-94506-16
Lab Name: TestAmerica Savannah
Job No.: 680-94506-1
SDG ID.: 680-94506-1
Matrix: Solid
Date Sampled: 09/19/2013 12:05
Reporting Basis: WET
Date Received: 09/24/2013 09:19

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	0.20	0.20	0.20	mg/L	U		1	6010C
7440-39-3	Barium	1.0	1.0	1.0	mg/L	U		1	6010C
7440-43-9	Cadmium	0.10	0.10	0.10	mg/L	U		1	6010C
7440-47-3	Chromium	0.20	0.20	0.20	mg/L	U		1	6010C
7439-92-1	Lead	0.20	0.20	0.20	mg/L	U		1	6010C
7782-49-2	Selenium	0.50	0.50	0.50	mg/L	U		1	6010C
7440-22-4	Silver	0.10	0.10	0.10	mg/L	U		1	6010C

10-17-13

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - TCLP

Client Sample ID: CV0003A-HA0_1ft
Lab Sample ID: 680-94506-17
Lab Name: TestAmerica Savannah
Job No.: 680-94506-1
SDG ID.: 680-94506-1
Matrix: Solid
Date Sampled: 09/19/2013 15:55
Reporting Basis: WET
Date Received: 09/24/2013 09:19

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	0.20	0.20	0.20	mg/L	U		1	6010C
7440-39-3	Barium	1.0	1.0	1.0	mg/L	U		1	6010C
7440-43-9	Cadmium	0.10	0.10	0.10	mg/L	U		1	6010C
7440-47-3	Chromium	0.20	0.20	0.20	mg/L	U		1	6010C
7439-92-1	Lead	0.20	0.20	0.20	mg/L	U		1	6010C
7782-49-2	Selenium	0.50	0.50	0.50	mg/L	U		1	6010C
7440-22-4	Silver	0.10	0.10	0.10	mg/L	U		1	6010C

10-17-13

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - TCLP

Client Sample ID: CV0511AB-HA0_1ft
Lab Sample ID: 680-94506-18
Lab Name: TestAmerica Savannah
Job No.: 680-94506-1
SDG ID.: 680-94506-1
Matrix: Solid
Date Sampled: 09/20/2013 08:00
Reporting Basis: WET
Date Received: 09/24/2013 09:19

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	0.20	0.20	0.20	mg/L	U		1	6010C
7440-39-3	Barium	1.0	1.0	1.0	mg/L	U		1	6010C
7440-43-9	Cadmium	0.10	0.10	0.10	mg/L	U		1	6010C
7440-47-3	Chromium	0.20	0.20	0.20	mg/L	U		1	6010C
7439-92-1	Lead	0.20	0.20	0.20	mg/L	U		1	6010C
7782-49-2	Selenium	0.50	0.50	0.50	mg/L	U		1	6010C
7440-22-4	Silver	0.10	0.10	0.10	mg/L	U		1	6010C

10-17-13

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 680-94506-1

SDG Number: 680-94506-1

Job Description: 35th Avenue Superfund Site

For:
Oneida Total Integrated Enterprises LLC
1220 Kennestone Circle
Suite 106
Marietta, GA 30060

Attention: Ms. Limari F Krebs

Approved for release.
Lisa M Harvey
Project Manager II
10/7/2013 5:21 PM

Lisa M Harvey, Project Manager II
5102 LaRoche Avenue, Savannah, GA, 31404
(912)354-7858 e.3221
lisa.harvey@testamericainc.com
10/07/2013

The test results in this report meet NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted. Results pertain only to samples listed in this report. This report may not be reproduced, except in full, without the written approval of the laboratory. Questions should be directed to the person who signed this report.

Savannah Certifications and ID #s: A2LA: 0399.01; AL: 41450; ARDEQ: 88-0692; ARDOH; AZ: AZ0741; CA: 03217CA; CO; CT: PH0161; DE; FL: E87052; GA: 803; Guam; HI; IL: 200022; IN: C-GA-02; IA: 353; KS: E-10322; KY EPPC: 90084; KY UST; LA DEQ: 30690; LA DHH: LA080008; ME: 2008022; MD: 250; MA: M-GA006; MI: 9925; MS; NFESC: 249; NV: GA00006; NJ: GA769; NM; NY: 10842; NC DWQ: 269; NC DHHS: 13701; PA: 68-00474; PR: GA00006; RI: LAO00244; SC: 98001001; TN: TN0296; TX: T104704185; USEPA: GA00006; VT: VT-87052; VA: 00302; WA; WV DEP: 094; WV DHHR: 9950 C; WI DNR: 999819810; WY/EPAR8: 8TMS-Q

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CASE NARRATIVE
Client: Oneida Total Integrated Enterprises LLC
Project: 35th Avenue Superfund Site
Report Number: 680-94506-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 9/24/2013 9:19 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 4.0º C and 4.5º C.

METALS (ICP) - TCLP

Samples CV0409A-HA0_1ft (680-94506-4), FM0351B-HA0-_1ft (680-94506-5), HP0025B-GP0_1ft (680-94506-6), FM0265B-GP0_1ft (680-94506-7), HP0204B-HA0_1ft (680-94506-8), HP0228A-GP0_1ft (680-94506-9), FM0195C-GP0_1ft (680-94506-10), CV1248A-HA0_1ft (680-94506-11), CV0246B-HA0_1ft (680-94506-12), HP0192B-GP0_1ft (680-94506-13), HP0037B-HA0_1ft (680-94506-14), CV023B-HA0_1ft (680-94506-15), FM0139A-GP0_1ft (680-94506-16), CV0003A-HA0_1ft (680-94506-17) and CV0511AB-HA0_1ft (680-94506-18) were analyzed for Metals (ICP) - TCLP in accordance with EPA SW-846 Methods 1311/6010C.

Method(s) 6010C: The serial dilution performed for the following sample(s) associated with batch 680-295281 was outside control limits for barium: (680-94506-1 SD)

Method(s) 6010C: The post digestion spike % recovery for lead associated with batch 680-295281 was outside of control limits.

Method(s) 6010C: Due to the high concentration of barium, the matrix spike / matrix spike duplicate (MS/MSD) for batch 680-295281 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria.

Method(s) 6010C: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 680-295281 were outside control limits for arsenic, cadmium, chromium, lead, and selenium. The associated laboratory control sample (LCS) recovery met acceptance criteria.

METALS (ICP)

Samples WCRW-GP01-0__6in (680-94506-1), WCRW-GP01-0_6inD (680-94506-2) and WCWL-GP08-0_2ft (680-94506-3) were analyzed for Metals (ICP) in accordance with EPA SW-846 Method 6010C.

Several analytes recoveries are outside criteria for the MS and MSD of sample WCRW-GP01-0__6in (680-94506-1) in batch 680-295566.

Method(s) 6010B, 6010C: The post digestion spike % recovery for silver associated with batch 680-296074 was outside of control limits.

PERCENT SOLIDS/MOISTURE

Samples WCRW-GP01-0__6in (680-94506-1), WCRW-GP01-0_6inD (680-94506-2) and WCWL-GP08-0_2ft (680-94506-3) were analyzed for Percent Solids/Moisture in accordance with TestAmerica SOP.

SAMPLE SUMMARY

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-94506-1
Sdg Number: 680-94506-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
680-94506-1	WCRW-GP01-0_6in	Solid	09/18/2013 1330	09/24/2013 0919
680-94506-2	WCRW-GP01-0_6inD	Solid	09/18/2013 1330	09/24/2013 0919
680-94506-3	WCWL-GP08-0_2ft	Solid	09/18/2013 1730	09/24/2013 0919
680-94506-4	CV0409A-HA0_1ft	Solid	09/19/2013 1535	09/24/2013 0919
680-94506-5	FM0351B-HA0-_1ft	Solid	09/19/2013 0935	09/24/2013 0919
680-94506-6	HP0025B-GP0_1ft	Solid	09/18/2013 1015	09/24/2013 0919
680-94506-7	FM0265B-GP0_1ft	Solid	09/19/2013 1030	09/24/2013 0919
680-94506-8	HP0204B-HA0_1ft	Solid	09/19/2013 1430	09/24/2013 0919
680-94506-9	HP0228A-GP0_1ft	Solid	09/18/2013 1115	09/24/2013 0919
680-94506-10	FM0195C-GP0_1ft	Solid	09/19/2013 1102	09/24/2013 0919
680-94506-11	CV1248A-HA0_1ft	Solid	09/20/2013 0810	09/24/2013 0919
680-94506-12	CV0246B-HA0_1ft	Solid	09/17/2013 1300	09/24/2013 0919
680-94506-13	HP0192B-GP0_1ft	Solid	09/19/2013 1400	09/24/2013 0919
680-94506-14	HP0037B-HA0_1ft	Solid	09/19/2013 1505	09/24/2013 0919
680-94506-15	CV023B-HA0_1ft	Solid	09/20/2013 0855	09/24/2013 0919
680-94506-16	FM0139A-GP0_1ft	Solid	09/19/2013 1205	09/24/2013 0919
680-94506-17	CV0003A-HA0_1ft	Solid	09/19/2013 1555	09/24/2013 0919
680-94506-18	CV0511AB-HA0_1ft	Solid	09/20/2013 0800	09/24/2013 0919

METHOD SUMMARY

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-94506-1
Sdg Number: 680-94506-1

Description	Lab Location	Method	Preparation Method
Matrix: Solid			
Metals (ICP)	TAL SAV	SW846 6010C	
Preparation, Metals	TAL SAV		SW846 3050B
Metals (ICP)	TAL SAV	SW846 6010C	
TCLP Extraction	TAL SAV		SW846 1311
Preparation, Total Metals	TAL SAV		SW846 3010A
Percent Moisture	TAL SAV	EPA Moisture	

Lab References:

TAL SAV = TestAmerica Savannah

Method References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-94506-1
Sdg Number: 680-94506-1

Method	Analyst	Analyst ID
SW846 6010C	Bland, Brian C	BCB
EPA Moisture	Kicklighter, Marilyn D	MDK

DATA REPORTING QUALIFIERS

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-94506-1
Sdg Number: 680-94506-1

Lab Section	Qualifier	Description
Metals		
	U	Indicates the analyte was analyzed for but not detected.
	4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
	F	MS/MSD Recovery and/or RPD exceeds the control limits
	W	PS: Post-digestion spike was outside control limits
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
	V	Serial Dilution exceeds the control limits

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-94506-1
Sdg Number: 680-94506-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 680-295281					
LCS 680-295281/2-A	Lab Control Sample	T	Solid	3050B	
MB 680-295281/1-A	Method Blank	T	Solid	3050B	
680-94506-1	WCRW-GP01-0_6in	T	Solid	3050B	
680-94506-1MS	Matrix Spike	T	Solid	3050B	
680-94506-1MSD	Matrix Spike Duplicate	T	Solid	3050B	
680-94506-2	WCRW-GP01-0_6inD	T	Solid	3050B	
680-94506-3	WCWL-GP08-0_2ft	T	Solid	3050B	
Analysis Batch:680-295566					
LCS 680-295281/2-A	Lab Control Sample	T	Solid	6010C	680-295281
MB 680-295281/1-A	Method Blank	T	Solid	6010C	680-295281
680-94506-1	WCRW-GP01-0_6in	T	Solid	6010C	680-295281
680-94506-1MS	Matrix Spike	T	Solid	6010C	680-295281
680-94506-1MSD	Matrix Spike Duplicate	T	Solid	6010C	680-295281
680-94506-2	WCRW-GP01-0_6inD	T	Solid	6010C	680-295281
680-94506-3	WCWL-GP08-0_2ft	T	Solid	6010C	680-295281
Prep Batch: 680-295691					
LB 680-295691/21-C	TCLP SPLPE Leachate Blank	P	Solid	1311	
680-94461-A-2-H MS	Matrix Spike	P	Solid	1311	
680-94461-A-2-I MSD	Matrix Spike Duplicate	P	Solid	1311	
680-94506-4	CV0409A-HA0_1ft	P	Solid	1311	
680-94506-5	FM0351B-HA0-_1ft	P	Solid	1311	
680-94506-6	HP0025B-GP0_1ft	P	Solid	1311	
680-94506-7	FM0265B-GP0_1ft	P	Solid	1311	
680-94506-8	HP0204B-HA0_1ft	P	Solid	1311	
680-94506-9	HP0228A-GP0_1ft	P	Solid	1311	
680-94506-10	FM0195C-GP0_1ft	P	Solid	1311	
680-94506-11	CV1248A-HA0_1ft	P	Solid	1311	
680-94506-12	CV0246B-HA0_1ft	P	Solid	1311	
680-94506-13	HP0192B-GP0_1ft	P	Solid	1311	
680-94506-14	HP0037B-HA0_1ft	P	Solid	1311	
680-94506-15	CV023B-HA0_1ft	P	Solid	1311	
680-94506-16	FM0139A-GP0_1ft	P	Solid	1311	
680-94506-17	CV0003A-HA0_1ft	P	Solid	1311	
Prep Batch: 680-295884					
LB 680-295884/7-C	TCLP SPLPE Leachate Blank	P	Solid	1311	
680-94506-18	CV0511AB-HA0_1ft	P	Solid	1311	
Prep Batch: 680-295919					
LB 680-295919/5-B	TCLP SPLPE Leachate Blank	P	Solid	1311	
680-94579-A-1-C MS	Matrix Spike	P	Solid	1311	
680-94579-A-1-D MSD	Matrix Spike Duplicate	P	Solid	1311	

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-94506-1
Sdg Number: 680-94506-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 680-296074					
LCS 680-296074/2-A	Lab Control Sample	T	Water	3010A	
MB 680-296074/1-A	Method Blank	T	Water	3010A	
LB 680-295691/21-C	TCLP SPLPE Leachate Blank	P	Solid	3010A	680-295691
680-94461-A-2-H MS	Matrix Spike	P	Solid	3010A	680-295691
680-94461-A-2-I MSD	Matrix Spike Duplicate	P	Solid	3010A	680-295691
680-94506-4	CV0409A-HA0_1ft	P	Solid	3010A	680-295691
680-94506-5	FM0351B-HA0-_1ft	P	Solid	3010A	680-295691
680-94506-6	HP0025B-GP0_1ft	P	Solid	3010A	680-295691
680-94506-7	FM0265B-GP0_1ft	P	Solid	3010A	680-295691
680-94506-8	HP0204B-HA0_1ft	P	Solid	3010A	680-295691
680-94506-9	HP0228A-GP0_1ft	P	Solid	3010A	680-295691
680-94506-10	FM0195C-GP0_1ft	P	Solid	3010A	680-295691
680-94506-11	CV1248A-HA0_1ft	P	Solid	3010A	680-295691
680-94506-12	CV0246B-HA0_1ft	P	Solid	3010A	680-295691
680-94506-13	HP0192B-GP0_1ft	P	Solid	3010A	680-295691
680-94506-14	HP0037B-HA0_1ft	P	Solid	3010A	680-295691
680-94506-15	CV023B-HA0_1ft	P	Solid	3010A	680-295691
680-94506-16	FM0139A-GP0_1ft	P	Solid	3010A	680-295691
680-94506-17	CV0003A-HA0_1ft	P	Solid	3010A	680-295691
Prep Batch: 680-296085					
LCS 680-296085/2-A	Lab Control Sample	T	Water	3010A	
MB 680-296085/1-A	Method Blank	T	Water	3010A	
LB 680-295884/7-C	TCLP SPLPE Leachate Blank	P	Solid	3010A	680-295884
LB 680-295919/5-B	TCLP SPLPE Leachate Blank	P	Solid	3010A	680-295919
680-94506-18	CV0511AB-HA0_1ft	P	Solid	3010A	680-295884
680-94579-A-1-C MS	Matrix Spike	P	Solid	3010A	680-295919
680-94579-A-1-D MSD	Matrix Spike Duplicate	P	Solid	3010A	680-295919

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-94506-1
Sdg Number: 680-94506-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Analysis Batch:680-296235					
LB 680-295691/21-C	TCLP SPLPE Leachate Blank	P	Solid	6010C	680-296074
LCS 680-296074/2-A	Lab Control Sample	T	Water	6010C	680-296074
MB 680-296074/1-A	Method Blank	T	Water	6010C	680-296074
LB 680-295884/7-C	TCLP SPLPE Leachate Blank	P	Solid	6010C	680-296085
LB 680-295919/5-B	TCLP SPLPE Leachate Blank	P	Solid	6010C	680-296085
LCS 680-296085/2-A	Lab Control Sample	T	Water	6010C	680-296085
MB 680-296085/1-A	Method Blank	T	Water	6010C	680-296085
680-94461-A-2-H MS	Matrix Spike	P	Solid	6010C	680-296074
680-94461-A-2-I MSD	Matrix Spike Duplicate	P	Solid	6010C	680-296074
680-94506-4	CV0409A-HA0_1ft	P	Solid	6010C	680-296074
680-94506-5	FM0351B-HA0-_1ft	P	Solid	6010C	680-296074
680-94506-6	HP0025B-GP0_1ft	P	Solid	6010C	680-296074
680-94506-7	FM0265B-GP0_1ft	P	Solid	6010C	680-296074
680-94506-8	HP0204B-HA0_1ft	P	Solid	6010C	680-296074
680-94506-9	HP0228A-GP0_1ft	P	Solid	6010C	680-296074
680-94506-10	FM0195C-GP0_1ft	P	Solid	6010C	680-296074
680-94506-11	CV1248A-HA0_1ft	P	Solid	6010C	680-296074
680-94506-12	CV0246B-HA0_1ft	P	Solid	6010C	680-296074
680-94506-13	HP0192B-GP0_1ft	P	Solid	6010C	680-296074
680-94506-14	HP0037B-HA0_1ft	P	Solid	6010C	680-296074
680-94506-15	CV023B-HA0_1ft	P	Solid	6010C	680-296074
680-94506-16	FM0139A-GP0_1ft	P	Solid	6010C	680-296074
680-94506-17	CV0003A-HA0_1ft	P	Solid	6010C	680-296074
680-94506-18	CV0511AB-HA0_1ft	P	Solid	6010C	680-296085
680-94579-A-1-C MS	Matrix Spike	P	Solid	6010C	680-296085
680-94579-A-1-D MSD	Matrix Spike Duplicate	P	Solid	6010C	680-296085

Report Basis
P = TCLP
T = Total

General Chemistry

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method
Analysis Batch:680-295276				
680-94500-B-5 MS	Matrix Spike	T	Solid	Moisture
680-94500-B-5 MSD	Matrix Spike Duplicate	T	Solid	Moisture
680-94506-1	WCRW-GP01-0_6in	T	Solid	Moisture
680-94506-2	WCRW-GP01-0_6inD	T	Solid	Moisture
680-94506-3	WCWL-GP08-0_2ft	T	Solid	Moisture

Report Basis
T = Total

METALS

COVER PAGE
METALS

Lab Name: TestAmerica Savannah Job Number: 680-94506-1

SDG No.: 680-94506-1

Project: 35th Avenue Superfund Site

Client Sample ID	Lab Sample ID
WCRW-GP01-0_6in	680-94506-1
WCRW-GP01-0_6inD	680-94506-2
WCWL-GP08-0_2ft	680-94506-3
CV0409A-HA0_1ft	680-94506-4
FM0351B-HA0-_1ft	680-94506-5
HP0025B-GP0_1ft	680-94506-6
FM0265B-GP0_1ft	680-94506-7
HP0204B-HA0_1ft	680-94506-8
HP0228A-GP0_1ft	680-94506-9
FM0195C-GP0_1ft	680-94506-10
CV1248A-HA0_1ft	680-94506-11
CV0246B-HA0_1ft	680-94506-12
HP0192B-GP0_1ft	680-94506-13
HP0037B-HA0_1ft	680-94506-14
CV023B-HA0_1ft	680-94506-15
FM0139A-GP0_1ft	680-94506-16
CV0003A-HA0_1ft	680-94506-17
CV0511AB-HA0_1ft	680-94506-18

Comments:

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: WCRW-GP01-0_6in
Lab Sample ID: 680-94506-1
Lab Name: TestAmerica Savannah
Job No.: 680-94506-1
SDG ID.: 680-94506-1
Matrix: Solid
Date Sampled: 09/18/2013 13:30
Reporting Basis: DRY
Date Received: 09/24/2013 09:19
% Solids: 94.4

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	4.0	2.0	0.58	mg/Kg			1	6010C
7440-39-3	Barium	290	0.99	0.30	mg/Kg			1	6010C
7440-43-9	Cadmium	0.49	0.49	0.099	mg/Kg	U		1	6010C
7440-47-3	Chromium	15	0.99	0.49	mg/Kg			1	6010C
7439-92-1	Lead	4.3	0.99	0.52	mg/Kg			1	6010C
7782-49-2	Selenium	3.4	2.5	0.99	mg/Kg			1	6010C
7440-22-4	Silver	0.99	0.99	0.095	mg/Kg	U		1	6010C

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: WCRW-GP01-0_6inD
Lab Sample ID: 680-94506-2
Lab Name: TestAmerica Savannah
Job No.: 680-94506-1
SDG ID.: 680-94506-1
Matrix: Solid
Date Sampled: 09/18/2013 13:30
Reporting Basis: DRY
Date Received: 09/24/2013 09:19
% Solids: 94.0

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	4.3	1.9	0.55	mg/Kg			1	6010C
7440-39-3	Barium	290	0.93	0.28	mg/Kg			1	6010C
7440-43-9	Cadmium	0.47	0.47	0.093	mg/Kg	U		1	6010C
7440-47-3	Chromium	14	0.93	0.47	mg/Kg			1	6010C
7439-92-1	Lead	4.9	0.93	0.49	mg/Kg			1	6010C
7782-49-2	Selenium	4.0	2.3	0.93	mg/Kg			1	6010C
7440-22-4	Silver	0.93	0.93	0.090	mg/Kg	U		1	6010C

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: WCWL-GP08-0_2ft
Lab Sample ID: 680-94506-3
Lab Name: TestAmerica Savannah
Job No.: 680-94506-1
SDG ID.: 680-94506-1
Matrix: Solid
Date Sampled: 09/18/2013 17:30
Reporting Basis: DRY
Date Received: 09/24/2013 09:19
% Solids: 94.6

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	20	2.0	0.58	mg/Kg			1	6010C
7440-39-3	Barium	230	0.99	0.30	mg/Kg			1	6010C
7440-43-9	Cadmium	6.7	0.49	0.099	mg/Kg			1	6010C
7440-47-3	Chromium	57	0.99	0.49	mg/Kg			1	6010C
7439-92-1	Lead	700	0.99	0.52	mg/Kg			1	6010C
7782-49-2	Selenium	2.5	2.5	0.99	mg/Kg	U		1	6010C
7440-22-4	Silver	0.24	0.99	0.095	mg/Kg	J		1	6010C

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - TCLP

Client Sample ID: CV0409A-HA0_1ft
Lab Sample ID: 680-94506-4
Lab Name: TestAmerica Savannah
Job No.: 680-94506-1
SDG ID.: 680-94506-1
Matrix: Solid
Date Sampled: 09/19/2013 15:35
Reporting Basis: WET
Date Received: 09/24/2013 09:19

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	0.20	0.20	0.20	mg/L	U		1	6010C
7440-39-3	Barium	1.0	1.0	1.0	mg/L	U		1	6010C
7440-43-9	Cadmium	0.10	0.10	0.10	mg/L	U		1	6010C
7440-47-3	Chromium	0.20	0.20	0.20	mg/L	U		1	6010C
7439-92-1	Lead	0.20	0.20	0.20	mg/L	U		1	6010C
7782-49-2	Selenium	0.50	0.50	0.50	mg/L	U		1	6010C
7440-22-4	Silver	0.10	0.10	0.10	mg/L	U		1	6010C

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - TCLP

Client Sample ID: FM0351B-HA0-_1ft
Lab Sample ID: 680-94506-5
Lab Name: TestAmerica Savannah
Job No.: 680-94506-1
SDG ID.: 680-94506-1
Matrix: Solid
Date Sampled: 09/19/2013 09:35
Reporting Basis: WET
Date Received: 09/24/2013 09:19

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	0.20	0.20	0.20	mg/L	U		1	6010C
7440-39-3	Barium	1.0	1.0	1.0	mg/L	U		1	6010C
7440-43-9	Cadmium	0.10	0.10	0.10	mg/L	U		1	6010C
7440-47-3	Chromium	0.20	0.20	0.20	mg/L	U		1	6010C
7439-92-1	Lead	0.20	0.20	0.20	mg/L	U		1	6010C
7782-49-2	Selenium	0.50	0.50	0.50	mg/L	U		1	6010C
7440-22-4	Silver	0.10	0.10	0.10	mg/L	U		1	6010C

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - TCLP

Client Sample ID: HP0025B-GP0_1ft
Lab Sample ID: 680-94506-6
Lab Name: TestAmerica Savannah
Job No.: 680-94506-1
SDG ID.: 680-94506-1
Matrix: Solid
Date Sampled: 09/18/2013 10:15
Reporting Basis: WET
Date Received: 09/24/2013 09:19

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	0.20	0.20	0.20	mg/L	U		1	6010C
7440-39-3	Barium	3.8	1.0	1.0	mg/L			1	6010C
7440-43-9	Cadmium	0.10	0.10	0.10	mg/L	U		1	6010C
7440-47-3	Chromium	0.20	0.20	0.20	mg/L	U		1	6010C
7439-92-1	Lead	1.0	0.20	0.20	mg/L			1	6010C
7782-49-2	Selenium	0.50	0.50	0.50	mg/L	U		1	6010C
7440-22-4	Silver	0.10	0.10	0.10	mg/L	U		1	6010C

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - TCLP

Client Sample ID: FM0265B-GP0_1ft
Lab Sample ID: 680-94506-7
Lab Name: TestAmerica Savannah
Job No.: 680-94506-1
SDG ID.: 680-94506-1
Matrix: Solid
Date Sampled: 09/19/2013 10:30
Reporting Basis: WET
Date Received: 09/24/2013 09:19

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	0.20	0.20	0.20	mg/L	U		1	6010C
7440-39-3	Barium	1.1	1.0	1.0	mg/L			1	6010C
7440-43-9	Cadmium	0.10	0.10	0.10	mg/L	U		1	6010C
7440-47-3	Chromium	0.20	0.20	0.20	mg/L	U		1	6010C
7439-92-1	Lead	1.5	0.20	0.20	mg/L			1	6010C
7782-49-2	Selenium	0.50	0.50	0.50	mg/L	U		1	6010C
7440-22-4	Silver	0.10	0.10	0.10	mg/L	U		1	6010C

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - TCLP

Client Sample ID: HP0204B-HA0_1ft
Lab Sample ID: 680-94506-8
Lab Name: TestAmerica Savannah
Job No.: 680-94506-1
SDG ID.: 680-94506-1
Matrix: Solid
Date Sampled: 09/19/2013 14:30
Reporting Basis: WET
Date Received: 09/24/2013 09:19

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	0.20	0.20	0.20	mg/L	U		1	6010C
7440-39-3	Barium	1.0	1.0	1.0	mg/L	U		1	6010C
7440-43-9	Cadmium	0.10	0.10	0.10	mg/L	U		1	6010C
7440-47-3	Chromium	0.20	0.20	0.20	mg/L	U		1	6010C
7439-92-1	Lead	0.20	0.20	0.20	mg/L	U		1	6010C
7782-49-2	Selenium	0.50	0.50	0.50	mg/L	U		1	6010C
7440-22-4	Silver	0.10	0.10	0.10	mg/L	U		1	6010C

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - TCLP

Client Sample ID: HP0228A-GP0_1ft
Lab Sample ID: 680-94506-9
Lab Name: TestAmerica Savannah
Job No.: 680-94506-1
SDG ID.: 680-94506-1
Matrix: Solid
Date Sampled: 09/18/2013 11:15
Reporting Basis: WET
Date Received: 09/24/2013 09:19

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	0.20	0.20	0.20	mg/L	U		1	6010C
7440-39-3	Barium	1.0	1.0	1.0	mg/L	U		1	6010C
7440-43-9	Cadmium	0.10	0.10	0.10	mg/L	U		1	6010C
7440-47-3	Chromium	0.20	0.20	0.20	mg/L	U		1	6010C
7439-92-1	Lead	0.20	0.20	0.20	mg/L	U		1	6010C
7782-49-2	Selenium	0.50	0.50	0.50	mg/L	U		1	6010C
7440-22-4	Silver	0.10	0.10	0.10	mg/L	U		1	6010C

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - TCLP

Client Sample ID: FM0195C-GP0_1ft
Lab Sample ID: 680-94506-10
Lab Name: TestAmerica Savannah
Job No.: 680-94506-1
SDG ID.: 680-94506-1
Matrix: Solid
Date Sampled: 09/19/2013 11:02
Reporting Basis: WET
Date Received: 09/24/2013 09:19

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	0.20	0.20	0.20	mg/L	U		1	6010C
7440-39-3	Barium	1.0	1.0	1.0	mg/L	U		1	6010C
7440-43-9	Cadmium	0.10	0.10	0.10	mg/L	U		1	6010C
7440-47-3	Chromium	0.20	0.20	0.20	mg/L	U		1	6010C
7439-92-1	Lead	39	0.20	0.20	mg/L			1	6010C
7782-49-2	Selenium	0.50	0.50	0.50	mg/L	U		1	6010C
7440-22-4	Silver	0.10	0.10	0.10	mg/L	U		1	6010C

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - TCLP

Client Sample ID: CV1248A-HA0_1ft
Lab Sample ID: 680-94506-11
Lab Name: TestAmerica Savannah
Job No.: 680-94506-1
SDG ID.: 680-94506-1
Matrix: Solid
Date Sampled: 09/20/2013 08:10
Reporting Basis: WET
Date Received: 09/24/2013 09:19

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	0.20	0.20	0.20	mg/L	U		1	6010C
7440-39-3	Barium	1.0	1.0	1.0	mg/L	U		1	6010C
7440-43-9	Cadmium	0.10	0.10	0.10	mg/L	U		1	6010C
7440-47-3	Chromium	0.20	0.20	0.20	mg/L	U		1	6010C
7439-92-1	Lead	0.20	0.20	0.20	mg/L	U		1	6010C
7782-49-2	Selenium	0.50	0.50	0.50	mg/L	U		1	6010C
7440-22-4	Silver	0.10	0.10	0.10	mg/L	U		1	6010C

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - TCLP

Client Sample ID: CV0246B-HA0_1ft
Lab Sample ID: 680-94506-12
Lab Name: TestAmerica Savannah
Job No.: 680-94506-1
SDG ID.: 680-94506-1
Matrix: Solid
Date Sampled: 09/17/2013 13:00
Reporting Basis: WET
Date Received: 09/24/2013 09:19

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	0.20	0.20	0.20	mg/L	U		1	6010C
7440-39-3	Barium	1.0	1.0	1.0	mg/L	U		1	6010C
7440-43-9	Cadmium	0.10	0.10	0.10	mg/L	U		1	6010C
7440-47-3	Chromium	0.20	0.20	0.20	mg/L	U		1	6010C
7439-92-1	Lead	0.20	0.20	0.20	mg/L	U		1	6010C
7782-49-2	Selenium	0.50	0.50	0.50	mg/L	U		1	6010C
7440-22-4	Silver	0.10	0.10	0.10	mg/L	U		1	6010C

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - TCLP

Client Sample ID: HP0192B-GP0_1ft
Lab Sample ID: 680-94506-13
Lab Name: TestAmerica Savannah
Job No.: 680-94506-1
SDG ID.: 680-94506-1
Matrix: Solid
Date Sampled: 09/19/2013 14:00
Reporting Basis: WET
Date Received: 09/24/2013 09:19

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	0.20	0.20	0.20	mg/L	U		1	6010C
7440-39-3	Barium	1.0	1.0	1.0	mg/L	U		1	6010C
7440-43-9	Cadmium	0.10	0.10	0.10	mg/L	U		1	6010C
7440-47-3	Chromium	0.20	0.20	0.20	mg/L	U		1	6010C
7439-92-1	Lead	0.20	0.20	0.20	mg/L	U		1	6010C
7782-49-2	Selenium	0.50	0.50	0.50	mg/L	U		1	6010C
7440-22-4	Silver	0.10	0.10	0.10	mg/L	U		1	6010C

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - TCLP

Client Sample ID: HP0037B-HA0_1ft
Lab Sample ID: 680-94506-14
Lab Name: TestAmerica Savannah
Job No.: 680-94506-1
SDG ID.: 680-94506-1
Matrix: Solid
Date Sampled: 09/19/2013 15:05
Reporting Basis: WET
Date Received: 09/24/2013 09:19

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	0.20	0.20	0.20	mg/L	U		1	6010C
7440-39-3	Barium	1.0	1.0	1.0	mg/L	U		1	6010C
7440-43-9	Cadmium	0.10	0.10	0.10	mg/L	U		1	6010C
7440-47-3	Chromium	0.20	0.20	0.20	mg/L	U		1	6010C
7439-92-1	Lead	0.20	0.20	0.20	mg/L	U		1	6010C
7782-49-2	Selenium	0.50	0.50	0.50	mg/L	U		1	6010C
7440-22-4	Silver	0.10	0.10	0.10	mg/L	U		1	6010C

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - TCLP

Client Sample ID: CV023B-HA0_1ft
Lab Sample ID: 680-94506-15
Lab Name: TestAmerica Savannah
Job No.: 680-94506-1
SDG ID.: 680-94506-1
Matrix: Solid
Date Sampled: 09/20/2013 08:55
Reporting Basis: WET
Date Received: 09/24/2013 09:19

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	0.20	0.20	0.20	mg/L	U		1	6010C
7440-39-3	Barium	1.4	1.0	1.0	mg/L			1	6010C
7440-43-9	Cadmium	0.10	0.10	0.10	mg/L	U		1	6010C
7440-47-3	Chromium	0.20	0.20	0.20	mg/L	U		1	6010C
7439-92-1	Lead	0.20	0.20	0.20	mg/L	U		1	6010C
7782-49-2	Selenium	0.50	0.50	0.50	mg/L	U		1	6010C
7440-22-4	Silver	0.10	0.10	0.10	mg/L	U		1	6010C

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - TCLP

Client Sample ID: FM0139A-GP0_1ft
Lab Sample ID: 680-94506-16
Lab Name: TestAmerica Savannah
Job No.: 680-94506-1
SDG ID.: 680-94506-1
Matrix: Solid
Date Sampled: 09/19/2013 12:05
Reporting Basis: WET
Date Received: 09/24/2013 09:19

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	0.20	0.20	0.20	mg/L	U		1	6010C
7440-39-3	Barium	1.0	1.0	1.0	mg/L	U		1	6010C
7440-43-9	Cadmium	0.10	0.10	0.10	mg/L	U		1	6010C
7440-47-3	Chromium	0.20	0.20	0.20	mg/L	U		1	6010C
7439-92-1	Lead	0.20	0.20	0.20	mg/L	U		1	6010C
7782-49-2	Selenium	0.50	0.50	0.50	mg/L	U		1	6010C
7440-22-4	Silver	0.10	0.10	0.10	mg/L	U		1	6010C

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - TCLP

Client Sample ID: CV0003A-HA0_1ft
Lab Sample ID: 680-94506-17
Lab Name: TestAmerica Savannah
Job No.: 680-94506-1
SDG ID.: 680-94506-1
Matrix: Solid
Date Sampled: 09/19/2013 15:55
Reporting Basis: WET
Date Received: 09/24/2013 09:19

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	0.20	0.20	0.20	mg/L	U		1	6010C
7440-39-3	Barium	1.0	1.0	1.0	mg/L	U		1	6010C
7440-43-9	Cadmium	0.10	0.10	0.10	mg/L	U		1	6010C
7440-47-3	Chromium	0.20	0.20	0.20	mg/L	U		1	6010C
7439-92-1	Lead	0.20	0.20	0.20	mg/L	U		1	6010C
7782-49-2	Selenium	0.50	0.50	0.50	mg/L	U		1	6010C
7440-22-4	Silver	0.10	0.10	0.10	mg/L	U		1	6010C

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - TCLP

Client Sample ID: CV0511AB-HA0_1ft
Lab Sample ID: 680-94506-18
Lab Name: TestAmerica Savannah
Job No.: 680-94506-1
SDG ID.: 680-94506-1
Matrix: Solid
Date Sampled: 09/20/2013 08:00
Reporting Basis: WET
Date Received: 09/24/2013 09:19

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	0.20	0.20	0.20	mg/L	U		1	6010C
7440-39-3	Barium	1.0	1.0	1.0	mg/L	U		1	6010C
7440-43-9	Cadmium	0.10	0.10	0.10	mg/L	U		1	6010C
7440-47-3	Chromium	0.20	0.20	0.20	mg/L	U		1	6010C
7439-92-1	Lead	0.20	0.20	0.20	mg/L	U		1	6010C
7782-49-2	Selenium	0.50	0.50	0.50	mg/L	U		1	6010C
7440-22-4	Silver	0.10	0.10	0.10	mg/L	U		1	6010C

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Savannah Job No.: 680-94506-1

SDG No.: 680-94506-1

ICV Source: P_ICV_wk_00217 Concentration Units: ug/L

CCV Source: P_CCV_wk_00114

Analyte	ICV 680-295566/6 09/25/2013 11:05				CCV 680-295566/102 09/25/2013 19:09				CCV 680-295566/114 09/25/2013 20:04			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Arsenic	1000		1000	100	498		500	100	487		500	97
Barium	1030		1000	103	5030		5000	101	4930		5000	99
Cadmium	1010		1000	101	511		500	102	501		500	100
Chromium	1030		1000	103	5190		5000	104	5130		5000	103
Lead	1020		1000	102	512		500	102	501		500	100
Selenium	994		1000	99	5190		5000	104	5060		5000	101
Silver	986		1000	99	497		500	99	492		500	98

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Savannah Job No.: 680-94506-1

SDG No.: 680-94506-1

ICV Source: P_ICV_wk_00217 Concentration Units: ug/L

CCV Source: P_CCV_wk_00114

Analyte	CCV 680-295566/126 09/25/2013 20:59											
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Arsenic	493		500	99								
Barium	4880		5000	98								
Cadmium	495		500	99								
Chromium	5060		5000	101								
Lead	496		500	99								
Selenium	5010		5000	100								
Silver	485		500	97								

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Savannah Job No.: 680-94506-1

SDG No.: 680-94506-1

ICV Source: P_ICV_wk_00217 Concentration Units: ug/L

CCV Source: P_CCV_wk_00114

Analyte	ICV 680-296235/4 09/30/2013 10:50				CCV 680-296235/71 09/30/2013 16:10				CCV 680-296235/83 09/30/2013 17:05			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Arsenic	994		1000	99	494		500	99	482		500	96
Barium	1030		1000	103	5050		5000	101	5000		5000	100
Cadmium	1010		1000	101	498		500	100	495		500	99
Chromium	1030		1000	103	5000		5000	100	5040		5000	101
Lead	1020		1000	102	509		500	102	501		500	100
Selenium	1000		1000	100	5320		5000	106	5110		5000	102
Silver	985		1000	99	485		500	97	487		500	97

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Savannah Job No.: 680-94506-1

SDG No.: 680-94506-1

ICV Source: P_ICV_wk_00217 Concentration Units: ug/L

CCV Source: P_CCV_wk_00114

Analyte	CCV 680-296235/95 09/30/2013 18:04				CCV 680-296235/107 09/30/2013 18:59				CCV 680-296235/119 09/30/2013 19:54			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Arsenic	482		500	96	478		500	96	483		500	97
Barium	4970		5000	99	4990		5000	100	4980		5000	100
Cadmium	490		500	98	495		500	99	494		500	99
Chromium	4950		5000	99	5000		5000	100	4990		5000	100
Lead	499		500	100	502		500	100	497		500	99
Selenium	5150		5000	103	5150		5000	103	5140		5000	103
Silver	482		500	96	484		500	97	483		500	97

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2B-IN
CRQL CHECK STANDARD
METALS

Lab Name: TestAmerica Savannah Job No.: 680-94506-1

SDG No.: 680-94506-1

Method: 6010C Instrument ID: ICPE

Lab Sample ID: CRI 680-295566/8 Concentration Units: ug/L

CRQL Check Standard Source: P_CRI_00025

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Arsenic	20.0	25.5		128	50-150
Barium	10.0	11.1		111	50-150
Cadmium	5.00	5.25		105	50-150
Chromium	10.0	10.5		105	50-150
Lead	10.0	11.7		117	50-150
Selenium	20.0	20.4	J	102	50-150
Silver	10.0	10.3		103	50-150

Lab Sample ID: CRI 680-295566/185 Concentration Units: ug/L

CRQL Check Standard Source: P_CRI_00025

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Arsenic	20.0	23.9		120	50-150
Barium	10.0	10.4		104	50-150
Cadmium	5.00	5.10		102	50-150
Chromium	10.0	10.5		105	50-150
Lead	10.0	10.4		104	50-150
Selenium	20.0	17.6	J	88	50-150
Silver	10.0	10.0		100	50-150

Lab Sample ID: CRI 680-296235/6 Concentration Units: ug/L

CRQL Check Standard Source: P_CRI_00026

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Arsenic	20.0	24.5		122	50-150
Barium	10.0	11.1		111	50-150
Cadmium	5.00	5.30		106	50-150
Chromium	10.0	10.9		109	50-150
Lead	10.0	10	U	99	50-150
Selenium	20.0	22.1		111	50-150
Silver	10.0	10.3		103	50-150

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IIB-IN

2B-IN
CRQL CHECK STANDARD
METALS

Lab Name: TestAmerica Savannah Job No.: 680-94506-1

SDG No.: 680-94506-1

Method: 6010C Instrument ID: ICPE

Lab Sample ID: CRI 680-296235/234 Concentration Units: ug/L

CRQL Check Standard Source: P_CRI_00026

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Arsenic	20.0	23.1		116	50-150
Barium	10.0	10.1		101	50-150
Cadmium	5.00	5.0	U	100	50-150
Chromium	10.0	10.6		106	50-150
Lead	10.0	10	U	98	50-150
Selenium	20.0	23.3		117	50-150
Silver	10.0	10	U	98	50-150

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IIB-IN

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Savannah Job No.: 680-94506-1

SDG No.: 680-94506-1

Concentration Units: ug/L

Analyte	RL	ICBIS 680-295566/7 09/25/2013 11:09		CCB 680-295566/103 09/25/2013 19:13		CCB 680-295566/115 09/25/2013 20:08		CCB 680-295566/127 09/25/2013 21:03	
		Found	C	Found	C	Found	C	Found	C
Arsenic	20	20	U	20	U	20	U	20	U
Barium	10	10	U	10	U	10	U	10	U
Cadmium	5.0	5.0	U	5.0	U	5.0	U	5.0	U
Chromium	10	10	U	10	U	10	U	10	U
Lead	10	10	U	10	U	10	U	10	U
Selenium	25	25	U	25	U	25	U	25	U
Silver	10	10	U	10	U	10	U	10	U

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Savannah Job No.: 680-94506-1

SDG No.: 680-94506-1

Concentration Units: ug/L

Analyte	RL	ICBIS 680-296235/5 09/30/2013 10:54		CCB 680-296235/72 09/30/2013 16:15		CCB 680-296235/84 09/30/2013 17:10		CCB 680-296235/96 09/30/2013 18:08	
		Found	C	Found	C	Found	C	Found	C
Arsenic	20	20	U	20	U	20	U	20	U
Barium	10	10	U	10	U	10	U	10	U
Cadmium	5.0	5.0	U	5.0	U	5.0	U	5.0	U
Chromium	10	10	U	10	U	10	U	10	U
Lead	10	10	U	10	U	10	U	10	U
Selenium	20	20	U	20	U	20	U	20	U
Silver	10	10	U	10	U	10	U	10	U

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Savannah Job No.: 680-94506-1

SDG No.: 680-94506-1

Concentration Units: ug/L

Analyte	RL	CCB 680-296235/108 09/30/2013 19:04		CCB 680-296235/120 09/30/2013 19:59					
		Found	C	Found	C	Found	C	Found	C
Arsenic	20	20	U	20	U				
Barium	10	10	U	10	U				
Cadmium	5.0	5.0	U	5.0	U				
Chromium	10	10	U	10	U				
Lead	10	10	U	10	U				
Selenium	20	20	U	20	U				
Silver	10	10	U	10	U				

Italicized analytes were not requested for this sequence.

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Savannah Job No.: 680-94506-1

SDG No.: 680-94506-1

Concentration Units: mg/Kg Lab Sample ID: MB 680-295281/1-A

Instrument Code: ICPE Batch No.: 295566

CAS No.	Analyte	Concentration	C	Q	Method
7440-38-2	Arsenic	2.0	U		6010C
7440-39-3	Barium	1.0	U		6010C
7440-43-9	Cadmium	0.50	U		6010C
7440-47-3	Chromium	1.0	U		6010C
7439-92-1	Lead	1.0	U		6010C
7782-49-2	Selenium	2.5	U		6010C
7440-22-4	Silver	1.0	U		6010C

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Savannah Job No.: 680-94506-1

SDG No.: 680-94506-1

Concentration Units: mg/L Lab Sample ID: MB 680-296074/1-A

Instrument Code: ICPE Batch No.: 296235

CAS No.	Analyte	Concentration	C	Q	Method
7440-38-2	Arsenic	0.020	U		6010C
7440-39-3	Barium	0.10	U		6010C
7440-43-9	Cadmium	0.010	U		6010C
7440-47-3	Chromium	0.020	U		6010C
7439-92-1	Lead	0.020	U		6010C
7782-49-2	Selenium	0.050	U		6010C
7440-22-4	Silver	0.010	U		6010C

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Savannah Job No.: 680-94506-1

SDG No.: 680-94506-1

Concentration Units: mg/L Lab Sample ID: MB 680-296085/1-A

Instrument Code: ICPE Batch No.: 296235

CAS No.	Analyte	Concentration	C	Q	Method
7440-38-2	Arsenic	0.020	U		6010C
7440-39-3	Barium	0.10	U		6010C
7440-43-9	Cadmium	0.010	U		6010C
7440-47-3	Chromium	0.020	U		6010C
7439-92-1	Lead	0.020	U		6010C
7782-49-2	Selenium	0.050	U		6010C
7440-22-4	Silver	0.010	U		6010C

3-IN
METHOD BLANK
METALS - TCLP

Lab Name: TestAmerica Savannah Job No.: 680-94506-1

SDG No.: 680-94506-1

Concentration Units: mg/L Lab Sample ID: LB 680-295691/21-C

Instrument Code: ICPE Batch No.: 296235

CAS No.	Analyte	Concentration	C	Q	Method
7440-38-2	Arsenic	0.20	U		6010C
7440-39-3	Barium	1.0	U		6010C
7440-43-9	Cadmium	0.10	U		6010C
7440-47-3	Chromium	0.20	U		6010C
7439-92-1	Lead	0.20	U		6010C
7782-49-2	Selenium	0.50	U		6010C
7440-22-4	Silver	0.10	U		6010C

3-IN
METHOD BLANK
METALS - TCLP

Lab Name: TestAmerica Savannah Job No.: 680-94506-1

SDG No.: 680-94506-1

Concentration Units: mg/L Lab Sample ID: LB 680-295919/5-B

Instrument Code: ICPE Batch No.: 296235

CAS No.	Analyte	Concentration	C	Q	Method
7440-38-2	Arsenic	0.20	U		6010C
7440-39-3	Barium	1.0	U		6010C
7440-43-9	Cadmium	0.10	U		6010C
7440-47-3	Chromium	0.20	U		6010C
7439-92-1	Lead	0.20	U		6010C
7782-49-2	Selenium	0.50	U		6010C
7440-22-4	Silver	0.10	U		6010C

3-IN
METHOD BLANK
METALS - TCLP

Lab Name: TestAmerica Savannah Job No.: 680-94506-1

SDG No.: 680-94506-1

Concentration Units: mg/L Lab Sample ID: LB 680-295884/7-C

Instrument Code: ICPE Batch No.: 296235

CAS No.	Analyte	Concentration	C	Q	Method
7440-38-2	Arsenic	0.20	U		6010C
7440-39-3	Barium	1.0	U		6010C
7440-43-9	Cadmium	0.10	U		6010C
7440-47-3	Chromium	0.20	U		6010C
7439-92-1	Lead	0.20	U		6010C
7782-49-2	Selenium	0.50	U		6010C
7440-22-4	Silver	0.10	U		6010C

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Savannah Job No.: 680-94506-1

SDG No.: 680-94506-1

Lab Sample ID: ICSA 680-295566/10 Instrument ID: ICPE

Lab File ID: E09252013FINAL.csv ICS Source: P_ICSA_wk_00033

Concentration Units: ug/L

Analyte	True Solution A	Found Solution A	Found Percent Recovery
Arsenic		**-1.79**	
Barium		**-12.6**	
Cadmium		**0.977**	
Chromium		**0.655**	
Lead		**2.42**	
Selenium		**-12.0**	
Silver		**0.131**	
Aluminum	*500000*	*519254*	*104*
Antimony		*7.32*	
Beryllium		*-0.0848*	
Boron		*7.12*	
Calcium	*500000*	*479837*	*96*
Cobalt		*0.771*	
Copper		*0.813*	
Iron	*200000*	*182120*	*91*
Magnesium	*500000*	*507479*	*101*
Manganese		*0.345*	
Molybdenum		*1.97*	
Nickel		*8.32*	
Potassium		*-1.57*	
Sodium		*-300*	
Strontium		*8.87*	
Thallium		*-9.74*	
Tin		*-2.27*	
Titanium		*1.41*	
Vanadium		*4.21*	
Zinc		*12.9*	

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IVA-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Savannah Job No.: 680-94506-1

SDG No.: 680-94506-1

Lab Sample ID: ICSAB 680-295566/11 Instrument ID: ICPE

Lab File ID: E09252013FINAL.csv ICS Source: P_ICSAB_wk_00046

Concentration Units: ug/L

Analyte	True Solution AB	Found Solution AB	Found Percent Recovery
Arsenic	**100**	**101**	**101**
Barium	**500**	**494**	**99**
Cadmium	**1000**	**928**	**93**
Chromium	**500**	**495**	**99**
Lead	**50.0**	**49.8**	**100**
Selenium	**50.0**	**43.3**	**87**
Silver	**200**	**217**	**108**
Aluminum	*500000*	*521203*	*104*
Antimony	*600*	*603*	*100*
Beryllium	*500*	*473*	*95*
Boron		*6.36*	
Calcium	*500000*	*483550*	*97*
Cobalt	*500*	*472*	*94*
Copper	*500*	*556*	*111*
Iron	*200000*	*182818*	*91*
Magnesium	*500000*	*508534*	*102*
Manganese	*500*	*499*	*100*
Molybdenum	*1000*	*1138*	*114*
Nickel	*1000*	*920*	*92*
Potassium		*-0.269*	
Sodium		*-583*	
Strontium		*6.47*	
Thallium	*100*	*81.3*	*81*
Tin	*1000*	*1061*	*106*
Titanium		*2.09*	
Vanadium	*500*	*487*	*97*
Zinc	*1000*	*930*	*93*

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IVA-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Savannah Job No.: 680-94506-1

SDG No.: 680-94506-1

Lab Sample ID: ICSA 680-296235/7 Instrument ID: ICPE

Lab File ID: E09302013.csv ICS Source: P_ICSA_wk_00033

Concentration Units: ug/L

Analyte	True Solution A	Found Solution A	Percent Recovery
Arsenic		**-3.82**	
Barium		**-4.89**	
Cadmium		**1.77**	
Chromium		**0.431**	
Lead		**1.79**	
Selenium		**-0.503**	
Silver		**0.0425**	
Aluminum	*500000*	*535063*	*107*
Antimony		*3.99*	
Beryllium		*-0.102*	
Boron		*8.74*	
Calcium	*500000*	*490627*	*98*
Cobalt		*1.08*	
Copper		*0.524*	
Iron	*200000*	*182664*	*91*
Magnesium	*500000*	*509261*	*102*
Manganese		*0.702*	
Molybdenum		*1.25*	
Nickel		*7.01*	
Potassium		*2.48*	
Sodium		*-553*	
Strontium		*6.33*	
Thallium		*-7.12*	
Tin		*-2.54*	
Titanium		*1.79*	
Vanadium		*3.87*	
Zinc		*13.2*	

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IVA-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Savannah Job No.: 680-94506-1

SDG No.: 680-94506-1

Lab Sample ID: ICSAB 680-296235/8 Instrument ID: ICPE

Lab File ID: E09302013.csv ICS Source: P_ICSAB_wk_00046

Concentration Units: ug/L

Analyte	True Solution AB	Found Solution AB	Found Percent Recovery
Arsenic	**100**	**103**	**103**
Barium	**500**	**516**	**103**
Cadmium	**1000**	**953**	**95**
Chromium	**500**	**506**	**101**
Lead	**50.0**	**49.6**	**99**
Selenium	**50.0**	**49.9**	**100**
Silver	**200**	**221**	**110**
Aluminum	*500000*	*535765*	*107*
Antimony	*600*	*614*	*102*
Beryllium	*500*	*485*	*97*
Boron		*9.78*	
Calcium	*500000*	*487989*	*98*
Cobalt	*500*	*476*	*95*
Copper	*500*	*569*	*114*
Iron	*200000*	*187068*	*94*
Magnesium	*500000*	*521352*	*104*
Manganese	*500*	*512*	*102*
Molybdenum	*1000*	*1172*	*117*
Nickel	*1000*	*947*	*95*
Potassium		*4.62*	
Sodium		*-290*	
Strontium		*4.35*	
Thallium	*100*	*87.6*	*88*
Tin	*1000*	*1090*	*109*
Titanium		*2.36*	
Vanadium	*500*	*498*	*100*
Zinc	*1000*	*954*	*95*

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IVA-IN

5A-IN
MATRIX SPIKE SAMPLE RECOVERY
METALS

Client ID: WCRW-GP01-0_6in MS
Lab ID: 680-94506-1 MS
Lab Name: TestAmerica Savannah
Job No.: 680-94506-1
SDG No.: 680-94506-1
Matrix: Solid
Concentration Units: mg/Kg
% Solids: 94.4

Analyte	SSR	C	Sample Result (SR)	C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Arsenic	11.2		4.0		9.81	74	75-125	F	6010C
Barium	261		290		9.81	-261	75-125	4	6010C
Cadmium	3.01		0.49	U	4.90	61	75-125	F	6010C
Chromium	20.4		15		9.81	50	75-125	F	6010C
Lead	7.45		4.3		4.90	64	75-125	F	6010C
Selenium	10.5		3.4		9.81	72	75-125	F	6010C
Silver	4.18		0.99	U	4.90	85	75-125		6010C

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results.
Note - Results and Reporting Limits have been adjusted for dry weight.

FORM VA - IN

5A-IN
MATRIX SPIKE SAMPLE RECOVERY
METALS - TCLP

Client ID: Lab ID: 680-94461-A-2-H MS

Lab Name: TestAmerica Savannah Job No.: 680-94506-1

SDG No.: 680-94506-1

Matrix: Solid Concentration Units: mg/L

% Solids:

Analyte	SSR	C	Sample Result (SR)	C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Arsenic	0.974		0.20	U	1.00	97	75-125		6010C
Barium	1.05		1.0	U	1.00	105	75-125		6010C
Cadmium	0.957		0.10	U	1.00	96	75-125		6010C
Chromium	0.974		0.20	U	1.00	97	75-125		6010C
Lead	1.13		0.21		1.00	92	75-125		6010C
Selenium	1.02		0.50	U	1.00	102	75-125		6010C
Silver	0.935		0.10	U	1.00	94	75-125		6010C

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VA - IN

5A-IN
MATRIX SPIKE SAMPLE RECOVERY
METALS - TCLP

Client ID: _____ Lab ID: 680-94579-A-1-C MS

Lab Name: TestAmerica Savannah Job No.: 680-94506-1

SDG No.: 680-94506-1

Matrix: Solid Concentration Units: mg/L

% Solids: _____

Analyte	SSR	C	Sample Result (SR)	C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Arsenic	1.04		0.20	U	1.00	104	75-125		6010C
Barium	1.05		1.0	U	1.00	105	75-125		6010C
Cadmium	0.977		0.10	U	1.00	98	75-125		6010C
Chromium	0.986		0.20	U	1.00	99	75-125		6010C
Lead	0.960		0.20	U	1.00	96	75-125		6010C
Selenium	1.09		0.50	U	1.00	109	75-125		6010C
Silver	0.951		0.10	U	1.00	95	75-125		6010C

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VA - IN

5A-IN
MATRIX SPIKE DUPLICATE SAMPLE RECOVERY
METALS

Client ID: WCRW-GP01-0_6in MSD
Lab ID: 680-94506-1 MSD
Lab Name: TestAmerica Savannah
Job No.: 680-94506-1
SDG No.: 680-94506-1
Matrix: Solid
Concentration Units: mg/Kg
% Solids: 94.4

Analyte	(SDR)	C	Spike Added (SA)	%R	Control Limit %R	RPD	RPD Limit	Q	Method
Arsenic	10.5		9.90	66	75-125	7	20	F	6010C
Barium	250		9.90	-378	75-125	5	20	4	6010C
Cadmium	2.84		4.95	57	75-125	6	20	F	6010C
Chromium	18.3		9.90	29	75-125	11	20	F	6010C
Lead	7.60		4.95	67	75-125	2	20	F	6010C
Selenium	9.55		9.90	62	75-125	10	20	F	6010C
Silver	3.88		4.95	78	75-125	7	20		6010C

SDR = Sample Duplicate Result

Calculations are performed before rounding to avoid round-off errors in calculated results.
Note - Results and Reporting Limits have been adjusted for dry weight.

FORM VD - IN

5A-IN
MATRIX SPIKE DUPLICATE SAMPLE RECOVERY
METALS - TCLP

Client ID: _____ Lab ID: 680-94461-A-2-I MSD

Lab Name: TestAmerica Savannah Job No.: 680-94506-1

SDG No.: 680-94506-1

Matrix: Solid Concentration Units: mg/L

% Solids: _____

Analyte	(SDR)	C	Spike Added (SA)	%R	Control Limit %R	RPD	RPD Limit	Q	Method
Arsenic	0.896		1.00	90	75-125	8	20		6010C
Barium	1.0	U	1.00	0	75-125	NC	20	F	6010C
Cadmium	0.893		1.00	89	75-125	7	20		6010C
Chromium	0.905		1.00	91	75-125	7	20		6010C
Lead	1.08		1.00	87	75-125	5	20		6010C
Selenium	0.909		1.00	91	75-125	11	20		6010C
Silver	0.853		1.00	85	75-125	9	20		6010C

SDR = Sample Duplicate Result

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VD - IN

5A-IN
MATRIX SPIKE DUPLICATE SAMPLE RECOVERY
METALS - TCLP

Client ID: Lab ID: 680-94579-A-1-D MSD

Lab Name: TestAmerica Savannah Job No.: 680-94506-1

SDG No.: 680-94506-1

Matrix: Solid Concentration Units: mg/L

% Solids:

Analyte	(SDR)	C	Spike Added (SA)	%R	Control Limit %R	RPD	RPD Limit	Q	Method
Arsenic	0.902		1.00	90	75-125	14	20		6010C
Barium	1.0	U	1.00	0	75-125	NC	20	F	6010C
Cadmium	0.877		1.00	88	75-125	11	20		6010C
Chromium	0.892		1.00	89	75-125	10	20		6010C
Lead	0.862		1.00	86	75-125	11	20		6010C
Selenium	0.936		1.00	94	75-125	15	20		6010C
Silver	0.855		1.00	86	75-125	11	20		6010C

SDR = Sample Duplicate Result

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VD - IN

5B-IN
POST DIGESTION SPIKE SAMPLE RECOVERY
METALS

Client ID: WCRW-GP01-0_6in PDS | Lab ID: 680-94506-1 PDS

Lab Name: TestAmerica Savannah | Job No.: 680-94506-1

SDG No.: 680-94506-1

Matrix: Solid | Concentration Units: mg/Kg

Analyte	SSR	C	Sample Result (SR)	C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Arsenic	21.6		4.0		19.8	89	75-125		6010C
Barium	295		290		19.8	NC	75-125		6010C
Cadmium	3.84		0.49	U	4.95	78	75-125		6010C
Chromium	30.7		15		19.8	77	75-125		6010C
Lead	18.9		4.3		19.8	74	75-125	W	6010C
Selenium	21.0		3.4		19.8	89	75-125		6010C
Silver	4.62		0.99	U	4.95	93	75-125		6010C

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results.
Note - Results and Reporting Limits have been adjusted for dry weight.

FORM VB - IN

5B-IN
POST DIGESTION SPIKE SAMPLE RECOVERY
METALS - TCLP

Client ID: Lab ID: 680-94461-A-2-G PDS

Lab Name: TestAmerica Savannah Job No.: 680-94506-1

SDG No.: 680-94506-1

Matrix: Solid Concentration Units: mg/L

Analyte	SSR	C	Sample Result (SR)	C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Arsenic	1.83		0.20	U	2.00	91	75-125		6010C
Barium	2.03		1.0	U	2.00	101	75-125		6010C
Cadmium	0.469		0.10	U	0.500	94	75-125		6010C
Chromium	1.89		0.20	U	2.00	94	75-125		6010C
Lead	2.06		0.21		2.00	92	75-125		6010C
Selenium	1.90		0.50	U	2.00	95	75-125		6010C
Silver	0.299		0.10	U	0.500	60	75-125	W	6010C

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VB - IN

5B-IN
POST DIGESTION SPIKE SAMPLE RECOVERY
METALS - TCLP

Client ID: Lab ID: 680-94579-A-1-B PDS

Lab Name: TestAmerica Savannah Job No.: 680-94506-1

SDG No.: 680-94506-1

Matrix: Solid Concentration Units: mg/L

Analyte	SSR	C	Sample Result (SR)	C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Arsenic	1.92		0.20	U	2.00	96	75-125		6010C
Barium	2.02		1.0	U	2.00	101	75-125		6010C
Cadmium	0.473		0.10	U	0.500	95	75-125		6010C
Chromium	1.91		0.20	U	2.00	95	75-125		6010C
Lead	1.87		0.20	U	2.00	94	75-125		6010C
Selenium	2.03		0.50	U	2.00	102	75-125		6010C
Silver	0.464		0.10	U	0.500	93	75-125		6010C

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VB - IN

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 680-295281/2-A

Lab Name: TestAmerica Savannah Job No.: 680-94506-1

Sample Matrix: Solid LCS Source: MS_LCS1_WK_00006

Analyte	Solid(mg/Kg)							
	True	Found	C	%R	Limits		Q	Method
Arsenic	10.0	9.69		97	75	125		6010C
Barium	10.0	9.77		98	75	125		6010C
Cadmium	5.00	4.89		98	75	125		6010C
Chromium	10.0	10.2		102	75	125		6010C
Lead	5.00	4.94		99	75	125		6010C
Selenium	10.0	9.63		96	75	125		6010C
Silver	5.00	5.60		112	75	125		6010C

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA - IN

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 680-296074/2-A

Lab Name: TestAmerica Savannah Job No.: 680-94506-1

Sample Matrix: Water LCS Source: MS_LCS1_WK_00006

Analyte	Water(mg/L)							
	True	Found	C	%R	Limits		Q	Method
Arsenic	2.00	2.12		106	75	125		6010C
Barium	2.00	2.13		106	75	125		6010C
Cadmium	1.00	1.04		104	75	125		6010C
Chromium	2.00	2.13		106	75	125		6010C
Lead	1.00	1.05		105	75	125		6010C
Selenium	2.00	2.20		110	75	125		6010C
Silver	1.00	1.20		120	75	125		6010C

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA - IN

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 680-296085/2-A

Lab Name: TestAmerica Savannah Job No.: 680-94506-1

Sample Matrix: Water LCS Source: MS_LCS1_WK_00006

Analyte	Water(mg/L)							
	True	Found	C	%R	Limits		Q	Method
Arsenic	2.00	2.14		107	75	125		6010C
Barium	2.00	2.15		107	75	125		6010C
Cadmium	1.00	1.04		104	75	125		6010C
Chromium	2.00	2.15		107	75	125		6010C
Lead	1.00	1.05		105	75	125		6010C
Selenium	2.00	2.11		106	75	125		6010C
Silver	1.00	1.20		120	75	125		6010C

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA - IN

8-IN
ICP-AES AND ICP-MS SERIAL DILUTIONS
METALS

Lab ID: 680-94506-1

SDG No: 680-94506-1

Lab Name: TestAmerica Savannah Job No: 680-94506-1

Matrix: Solid Concentration Units: mg/Kg

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	Method
Arsenic	4.0		6.00	J	NC		6010C
Barium	290		341		19	V	6010C
Cadmium	0.49	U	2.5	U	NC		6010C
Chromium	15		18.6		NC		6010C
Lead	4.3		5.65		NC		6010C
Selenium	3.4		12	U	NC		6010C
Silver	0.99	U	4.9	U	NC		6010C

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIII-IN

8-IN
ICP-AES AND ICP-MS SERIAL DILUTIONS
METALS - TCLP

Lab ID: 680-94461-A-2-G SD ^5

SDG No: 680-94506-1

Lab Name: TestAmerica Savannah Job No: 680-94506-1

Matrix: Solid Concentration Units: mg/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	Method
Arsenic	0.20	U	1.0	U	NC		6010C
Barium	1.0	U	5.0	U	NC		6010C
Cadmium	0.10	U	0.50	U	NC		6010C
Chromium	0.20	U	1.0	U	NC		6010C
Lead	0.21		1.0	U	NC		6010C
Selenium	0.50	U	2.5	U	NC		6010C
Silver	0.10	U	0.50	U	NC		6010C

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIII-IN

8-IN
ICP-AES AND ICP-MS SERIAL DILUTIONS
METALS - TCLP

Lab ID: 680-94579-A-1-B SD ^5

SDG No: 680-94506-1

Lab Name: TestAmerica Savannah Job No: 680-94506-1

Matrix: Solid Concentration Units: mg/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	Method
Arsenic	0.20	U	1.0	U	NC		6010C
Barium	1.0	U	5.0	U	NC		6010C
Cadmium	0.10	U	0.50	U	NC		6010C
Chromium	0.20	U	1.0	U	NC		6010C
Lead	0.20	U	1.0	U	NC		6010C
Selenium	0.50	U	2.5	U	NC		6010C
Silver	0.10	U	0.50	U	NC		6010C

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIII-IN

9-IN
DETECTION LIMITS
METALS

Lab Name: TestAmerica Savannah Job Number: 680-94506-1

SDG Number: 680-94506-1

Matrix: Solid Instrument ID: ICPE

Method: 6010C MDL Date: 06/02/2009 00:00

Prep Method: 3050B

Analyte	Wavelength/ Mass	RL (mg/Kg)	MDL (mg/Kg)
Arsenic		2	0.59
Barium		1	0.3
Cadmium		0.5	0.1
Chromium		1	0.5
Lead		1	0.53
Selenium		2.5	1
Silver		1	0.096

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS

Lab Name: TestAmerica Savannah Job Number: 680-94506-1

SDG Number: 680-94506-1

Matrix: Solid Instrument ID: ICPE

Method: 6010C XMDL Date: 06/02/2009 00:00

Analyte	Wavelength/ Mass	XRL (ug/L)	XMDL (ug/L)
Arsenic		20	5.9
Barium		10	3
Cadmium		5	1
Chromium		10	5
Lead		10	5.3
Selenium		25	10
Silver		10	0.96

9-IN
DETECTION LIMITS
METALS - TCLP

Lab Name: TestAmerica Savannah Job Number: 680-94506-1

SDG Number: 680-94506-1

Matrix: Solid Instrument ID: ICPE

Method: 6010C MDL Date: 06/04/2009 00:00

Prep Method: 3010A

Leach Method: 1311

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Arsenic		0.2	0.2
Barium		1	1
Cadmium		0.1	0.1
Chromium		0.2	0.2
Lead		0.2	0.2
Selenium		0.5	0.5
Silver		0.1	0.1

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS - TCLP

Lab Name: TestAmerica Savannah Job Number: 680-94506-1

SDG Number: 680-94506-1

Matrix: Solid Instrument ID: ICPE

Method: 6010C XMDL Date: 06/04/2009 00:00

Analyte	Wavelength/ Mass	XRL (ug/L)	XMDL (ug/L)
Arsenic		20	20
Barium		10	10
Cadmium		5	5
Chromium		10	10
Lead		10	10
Selenium		20	20
Silver		10	10

10-IN
ICP-AES INTERELEMENT CORRECTION FACTORS
METALS

Lab Name: TestAmerica Savannah Job Number: 680-94506-1

SDG No.: 680-94506-1

ICP-AES Instrument ID: ICPE Date: 05/23/2013

Analyte	Wave Length	Ag	Al	As	B	Ba	Be	Ca	Cd	Co	Cr	Cu	Fe	K	Mg
Aluminum	308.215									-0.007000					
Antimony	206.834						0.007900				0.008800		0.000023		
Arsenic	188.980		0.000016										-0.000016		
Barium	389.178												0.000062		0.000112
Beryllium	313.042														
Boron	249.678												-0.000141		
Cadmium	226.502												0.000078		
Calcium	370.602												-0.025390		
Chromium	267.716								-0.000200				0.000005		
Cobalt	228.615										0.000280		-0.000003		
Copper	324.754												0.000006		
Iron	271.441									0.075560	0.001160				
Lead	220.353		-0.000011							-0.000200			0.000043		
Magnesium	279.078		-0.000142										0.000087		
Manganese	257.610												0.000012		0.000035
Molybdenum	202.032												-0.000007		
Nickel	231.604									-0.000800			0.000008		
Potassium	766.491														
Selenium	196.026												0.000007		
Silver	328.068														
Sodium	330.237												-0.005902		
Strontium	216.596							0.000009					0.000084		
Thallium	190.794									0.002930			-0.000065		0.000016
Tin	189.925														
Titanium	334.941														
Vanadium	292.401										-0.001940				
Zinc	206.200										-0.002460		0.000007		

10-IN
ICP-AES INTERELEMENT CORRECTION FACTORS
METALS

Lab Name: TestAmerica Savannah Job Number: 680-94506-1

SDG No.: 680-94506-1

ICP-AES Instrument ID: ICPE Date: 05/23/2013

Analyte	Wave Length	Mn	Mo	Na	Ni	Pb	Sb	Se	Sn	Sr	Ti	Tl	V	Zn	
Aluminum	308.215		0.008600										-0.027780		
Antimony	206.834		-0.012600						0.000200						
Arsenic	188.980		-0.000430												
Barium	389.178		0.000218										0.000095		
Beryllium	313.042		-0.000082										-0.000019		
Boron	249.678														
Cadmium	226.502														
Calcium	370.602	0.008900									0.170000		0.003040		
Chromium	267.716	0.000090									0.000040		-0.000200		
Cobalt	228.615		-0.002400						-0.000060		0.001950				
Copper	324.754		0.000550										-0.000200		
Iron	271.441		0.000760										0.004220		
Lead	220.353	0.000130	-0.000800								-0.000325				
Magnesium	279.078	-0.007600													
Manganese	257.610														
Molybdenum	202.032												-0.000260		
Nickel	231.604														
Potassium	766.491														
Selenium	196.026	0.000500													
Silver	328.068	0.000061								-0.000600			0.000081		
Sodium	330.237										-0.070825			-0.285620	
Strontium	216.596		-0.001200		-0.001575										
Thallium	190.794	-0.000466	-0.000433										0.000500		
Tin	189.925														
Titanium	334.941														
Vanadium	292.401		-0.006130								0.000575				
Zinc	206.200														

X-IN

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Savannah Job No.: 680-94506-1

SDG No.: 680-94506-1

Prep Method: 3050B

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight (g)	Initial Volume	Final Volume (mL)
MB 680-295281/1-A	09/24/2013 15:40	295281	1.00		100
LCS 680-295281/2-A	09/24/2013 15:40	295281	1.00		100
680-94506-1	09/24/2013 15:40	295281	1.07		100
680-94506-1 MS	09/24/2013 15:40	295281	1.08		100
680-94506-1 MSD	09/24/2013 15:40	295281	1.07		100
680-94506-2	09/24/2013 15:40	295281	1.14		100
680-94506-3	09/24/2013 15:40	295281	1.07		100

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Savannah Job No.: 680-94506-1

SDG No.: 680-94506-1

Prep Method: 3010A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 680-296074/1-A	09/30/2013 09:27	296074		50	50
LCS 680-296074/2-A	09/30/2013 09:27	296074		5	50
LB 680-295691/21-C	09/30/2013 09:27	296074		5	50
680-94461-A-2-H MS	09/30/2013 09:27	296074		5	50
680-94461-A-2-I MSD	09/30/2013 09:27	296074		5	50
680-94506-4	09/30/2013 09:27	296074		5	50
680-94506-5	09/30/2013 09:27	296074		5	50
680-94506-6	09/30/2013 09:27	296074		5	50
680-94506-7	09/30/2013 09:27	296074		5	50
680-94506-8	09/30/2013 09:27	296074		5	50
680-94506-9	09/30/2013 09:27	296074		5	50
680-94506-10	09/30/2013 09:27	296074		5	50
680-94506-11	09/30/2013 09:27	296074		5	50
680-94506-12	09/30/2013 09:27	296074		5	50
680-94506-13	09/30/2013 09:27	296074		5	50
680-94506-14	09/30/2013 09:27	296074		5	50
680-94506-15	09/30/2013 09:27	296074		5	50
680-94506-16	09/30/2013 09:27	296074		5	50
680-94506-17	09/30/2013 09:27	296074		5	50

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Savannah Job No.: 680-94506-1

SDG No.: 680-94506-1

Prep Method: 3010A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 680-296085/1-A	09/30/2013 09:47	296085		50	50
LCS 680-296085/2-A	09/30/2013 09:47	296085		5	50
LB 680-295919/5-B	09/30/2013 09:47	296085		5	50
680-94579-A-1-C MS	09/30/2013 09:47	296085		5	50
680-94579-A-1-D MSD	09/30/2013 09:47	296085		5	50
LB 680-295884/7-C	09/30/2013 09:47	296085		5	50
680-94506-18	09/30/2013 09:47	296085		5	50

Lab Name: TestAmerica Savannah Job No.: 680-94506-1

SDG No.: 680-94506-1

Instrument ID: ICPE Method: 6010C

Start Date: 09/25/2013 10:38 End Date: 09/26/2013 01:40

Lab Sample ID	D/F	Type	Time	Analytes																			
				Ag	As	Ba	Cd	Cr	Pb	Se													
ZZZZZZ			10:38																				
ZZZZZZ			10:43																				
ZZZZZZ			10:48																				
ZZZZZZ			10:52																				
ZZZZZZ			10:57																				
ICV 680-295566/6	1		11:05	X	X	X	X	X	X	X													
ICBIS 680-295566/7	1		11:09	X	X	X	X	X	X	X													
CRI 680-295566/8	1		11:14	X	X	X	X	X	X	X													
ZZZZZZ			11:18																				
ICSA 680-295566/10	1		11:23	X	X	X	X	X	X	X													
ICSAB 680-295566/11	1		11:28	X	X	X	X	X	X	X													
ZZZZZZ			11:32																				
ZZZZZZ			11:37																				
ZZZZZZ			11:41																				
CCV 680-295566/15			11:54																				
CCB 680-295566/16			11:59																				
ZZZZZZ			12:08																				
ZZZZZZ			12:13																				
ZZZZZZ			12:17																				
ZZZZZZ			12:22																				
ZZZZZZ			12:26																				
ZZZZZZ			12:31																				
ZZZZZZ			12:36																				
ZZZZZZ			12:40																				
ZZZZZZ			12:45																				
ZZZZZZ			12:49																				
CCV 680-295566/27			12:54																				
CCB 680-295566/28			12:59																				
ZZZZZZ			13:03																				
CCV 680-295566/30			13:37																				
CCB 680-295566/31			13:42																				
ZZZZZZ			13:46																				
ZZZZZZ			13:51																				
ZZZZZZ			13:56																				
ZZZZZZ			14:00																				
ZZZZZZ			14:05																				
ZZZZZZ			14:09																				
ZZZZZZ			14:14																				
ZZZZZZ			14:18																				
ZZZZZZ			14:23																				
ZZZZZZ			14:28																				
CCV 680-295566/42			14:32																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Savannah Job No.: 680-94506-1

SDG No.: 680-94506-1

Instrument ID: ICPE Method: 6010C

Start Date: 09/25/2013 10:38 End Date: 09/26/2013 01:40

Lab Sample ID	D / F	Type	Time	Analytes																			
				Ag	As	Ba	Cd	Cr	Pb	Se													
CCB 680-295566/43			14:37																				
ZZZZZZ			14:41																				
ZZZZZZ			14:46																				
ZZZZZZ			14:51																				
ZZZZZZ			14:55																				
ZZZZZZ			15:00																				
ZZZZZZ			15:04																				
ZZZZZZ			15:09																				
ZZZZZZ			15:13																				
ZZZZZZ			15:18																				
ZZZZZZ			15:23																				
CCV 680-295566/54			15:27																				
CCB 680-295566/55			15:32																				
ZZZZZZ			15:36																				
ZZZZZZ			15:41																				
ZZZZZZ			15:46																				
ZZZZZZ			15:50																				
ZZZZZZ			15:55																				
ZZZZZZ			15:59																				
ZZZZZZ			16:04																				
ZZZZZZ			16:08																				
ZZZZZZ			16:13																				
ZZZZZZ			16:18																				
CCV 680-295566/66			16:23																				
CCB 680-295566/67			16:27																				
ZZZZZZ			16:32																				
ZZZZZZ			16:37																				
ZZZZZZ			16:41																				
ZZZZZZ			16:46																				
ZZZZZZ			16:50																				
ZZZZZZ			16:55																				
ZZZZZZ			17:00																				
ZZZZZZ			17:04																				
ZZZZZZ			17:09																				
ZZZZZZ			17:13																				
CCV 680-295566/78			17:18																				
CCB 680-295566/79			17:23																				
ZZZZZZ			17:27																				
ZZZZZZ			17:32																				
ZZZZZZ			17:36																				
ZZZZZZ			17:41																				
ZZZZZZ			17:45																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Savannah Job No.: 680-94506-1

SDG No.: 680-94506-1

Instrument ID: ICPE Method: 6010C

Start Date: 09/25/2013 10:38 End Date: 09/26/2013 01:40

Lab Sample ID	D/F	Type	Time	Analytes																			
				Ag	As	Ba	Cd	Cr	Pb	Se													
ZZZZZZ			17:50																				
ZZZZZZ			17:55																				
ZZZZZZ			18:00																				
ZZZZZZ			18:04																				
ZZZZZZ			18:09																				
CCV 680-295566/90			18:13																				
CCB 680-295566/91			18:18																				
ZZZZZZ			18:23																				
ZZZZZZ			18:27																				
ZZZZZZ			18:32																				
ZZZZZZ			18:36																				
ZZZZZZ			18:41																				
ZZZZZZ			18:46																				
ZZZZZZ			18:50																				
ZZZZZZ			18:55																				
ZZZZZZ			18:59																				
ZZZZZZ			19:04																				
CCV 680-295566/102	1		19:09	X	X	X	X	X	X	X													
CCB 680-295566/103	1		19:13	X	X	X	X	X	X	X													
ZZZZZZ			19:18																				
ZZZZZZ			19:22																				
ZZZZZZ			19:27																				
ZZZZZZ			19:32																				
ZZZZZZ			19:36																				
MB 680-295281/1-A	1	T	19:41	X	X	X	X	X	X	X													
LCS 680-295281/2-A	1	T	19:45	X	X	X	X	X	X	X													
680-94506-1	1	T	19:50	X	X	X	X	X	X	X													
680-94506-1 SD	5	T	19:55	X	X	X	X	X	X	X													
680-94506-1 PDS	1	T	19:59	X	X	X	X	X	X	X													
CCV 680-295566/114	1		20:04	X	X	X	X	X	X	X													
CCB 680-295566/115	1		20:08	X	X	X	X	X	X	X													
680-94506-1 MS	1	T	20:13	X	X	X	X	X	X	X													
680-94506-1 MSD	1	T	20:17	X	X	X	X	X	X	X													
680-94506-2	1	T	20:22	X	X	X	X	X	X	X													
680-94506-3	1	T	20:27	X	X	X	X	X	X	X													
ZZZZZZ			20:31																				
ZZZZZZ			20:36																				
ZZZZZZ			20:40																				
ZZZZZZ			20:45																				
ZZZZZZ			20:50																				
ZZZZZZ			20:54																				
CCV 680-295566/126	1		20:59	X	X	X	X	X	X	X													

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Savannah Job No.: 680-94506-1

SDG No.: 680-94506-1

Instrument ID: ICPE Method: 6010C

Start Date: 09/25/2013 10:38 End Date: 09/26/2013 01:40

Lab Sample ID	D / F	Type	Time	Analytes																			
				Ag	As	Ba	Cd	Cr	Pb	Se													
CCB 680-295566/127	1		21:03	X	X	X	X	X	X	X													
ZZZZZZ			21:08																				
ZZZZZZ			21:13																				
ZZZZZZ			21:17																				
ZZZZZZ			21:22																				
ZZZZZZ			21:26																				
ZZZZZZ			21:31																				
ZZZZZZ			21:36																				
ZZZZZZ			21:40																				
ZZZZZZ			21:45																				
ZZZZZZ			21:50																				
CCV 680-295566/138			21:54																				
CCB 680-295566/139			21:59																				
ZZZZZZ			22:03																				
ZZZZZZ			22:08																				
ZZZZZZ			22:13																				
ZZZZZZ			22:17																				
ZZZZZZ			22:22																				
ZZZZZZ			22:26																				
ZZZZZZ			22:31																				
ZZZZZZ			22:36																				
ZZZZZZ			22:40																				
ZZZZZZ			22:45																				
CCV 680-295566/150			22:49																				
CCB 680-295566/151			22:54																				
ZZZZZZ			22:59																				
ZZZZZZ			23:03																				
ZZZZZZ			23:08																				
ZZZZZZ			23:12																				
ZZZZZZ			23:17																				
ZZZZZZ			23:22																				
ZZZZZZ			23:26																				
ZZZZZZ			23:31																				
ZZZZZZ			23:36																				
ZZZZZZ			23:40																				
CCV 680-295566/162			23:45																				
CCB 680-295566/163			23:49																				
ZZZZZZ			23:54																				
ZZZZZZ			23:59																				
ZZZZZZ			00:03																				
ZZZZZZ			00:08																				
ZZZZZZ			00:12																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Savannah Job No.: 680-94506-1

SDG No.: 680-94506-1

Instrument ID: ICPE Method: 6010C

Start Date: 09/25/2013 10:38 End Date: 09/26/2013 01:40

Lab Sample ID	D / F	Type	Time	Analytes																			
				Ag	As	Ba	Cd	Cr	Pb	Se													
ZZZZZZ			00:17																				
ZZZZZZ			00:22																				
ZZZZZZ			00:26																				
ZZZZZZ			00:31																				
ZZZZZZ			00:36																				
CCV 680-295566/174			00:40																				
CCB 680-295566/175			00:45																				
ZZZZZZ			00:49																				
ZZZZZZ			00:54																				
ZZZZZZ			00:59																				
ZZZZZZ			01:03																				
ZZZZZZ			01:08																				
ZZZZZZ			01:12																				
ZZZZZZ			01:17																				
ZZZZZZ			01:22																				
ZZZZZZ			01:26																				
CRI 680-295566/185	1		01:31	X	X	X	X	X	X	X													
CCV 680-295566/186			01:36																				
CCB 680-295566/187			01:40																				

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Savannah Job No.: 680-94506-1

SDG No.: 680-94506-1

Instrument ID: ICPE Method: 6010C

Start Date: 09/30/2013 10:36 End Date: 10/01/2013 04:55

Lab Sample ID	D/F	Type	Time	Analytes																			
				Ag	As	Ba	Cd	Cr	Pb	Se													
ZZZZZZ			10:36																				
ZZZZZZ			10:41																				
ZZZZZZ			10:45																				
ICV 680-296235/4	1		10:50	X	X	X	X	X	X	X													
ICBIS 680-296235/5	1		10:54	X	X	X	X	X	X	X													
CRI 680-296235/6	1		10:59	X	X	X	X	X	X	X													
ICSA 680-296235/7	1		11:05	X	X	X	X	X	X	X													
ICSAB 680-296235/8	1		11:09	X	X	X	X	X	X	X													
ZZZZZZ			11:14																				
ZZZZZZ			11:19																				
ZZZZZZ			11:23																				
CCV 680-296235/12			11:29																				
CCB 680-296235/13			11:34																				
ZZZZZZ			11:38																				
ZZZZZZ			11:43																				
ZZZZZZ			11:48																				
ZZZZZZ			11:52																				
ZZZZZZ			11:57																				
ZZZZZZ			12:01																				
ZZZZZZ			12:06																				
ZZZZZZ			12:11																				
ZZZZZZ			12:15																				
ZZZZZZ			12:20																				
CCV 680-296235/24			12:24																				
CCB 680-296235/25			12:29																				
ZZZZZZ			12:34																				
ZZZZZZ			12:38																				
ZZZZZZ			12:43																				
ZZZZZZ			12:47																				
ZZZZZZ			12:52																				
ZZZZZZ			12:56																				
ZZZZZZ			13:01																				
ZZZZZZ			13:06																				
ZZZZZZ			13:10																				
ZZZZZZ			13:15																				
CCV 680-296235/36			13:19																				
CCB 680-296235/37			13:24																				
ZZZZZZ			13:29																				
ZZZZZZ			13:33																				
ZZZZZZ			13:38																				
ZZZZZZ			13:42																				
ZZZZZZ			13:47																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Savannah Job No.: 680-94506-1

SDG No.: 680-94506-1

Instrument ID: ICPE Method: 6010C

Start Date: 09/30/2013 10:36 End Date: 10/01/2013 04:55

Lab Sample ID	D/F	Type	Time	Analytes																			
				Ag	As	Ba	Cd	Cr	Pb	Se													
ZZZZZZ			13:55																				
ZZZZZZ			13:59																				
ZZZZZZ			14:04																				
ZZZZZZ			14:08																				
ZZZZZZ			14:13																				
CCV 680-296235/48			14:18																				
CCB 680-296235/49			14:22																				
ZZZZZZ			14:27																				
ZZZZZZ			14:31																				
ZZZZZZ			14:36																				
ZZZZZZ			14:40																				
ZZZZZZ			14:45																				
ZZZZZZ			14:50																				
ZZZZZZ			14:54																				
ZZZZZZ			14:59																				
ZZZZZZ			15:03																				
ZZZZZZ			15:08																				
CCV 680-296235/60			15:13																				
CCB 680-296235/61			15:17																				
ZZZZZZ			15:22																				
ZZZZZZ			15:26																				
ZZZZZZ			15:31																				
ZZZZZZ			15:35																				
ZZZZZZ			15:40																				
ZZZZZZ			15:45																				
ZZZZZZ			15:49																				
ZZZZZZ			15:54																				
ZZZZZZ			15:58																				
CCV 680-296235/71	1		16:10	X	X	X	X	X	X	X													
CCB 680-296235/72	1		16:15	X	X	X	X	X	X	X													
MB 680-296074/1-A	1	T	16:19	X	X	X	X	X	X	X													
LCS 680-296074/2-A	1	T	16:24	X	X	X	X	X	X	X													
LB 680-295691/21-C	1	P	16:28	X	X	X	X	X	X	X													
ZZZZZZ			16:33																				
ZZZZZZ			16:38																				
680-94461-A-2-G SD ^5	5	P	16:42	X	X	X	X	X	X	X													
680-94461-A-2-G PDS	1	P	16:47	X	X	X	X	X	X	X													
680-94461-A-2-H MS	1	P	16:51	X	X	X	X	X	X	X													
680-94461-A-2-I MSD	1	P	16:56	X	X	X	X	X	X	X													
ZZZZZZ			17:01																				
CCV 680-296235/83	1		17:05	X	X	X	X	X	X	X													
CCB 680-296235/84	1		17:10	X	X	X	X	X	X	X													

Lab Name: TestAmerica Savannah Job No.: 680-94506-1

SDG No.: 680-94506-1

Instrument ID: ICPE Method: 6010C

Start Date: 09/30/2013 10:36 End Date: 10/01/2013 04:55

Lab Sample ID	D/F	Type	Time	Analytes																			
				Ag	As	Ba	Cd	Cr	Pb	Se													
ZZZZZZ			17:18																				
680-94506-4	1	P	17:23	X	X	X	X	X	X	X													
680-94506-5	1	P	17:27	X	X	X	X	X	X	X													
680-94506-6	1	P	17:32	X	X	X	X	X	X	X													
680-94506-7	1	P	17:36	X	X	X	X	X	X	X													
680-94506-8	1	P	17:41	X	X	X	X	X	X	X													
680-94506-9	1	P	17:45	X	X	X	X	X	X	X													
680-94506-10	1	P	17:50	X	X	X	X	X	X	X													
680-94506-11	1	P	17:55	X	X	X	X	X	X	X													
680-94506-12	1	P	17:59	X	X	X	X	X	X	X													
CCV 680-296235/95	1		18:04	X	X	X	X	X	X	X													
CCB 680-296235/96	1		18:08	X	X	X	X	X	X	X													
680-94506-13	1	P	18:13	X	X	X	X	X	X	X													
680-94506-14	1	P	18:18	X	X	X	X	X	X	X													
680-94506-15	1	P	18:22	X	X	X	X	X	X	X													
680-94506-16	1	P	18:27	X	X	X	X	X	X	X													
680-94506-17	1	P	18:31	X	X	X	X	X	X	X													
ZZZZZZ			18:36																				
ZZZZZZ			18:41																				
MB 680-296085/1-A	1	T	18:45	X	X	X	X	X	X	X													
LCS 680-296085/2-A	1	T	18:50	X	X	X	X	X	X	X													
LB 680-295919/5-B	1	P	18:54	X	X	X	X	X	X	X													
CCV 680-296235/107	1		18:59	X	X	X	X	X	X	X													
CCB 680-296235/108	1		19:04	X	X	X	X	X	X	X													
ZZZZZZ			19:08																				
ZZZZZZ			19:13																				
680-94579-A-1-B SD ^5	5	P	19:17	X	X	X	X	X	X	X													
680-94579-A-1-B PDS	1	P	19:22	X	X	X	X	X	X	X													
680-94579-A-1-C MS	1	P	19:26	X	X	X	X	X	X	X													
680-94579-A-1-D MSD	1	P	19:31	X	X	X	X	X	X	X													
ZZZZZZ			19:36																				
ZZZZZZ			19:40																				
LB 680-295884/7-C	1	P	19:45	X	X	X	X	X	X	X													
680-94506-18	1	P	19:49	X	X	X	X	X	X	X													
CCV 680-296235/119	1		19:54	X	X	X	X	X	X	X													
CCB 680-296235/120	1		19:59	X	X	X	X	X	X	X													
ZZZZZZ			20:03																				
ZZZZZZ			20:08																				
ZZZZZZ			20:12																				
ZZZZZZ			20:17																				
ZZZZZZ			20:22																				
ZZZZZZ			20:26																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Savannah Job No.: 680-94506-1

SDG No.: 680-94506-1

Instrument ID: ICPE Method: 6010C

Start Date: 09/30/2013 10:36 End Date: 10/01/2013 04:55

Lab Sample ID	D / F	Type	Time	Analytes																			
				Ag	As	Ba	Cd	Cr	Pb	Se													
ZZZZZZ			20:31																				
ZZZZZZ			20:35																				
ZZZZZZ			20:40																				
CCV 680-296235/130			20:45																				
CCB 680-296235/131			20:49																				
ZZZZZZ			20:54																				
ZZZZZZ			20:58																				
ZZZZZZ			21:03																				
ZZZZZZ			21:08																				
ZZZZZZ			21:12																				
ZZZZZZ			21:17																				
ZZZZZZ			21:21																				
ZZZZZZ			21:26																				
ZZZZZZ			21:31																				
ZZZZZZ			21:35																				
CCV 680-296235/142			21:40																				
CCB 680-296235/143			21:44																				
ZZZZZZ			21:49																				
ZZZZZZ			21:54																				
ZZZZZZ			21:58																				
ZZZZZZ			22:03																				
ZZZZZZ			22:08																				
ZZZZZZ			22:12																				
ZZZZZZ			22:17																				
ZZZZZZ			22:21																				
ZZZZZZ			22:26																				
ZZZZZZ			22:31																				
CCV 680-296235/154			22:35																				
CCB 680-296235/155			22:40																				
ZZZZZZ			22:44																				
ZZZZZZ			22:49																				
ZZZZZZ			22:54																				
ZZZZZZ			22:58																				
ZZZZZZ			23:03																				
ZZZZZZ			23:07																				
ZZZZZZ			23:12																				
ZZZZZZ			23:17																				
ZZZZZZ			23:21																				
ZZZZZZ			23:26																				
CCV 680-296235/166			23:30																				
CCB 680-296235/167			23:35																				
ZZZZZZ			23:40																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Savannah Job No.: 680-94506-1

SDG No.: 680-94506-1

Instrument ID: ICPE Method: 6010C

Start Date: 09/30/2013 10:36 End Date: 10/01/2013 04:55

Lab Sample ID	D / F	Type	Time	Analytes																			
				Ag	As	Ba	Cd	Cr	Pb	Se													
ZZZZZZ			23:44																				
ZZZZZZ			23:49																				
ZZZZZZ			23:54																				
ZZZZZZ			23:58																				
ZZZZZZ			00:03																				
ZZZZZZ			00:07																				
ZZZZZZ			00:12																				
ZZZZZZ			00:17																				
ZZZZZZ			00:21																				
CCV 680-296235/178			00:26																				
CCB 680-296235/179			00:30																				
ZZZZZZ			00:35																				
ZZZZZZ			00:40																				
ZZZZZZ			00:44																				
ZZZZZZ			00:49																				
ZZZZZZ			00:54																				
ZZZZZZ			00:58																				
ZZZZZZ			01:03																				
ZZZZZZ			01:07																				
ZZZZZZ			01:12																				
ZZZZZZ			01:17																				
CCV 680-296235/190			01:21																				
CCB 680-296235/191			01:26																				
ZZZZZZ			01:31																				
ZZZZZZ			01:35																				
ZZZZZZ			01:40																				
ZZZZZZ			01:44																				
ZZZZZZ			01:49																				
ZZZZZZ			01:54																				
ZZZZZZ			01:58																				
ZZZZZZ			02:03																				
ZZZZZZ			02:08																				
ZZZZZZ			02:12																				
CCV 680-296235/202			02:17																				
CCB 680-296235/203			02:22																				
ZZZZZZ			02:26																				
ZZZZZZ			02:31																				
ZZZZZZ			02:35																				
ZZZZZZ			02:40																				
ZZZZZZ			02:45																				
ZZZZZZ			02:49																				
ZZZZZZ			02:54																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Savannah Job No.: 680-94506-1

SDG No.: 680-94506-1

Instrument ID: ICPE Method: 6010C

Start Date: 09/30/2013 10:36 End Date: 10/01/2013 04:55

Lab Sample ID	D / F	Type	Time	Analytes																			
				Ag	As	Ba	Cd	Cr	Pb	Se													
ZZZZZZ			02:59																				
ZZZZZZ			03:03																				
ZZZZZZ			03:08																				
CCV 680-296235/214			03:12																				
CCB 680-296235/215			03:17																				
ZZZZZZ			03:22																				
ZZZZZZ			03:26																				
ZZZZZZ			03:31																				
ZZZZZZ			03:36																				
ZZZZZZ			03:40																				
ZZZZZZ			03:45																				
ZZZZZZ			03:50																				
ZZZZZZ			03:54																				
ZZZZZZ			03:59																				
ZZZZZZ			04:04																				
CCV 680-296235/226			04:08																				
CCB 680-296235/227			04:13																				
ZZZZZZ			04:17																				
ZZZZZZ			04:22																				
ZZZZZZ			04:27																				
ZZZZZZ			04:31																				
ZZZZZZ			04:36																				
ZZZZZZ			04:41																				
CRI 680-296235/234	1		04:45	X	X	X	X	X	X	X													
CCV 680-296235/235			04:50																				
CCB 680-296235/236			04:55																				

Prep Types

P = TCLP

T = Total/NA

E09252013A.wvq. All Data Report 9/26/2013, 9:31:06 AM

Blank (Blk) **9/25/2013, 10:38:54 AM** **Rack S, Tube 1**

Label	Replicates	Concentration	
Ag 328.068	0.0088	0.1132	-0.1220
Al 308.215	-0.3277	-0.6828	1.0105
As 188.980	0.4842	3.5914	-4.0755
B 249.678	-0.4791	0.1828	0.2963
Ba 389.178	0.0553	0.7254	-0.7807
Be 313.042	-0.0104	0.0141	-0.0037
Ca 370.602	-2.921	1.829	1.092
Cd 226.502	0.0910	-0.0100	-0.0810
Co 228.615	-0.0687	0.2641	-0.1954
Cr 267.716	0.0812	-0.0111	-0.0701
Cu 324.754	0.0960	0.3410	-0.4369
Fe 271.441	-2.2666	0.4788	1.7878
K 766.491	0.0433	0.1444	-0.1877
Mg 279.078	-0.0752	0.9762	-0.9010
Mn 257.610	0.0032	0.0012	-0.0044
Mo 202.032	0.1128	-0.2564	0.1436
Na 330.237	-186.309	222.492	-36.1833
Ni 231.604	0.8375	-0.2245	-0.6130
Pb 220.353	-1.0779	-0.7022	1.7801
Sb 206.834	2.0914	-1.2743	-0.8171
Se 196.026	-3.4145	1.1477	2.2668
Sn 189.925	-0.9989	0.6132	0.3856
Sr 216.596	-0.2617	-0.0909	0.3526
Ti 334.941	0.0927	-0.0600	-0.0327
Tl 190.794	-0.9820	-0.8670	1.8491
V 292.401	0.1167	-0.1362	0.0195
Zn 206.200	0.6377	-0.4492	-0.1884

Label	Sol'n Conc.	Units	SD(Int)	%RSD(Int)	Int. (c/s)
Ag 328.068	0.0000	ppb	10.026	98.8	-10.1499
Al 308.215	0.0000	ppb	5.384	38.7	-13.9110
As 188.980	0.0000	ppb	3.500	44.6	-7.8440
B 249.678	0.0000	ppb	7.945	7.6	104.046
Ba 389.178	0.0000	ppb	18.121	77.8	-23.2840
Be 313.042	0.0000	ppb	24.260	9.1	-266.986
Ca 370.602	0.0000	ppb	7.826	72.9	10.73
Cd 226.502	0.0000	ppb	4.692	71.8	6.5375
Co 228.615	0.0000	ppb	3.223	76.0	-4.2388
Cr 267.716	0.0000	ppb	4.357	23.7	18.3981
Cu 324.754	0.0000	ppb	26.093	20.5	127.397
Fe 271.441	0.0000	ppb	3.730	28.7	13.0128
K 766.491	0.0000	ppb	7.288	1.8	407.185
Mg 279.078	0.0000	ppb	2.623	10.6	24.6530
Mn 257.610	0.0000	ppb	0.998	1.1	88.3344
Mo 202.032	0.0000	ppb	1.787	41.2	4.3359
Na 330.237	0.0000	ppb	9.370	23.2	40.3360
Ni 231.604	0.0000	ppb	2.817	53.3	-5.2901
Pb 220.353	0.0000	ppb	3.127	34.9	8.9714
Sb 206.834	0.0000	ppb	2.951	79.8	3.7002
Se 196.026	0.0000	ppb	1.847	92.1	-2.0068
Sn 189.925	0.0000	ppb	0.910	7.9	-11.5212
Sr 216.596	0.0000	ppb	4.874	170.5	2.8576
Ti 334.941	0.0000	ppb	23.327	41.2	-56.6820

Label	Sol'n Conc.	Units	SD(Int)	%RSD(Int)	Int. (c/s)
Tl 190.794	0.0000	ppb	2.259	20.0	-11.3083
V 292.401	0.0000	ppb	3.712	58.0	-6.4006
Zn 206.200	0.0000	ppb	0.928	15.5	5.9860

HIGH STD (Std) **9/25/2013, 10:43:28 AM** **Rack S, Tube 2**

Label	Replicates	Concentration	
Ag 328.068	996.549	1001.10	1002.35
Al 308.215	9955.22	9995.98	10048.8
As 188.980	990.703	1001.00	1008.30
B 249.678	995.603	1000.59	1003.81
Ba 389.178	9997.59	9989.86	10012.6
Be 313.042	1005.83	994.624	999.546
Ca 370.602	9945	10013	10043
Cd 226.502	999.452	1000.14	1000.41
Co 228.615	998.481	1000.73	1000.79
Cr 267.716	9989.93	9989.20	10020.9
Cu 324.754	9938.80	10078.8	9982.44
Fe 271.441	9979.63	10004.3	10016.1
K 766.491	19962.9	20004.8	20032.3
Mg 279.078	10005.2	9990.59	10004.2
Mn 257.610	9995.91	9996.39	10007.7
Mo 202.032	999.275	999.125	1001.60
Na 330.237	14999.4	14957.9	15042.7
Ni 231.604	4993.67	5000.31	5006.02
Pb 220.353	994.846	999.433	1005.72
Sb 206.834	1996.84	1997.57	2005.58
Se 196.026	9958.81	9989.03	10052.2
Sn 189.925	10015.5	10009.7	9974.86
Sr 216.596	5000.89	5000.46	4998.65
Ti 334.941	996.120	999.289	1004.59
Tl 190.794	9982.14	10005.9	10012.0
V 292.401	9985.90	10006.7	10007.4
Zn 206.200	4993.09	5004.67	5002.25

Label	Sol'n Conc.	Units	SD(Int)	%RSD(Int)	Int. (c/s)
Ag 328.068	1000.00	ppb	259.802	0.3	85078.0
Al 308.215	10000.0	ppb	282.859	0.5	60281.5
As 188.980	1000.00	ppb	8.024	0.9	899.765
B 249.678	1000.00	ppb	78.462	0.4	19076.8
Ba 389.178	10000.0	ppb	277.142	0.1	240117
Be 313.042	1000.00	ppb	10745.631	0.6	1912951
Ca 370.602	10000	ppb	154.112	0.5	30631
Cd 226.502	1000.00	ppb	26.784	0.0	54283.7
Co 228.615	1000.00	ppb	17.865	0.1	13574.9
Cr 267.716	10000.0	ppb	1033.022	0.2	571416
Cu 324.754	10000.0	ppb	4697.894	0.7	656186
Fe 271.441	10000.0	ppb	33.509	0.2	18037.3
K 766.491	20000.0	ppb	1495.936	0.2	856539
Mg 279.078	10000.0	ppb	22.766	0.1	27908.9
Mn 257.610	10000.0	ppb	1698.488	0.1	2544300
Mo 202.032	1000.00	ppb	11.138	0.1	8034.74
Na 330.237	15000.0	ppb	1.923	0.3	720.030
Ni 231.604	5000.00	ppb	23.191	2.1	18754.7

Label	Sol'n Conc.	Units	SD(Int)	%RSD(Int)	Int. (c/s)
Pb 220.353	1000.00	ppb	10.993	0.5	2022.66
Sb 206.834	2000.00	ppb	7.842	0.2	3236.77
Se 196.026	10000.0	ppb	29.236	0.5	6135.98
Sn 189.925	10000.0	ppb	22.897	0.2	10412.8
Sr 216.596	5000.00	ppb	18.216	0.0	76857.4
Ti 334.941	1000.00	ppb	1226.045	0.4	286369
Tl 190.794	10000.0	ppb	22.222	0.2	14086.9
V 292.401	10000.0	ppb	355.421	0.1	291028
Zn 206.200	5000.00	ppb	9.990	0.1	8186.96

Ag 328.068 Calibration (ppb) **9/25/2013, 10:43:28 AM** **Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-10.1499	0.0000	0.0000	-	-
HIGH STD		85078.0	1000.00	1000.00	0.0001	0.0

Curve Type: Linear Equation: y = 85.1 x + -10.1

Al 308.215 Calibration (ppb) **9/25/2013, 10:43:28 AM** **Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-13.9110	0.0000	0.0000	-	-
HIGH STD		60281.5	10000.0	10000.00	-0.0010	0.0

Curve Type: Linear Equation: y = 6.0 x + -13.9

As 188.980 Calibration (ppb) **9/25/2013, 10:43:28 AM** **Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-7.8440	0.0000	0.0000	-	-
HIGH STD		899.765	1000.00	1000.00	0.0000	0.0

Curve Type: Linear Equation: y = 0.9 x + -7.8

B 249.678 Calibration (ppb) **9/25/2013, 10:43:28 AM** **Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		104.046	0.0000	0.0000	-	-
HIGH STD		19076.8	1000.00	1000.00	0.0002	0.0

Curve Type: Linear Equation: y = 19.0 x + 104.0

Ba 389.178 Calibration (ppb) **9/25/2013, 10:43:28 AM** **Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-23.2840	0.0000	0.0000	-	-
HIGH STD		240117	10000.0	10000.0	0.0000	0.0

Curve Type: Linear Equation: y = 24.0 x + -23.3

Be 313.042 Calibration (ppb) **9/25/2013, 10:43:28 AM** **Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-266.986	0.0000	0.0000	-	-
HIGH STD		1912951	1000.00	1000.00	0.0000	0.0

Curve Type: Linear Equation: y = 1913.2 x + -267.0

Ca 370.602 Calibration (ppb) **9/25/2013, 10:43:28 AM** **Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		10.73	0.0000	0.0000	-	-
HIGH STD		30631	10000	10000	-0.0010	0.0

Curve Type: Linear Equation: y = 3.1 x + 10.7

Cd 226.502 Calibration (ppb) **9/25/2013, 10:43:28 AM** **Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		6.5375	0.0000	0.0000	-	-
HIGH STD		54283.7	1000.00	1000.00	0.0000	0.0

Curve Type: Linear Equation: y = 54.3 x + 6.5

Co 228.615 Calibration (ppb) **9/25/2013, 10:43:28 AM** **Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-4.2388	0.0000	0.0000	-	-
HIGH STD		13574.9	1000.00	1000.000	-0.0001	0.0

Curve Type: Linear Equation: y = 13.6 x + -4.2

Cr 267.716 Calibration (ppb) **9/25/2013, 10:43:28 AM** **Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		18.3981	0.0000	0.0000	-	-
HIGH STD		571416	10000.0	10000.0	0.0000	0.0

Curve Type: Linear Equation: y = 57.1 x + 18.4

Cu 324.754 Calibration (ppb) **9/25/2013, 10:43:28 AM** **Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		127.397	0.0000	0.0000	-	-
HIGH STD		656186	10000.0	10000.00	-0.0010	0.0

Curve Type: Linear Equation: y = 65.6 x + 127.4

Fe 271.441 Calibration (ppb) **9/25/2013, 10:43:28 AM** **Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		13.0128	0.0000	0.0000	-	-
HIGH STD		18037.3	10000.0	10000.0	0.0000	0.0

Curve Type: Linear Equation: y = 1.8 x + 13.0

K 766.491 Calibration (ppb) 9/25/2013, 10:43:28 AM Correlation Coefficient: 1.000000

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		407.185	0.0000	0.0000	-	-
HIGH STD		856539	20000.0	20000.0	0.0000	0.0

Curve Type: Linear Equation: y = 42.8 x + 407.2

Mg 279.078 Calibration (ppb) 9/25/2013, 10:43:28 AM Correlation Coefficient: 1.000000

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		24.6530	0.0000	0.0000	-	-
HIGH STD		27908.9	10000.0	10000.0	0.0000	0.0

Curve Type: Linear Equation: y = 2.8 x + 24.7

Mn 257.610 Calibration (ppb) 9/25/2013, 10:43:28 AM Correlation Coefficient: 1.000000

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		88.3344	0.0000	0.0000	-	-
HIGH STD		2544300	10000.0	10000.0	0.0000	0.0

Curve Type: Linear Equation: y = 254.4 x + 88.3

Mo 202.032 Calibration (ppb) 9/25/2013, 10:43:28 AM Correlation Coefficient: 1.000000

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		4.3359	0.0000	0.0000	-	-
HIGH STD		8034.74	1000.00	1000.00	0.0000	0.0

Curve Type: Linear Equation: y = 8.0 x + 4.3

Na 330.237 Calibration (ppb) 9/25/2013, 10:43:28 AM Correlation Coefficient: 1.000000

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		40.3360	0.0000	0.0000	-	-
HIGH STD		720.030	15000.0	15000.0	0.0000	0.0

Curve Type: Linear Equation: y = 0.0 x + 40.3

Ni 231.604 Calibration (ppb) 9/25/2013, 10:43:28 AM Correlation Coefficient: 1.000000

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-5.2901	0.0000	0.0000	-	-
HIGH STD		18754.7	5000.00	5000.00	0.0005	0.0

Curve Type: Linear Equation: y = 3.8 x + -5.3

Pb 220.353 Calibration (ppb) **9/25/2013, 10:43:28 AM** **Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		8.9714	0.0000	0.0000	-	-
HIGH STD		2022.66	1000.00	1000.000	-0.0001	0.0

Curve Type: Linear Equation: y = 2.0 x + 9.0

Sb 206.834 Calibration (ppb) **9/25/2013, 10:43:28 AM** **Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		3.7002	0.0000	0.0000	-	-
HIGH STD		3236.77	2000.00	2000.00	-0.0001	0.0

Curve Type: Linear Equation: y = 1.6 x + 3.7

Se 196.026 Calibration (ppb) **9/25/2013, 10:43:28 AM** **Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-2.0068	0.0000	0.0000	-	-
HIGH STD		6135.98	10000.0	10000.0	0.0000	0.0

Curve Type: Linear Equation: y = 0.6 x + -2.0

Sn 189.925 Calibration (ppb) **9/25/2013, 10:43:28 AM** **Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-11.5212	0.0000	0.0000	-	-
HIGH STD		10412.8	10000.0	10000.0	0.0000	0.0

Curve Type: Linear Equation: y = 1.0 x + -11.5

Sr 216.596 Calibration (ppb) **9/25/2013, 10:43:28 AM** **Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		2.8576	0.0000	0.0000	-	-
HIGH STD		76857.4	5000.00	5000.00	0.0000	0.0

Curve Type: Linear Equation: y = 15.4 x + 2.9

Ti 334.941 Calibration (ppb) **9/25/2013, 10:43:28 AM** **Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-56.6820	0.0000	0.0000	-	-
HIGH STD		286369	1000.00	1000.00	0.0000	0.0

Curve Type: Linear Equation: y = 286.4 x + -56.7

Tl 190.794 Calibration (ppb) **9/25/2013, 10:43:28 AM** **Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-11.3083	0.0000	0.0000	-	-
HIGH STD		14086.9	10000.0	10000.00	-0.0010	0.0

Curve Type: Linear Equation: y = 1.4 x + -11.3

V 292.401 Calibration (ppb) 9/25/2013, 10:43:28 AM Correlation Coefficient: 1.000000

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-6.4006	0.0000	0.0000	-	-
HIGH STD		291028	10000.0	10000.00	-0.0010	0.0

Curve Type: Linear Equation: y = 29.1 x + -6.4

Zn 206.200 Calibration (ppb) 9/25/2013, 10:43:28 AM Correlation Coefficient: 1.000000

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		5.9860	0.0000	0.0000	-	-
HIGH STD		8186.96	5000.00	5000.00	0.0000	0.0

Curve Type: Linear Equation: y = 1.6 x + 6.0

Lab Control Sample (LCS) 9/25/2013, 10:48:02 AM Rack S, Tube 2
Weight: 1 Volume: 1 Dilution: 1

Label	Replicates	Concentration	
Ag 328.068	1002.77x	1011.81x	1005.77x
Al 308.215	9958.74	10073.3	9997.21
As 188.980	997.381	1016.96	1001.58
B 249.678	1000.54	1011.23	1004.94
Ba 389.178	10034.8x	10129.3x	10076.7x
Be 313.042	1001.51x	1009.87x	1006.48x
Ca 370.602	9989	10111	10033
Cd 226.502	998.023	1007.78x	1001.45x
Co 228.615	997.530	1011.99	1003.70
Cr 267.716	9960.46	10098.8x	10044.3x
Cu 324.754	9969.11	10098.2	9995.88
Fe 271.441	10019.3	10139.3	10047.8
K 766.491	20133.2	20360.5	20279.5
Mg 279.078	9989.33	10021.4	10033.8
Mn 257.610	10014.0	10158.5	10031.6
Mo 202.032	997.630	1010.85	1005.15x
Na 330.237	14502.1	14707.4	14477.2
Ni 231.604	4988.90	5039.53	5006.89
Pb 220.353	1004.18	1006.10	1001.06
Sb 206.834	2007.52	2032.03	2001.66
Se 196.026	10000.6x	10071.2	10021.0x
Sn 189.925	9952.03	10113.6x	10054.7x
Sr 216.596	5007.55	5052.50x	5018.52x
Ti 334.941	1002.04	1012.71	1006.73
Tl 190.794	9975.71	10101.0x	10012.7x
V 292.401	10005.6	10110.2x	10063.1x
Zn 206.200	4976.04	5037.46	5005.20

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	1006.78xb	ppb	4.6033	0.5	85519.2	100.67812
Al 308.215	10009.8b	ppb	58.3020	0.6	58664.7	100.09750

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
As 188.980	1005.31b	ppb	10.3087	1.0	904.191	100.53090
B 249.678	1005.57b	ppb	5.3748	0.5	19155.6	20.11143*
Ba 389.178	10080.3xb	ppb	47.3191	0.5	242114	100.80263
Be 313.042	1005.96xb	ppb	4.2069	0.4	1923814	100.59554
Ca 370.602	10044b	ppb	62.05	0.6	30877	100.44318
Cd 226.502	1002.42xb	ppb	4.9480	0.5	54457.6	100.24172
Co 228.615	1004.41b	ppb	7.2556	0.7	13659.1	100.44066
Cr 267.716	10034.5xb	ppb	69.6689	0.7	573318	100.34494
Cu 324.754	10021.1b	ppb	68.1476	0.7	657477	100.21075
Fe 271.441	10068.8b	ppb	62.7154	0.6	18396.9	100.68823
K 766.491	20257.7b	ppb	115.187	0.6	867572	101.28870
Mg 279.078	10014.8b	ppb	22.9429	0.2	27735.2	100.14830
Mn 257.610	10068.0b	ppb	78.8039	0.8	2561733	100.68044
Mo 202.032	1004.54xb	ppb	6.6300	0.7	8049.65	100.45431
Na 330.237	14562.2b	ppb	126.316	0.9	629.386	97.08152
Ni 231.604	5011.77b	ppb	25.6658	0.5	18796.2	100.23543
Pb 220.353	1003.78b	ppb	2.5389	0.3	2030.87	100.37788
Sb 206.834	2013.74b	ppb	16.1098	0.8	3397.71	100.68690
Se 196.026	10030.9xb	ppb	36.3002	0.4	6158.10	100.30937
Sn 189.925	10040.1xb	ppb	81.7744	0.8	10454.7	100.40119
Sr 216.596	5026.19xb	ppb	23.4386	0.5	77134.4	100.52378
Ti 334.941	1007.16b	ppb	5.3482	0.5	288466	100.71613
Tl 190.794	10029.8xb	ppb	64.3553	0.6	14132.0	100.29797
V 292.401	10059.6xb	ppb	52.3855	0.5	292034	100.59620
Zn 206.200	5006.23b	ppb	30.7231	0.6	8156.89	100.12466

Initial Calib Verif (ICV) **9/25/2013, 10:52:37 AM** **Rack S, Tube 3**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	1002.18	993.423	997.431
Al 308.215	961.031	958.353	958.985
As 188.980	1008.08	1009.69	1007.55
B 249.678	984.983	984.732	981.508
Ba 389.178	1051.17	1051.69	1050.70
Be 313.042	1029.08x	1023.68x	1023.64x
Ca 370.602	993.4	993.4	991.8
Cd 226.502	1034.53x	1032.09x	1025.13x
Co 228.615	1004.17	997.662	992.729
Cr 267.716	1051.79	1049.22	1045.73
Cu 324.754	1047.71	1044.09	1038.18
Fe 271.441	1007.06	1003.45	992.594
K 766.491	10384.6	10384.1	10349.3
Mg 279.078	1032.50	1026.85	1019.53
Mn 257.610	1063.14	1060.10	1056.60
Mo 202.032	1040.26x	1040.62x	1035.66x
Na 330.237	10135.6	10460.9	10152.7
Ni 231.604	1036.59	1029.07	1027.17
Pb 220.353	1037.22	1043.46	1037.02
Sb 206.834	1014.91	1006.62	1007.52
Se 196.026	1028.74	1010.81	1017.12
Sn 189.925	5084.18	5126.92	5034.01
Sr 216.596	5069.44x	5052.13x	5030.90x
Ti 334.941	1003.98	1002.06	1000.21

Label	Replicates Concentration		
Tl 190.794	1058.91	1058.61	1048.60
V 292.401	1020.91	1025.92	1021.33
Zn 206.200	1035.58	1033.32	1033.44

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	997.677b	ppb	4.3821	0.4	84634.7	99.76766
Al 308.215	959.457b	ppb	1.4000	0.1	5612.67	95.94566
As 188.980	1008.44b	ppb	1.1129	0.1	907.019	100.84412
B 249.678	983.741b	ppb	1.9381	0.2	18765.5	98.37411
Ba 389.178	1051.19b	ppb	0.4948	0.0	25232.1	105.11892
Be 313.042	1025.47xb	ppb	3.1264	0.3	1961477	102.54695
Ca 370.602	992.9b	ppb	0.9233	0.1	3527	99.28697
Cd 226.502	1030.58xb	ppb	4.8759	0.5	55948.0	103.05803
Co 228.615	998.187b	ppb	5.7385	0.6	13542.7	99.81871
Cr 267.716	1048.91b	ppb	3.0426	0.3	59937.8	104.89110
Cu 324.754	1043.33b	ppb	4.8085	0.5	68600.4	104.33284
Fe 271.441	1001.04b	ppb	7.5314	0.8	1964.21	100.10368
K 766.491	10372.7b	ppb	20.2030	0.2	444426	103.72673
Mg 279.078	1026.29b	ppb	6.5000	0.6	2863.83	102.62938
Mn 257.610	1059.95b	ppb	3.2701	0.3	269774	105.99474Q
Mo 202.032	1038.85xb	ppb	2.7692	0.3	8344.52	103.88479
Na 330.237	10249.8b	ppb	183.073	1.8	487.841	102.49769
Ni 231.604	1030.95b	ppb	4.9797	0.5	3859.87	103.09454
Pb 220.353	1039.23b	ppb	3.6615	0.4	2099.28	103.92344
Sb 206.834	1009.68b	ppb	4.5460	0.5	1644.39	100.96839
Se 196.026	1018.89b	ppb	9.0981	0.9	623.716	101.88900
Sn 189.925	5081.70b	ppb	46.5077	0.9	5285.83	101.63408
Sr 216.596	5050.82xb	ppb	19.3049	0.4	77595.9	101.01647
Ti 334.941	1002.08b	ppb	1.8882	0.2	286969	100.20823
Tl 190.794	1055.37b	ppb	5.8712	0.6	1479.98	105.53741Q
V 292.401	1022.72b	ppb	2.7780	0.3	29530.0	102.27180
Zn 206.200	1034.11b	ppb	1.2680	0.1	1693.79	103.41130

Initial Calib Blank (ICB) **9/25/2013, 10:57:11 AM** **Rack S, Tube 1**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.2226u	-0.2853u	0.0652
Al 308.215	-2.6590u	-3.3466u	-2.3090u
As 188.980	1.7457	7.4109	-0.7039u
B 249.678	4.2775	3.8214	2.9428
Ba 389.178	0.3172	0.1231	0.7460
Be 313.042	0.0200	0.0215	0.0148
Ca 370.602	-0.5826u	-1.827u	0.4440
Cd 226.502	0.0698	0.0438	0.0759
Co 228.615	-0.2556u	-0.0384u	0.0051u
Cr 267.716	0.0574	0.0424	0.0175
Cu 324.754	-0.0651u	0.1414	-0.0322u
Fe 271.441	0.5301	-7.6789u	-0.2162u
K 766.491	-2.0182u	-2.4863u	-1.5969u
Mg 279.078	0.9804	2.7156	0.8904
Mn 257.610	-0.0532u	-0.0511u	-0.0686u
Mo 202.032	2.9630	2.3864	2.5532
Na 330.237	-173.588u	6.1181	-73.1573u

Label	Replicates Concentration		
Ni 231.604	1.0057	0.8131	0.7136
Pb 220.353	3.4843	2.2872	0.8485
Sb 206.834	0.9110	2.8420	2.1990
Se 196.026	-1.2760u	1.0053	0.3324
Sn 189.925	4.4515	0.9140	1.3482
Sr 216.596	0.2640	0.5570	0.4625
Ti 334.941	0.3178	0.2397	0.1997
Tl 190.794	1.7400	1.7675	4.0820
V 292.401	0.0898	0.3920	0.3002
Zn 206.200	0.3223	-0.5436u	-1.1552u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	-0.1476	ppb	0.1869	126.7	-22.7314	-0.14758
Al 308.215	-2.7716	ppb	0.5279	19.0	-30.5200	-2.77156
As 188.980	2.8176	ppb	4.1622	147.7	-5.2878	2.81757
B 249.678	3.6806	ppb	0.6784	18.4	173.887	3.68057
Ba 389.178	0.3954	ppb	0.3188	80.6	-13.7760	0.39541
Be 313.042	0.0188	ppb	0.0035	18.6	-231.505	0.01877
Ca 370.602	-0.6553	ppb	1.137	173.6	9.161	-0.65527
Cd 226.502	0.0632	ppb	0.0170	27.0	9.9511	0.06318
Co 228.615	-0.0963	ppb	0.1396	145.0	-5.6268	-0.09630
Cr 267.716	0.0391	ppb	0.0202	51.5	20.6279	0.03910
Cu 324.754	0.0147	ppb	0.1109	755.3	128.450	0.01469
Fe 271.441	-2.4550	ppb	4.5394	184.9	8.5783	-2.45499
K 766.491	-2.0338	ppb	0.4449	21.9	320.125	-2.03379
Mg 279.078	1.5288	ppb	1.0288	67.3	28.9180	1.52879
Mn 257.610	-0.0576	ppb	0.0096	16.6	73.6701	-0.05764
Mo 202.032	2.6342	ppb	0.2967	11.3	25.4892	2.63419
Na 330.237	-80.2090	ppb	90.0603	112.3	36.6965	-80.20900
Ni 231.604	0.8441	ppb	0.1485	17.6	-2.1227	0.84414
Pb 220.353	2.2067	ppb	1.3197	59.8	13.4103	2.20666
Sb 206.834	1.9840	ppb	0.9833	49.6	6.8563	1.98402
Se 196.026	0.0206	ppb	1.1722	5700.1	-1.9942	0.02056
Sn 189.925	2.2379	ppb	1.9293	86.2	-9.1884	2.23789
Sr 216.596	0.4278	ppb	0.1496	35.0	9.3622	0.42783
Ti 334.941	0.2524	ppb	0.0601	23.8	15.6227	0.25241
Tl 190.794	2.5298	ppb	1.3443	53.1	-7.7432	2.52982
V 292.401	0.2606	ppb	0.1549	59.4	0.7184	0.26064
Zn 206.200	-0.4588	ppb	0.7424	161.8	5.2351	-0.45883

Initial Calib Verif (ICV) **9/25/2013, 11:05:09 AM** **Rack S, Tube 3**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	984.734	983.969	990.553
Al 308.215	955.974	955.283	951.141
As 188.980	1003.08	1002.67	997.085
B 249.678	966.942	964.222	968.697
Ba 389.178	1038.96	1032.42	1032.68
Be 313.042	1008.08x	1004.11x	1010.95x
Ca 370.602	993.0	981.2	983.0
Cd 226.502	1012.39x	1008.74x	1011.29x
Co 228.615	978.583	984.572	982.464
Cr 267.716	1028.47	1026.09	1029.71

Label	Replicates	Concentration	
Cu 324.754	1034.20	1033.69	1035.82
Fe 271.441	985.067	989.632	980.692
K 766.491	10224.3	10222.4	10252.9
Mg 279.078	1006.63	1005.35	1011.26
Mn 257.610	1044.75	1042.70	1043.47
Mo 202.032	1020.90x	1017.40x	1024.73x
Na 330.237	10026.0	9955.98	9809.83
Ni 231.604	1014.26	1009.62	1013.33
Pb 220.353	1021.41	1020.40	1019.98
Sb 206.834	992.307	990.017	990.566
Se 196.026	989.956	999.425	993.104
Sn 189.925	5000.02	4997.32	5010.85
Sr 216.596	4955.76	4934.89	4954.91
Ti 334.941	990.311	988.152	988.235
Tl 190.794	1028.45	1020.70	1029.08
V 292.401	1007.29	1006.17	1008.57
Zn 206.200	1012.27	1011.23	1015.54

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	986.418b	ppb	3.6010	0.4	83682.7	98.64185
Al 308.215	954.133b	ppb	2.6138	0.3	5582.72	95.41326
As 188.980	1000.95b	ppb	3.3511	0.3	900.225	100.09473
B 249.678	966.620b	ppb	2.2549	0.2	18440.7	96.66203
Ba 389.178	1034.69b	ppb	3.7062	0.4	24835.6	103.46861
Be 313.042	1007.72xb	ppb	3.4345	0.3	1927516	100.77164
Ca 370.602	985.8b	ppb	6.358	0.6	3499	98.57671
Cd 226.502	1010.81xb	ppb	1.8712	0.2	54874.7	101.08072
Co 228.615	981.873b	ppb	3.0379	0.3	13321.5	98.18726
Cr 267.716	1028.09b	ppb	1.8387	0.2	58748.5	102.80928
Cu 324.754	1034.57b	ppb	1.1118	0.1	68025.4	103.45720
Fe 271.441	985.131b	ppb	4.4707	0.5	1933.13	98.51305
K 766.491	10233.2b	ppb	17.0648	0.2	438455	102.33195
Mg 279.078	1007.74b	ppb	3.1105	0.3	2812.49	100.77447
Mn 257.610	1043.64b	ppb	1.0342	0.1	265624	104.36371
Mo 202.032	1021.01xb	ppb	3.6648	0.4	8201.31	102.10099
Na 330.237	9930.59b	ppb	110.285	1.1	473.716	99.30591
Ni 231.604	1012.40b	ppb	2.4573	0.2	3790.35	101.24033
Pb 220.353	1020.59b	ppb	0.7343	0.1	2061.79	102.05943
Sb 206.834	990.963b	ppb	1.1954	0.1	1614.00	99.09633
Se 196.026	994.162b	ppb	4.8224	0.5	608.532	99.41617
Sn 189.925	5002.73b	ppb	7.1619	0.1	5203.51	100.05466
Sr 216.596	4948.52b	ppb	11.8113	0.2	76024.3	98.97042
Ti 334.941	988.899b	ppb	1.2232	0.1	283193	98.88992
Tl 190.794	1026.08b	ppb	4.6684	0.5	1438.62	102.60789
V 292.401	1007.34b	ppb	1.2014	0.1	29087.3	100.73432
Zn 206.200	1013.01b	ppb	2.2459	0.2	1659.35	101.30128

Initial Calib Blank (ICB) **9/25/2013, 11:09:43 AM** **Rack S, Tube 1**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	0.4137	0.0823	0.0390
Al 308.215	-1.2770u	-2.6936u	-3.2037u
As 188.980	8.6699	1.7829	3.0804

Label	Replicates	Concentration	
B 249.678	4.2858	3.8020	3.2469
Ba 389.178	0.8616	-0.8415u	-0.1925u
Be 313.042	0.0254	0.0306	0.0281
Ca 370.602	-1.858u	-0.0458	-0.4162u
Cd 226.502	0.1329	0.1411	0.1903
Co 228.615	0.1411	0.3553	0.2832
Cr 267.716	-0.0268u	0.0277	0.1748
Cu 324.754	-0.0664u	0.1948	-0.1097u
Fe 271.441	-1.6889u	-2.4113u	4.9270
K 766.491	-1.6521u	-1.2489u	-1.5537u
Mg 279.078	2.5470	1.2740	0.5071
Mn 257.610	-0.0123u	-0.0421u	-0.0518u
Mo 202.032	3.0134	2.3773	2.6617
Na 330.237	108.712	61.7140	-137.758u
Ni 231.604	0.3726	0.9612	0.6067
Pb 220.353	0.9780	1.6535	0.8937
Sb 206.834	7.3710	4.0267	-0.0859u
Se 196.026	1.6001	-6.0951u	-3.6571u
Sn 189.925	-0.4664u	1.1677	1.3861
Sr 216.596	0.2725	0.4872	0.2775
Ti 334.941	0.2963	0.2902	0.1801
Tl 190.794	1.1517	0.8285	-3.6338u
V 292.401	0.2073	0.1316	0.1478
Zn 206.200	0.6215	-0.7672u	-0.5372u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.1783	ppb	0.2050	115.0	5.0097	0.17834
Al 308.215	-2.3915	ppb	0.9983	41.7	-28.2270	-2.39146
As 188.980	4.5111	ppb	3.6596	81.1	-3.7507	4.51109
B 249.678	3.7782	ppb	0.5199	13.8	175.741	3.77825
Ba 389.178	-0.0575	ppb	0.8595	1495.5	-24.6538	-0.05747
Be 313.042	0.0280	ppb	0.0026	9.2	-213.753	0.02805
Ca 370.602	-0.7733	ppb	0.9573	123.8	8.830	-0.77326
Cd 226.502	0.1548	ppb	0.0311	20.1	14.9189	0.15476
Co 228.615	0.2599	ppb	0.1090	42.0	-0.7883	0.25987
Cr 267.716	0.0586	ppb	0.1043	178.0	21.7443	0.05860
Cu 324.754	0.0062	ppb	0.1647	2638.4	127.897	0.00624
Fe 271.441	0.2756	ppb	4.0444	1467.5	13.5480	0.27560
K 766.491	-1.4849	ppb	0.2102	14.2	343.623	-1.48488
Mg 279.078	1.4427	ppb	1.0304	71.4	28.6768	1.44270
Mn 257.610	-0.0354	ppb	0.0206	58.2	79.3225	-0.03540
Mo 202.032	2.6841	ppb	0.3186	11.9	25.8906	2.68415
Na 330.237	10.8894	ppb	130.860	1201.7	40.8237	10.88939
Ni 231.604	0.6469	ppb	0.2964	45.8	-2.8639	0.64686
Pb 220.353	1.1751	ppb	0.4164	35.4	11.3329	1.17510
Sb 206.834	3.7706	ppb	3.7350	99.1	9.7436	3.77057
Se 196.026	-2.7173	ppb	3.9327	144.7	-3.6747	-2.71735
Sn 189.925	0.6958	ppb	1.0124	145.5	-10.7958	0.69580
Sr 216.596	0.3457	ppb	0.1225	35.4	8.1103	0.34572
Ti 334.941	0.2555	ppb	0.0654	25.6	16.5065	0.25554
Tl 190.794	-0.5512	ppb	2.6745	485.2	-12.0854	-0.55119
V 292.401	0.1622	ppb	0.0399	24.6	-2.1458	0.16223
Zn 206.200	-0.2276	ppb	0.7443	327.0	5.6133	-0.22761

CRI (CRI) **9/25/2013, 11:14:17 AM** **Rack S, Tube 4**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	10.1883	10.5295	10.1257
Al 308.215	213.871	210.266	211.266
As 188.980	28.7294	25.0129	22.8018
B 249.678	101.057	99.9532	101.273
Ba 389.178	10.0874	11.4718	11.7620
Be 313.042	4.2079	4.1722	4.2085
Ca 370.602	532.6	529.7	533.3
Cd 226.502	5.3734	5.1284	5.2338
Co 228.615	10.5894	10.3619	10.3905
Cr 267.716	10.5435	10.5218	10.3952
Cu 324.754	20.8997	21.2595	20.6382
Fe 271.441	51.8622	45.4908	48.6329
K 766.491	1042.84	1031.57	1037.97
Mg 279.078	528.976	521.719	531.166
Mn 257.610	10.5990	10.4308	10.5593
Mo 202.032	11.1092	11.4179	10.9946
Na 330.237	1023.19	1015.60	1003.91
Ni 231.604	43.2873	42.6385	43.5923
Pb 220.353	11.4561	9.7572	13.7678
Sb 206.834	16.6976	15.8287	20.1330
Se 196.026	22.5538	19.9158	18.7570
Sn 189.925	53.1152	51.1612	52.7326
Sr 216.596	10.5245	10.2200	10.9456
Ti 334.941	10.3565	10.1034	10.2109
Tl 190.794	24.2823	26.0471	23.2656
V 292.401	10.4007	10.5590	10.2772
Zn 206.200	19.6544	18.7366	18.3647

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	10.2811	ppb	0.2173	2.1	864.231	102.81141
Al 308.215	211.801	ppb	1.8612	0.9	1261.55	105.90045
As 188.980	25.5147	ppb	2.9955	11.7	15.3113	127.57355R
B 249.678	100.761	ppb	0.7079	0.7	2015.64	100.76108
Ba 389.178	11.1071	ppb	0.8949	8.1	245.029	111.07056
Be 313.042	4.1962	ppb	0.0208	0.5	7759.18	104.90566
Ca 370.602	531.9	ppb	1.932	0.4	1641	106.37267
Cd 226.502	5.2452	ppb	0.1229	2.3	291.439	104.90458
Co 228.615	10.4473	ppb	0.1239	1.2	137.535	104.47296
Cr 267.716	10.4869	ppb	0.0801	0.8	617.551	104.86853
Cu 324.754	20.9324	ppb	0.3119	1.5	1500.97	104.66224
Fe 271.441	48.6620	ppb	3.1858	6.5	102.256	97.32392
K 766.491	1037.46	ppb	5.6484	0.5	44817.3	103.74603
Mg 279.078	527.287	ppb	4.9444	0.9	1494.66	105.45740
Mn 257.610	10.5297	ppb	0.0879	0.8	2772.21	105.29689
Mo 202.032	11.1739	ppb	0.2189	2.0	94.0424	111.73899
Na 330.237	1014.23	ppb	9.7165	1.0	85.9968	101.42346
Ni 231.604	43.1727	ppb	0.4871	1.1	156.664	107.93169
Pb 220.353	11.6603	ppb	2.0131	17.3	32.4252	116.60332
Sb 206.834	17.5531	ppb	2.2761	13.0	32.0701	87.76543
Se 196.026	20.4089	ppb	1.9458	9.5	10.5236	102.04440
Sn 189.925	52.3363	ppb	1.0355	2.0	43.0367	104.67263
Sr 216.596	10.5633	ppb	0.3644	3.4	164.130	105.63333

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ti 334.941	10.2236	ppb	0.1271	1.2	2873.99	102.23591
Tl 190.794	24.5317	ppb	1.4074	5.7	23.3091	98.12668
V 292.401	10.4123	ppb	0.1412	1.4	294.218	104.12292
Zn 206.200	18.9186	ppb	0.6638	3.5	36.8988	94.59278

CRI (CRI) **9/25/2013, 11:18:53 AM** **Rack S, Tube 4**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	9.9840	10.3439	10.0043
Al 308.215	214.915	212.454	217.414
As 188.980	21.8790	24.0483	22.7415
B 249.678	101.445	100.397	101.555
Ba 389.178	10.5301	10.8705	10.8783
Be 313.042	4.1836	4.1971	4.2115
Ca 370.602	529.4	528.2	533.2
Cd 226.502	5.2158	5.1377	5.2315
Co 228.615	10.5030	10.3826	10.2470
Cr 267.716	10.3030	10.5867	10.7780
Cu 324.754	20.9551	21.1028	21.1755
Fe 271.441	51.9104	52.5317	51.5795
K 766.491	1042.72	1044.97	1049.35
Mg 279.078	525.399	529.191	531.418
Mn 257.610	10.5582	10.6192	10.6988
Mo 202.032	10.8828	10.7913	10.8193
Na 330.237	976.512	996.626	901.124
Ni 231.604	42.3192	41.9401	43.3174
Pb 220.353	12.9640	13.1174	13.5400
Sb 206.834	17.9089	21.1237	19.4212
Se 196.026	14.6313	21.0826	27.6284
Sn 189.925	51.4171	53.1928	50.3645
Sr 216.596	10.6398	10.4930	10.9649
Ti 334.941	10.1680	10.1657	10.2618
Tl 190.794	27.0447	26.1585	27.5679
V 292.401	10.6547	10.2513	10.4122
Zn 206.200	18.9801	19.5151	19.7788

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	10.1107	ppb	0.2022	2.0	849.737	101.10741
Al 308.215	214.928	ppb	2.4802	1.2	1280.38	107.46380
As 188.980	22.8896	ppb	1.0922	4.8	12.9289	114.44797
B 249.678	101.132	ppb	0.6390	0.6	2022.68	101.13239
Ba 389.178	10.7597	ppb	0.1988	1.8	236.688	107.59658
Be 313.042	4.1974	ppb	0.0139	0.3	7761.54	104.93561
Ca 370.602	530.3	ppb	2.620	0.5	1636	106.05459
Cd 226.502	5.1950	ppb	0.0502	1.0	288.718	103.90015
Co 228.615	10.3775	ppb	0.1281	1.2	136.600	103.77525
Cr 267.716	10.5559	ppb	0.2390	2.3	621.498	105.55920
Cu 324.754	21.0778	ppb	0.1123	0.5	1510.49	105.38893
Fe 271.441	52.0072	ppb	0.4834	0.9	108.276	104.01443
K 766.491	1045.68	ppb	3.3712	0.3	45169.2	104.56805
Mg 279.078	528.669	ppb	3.0430	0.6	1498.51	105.73390
Mn 257.610	10.6254	ppb	0.0705	0.7	2796.57	106.25384
Mo 202.032	10.8312	ppb	0.0469	0.4	91.2899	108.31150

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Na 330.237	958.087	ppb	50.3466	5.3	83.4395	95.80874
Ni 231.604	42.5256	ppb	0.7115	1.7	154.237	106.31390
Pb 220.353	13.2071	ppb	0.2983	2.3	35.5407	132.07140R
Sb 206.834	19.4846	ppb	1.6084	8.3	35.2013	97.42306
Se 196.026	21.1141	ppb	6.4986	30.8	10.9565	105.57056
Sn 189.925	51.6581	ppb	1.4295	2.8	42.3298	103.31630
Sr 216.596	10.6992	ppb	0.2415	2.3	166.230	106.99198
Ti 334.941	10.1985	ppb	0.0548	0.5	2866.80	101.98467
Tl 190.794	26.9237	ppb	0.7125	2.6	26.6813	107.69490
V 292.401	10.4394	ppb	0.2031	1.9	295.076	104.39408
Zn 206.200	19.4247	ppb	0.4069	2.1	37.7266	97.12328

Interf Check A (ICSA) **9/25/2013, 11:23:29 AM** **Rack S, Tube 5**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	0.0375u	0.0997u	0.2550
Al 308.215	518580	518998	520184
As 188.980	-2.1440	-4.6205	1.3861
B 249.678	7.0960u	7.4184u	6.8367u
Ba 389.178	-12.4562	-11.7496	-13.5546
Be 313.042	-0.0788	-0.0856	-0.0898
Ca 370.602	478011	479320	482181
Cd 226.502	1.0435	0.9968	0.8911
Co 228.615	1.0938	0.7341	0.4860
Cr 267.716	0.7106	0.5957	0.6593
Cu 324.754	0.9351	0.4825	1.0214
Fe 271.441	182281	181944	182136
K 766.491	-1.9256u	-1.3255u	-1.4526u
Mg 279.078	508064	507786	506588
Mn 257.610	0.3338	0.3075	0.3940
Mo 202.032	2.1928	1.8649	1.8535
Na 330.237	-250.942u	-112.898u	-537.037u
Ni 231.604	9.5439	7.3886	8.0341
Pb 220.353	2.4431	3.9921	0.8332
Sb 206.834	9.7571	5.7550	6.4600
Se 196.026	-10.3110u	-9.1362u	-16.4487u
Sn 189.925	-1.2554u	-5.6204u	0.0721
Sr 216.596	9.1261	8.3548	9.1411
Ti 334.941	1.3718	1.3987	1.4646
Tl 190.794	-8.0524u	-8.8110u	-12.3546u
V 292.401	4.5971	4.1666	3.8698
Zn 206.200	13.3760	14.0363	11.2552

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.1307	ppb	0.1120	85.7	-8.1206	0.13074
Al 308.215	519254	ppb	832.035	0.2	3130847	-
As 188.980	-1.7928	ppb	3.0186	168.4	-4.7902	-1.79280
B 249.678	7.1170	ppb	0.2915	4.1	-239.480	7.11704
Ba 389.178	-12.5868	ppb	0.9096	7.2	1321.24	-12.58680
Be 313.042	-0.0848	ppb	0.0055	6.5	-234.754	-0.08476
Ca 370.602	479837	ppb	2132	0.4	1455392	-
Cd 226.502	0.9771	ppb	0.0781	8.0	826.253	0.97714
Co 228.615	0.7713	ppb	0.3056	39.2	13.7603	0.77128

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Cr 267.716	0.6552	ppb	0.0575	8.8	112.714	0.65518
Cu 324.754	0.8130	ppb	0.2895	35.6	251.111	0.81299
Fe 271.441	182120	ppb	169.196	0.1	328272	-
K 766.491	-1.5679	ppb	0.3162	20.2	340.068	-1.56791
Mg 279.078	507479	ppb	784.621	0.2	1414936	-
Mn 257.610	0.3451	ppb	0.0443	12.8	5299.46	0.34509
Mo 202.032	1.9704	ppb	0.1927	9.8	10.0931	1.97041
Na 330.237	-300.292	ppb	216.333	72.0	-21.3928	-300.29236
Ni 231.604	8.3222	ppb	1.1061	13.3	31.5684	8.32216
Pb 220.353	2.4228	ppb	1.5795	65.2	18.2344	2.42281
Sb 206.834	7.3240	ppb	2.1364	29.2	22.1981	7.32403
Se 196.026	-11.9653	ppb	3.9269	32.8	-8.5761	-11.96530
Sn 189.925	-2.2679	ppb	2.9783	131.3	-13.6396	-2.26792
Sr 216.596	8.8740	ppb	0.4497	5.1	438.113	8.87399
Ti 334.941	1.4117	ppb	0.0477	3.4	2746.60	1.41171
Tl 190.794	-9.7393	ppb	2.2964	23.6	-41.4371	-9.73930
V 292.401	4.2112	ppb	0.3657	8.7	118.857	4.21117
Zn 206.200	12.8892	ppb	1.4531	11.3	29.1175	12.88917

Interf Check AB (ICSAB) **9/25/2013, 11:28:05 AM** **Rack S, Tube 6**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	215.402	216.671	217.537
Al 308.215	522654	520651	520306
As 188.980	103.988	103.957	93.9079
B 249.678	6.0340u	6.9211u	6.1143u
Ba 389.178	492.643	494.461	494.819
Be 313.042	472.425	472.645	474.585
Ca 370.602	486836	483556	480257
Cd 226.502	928.104	927.798	927.466
Co 228.615	471.888	472.039	471.363
Cr 267.716	494.843	496.046	493.813
Cu 324.754	554.679	554.344	557.891
Fe 271.441	182846	182719	182890
K 766.491	-0.3490u	0.2447	-0.7034u
Mg 279.078	507784	507464	510355
Mn 257.610	500.007	498.692	499.237
Mo 202.032	1135.91x	1138.57x	1140.00x
Na 330.237	-616.317u	-424.560u	-706.938u
Ni 231.604	920.750	918.309	922.370
Pb 220.353	50.4000	49.0297	49.9430
Sb 206.834	599.394	609.599	598.850
Se 196.026	48.1263	35.5012	46.2608
Sn 189.925	1052.75	1064.59	1064.73
Sr 216.596	6.5978	6.5529	6.2662
Ti 334.941	2.1539	2.0765	2.0339
Tl 190.794	84.0370	82.0011	77.8492
V 292.401	486.136	486.885	487.818
Zn 206.200	931.574	924.307	934.971

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	216.536b	ppb	1.0738	0.5	18411.6	108.26821
Al 308.215	521203b	ppb	1267.71	0.2	3142561	104.24067

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
As 188.980	100.618b	ppb	5.8109	5.8	87.7418	100.61781
B 249.678	6.3565b	ppb	0.4906	7.7	-256.250	-
Ba 389.178	493.974b	ppb	1.1669	0.2	13496.8	98.79484
Be 313.042	473.218b	ppb	1.1888	0.3	905103	94.64362
Ca 370.602	483550b	ppb	3290	0.7	1466710	96.70995
Cd 226.502	927.789b	ppb	0.3194	0.0	51134.7	92.77894
Co 228.615	471.763b	ppb	0.3549	0.1	6373.48	94.35266
Cr 267.716	494.901b	ppb	1.1178	0.2	28340.6	98.98018
Cu 324.754	555.638b	ppb	1.9586	0.4	36686.0	111.12761
Fe 271.441	182818b	ppb	88.7127	0.0	329601	91.40922
K 766.491	-0.2692b	ppb	0.4791	177.9	395.660	-
Mg 279.078	508534b	ppb	1584.92	0.3	1417866	101.70689
Mn 257.610	499.312b	ppb	0.6609	0.1	132259	99.86240
Mo 202.032	1138.16xb	ppb	2.0743	0.2	9133.11	113.81602
Na 330.237	-582.605b	ppb	144.176	24.7	-46.3699	-
Ni 231.604	920.476b	ppb	2.0443	0.2	3452.60	92.04762
Pb 220.353	49.7909b	ppb	0.6977	1.4	111.746	99.58179
Sb 206.834	602.615b	ppb	6.0551	1.0	974.816	100.43577
Se 196.026	43.2961b	ppb	6.8147	15.7	25.4997	86.59222
Sn 189.925	1060.69b	ppb	6.8733	0.6	1094.42	106.06880
Sr 216.596	6.4723b	ppb	0.1799	2.8	359.889	-
Ti 334.941	2.0881b	ppb	0.0609	2.9	2945.04	-
Tl 190.794	81.2958b	ppb	3.1536	3.9	88.0704	81.29575
V 292.401	486.947b	ppb	0.8426	0.2	13937.6	97.38931
Zn 206.200	930.284b	ppb	5.4476	0.6	1528.18	93.02842

LRA1 (Samp) **9/25/2013, 11:32:42 AM** **Rack S, Tube 7**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-1.2369	-1.0117	-1.5223
Al 308.215	96.3656	96.2522	99.0978
As 188.980	21016.9x	20696.3x	21024.3x
B 249.678	5148.28x	5117.11x	5137.27x
Ba 389.178	-1.2767u	-1.1992u	-0.8051u
Be 313.042	0.1378	0.1288	0.1300
Ca 370.602	-144.7	-180.5	-173.2
Cd 226.502	-1.2851u	-0.9109u	-1.1924u
Co 228.615	10650.0	10549.0	10558.7
Cr 267.716	-2.6442	-2.5502	-2.6048
Cu 324.754	-6.8217u	-7.0198u	-6.9451u
Fe 271.441	-17.9176	-19.7788	-18.0112
K 766.491	-3.6674u	-3.1550u	-3.4110u
Mg 279.078	-17.3829u	-15.3563u	-21.3192u
Mn 257.610	29085.8x	28822.6x	28958.5x
Mo 202.032	2.7693	2.3421	1.7877
Na 330.237	1633.03u	1665.18u	1374.40u
Ni 231.604	10600.7x	10534.4x	10562.4x
Pb 220.353	21404.3x	21277.6x	21337.7x
Sb 206.834	12.9793	7.2750	11.9744
Se 196.026	0.9349	4.7808	4.7818
Sn 189.925	1.3503	-1.3864u	0.3084
Sr 216.596	-14.3211u	-13.8635u	-13.3378u
Ti 334.941	33000.3x	32947.7x	32930.0x

Label	Replicates Concentration		
Tl 190.794	33.8024	39.7228	31.3299
V 292.401	-2.0604	-2.2477	-2.2540
Zn 206.200	1.2056	-0.6621u	0.1702

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.2570b	ppb	0.2559	20.4	35.4073
Al 308.215	97.2385b	ppb	1.6111	1.7	121.160
As 188.980	20912.5xb	ppb	187.239	0.9	18972.5
B 249.678	5134.22xb	ppb	15.8062	0.3	97512.4
Ba 389.178	-1.0937b	ppb	0.2529	23.1	-49.0181
Be 313.042	0.1322b	ppb	0.0049	3.7	-33.1047
Ca 370.602	-166.1b	ppb	18.91	11.4	17317
Cd 226.502	-1.1295b	ppb	0.1948	17.2	-51.2134
Co 228.615	10585.9b	ppb	55.7478	0.5	144612
Cr 267.716	-2.5997b	ppb	0.0472	1.8	93.3367
Cu 324.754	-6.9289b	ppb	0.1000	1.4	-327.261
Fe 271.441	-18.5693b	ppb	1.0486	5.6	1426.57
K 766.491	-3.4112b	ppb	0.2562	7.5	261.165
Mg 279.078	-18.0195b	ppb	3.0320	16.8	-637.393
Mn 257.610	28955.6xb	ppb	131.661	0.5	7367016
Mo 202.032	2.2997b	ppb	0.4922	21.4	22.7264
Na 330.237	1557.54b	ppb	159.409	10.2	5.4030
Ni 231.604	10565.9xb	ppb	33.2874	0.3	39606.0
Pb 220.353	21339.9xb	ppb	63.3646	0.3	42962.6
Sb 206.834	10.7429b	ppb	3.0450	28.3	21.0582
Se 196.026	3.4991b	ppb	2.2207	63.5	9.0065
Sn 189.925	0.0908b	ppb	1.3812	1521.6	-11.4273
Sr 216.596	-13.8408b	ppb	0.4920	3.6	-464.211
Ti 334.941	32959.3xb	ppb	36.5530	0.1	9440327
Tl 190.794	34.9517b	ppb	4.3129	12.3	62.8257
V 292.401	-2.1874b	ppb	0.1100	5.0	478.687
Zn 206.200	0.2379b	ppb	0.9357	393.3	6.3782

LRA2 (Samp) **9/25/2013, 11:37:19 AM** **Rack S, Tube 8**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-1.9819u	-2.6444u	-2.3792u
Al 308.215	832488x	830410x	832051x
As 188.980	49.5652	37.6162	40.6064
B 249.678	39.3498u	39.8878u	35.8012u
Ba 389.178	-21.6571	-20.8065	-23.4332
Be 313.042	-0.0261	-0.0302	-0.0287
Ca 370.602	765310	765649	767396
Cd 226.502	5.8587	6.3647	5.0683
Co 228.615	6.6159	7.0777	8.2643
Cr 267.716	9.2786	8.9462	9.4556
Cu 324.754	-0.7445	-1.4118	-0.9815
Fe 271.441	933263	929919	930015
K 766.491	321.067	320.100	320.169
Mg 279.078	796915	795815	796625
Mn 257.610	8.4936	8.5620	8.1452
Mo 202.032	6.8424	4.1574u	5.9497u
Na 330.237	1156.66u	945.565u	518.434u

Label	Replicates Concentration		
Ni 231.604	15.7042	12.2716	14.9317
Pb 220.353	7.7808	0.8979	7.1559
Sb 206.834	5.2474	11.2776	5.4754
Se 196.026	-38.1464u	-42.7936u	-55.6195u
Sn 189.925	-4.8352u	-3.7412u	-3.2738u
Sr 216.596	45.7489	46.7514	45.6506
Ti 334.941	10.7620	9.6778	8.9695
Tl 190.794	-36.3023u	-44.2219u	-32.6353u
V 292.401	16.0260	15.3604	16.0857
Zn 206.200	-0.4193	-2.7680	1.4313

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-2.3352	ppb	0.3334	14.3	-230.665
Al 308.215	831650x	ppb	1095.43	0.1	5014448
As 188.980	42.5959	ppb	6.2179	14.6	29.2238
B 249.678	38.3462	ppb	2.2204	5.8	-1617.18
Ba 389.178	-21.9656	ppb	1.3402	6.1	2977.16
Be 313.042	-0.0283	ppb	0.0021	7.4	-30.0534
Ca 370.602	766119	ppb	1120	0.1	2274749
Cd 226.502	5.7639	ppb	0.6534	11.3	4209.39
Co 228.615	7.3193	ppb	0.8503	11.6	133.132
Cr 267.716	9.2268	ppb	0.2586	2.8	815.720
Cu 324.754	-1.0459	ppb	0.3383	32.3	418.823
Fe 271.441	931066	ppb	1903.35	0.2	1678197
K 766.491	320.445	ppb	0.5397	0.2	14124.3
Mg 279.078	796451	ppb	569.844	0.1	2220770
Mn 257.610	8.4002	ppb	0.2235	2.7	12198.3
Mo 202.032	5.6498	ppb	1.3674	24.2	-1.7881
Na 330.237	873.551	ppb	325.148	37.2	-165.393
Ni 231.604	14.3025	ppb	1.8007	12.6	76.2499
Pb 220.353	5.2782	ppb	3.8063	72.1	81.0093
Sb 206.834	7.3334	ppb	3.4176	46.6	49.8012
Se 196.026	-45.5198	ppb	9.0500	19.9	-25.9991
Sn 189.925	-3.9501	ppb	0.8014	20.3	-15.2772
Sr 216.596	46.0503	ppb	0.6091	1.3	1992.81
Ti 334.941	9.8031	ppb	0.9028	9.2	6589.70
Tl 190.794	-37.7198	ppb	5.9219	15.7	-148.346
V 292.401	15.8240	ppb	0.4026	2.5	458.089
Zn 206.200	-0.5853	ppb	2.1046	359.6	15.4562

K NA ZN (Samp) **9/25/2013, 11:41:57 AM** **Rack S, Tube 9**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.1174	0.0699	0.0662
Al 308.215	37.4663	35.4601	39.9919
As 188.980	8.8093	7.7966	7.5018
B 249.678	6.9905	6.4852	5.9235
Ba 389.178	0.4633	0.9330	0.6299
Be 313.042	0.0173	0.0155	0.0200
Ca 370.602	41.30	37.94	39.99
Cd 226.502	0.1584	0.1511	0.1098
Co 228.615	-0.2101u	-0.4449u	-0.1395u
Cr 267.716	-0.0021	-0.0047	-0.1107u

Label	Replicates	Concentration	
Cu 324.754	0.4409	0.1263	0.0661
Fe 271.441	38.4975	38.0833	35.7928
K 766.491	43797.1x	43235.6x	43585.7x
Mg 279.078	36.5198	35.4843	35.7806
Mn 257.610	0.1584	0.1829	0.2225
Mo 202.032	0.5185	0.9582	0.4751
Na 330.237	103143x	101657x	102018x
Ni 231.604	1.1955	1.2818	1.1103
Pb 220.353	2.3574	0.1530	1.4884
Sb 206.834	-1.3521u	0.9191	-0.2219u
Se 196.026	2.5604	-1.0782u	-3.0627u
Sn 189.925	0.2175	1.4300	-1.9220u
Sr 216.596	0.7533	-0.0340u	0.1989
Ti 334.941	1.6370	1.4946	1.4665
Tl 190.794	-2.4526u	-0.4875u	-1.7284u
V 292.401	0.0536	0.1868	0.2124
Zn 206.200	32620.2x	32072.1x	32182.5x

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0845b	ppb	0.0285	33.8	-2.9644
Al 308.215	37.6394b	ppb	2.2709	6.0	213.062
As 188.980	8.0359b	ppb	0.6858	8.5	-0.5508
B 249.678	6.4664b	ppb	0.5337	8.3	226.778
Ba 389.178	0.6754b	ppb	0.2381	35.3	-6.9094
Be 313.042	0.0176b	ppb	0.0023	13.1	-245.154
Ca 370.602	39.74b	ppb	1.692	4.3	130.3
Cd 226.502	0.1397b	ppb	0.0262	18.8	13.4749
Co 228.615	-0.2648b	ppb	0.1599	60.4	-7.7776
Cr 267.716	-0.0391b	ppb	0.0620	158.4	17.6061
Cu 324.754	0.2111b	ppb	0.2013	95.3	141.283
Fe 271.441	37.4579b	ppb	1.4568	3.9	80.4946
K 766.491	43539.5xb	ppb	283.638	0.7	1864183
Mg 279.078	35.9282b	ppb	0.5333	1.5	124.826
Mn 257.610	0.1879b	ppb	0.0324	17.2	135.991
Mo 202.032	0.6506b	ppb	0.2673	41.1	9.5582
Na 330.237	102273xb	ppb	775.353	0.8	4253.63
Ni 231.604	1.1959b	ppb	0.0857	7.2	-0.7573
Pb 220.353	1.3329b	ppb	1.1104	83.3	11.6560
Sb 206.834	-0.2183b	ppb	1.1356	520.2	3.3355
Se 196.026	-0.5269b	ppb	2.8518	541.3	-2.3299
Sn 189.925	-0.0915b	ppb	1.6972	1854.9	-11.5725
Sr 216.596	0.3061b	ppb	0.4045	132.1	7.5791
Ti 334.941	1.5327b	ppb	0.0914	6.0	374.604
Tl 190.794	-1.5561b	ppb	0.9938	63.9	-13.5070
V 292.401	0.1509b	ppb	0.0852	56.5	-2.9275
Zn 206.200	32291.6xb	ppb	289.861	0.9	52841.3

Cont Calib Verif (CCV) **9/25/2013, 11:54:55 AM** **Rack 1, Tube 1**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	505.185	499.353	504.404
Al 308.215	4991.04	5011.82	5018.06
As 188.980	496.179	505.069	505.441

Label	Replicates Concentration		
B 249.678	497.381	501.764	500.611
Ba 389.178	5150.80	5159.63	5154.30
Be 313.042	512.394	514.249	513.801
Ca 370.602	5203	5226	5241
Cd 226.502	512.659	514.928	514.911
Co 228.615	519.541	520.700	519.709
Cr 267.716	5224.74	5225.41	5218.20
Cu 324.754	5270.26	5298.77	5216.83
Fe 271.441	5018.06	5012.64	5010.66
K 766.491	10476.0	10525.9	10524.0
Mg 279.078	5089.55	5106.69	5088.68
Mn 257.610	5213.53	5236.45	5237.80
Mo 202.032	522.147	521.831	523.506
Na 330.237	7044.08	7004.39	7146.81
Ni 231.604	2573.17	2591.21	2583.98
Pb 220.353	514.430	519.602	519.532
Sb 206.834	1009.79	1003.50	1016.06
Se 196.026	5132.80	5163.17	5166.19
Sn 189.925	5220.41	5190.54	5213.64
Sr 216.596	2637.40	2645.68	2644.34
Ti 334.941	500.181	501.950	502.624
Tl 190.794	5249.70	5280.08	5259.39
V 292.401	5116.45	5133.31	5120.24
Zn 206.200	2594.17	2596.40	2597.38

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	502.981	ppb	3.1657	0.6	42716.1	100.59615
Al 308.215	5006.97	ppb	14.1486	0.3	29322.5	100.13943
As 188.980	502.230	ppb	5.2436	1.0	447.781	100.44594
B 249.678	499.919	ppb	2.2716	0.5	9575.55	99.98372
Ba 389.178	5154.91	ppb	4.4428	0.1	123802	103.09819
Be 313.042	513.481	ppb	0.9681	0.2	981863	102.69624
Ca 370.602	5223	ppb	19.00	0.4	16065	104.46298
Cd 226.502	514.166	ppb	1.3050	0.3	27935.2	102.83321
Co 228.615	519.983	ppb	0.6262	0.1	7068.84	103.99668
Cr 267.716	5222.78	ppb	3.9804	0.1	298412	104.45567
Cu 324.754	5261.95	ppb	41.6000	0.8	345296	105.23907
Fe 271.441	5013.79	ppb	3.8349	0.1	9171.39	100.27573
K 766.491	10508.7	ppb	28.2694	0.3	450247	105.08668
Mg 279.078	5094.97	ppb	10.1605	0.2	14120.6	101.89942
Mn 257.610	5229.26	ppb	13.6391	0.3	1330584	104.58520
Mo 202.032	522.495	ppb	0.8897	0.2	4189.20	104.49895
Na 330.237	7065.09	ppb	73.4940	1.0	324.001	94.20126
Ni 231.604	2582.79	ppb	9.0767	0.4	9683.94	103.31145
Pb 220.353	517.854	ppb	2.9661	0.6	1052.08	103.57090
Sb 206.834	1009.79	ppb	6.2825	0.6	1708.19	100.97851
Se 196.026	5154.05	ppb	18.4660	0.4	3163.16	103.08109
Sn 189.925	5208.20	ppb	15.6576	0.3	5417.69	104.16393
Sr 216.596	2642.47	ppb	4.4445	0.2	40555.4	105.69893
Ti 334.941	501.585	ppb	1.2618	0.3	143634	100.31704
Tl 190.794	5263.06	ppb	15.5152	0.3	7410.21	105.26114
V 292.401	5123.33	ppb	8.8421	0.2	148721	102.46663
Zn 206.200	2595.98	ppb	1.6460	0.1	4232.55	103.83926

Cont Calib Blank (CCB) **9/25/2013, 11:59:28 AM** **Rack 1, Tube 2**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.2199	-0.1657u	0.3430
Al 308.215	2.4991	0.6536	0.2770
As 188.980	2.5063	0.6845	8.4198
B 249.678	4.3127	4.2710	3.6187
Ba 389.178	1.2098	1.1337	0.3422
Be 313.042	0.0525	0.0495	0.0476
Ca 370.602	4.406	9.631	7.158
Cd 226.502	0.0134	0.1918	0.2152
Co 228.615	-0.1696u	0.4658	-0.0556u
Cr 267.716	0.4229	0.4683	0.6584
Cu 324.754	0.2606	-0.2545u	-0.0112u
Fe 271.441	2.2478	9.5331	1.8734
K 766.491	-1.9577u	-1.8656u	-2.0400u
Mg 279.078	6.2404	4.4689	3.7367
Mn 257.610	0.3660	0.3564	0.4648
Mo 202.032	1.7010	1.4318	1.1179
Na 330.237	-207.145u	-26.3106u	100.706
Ni 231.604	1.5448	1.3903	1.9227
Pb 220.353	0.6661	0.3300	0.5290
Sb 206.834	2.4157	-0.3807u	2.5987
Se 196.026	-2.4535u	-2.7212u	-2.5620u
Sn 189.925	1.6817	0.9361	1.8796
Sr 216.596	0.4174	0.3596	0.4879
Ti 334.941	0.2474	0.3600	0.2256
Tl 190.794	0.2976	2.9321	-0.0866u
V 292.401	0.7122	0.3172	0.3388
Zn 206.200	-0.6308u	-0.5595u	0.4614

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.1324	ppb	0.2654	200.5	1.1034	0.13239
Al 308.215	1.1432	ppb	1.1892	104.0	-7.0234	1.14323
As 188.980	3.8702	ppb	4.0440	104.5	-4.3320	3.87022
B 249.678	4.0675	ppb	0.3892	9.6	181.208	4.06747
Ba 389.178	0.8952	ppb	0.4805	53.7	-1.7597	0.89523
Be 313.042	0.0499	ppb	0.0025	5.0	-171.796	0.04988
Ca 370.602	7.065	ppb	2.614	37.0	32.25	7.06532
Cd 226.502	0.1401	ppb	0.1104	78.8	14.1587	0.14012
Co 228.615	0.0802	ppb	0.3388	422.4	-3.1864	0.08021
Cr 267.716	0.5165	ppb	0.1249	24.2	47.9072	0.51649
Cu 324.754	-0.0017	ppb	0.2577	15300.1	127.332	-0.00168
Fe 271.441	4.5514	ppb	4.3183	94.9	21.2307	4.55140
K 766.491	-1.9544	ppb	0.0873	4.5	323.523	-1.95442
Mg 279.078	4.8153	ppb	1.2873	26.7	38.0732	4.81530
Mn 257.610	0.3957	ppb	0.0600	15.2	189.070	0.39573
Mo 202.032	1.4169	ppb	0.2919	20.6	15.7130	1.41690
Na 330.237	-44.2498	ppb	154.707	349.6	38.3265	-44.24980
Ni 231.604	1.6193	ppb	0.2739	16.9	0.7853	1.61926
Pb 220.353	0.5084	ppb	0.1690	33.2	9.9930	0.50836
Sb 206.834	1.5445	ppb	1.6699	108.1	6.1779	1.54454
Se 196.026	-2.5789	ppb	0.1346	5.2	-3.5896	-2.57891
Sn 189.925	1.4991	ppb	0.4975	33.2	-9.9585	1.49912
Sr 216.596	0.4216	ppb	0.0643	15.3	9.2829	0.42163

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ti 334.941	0.2776	ppb	0.0721	26.0	22.8652	0.27765
Tl 190.794	1.0477	ppb	1.6432	156.8	-9.8321	1.04771
V 292.401	0.4561	ppb	0.2221	48.7	6.5993	0.45606
Zn 206.200	-0.2430	ppb	0.6111	251.5	5.5864	-0.24299

CRQL (Samp) **9/25/2013, 12:08:38 PM** **Rack 1, Tube 3**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	9.0255	8.6113	8.6740
Al 308.215	200.540	200.429	200.990
As 188.980	15.8937	10.0206	14.8630
B 249.678	1.6395	1.5710	1.5580
Ba 389.178	213.691	213.631	212.644
Be 313.042	5.1519	5.1655	5.1483
Ca 370.602	5489	5434	5489
Cd 226.502	5.1646	5.1210	5.2432
Co 228.615	52.2145	53.2180	53.3843
Cr 267.716	10.5726	10.3194	10.1312
Cu 324.754	26.5852	26.6618	26.6514
Fe 271.441	100.658	103.930	96.3364
K 766.491	5463.14	5430.26	5442.30
Mg 279.078	5402.80	5406.64	5386.83
Mn 257.610	15.9465	15.9648	15.9993
Mo 202.032	0.3402	0.5592	0.3542
Na 330.237	5288.32	5332.33	5471.05
Ni 231.604	43.1448	42.6241	42.2540
Pb 220.353	11.4865	11.1257	10.3444
Sb 206.834	58.6957	59.7043	59.7047
Se 196.026	38.6087	36.6579	34.1069
Sn 189.925	-0.2136u	-2.8380u	-1.6604u
Sr 216.596	-0.1953u	0.4051	-0.1304u
Ti 334.941	0.1430	0.0979	0.1274
Tl 190.794	24.0824	25.6950	26.8478
V 292.401	52.7226	52.4353	52.6230
Zn 206.200	62.0713	63.4873	63.7674

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	8.7702	ppb	0.2233	2.5	736.437
Al 308.215	200.653	ppb	0.2972	0.1	1184.89
As 188.980	13.5924	ppb	3.1359	23.1	4.4938
B 249.678	1.5895	ppb	0.0438	2.8	133.945
Ba 389.178	213.322	ppb	0.5884	0.3	5114.44
Be 313.042	5.1552	ppb	0.0091	0.2	9594.85
Ca 370.602	5470	ppb	31.72	0.6	16754
Cd 226.502	5.1762	ppb	0.0619	1.2	287.984
Co 228.615	52.9389	ppb	0.6329	1.2	714.671
Cr 267.716	10.3411	ppb	0.2215	2.1	608.846
Cu 324.754	26.6328	ppb	0.0416	0.2	1874.02
Fe 271.441	100.308	ppb	3.8089	3.8	201.426
K 766.491	5445.23	ppb	16.6346	0.3	233499
Mg 279.078	5398.76	ppb	10.5055	0.2	15078.3
Mn 257.610	15.9702	ppb	0.0268	0.2	4200.62
Mo 202.032	0.4179	ppb	0.1226	29.3	7.5755

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Na 330.237	5363.90	ppb	95.3695	1.8	282.538
Ni 231.604	42.6743	ppb	0.4475	1.0	154.669
Pb 220.353	10.9855	ppb	0.5838	5.3	31.0798
Sb 206.834	59.3682	ppb	0.5824	1.0	99.8805
Se 196.026	36.4578	ppb	2.2576	6.2	20.3763
Sn 189.925	-1.5707	ppb	1.3145	83.7	-13.1534
Sr 216.596	0.0264	ppb	0.3295	1246.0	3.1679
Ti 334.941	0.1227	ppb	0.0229	18.7	3.1794
Tl 190.794	25.5418	ppb	1.3891	5.4	24.9360
V 292.401	52.5936	ppb	0.1459	0.3	1523.65
Zn 206.200	63.1086	ppb	0.9092	1.4	109.204

MS (Samp) **9/25/2013, 12:13:12 PM** **Rack 1, Tube 4**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	47.6897	47.6542	46.6334
Al 308.215	1900.15	1887.64	1877.14
As 188.980	45.5314	40.0756	40.5328
B 249.678	2.3611	1.7388	2.0979
Ba 389.178	2031.60	2025.63	2015.04
Be 313.042	48.9975	48.9529	48.6460
Ca 370.602	4.928u	7.650u	10.76u
Cd 226.502	48.9984	48.9200	48.6532
Co 228.615	502.749	501.974	503.777
Cr 267.716	220.452	220.062	218.258
Cu 324.754	272.835	272.930	270.736
Fe 271.441	964.436	961.978	950.707
K 766.491	-3.4571u	-4.0825u	-4.2516u
Mg 279.078	0.6749u	3.3226u	1.1182u
Mn 257.610	524.106	521.152	518.178
Mo 202.032	-0.2443u	0.4180	0.8797
Na 330.237	-248.484u	-212.786u	-240.097u
Ni 231.604	505.470	502.889	495.811
Pb 220.353	19.0114	20.3076	22.5468
Sb 206.834	91.9138	89.9595	90.0778
Se 196.026	53.2998	47.5398	51.4241
Sn 189.925	-3.7345u	-1.2300u	2.2220
Sr 216.596	-0.1361u	-0.1186u	-0.0239u
Ti 334.941	0.0846	0.0764	0.1164
Tl 190.794	47.3451	47.1308	49.8855
V 292.401	499.607	497.703	495.047
Zn 206.200	507.970	502.313	503.974

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	47.3257	ppb	0.5999	1.3	4022.93
Al 308.215	1888.31	ppb	11.5217	0.6	11267.1
As 188.980	42.0466	ppb	3.0265	7.2	30.3299
B 249.678	2.0659	ppb	0.3124	15.1	140.618
Ba 389.178	2024.09	ppb	8.3880	0.4	48585.8
Be 313.042	48.8655	ppb	0.1914	0.4	93204.3
Ca 370.602	7.780	ppb	2.918	37.5	-22.91
Cd 226.502	48.8572	ppb	0.1810	0.4	2662.52
Co 228.615	502.833	ppb	0.9043	0.2	6824.68

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Cr 267.716	219.591	ppb	1.1704	0.5	12562.5
Cu 324.754	272.167	ppb	1.2401	0.5	17977.0
Fe 271.441	959.040	ppb	7.3207	0.8	1814.19
K 766.491	-3.9304	ppb	0.4186	10.6	238.939
Mg 279.078	1.7052	ppb	1.4181	83.2	17.9692
Mn 257.610	521.146	ppb	2.9639	0.6	132682
Mo 202.032	0.3511	ppb	0.5649	160.9	6.0600
Na 330.237	-233.789	ppb	18.6662	8.0	22.9160
Ni 231.604	501.390	ppb	5.0007	1.0	1874.45
Pb 220.353	20.6219	ppb	1.7886	8.7	50.4753
Sb 206.834	90.6503	ppb	1.0958	1.2	154.021
Se 196.026	50.7546	ppb	2.9378	5.8	29.3090
Sn 189.925	-0.9142	ppb	2.9908	327.1	-12.4743
Sr 216.596	-0.0929	ppb	0.0604	65.0	-9.3976
Ti 334.941	0.0924	ppb	0.0211	22.8	-29.9985
Tl 190.794	48.1205	ppb	1.5323	3.2	58.5267
V 292.401	497.452	ppb	2.2903	0.5	14458.8
Zn 206.200	504.753	ppb	2.9077	0.6	830.987

CCV (Samp) **9/25/2013, 12:17:47 PM** **Rack 1, Tube 5**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	522.106	523.162	518.516
Al 308.215	263063	264872	265084
As 188.980	2478.91	2488.89	2512.12
B 249.678	544.444	546.409	547.162
Ba 389.178	4843.78	4855.44	4856.51
Be 313.042	479.685	479.293	477.425
Ca 370.602	246718	247960	249541
Cd 226.502	468.686	469.169	468.866
Co 228.615	476.632	477.730	476.424
Cr 267.716	4865.89	4860.14	4854.05
Cu 324.754	5323.72	5395.79	5416.78
Fe 271.441	245335	246133	246302
K 766.491	32555.3	32635.2	32572.3
Mg 279.078	255548	255307	254954
Mn 257.610	4887.93	4908.33	4919.32
Mo 202.032	485.606	488.874	487.274
Na 330.237	29107.4	29287.0	29090.9
Ni 231.604	2334.37	2331.15	2326.70
Pb 220.353	4822.40	4838.78	4850.75
Sb 206.834	987.668	1005.79	1003.15
Se 196.026	5069.94	5079.05	5063.46
Sn 189.925	4783.88	4755.58	4781.93
Sr 216.596	2547.73	2552.10	2550.66
Ti 334.941	483.149	485.516	486.150
Tl 190.794	4653.43	4656.73	4666.08
V 292.401	4810.72	4831.59	4822.32
Zn 206.200	2349.75	2350.15	2349.14

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	521.261	ppb	2.4357	0.5	44267.4
Al 308.215	264340	ppb	1110.81	292	1593032

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	2493.31	ppb	17.0385	0.7	2255.07
B 249.678	546.005	ppb	1.4036	0.3	9818.39
Ba 389.178	4851.91	ppb	7.0606	0.1	117559
Be 313.042	478.801	ppb	1.2077	0.3	915617
Ca 370.602	248073	ppb	1415	0.6	741308
Cd 226.502	468.907	ppb	0.2442	0.1	26482.8
Co 228.615	476.929	ppb	0.7018	0.1	6493.62
Cr 267.716	4860.03	ppb	5.9222	0.1	277757
Cu 324.754	5378.76	ppb	48.8135	0.9	353055
Fe 271.441	245923	ppb	516.111	0.2	443385
K 766.491	32587.6	ppb	42.1101	0.1	1395371
Mg 279.078	255270	ppb	298.978	0.1	711679
Mn 257.610	4905.19	ppb	15.9238	0.3	1251116
Mo 202.032	487.251	ppb	1.6340	0.3	3893.54
Na 330.237	29161.8	ppb	108.805	0.4	1265.28
Ni 231.604	2330.74	ppb	3.8550	0.2	8745.61
Pb 220.353	4837.31	ppb	14.2322	0.3	9765.08
Sb 206.834	998.870	ppb	9.7911	1.0	1694.36
Se 196.026	5070.81	ppb	7.8309	0.2	3112.99
Sn 189.925	4773.80	ppb	15.8042	0.3	4964.98
Sr 216.596	2550.16	ppb	2.2245	0.1	39480.4
Ti 334.941	484.939	ppb	1.5817	0.3	140067
Tl 190.794	4658.75	ppb	6.5612	0.1	6536.45
V 292.401	4821.54	ppb	10.4575	0.2	139966
Zn 206.200	2349.68	ppb	0.5080	0.0	3833.71

X (Samp) **9/25/2013, 12:22:22 PM** **Rack 1, Tube 6**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.5536	0.4364	0.5788
Al 308.215	9.3655	15.2852	17.1339
As 188.980	9.4106	5.6007	6.7045
B 249.678	36.1652	37.0256	36.7633
Ba 389.178	53.9972	54.0426	54.1462
Be 313.042	0.0228	0.0264	0.0348
Ca 370.602	28838	28740	28669
Cd 226.502	-0.0635u	0.1207	-0.0404u
Co 228.615	-0.1272u	-0.6125u	-0.2526u
Cr 267.716	0.4174	0.5121	0.5092
Cu 324.754	1.8200	2.2565	2.4206
Fe 271.441	19.5222	23.0025	28.2558
K 766.491	2716.51	2718.30	2726.80
Mg 279.078	17035.8	17039.7	17039.3
Mn 257.610	-0.2894	-0.1936	-0.0643
Mo 202.032	1.6053	1.5215	1.4922
Na 330.237	25279.5	25541.2	25524.8
Ni 231.604	2.2970	2.4366	1.6464
Pb 220.353	3.4264	2.9581	4.1699
Sb 206.834	1.6344	0.7469	2.4536
Se 196.026	5.4502	6.0045	2.0998
Sn 189.925	-0.1443u	-0.2780u	2.9486
Sr 216.596	564.838	565.219	564.654
Ti 334.941	-0.0537	-0.0619	-0.0456

Label	Replicates Concentration		
Tl 190.794	-0.2677u	1.5458	1.4392
V 292.401	0.5326	0.2725	0.8904
Zn 206.200	37.0590	36.9090	35.2679

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.5229	ppb	0.0760	14.5	5.3488
Al 308.215	13.9282	ppb	4.0581	29.1	70.0646
As 188.980	7.2386	ppb	1.9603	27.1	-1.2749
B 249.678	36.6514	ppb	0.4410	1.2	799.371
Ba 389.178	54.0620	ppb	0.0764	0.1	1321.47
Be 313.042	0.0280	ppb	0.0062	22.1	-207.120
Ca 370.602	28749	ppb	84.61	0.3	88040
Cd 226.502	0.0056	ppb	0.1003	1789.8	7.0613
Co 228.615	-0.3307	ppb	0.2519	76.2	-8.7685
Cr 267.716	0.4796	ppb	0.0538	11.2	46.3041
Cu 324.754	2.1657	ppb	0.3104	14.3	269.533
Fe 271.441	23.5935	ppb	4.3967	18.6	55.4993
K 766.491	2720.54	ppb	5.4974	0.2	116864
Mg 279.078	17038.3	ppb	2.1572	0.0	47534.6
Mn 257.610	-0.1824	ppb	0.1130	61.9	196.103
Mo 202.032	1.5397	ppb	0.0587	3.8	16.6977
Na 330.237	25448.5	ppb	146.613	0.6	1192.99
Ni 231.604	2.1266	ppb	0.4218	19.8	2.6909
Pb 220.353	3.5182	ppb	0.6111	17.4	16.0553
Sb 206.834	1.6117	ppb	0.8536	53.0	6.2843
Se 196.026	4.5182	ppb	2.1126	46.8	0.7667
Sn 189.925	0.8421	ppb	1.8255	216.8	-10.6177
Sr 216.596	564.904	ppb	0.2879	0.1	8690.08
Ti 334.941	-0.0537	ppb	0.0081	15.1	5.2257
Tl 190.794	0.9057	ppb	1.0177	112.4	-10.0356
V 292.401	0.5652	ppb	0.3102	54.9	9.7840
Zn 206.200	36.4120	ppb	0.9936	2.7	65.5614

X (Samp) **9/25/2013, 12:26:57 PM** **Rack 1, Tube 7**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.0884u	0.1015	0.1443
Al 308.215	3.7260	4.9188	8.1696
As 188.980	5.4284	1.5461	4.8903
B 249.678	8.5249	9.1533	8.3683
Ba 389.178	10.9237	10.7094	11.0076
Be 313.042	0.0146	0.0151	0.0274
Ca 370.602	5794	5838	5801
Cd 226.502	0.0078	0.0659	-0.0171u
Co 228.615	0.3127	0.1407	0.1470
Cr 267.716	0.1113	0.0678	0.3683
Cu 324.754	0.1507	0.3905	0.7623
Fe 271.441	-1.6380u	5.1519	10.2442
K 766.491	512.360	517.636	515.298
Mg 279.078	3372.27	3395.89	3374.38
Mn 257.610	-0.1062	0.0256	0.1379
Mo 202.032	0.6176	0.0262	1.2924
Na 330.237	5040.58	4986.65	4863.99

Label	Replicates Concentration		
Ni 231.604	0.9339	1.2793	1.7054
Pb 220.353	2.0044	1.8988	1.3448
Sb 206.834	0.7130	0.4675	-3.0280u
Se 196.026	3.5629	0.5344	5.5166
Sn 189.925	0.2122	0.8699	-0.9081u
Sr 216.596	114.442	115.428	114.596
Ti 334.941	0.0378	0.0589	0.1274
Tl 190.794	0.3345	-0.3668u	1.7094
V 292.401	-0.0685u	0.2051	0.2320
Zn 206.200	10.6695	9.5658	10.0302

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0524	ppb	0.1238	236.2	-11.5562
Al 308.215	5.6048	ppb	2.2999	41.0	19.8882
As 188.980	3.9549	ppb	2.1034	53.2	-4.2547
B 249.678	8.6821	ppb	0.4154	4.8	268.762
Ba 389.178	10.8802	ppb	0.1538	1.4	247.229
Be 313.042	0.0190	ppb	0.0072	38.1	-229.402
Ca 370.602	5811	ppb	23.29	0.4	17804
Cd 226.502	0.0189	ppb	0.0426	226.0	7.6018
Co 228.615	0.2001	ppb	0.0976	48.8	-1.5369
Cr 267.716	0.1825	ppb	0.1624	89.0	28.9224
Cu 324.754	0.4345	ppb	0.3082	70.9	155.924
Fe 271.441	4.5860	ppb	5.9613	130.0	21.3077
K 766.491	515.098	ppb	2.6438	0.5	22456.8
Mg 279.078	3380.85	ppb	13.0721	0.4	9451.88
Mn 257.610	0.0191	ppb	0.1221	639.3	123.809
Mo 202.032	0.6454	ppb	0.6336	98.2	9.5184
Na 330.237	4963.74	ppb	90.4964	1.8	265.124
Ni 231.604	1.3062	ppb	0.3864	29.6	-0.3897
Pb 220.353	1.7493	ppb	0.3543	20.3	12.4930
Sb 206.834	-0.6158	ppb	2.0926	339.8	2.6950
Se 196.026	3.2046	ppb	2.5104	78.3	-0.0397
Sn 189.925	0.0580	ppb	0.8990	1550.2	-11.4557
Sr 216.596	114.822	ppb	0.5308	0.5	1768.58
Ti 334.941	0.0747	ppb	0.0469	62.7	-19.9319
Tl 190.794	0.5591	ppb	1.0562	188.9	-10.5200
V 292.401	0.1229	ppb	0.1663	135.3	-2.9388
Zn 206.200	10.0885	ppb	0.5541	5.5	22.4921

X (Samp) **9/25/2013, 12:31:32 PM** **Rack 1, Tube 8**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	55.4734	54.6089	54.4679
Al 308.215	1925.10	1914.57	1916.58
As 188.980	198.729	196.624	197.738
B 249.678	492.650	491.545	493.333
Ba 389.178	252.415	250.559	250.663
Be 313.042	48.5828	48.5403	48.4407
Ca 370.602	30658	30523	30488
Cd 226.502	48.8865	48.6629	49.0324
Co 228.615	194.379	195.566	193.613
Cr 267.716	196.488	196.659	196.310

Label	Replicates	Concentration	
Cu 324.754	202.205	201.482	201.009
Fe 271.441	1920.04	1920.89	1914.33
K 766.491	4856.33	4837.36	4845.20
Mg 279.078	19052.0	19031.2	19052.7
Mn 257.610	201.801	201.260	201.478
Mo 202.032	197.885	195.497	198.994
Na 330.237	27751.7	27637.4	27772.3
Ni 231.604	193.597	193.824	193.525
Pb 220.353	195.907	194.947	194.095
Sb 206.834	185.057	181.915	185.240
Se 196.026	204.681	188.867	192.883
Sn 189.925	199.134	194.275	196.776
Sr 216.596	761.651	760.843	761.235
Ti 334.941	194.847	193.696	193.679
Tl 190.794	189.714	192.139	189.320
V 292.401	196.044	195.024	195.025
Zn 206.200	232.783	230.540	231.839

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	54.8501	ppb	0.5444	1.0	4620.38
Al 308.215	1918.75	ppb	5.5875	0.3	11524.7
As 188.980	197.697	ppb	1.0530	0.5	171.510
B 249.678	492.509	ppb	0.9022	0.2	9443.24
Ba 389.178	251.212	ppb	1.0430	0.4	6065.55
Be 313.042	48.5213	ppb	0.0729	0.2	92533.5
Ca 370.602	30556	ppb	89.45	0.3	93536
Cd 226.502	48.8606	ppb	0.1861	0.4	2666.73
Co 228.615	194.519	ppb	0.9845	0.5	2636.53
Cr 267.716	196.485	ppb	0.1744	0.1	11245.3
Cu 324.754	201.565	ppb	0.6022	0.3	13356.5
Fe 271.441	1918.42	ppb	3.5671	0.2	3499.42
K 766.491	4846.30	ppb	9.5347	0.2	207861
Mg 279.078	19045.3	ppb	12.2067	0.1	53126.4
Mn 257.610	201.513	ppb	0.2724	0.1	51535.6
Mo 202.032	197.459	ppb	1.7870	0.9	1589.50
Na 330.237	27720.5	ppb	72.6972	0.3	1292.29
Ni 231.604	193.649	ppb	0.1558	0.1	720.757
Pb 220.353	194.983	ppb	0.9068	0.5	401.261
Sb 206.834	184.071	ppb	1.8689	1.0	300.801
Se 196.026	195.477	ppb	8.2201	4.2	118.047
Sn 189.925	196.728	ppb	2.4298	1.2	193.583
Sr 216.596	761.243	ppb	0.4041	0.1	11702.4
Ti 334.941	194.074	ppb	0.6695	0.3	55617.8
Tl 190.794	190.391	ppb	1.5263	0.8	257.621
V 292.401	195.364	ppb	0.5886	0.3	5636.45
Zn 206.200	231.720	ppb	1.1264	0.5	384.356

X (Samp) **9/25/2013, 12:36:09 PM** **Rack 1, Tube 9**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	25.7259	24.8580	25.0818
Al 308.215	2156.93	2156.95	2163.87
As 188.980	45.0641	48.1113	47.9200

Label	Replicates Concentration		
B 249.678	117.422	117.872	117.892
Ba 389.178	95.9145	96.2700	96.3351
Be 313.042	21.6357	21.6953	21.7316
Ca 370.602	30504	30518	30564
Cd 226.502	21.6947	21.4681	21.6818
Co 228.615	21.5304	21.6117	21.6343
Cr 267.716	44.7010	44.9195	45.0397
Cu 324.754	47.1362	46.4860	46.7056
Fe 271.441	2155.24	2159.42	2164.86
K 766.491	4991.56	4995.44	4997.76
Mg 279.078	18880.5	18893.3	18938.7
Mn 257.610	225.809	226.262	226.513
Mo 202.032	44.1747	44.6109	44.1500
Na 330.237	27122.8	27414.4	27432.1
Ni 231.604	45.3160	45.3615	44.7831
Pb 220.353	22.1194	24.5607	22.8143
Sb 206.834	20.7463	21.7139	20.5025
Se 196.026	39.8462	44.3128	43.5733
Sn 189.925	84.5838	82.9360	84.6346
Sr 216.596	597.657	599.390	599.783
Ti 334.941	42.8320	42.7486	42.9998
Tl 190.794	17.1841	16.9386	17.2508
V 292.401	44.2455	44.2944	44.0983
Zn 206.200	80.2895	78.6933	80.7627

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	25.2219	ppb	0.4506	1.8	2106.82
Al 308.215	2159.25	ppb	4.0040	0.2	12999.4
As 188.980	47.0318	ppb	1.7067	3.6	34.8245
B 249.678	117.729	ppb	0.2656	0.2	2332.04
Ba 389.178	96.1732	ppb	0.2264	0.2	2341.29
Be 313.042	21.6875	ppb	0.0484	0.2	41224.2
Ca 370.602	30529	ppb	31.51	0.1	93356
Cd 226.502	21.6149	ppb	0.1272	0.6	1188.82
Co 228.615	21.5921	ppb	0.0547	0.3	288.850
Cr 267.716	44.8868	ppb	0.1717	0.4	2584.89
Cu 324.754	46.7759	ppb	0.3308	0.7	3198.01
Fe 271.441	2159.84	ppb	4.8235	0.2	3909.40
K 766.491	4994.92	ppb	3.1344	0.1	214222
Mg 279.078	18904.2	ppb	30.5910	0.2	52732.4
Mn 257.610	226.195	ppb	0.3564	0.2	57814.6
Mo 202.032	44.3119	ppb	0.2593	0.6	359.967
Na 330.237	27323.1	ppb	173.673	0.6	1276.68
Ni 231.604	45.1535	ppb	0.3216	0.7	164.126
Pb 220.353	23.1648	ppb	1.2579	5.4	55.7068
Sb 206.834	20.9876	ppb	0.6407	3.1	37.7516
Se 196.026	42.5775	ppb	2.3940	5.6	24.2054
Sn 189.925	84.0515	ppb	0.9663	1.1	76.1243
Sr 216.596	598.943	ppb	1.1312	0.2	9214.40
Ti 334.941	42.8601	ppb	0.1280	0.3	12305.8
Tl 190.794	17.1245	ppb	0.1644	1.0	12.5858
V 292.401	44.2127	ppb	0.1021	0.2	1270.68
Zn 206.200	79.9152	ppb	1.0843	1.4	136.586

X (Samp) **9/25/2013, 12:40:45 PM** **Rack 1, Tube 10**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	25.3912	25.1477	25.5755
Al 308.215	2165.47	2176.11	2175.16
As 188.980	50.5596	44.0885	41.4772
B 249.678	117.065	117.090	118.364
Ba 389.178	95.8551	95.4737	95.1455
Be 313.042	21.9223	21.8811	21.9333
Ca 370.602	29839	29921	29927
Cd 226.502	21.8553	21.8961	21.8969
Co 228.615	22.1413	21.8650	22.0995
Cr 267.716	45.0934	45.3048	45.3011
Cu 324.754	49.4993	48.9915	49.1090
Fe 271.441	2161.19	2167.27	2166.79
K 766.491	4968.43	4981.43	4978.97
Mg 279.078	18652.0	18655.8	18707.9
Mn 257.610	227.382	228.071	228.226
Mo 202.032	44.5276	45.1403	45.1950
Na 330.237	27027.8	27070.9	27103.6
Ni 231.604	45.0554	44.9063	46.7552
Pb 220.353	24.3195	24.2604	23.1432
Sb 206.834	22.6817	20.4204	24.7112
Se 196.026	41.5137	38.1009	44.7180
Sn 189.925	86.4195	83.7166	87.6013
Sr 216.596	589.461	589.052	589.398
Ti 334.941	42.8907	43.0456	43.0224
Tl 190.794	17.0053	15.6383	13.5325
V 292.401	44.0034	44.4945	44.5785
Zn 206.200	79.7958	79.6785	80.5278

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	25.3715	ppb	0.2146	0.8	2119.90
Al 308.215	2172.25	ppb	5.8889	0.3	13077.7
As 188.980	45.3751	ppb	4.6759	10.3	33.3207
B 249.678	117.506	ppb	0.7429	0.6	2327.79
Ba 389.178	95.4914	ppb	0.3551	0.4	2324.26
Be 313.042	21.9122	ppb	0.0275	0.1	41653.9
Ca 370.602	29896	ppb	48.87	0.2	91417
Cd 226.502	21.8828	ppb	0.0238	0.1	1203.41
Co 228.615	22.0353	ppb	0.1489	0.7	294.853
Cr 267.716	45.2331	ppb	0.1210	0.3	2604.68
Cu 324.754	49.2000	ppb	0.2659	0.5	3357.07
Fe 271.441	2165.08	ppb	3.3804	0.2	3918.91
K 766.491	4976.27	ppb	6.9079	0.1	213424
Mg 279.078	18671.9	ppb	31.2101	0.2	52084.7
Mn 257.610	227.893	ppb	0.4491	0.2	58244.5
Mo 202.032	44.9543	ppb	0.3706	0.8	365.125
Na 330.237	27067.5	ppb	38.0178	0.1	1265.09
Ni 231.604	45.5723	ppb	1.0271	2.3	165.697
Pb 220.353	23.9077	ppb	0.6627	2.8	57.2024
Sb 206.834	22.6045	ppb	2.1464	9.5	40.3591
Se 196.026	41.4442	ppb	3.3091	8.0	23.5105
Sn 189.925	85.9125	ppb	1.9914	2.3	78.0639
Sr 216.596	589.304	ppb	0.2205	2.8	9066.15

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ti 334.941	42.9862	ppb	0.0835	0.2	12340.8
Tl 190.794	15.3920	ppb	1.7495	11.4	10.1422
V 292.401	44.3588	ppb	0.3106	0.7	1274.78
Zn 206.200	80.0007	ppb	0.4602	0.6	136.725

X (Samp) **9/25/2013, 12:45:21 PM** **Rack 1, Tube 11**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.1480u	-0.1338u	-0.2207u
Al 308.215	6.2004	4.5923	6.8881
As 188.980	0.5126	-0.4563u	-0.4778u
B 249.678	36.4609	36.0325	35.8064
Ba 389.178	55.3692	55.1345	54.0512
Be 313.042	0.0126	0.0173	0.0115
Ca 370.602	9949	9918	9917
Cd 226.502	0.0721	0.1207	0.0371
Co 228.615	-0.5453u	-0.0467u	0.4395
Cr 267.716	0.1189	0.1985	0.1346
Cu 324.754	19.7985	19.9547	19.7996
Fe 271.441	19.1301	20.3794	14.3000
K 766.491	3487.80	3482.96	3482.81
Mg 279.078	3287.42	3269.30	3277.54
Mn 257.610	2.5287	2.5194	2.5399
Mo 202.032	0.9979	0.7791	0.6687
Na 330.237	22089.0	22091.5	22236.2
Ni 231.604	3.1344	1.8235	3.5088
Pb 220.353	3.1946	3.7466	2.9924
Sb 206.834	-0.4687u	0.5821	-1.6049u
Se 196.026	-2.7699u	-4.3703u	-2.3229u
Sn 189.925	-3.3942u	-0.4773u	0.6298
Sr 216.596	92.0179	91.5969	92.1776
Ti 334.941	0.0972	0.0393	-0.0000
Tl 190.794	-0.0717u	1.9477	-1.1416u
V 292.401	0.6120	0.7123	0.6557
Zn 206.200	9.6390	9.1440	9.4461

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1675	ppb	0.0466	27.8	-29.1354
Al 308.215	5.8936	ppb	1.1782	20.0	21.5625
As 188.980	-0.1405	ppb	0.5657	402.6	-7.9721
B 249.678	36.0999	ppb	0.3324	0.9	788.925
Ba 389.178	54.8516	ppb	0.7030	1.3	1302.90
Be 313.042	0.0138	ppb	0.0031	22.3	-239.934
Ca 370.602	9928	ppb	17.96	0.2	30409
Cd 226.502	0.0766	ppb	0.0419	54.7	10.6661
Co 228.615	-0.0508	ppb	0.4924	968.6	-4.9489
Cr 267.716	0.1507	ppb	0.0422	28.0	27.4551
Cu 324.754	19.8509	ppb	0.0899	0.5	1429.76
Fe 271.441	17.9365	ppb	3.2107	17.9	45.3402
K 766.491	3484.52	ppb	2.8377	0.1	149568
Mg 279.078	3278.08	ppb	9.0712	0.3	9165.28
Mn 257.610	2.5293	ppb	0.0103	0.4	761.518
Mo 202.032	0.8153	ppb	0.1676	20.6	10.8803

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Na 330.237	22138.9	ppb	84.2866	0.4	1043.37
Ni 231.604	2.8223	ppb	0.8850	31.4	5.2998
Pb 220.353	3.3112	ppb	0.3904	11.8	15.6399
Sb 206.834	-0.4972	ppb	1.0938	220.0	2.8817
Se 196.026	-3.1544	ppb	1.0765	34.1	-3.9420
Sn 189.925	-1.0805	ppb	2.0787	192.4	-12.6332
Sr 216.596	91.9308	ppb	0.3000	0.3	1417.31
Ti 334.941	0.0455	ppb	0.0489	107.5	-30.0489
Tl 190.794	0.2448	ppb	1.5688	640.8	-10.9668
V 292.401	0.6600	ppb	0.0503	7.6	12.5178
Zn 206.200	9.4097	ppb	0.2495	2.7	21.3817

XX (Samp) **9/25/2013, 12:49:58 PM** **Rack 1, Tube 12**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	0.4392	-0.0351u	0.3205
Al 308.215	9.7439	7.2479	8.9462
As 188.980	2.3767	0.1985	-2.8056u
B 249.678	36.6540	36.6511	36.2593
Ba 389.178	45.9730	46.2989	47.4520
Be 313.042	-0.0039u	0.0067	0.0012
Ca 370.602	10558	10611	10487
Cd 226.502	0.0274	0.0231	0.0580
Co 228.615	0.3068	0.1892	-0.1996u
Cr 267.716	0.1172	0.1847	0.1808
Cu 324.754	1.5116	1.8326	2.0773
Fe 271.441	128.693	135.082	131.606
K 766.491	3481.25	3482.28	3462.36
Mg 279.078	2974.04	2967.32	2945.21
Mn 257.610	55.8159	55.9246	55.3521
Mo 202.032	0.7895	0.4923	0.5879
Na 330.237	23211.9	23139.5	22654.3
Ni 231.604	1.9173	1.8979	0.6377
Pb 220.353	3.8947	1.6509	1.6538
Sb 206.834	0.7986	-2.5612u	-0.9033u
Se 196.026	-3.2488u	4.4162	-3.6427u
Sn 189.925	-2.9152u	-1.9595u	1.5695
Sr 216.596	89.3293	88.9291	88.1100
Ti 334.941	0.0096	0.0396	0.0410
Tl 190.794	0.3902	0.3855	0.3310
V 292.401	0.2879	0.4505	0.7715
Zn 206.200	0.5817	0.9536	1.4777

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.2415	ppb	0.2468	102.2	6.1215
Al 308.215	8.6460	ppb	1.2748	14.7	38.1640
As 188.980	-0.0768	ppb	2.6021	3388.0	-7.9157
B 249.678	36.5215	ppb	0.2270	0.6	796.626
Ba 389.178	46.5747	ppb	0.7771	1.7	1103.43
Be 313.042	0.0013	ppb	0.0053	403.0	-263.702
Ca 370.602	10552	ppb	62.56	0.6	32313
Cd 226.502	0.0361	ppb	0.0190	52.6	8.9265
Co 228.615	0.0988	ppb	0.2650	268.0	-2.9052

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Cr 267.716	0.1609	ppb	0.0379	23.6	28.3567
Cu 324.754	1.8072	ppb	0.2837	15.7	246.023
Fe 271.441	131.794	ppb	3.1984	2.4	250.578
K 766.491	3475.30	ppb	11.2201	0.3	149173
Mg 279.078	2962.19	ppb	15.0824	0.5	8283.35
Mn 257.610	55.6975	ppb	0.3040	0.5	14286.1
Mo 202.032	0.6232	ppb	0.1517	24.3	9.3324
Na 330.237	23001.9	ppb	303.224	1.3	1082.56
Ni 231.604	1.4843	ppb	0.7333	49.4	0.2826
Pb 220.353	2.3998	ppb	1.2947	53.9	13.8283
Sb 206.834	-0.8886	ppb	1.6799	189.0	2.2586
Se 196.026	-0.8251	ppb	4.5434	550.6	-2.4957
Sn 189.925	-1.1018	ppb	2.3622	214.4	-12.6547
Sr 216.596	88.7895	ppb	0.6215	0.7	1369.29
Ti 334.941	0.0301	ppb	0.0177	58.9	-35.9785
Tl 190.794	0.3689	ppb	0.0330	8.9	-10.8361
V 292.401	0.5033	ppb	0.2461	48.9	7.9932
Zn 206.200	1.0043	ppb	0.4501	44.8	7.6301

Cont Calib Verif (CCV) **9/25/2013, 12:54:33 PM** **Rack 1, Tube 13**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	505.814	507.652	500.381
Al 308.215	5025.42	4985.23	4984.02
As 188.980	503.849	505.398	495.564
B 249.678	502.587	500.458	500.192
Ba 389.178	5162.21	5132.69	5115.59
Be 313.042	516.056	514.913	511.170
Ca 370.602	5229	5177	5182
Cd 226.502	515.299	514.613	513.227
Co 228.615	521.492	522.122	519.118
Cr 267.716	5250.18	5228.74	5205.70
Cu 324.754	5325.09	5232.33	5196.86
Fe 271.441	5025.08	5001.12	4984.47
K 766.491	10625.6	10553.1	10478.1
Mg 279.078	5127.42	5106.66	5095.64
Mn 257.610	5242.33	5227.75	5205.90
Mo 202.032	520.573	521.178	521.185
Na 330.237	7234.34	7011.28	7013.70
Ni 231.604	2586.91	2571.62	2560.68
Pb 220.353	514.733	518.275	514.333
Sb 206.834	1014.32	1005.04	1008.32
Se 196.026	5200.34	5182.08	5177.36
Sn 189.925	5204.74	5167.30	5172.22
Sr 216.596	2643.28	2639.98	2631.50
Ti 334.941	504.102	500.055	498.606
Tl 190.794	5262.52	5257.58	5239.30
V 292.401	5159.75	5130.71	5108.06
Zn 206.200	2580.77	2587.89	2580.66

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	504.616	ppb	3.7808	0.7	42855.2	100.92311
Al 308.215	4998.23	ppb	23.5582	30.1	29268.3	99.96450

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
As 188.980	501.603	ppb	5.2875	1.1	447.213	100.32066
B 249.678	501.079	ppb	1.3130	0.3	9597.59	100.21577
Ba 389.178	5136.83	ppb	23.5833	0.5	123368	102.73658
Be 313.042	514.046	ppb	2.5558	0.5	982944	102.80925
Ca 370.602	5196	ppb	28.81	0.6	15983	103.91734
Cd 226.502	514.380	ppb	1.0552	0.2	27946.7	102.87590
Co 228.615	520.911	ppb	1.5843	0.3	7081.48	104.18211
Cr 267.716	5228.21	ppb	22.2463	0.4	298722	104.56412
Cu 324.754	5251.43	ppb	66.2177	1.3	344605	105.02854
Fe 271.441	5003.55	ppb	20.4147	0.4	9153.15	100.07109
K 766.491	10552.3	ppb	73.7578	0.7	452115	105.52290
Mg 279.078	5109.91	ppb	16.1381	0.3	14162.2	102.19813
Mn 257.610	5225.33	ppb	18.3342	0.4	1329584	104.50656
Mo 202.032	520.978	ppb	0.3513	0.1	4177.01	104.19568
Na 330.237	7086.44	ppb	128.090	1.8	325.096	94.48588
Ni 231.604	2573.07	ppb	13.1767	0.5	9647.49	102.92285
Pb 220.353	515.781	ppb	2.1695	0.4	1047.90	103.15611
Sb 206.834	1009.23	ppb	4.7050	0.5	1707.38	100.92272
Se 196.026	5186.59	ppb	12.1384	0.2	3183.14	103.73189
Sn 189.925	5181.42	ppb	20.3470	0.4	5389.78	103.62840
Sr 216.596	2638.25	ppb	6.0730	0.2	40490.7	105.53018
Ti 334.941	500.921	ppb	2.8488	0.6	143444	100.18425
Tl 190.794	5253.14	ppb	12.2308	0.2	7396.23	105.06272
V 292.401	5132.84	ppb	25.9087	0.5	148998	102.65681
Zn 206.200	2583.11	ppb	4.1422	0.2	4211.46	103.32424

Cont Calib Blank (CCB) **9/25/2013, 12:59:07 PM** **Rack 1, Tube 14**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.0753u	-0.0550u	0.4331
Al 308.215	-2.6458u	-0.2130u	-1.3361u
As 188.980	6.3915	5.9254	1.2959
B 249.678	2.8679	2.4142	2.3248
Ba 389.178	0.6400	0.5203	1.3707
Be 313.042	0.0260	0.0293	0.0257
Ca 370.602	7.710	-0.9967u	4.112
Cd 226.502	0.0430	0.0384	-0.0070u
Co 228.615	-0.6200u	-0.2321u	0.3283
Cr 267.716	0.1549	0.3610	0.2587
Cu 324.754	0.3524	-0.0301u	-0.2553u
Fe 271.441	-3.4426u	-2.7433u	0.0888
K 766.491	-2.3986u	-2.5419u	-2.1485u
Mg 279.078	0.4168	2.9544	3.1677
Mn 257.610	0.0534	0.0414	0.0902
Mo 202.032	1.5440	1.3204	1.8360
Na 330.237	-376.709u	-179.937u	-62.4357u
Ni 231.604	0.9134	1.2214	0.7557
Pb 220.353	1.4067	2.3790	3.3581
Sb 206.834	2.7173	3.7791	3.6136
Se 196.026	1.5905	-1.6686u	1.8586
Sn 189.925	-0.8164u	-0.1836u	0.5681
Sr 216.596	-0.1095u	0.2967	0.2082
Ti 334.941	0.1601	0.1623	0.1355

Label	Replicates Concentration		
Tl 190.794	0.5251	-1.2043u	-1.0146u
V 292.401	0.5590	0.2091	0.3072
Zn 206.200	-0.3473u	-1.0215u	-0.2566u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.1009	ppb	0.2879	285.2	-1.5718	0.10093
Al 308.215	-1.3983	ppb	1.2176	87.1	-22.3111	-1.39832
As 188.980	4.5376	ppb	2.8171	62.1	-3.7263	4.53759
B 249.678	2.5356	ppb	0.2912	11.5	152.151	2.53565
Ba 389.178	0.8437	ppb	0.4603	54.6	-3.0095	0.84365
Be 313.042	0.0270	ppb	0.0020	7.4	-215.579	0.02700
Ca 370.602	3.608	ppb	4.375	121.2	21.77	3.60836
Cd 226.502	0.0248	ppb	0.0276	111.3	7.8908	0.02483
Co 228.615	-0.1746	ppb	0.4768	273.1	-6.6550	-0.17460
Cr 267.716	0.2582	ppb	0.1030	39.9	33.1473	0.25820
Cu 324.754	0.0223	ppb	0.3072	1374.7	128.915	0.02235
Fe 271.441	-2.0324	ppb	1.8699	92.0	9.3292	-2.03236
K 766.491	-2.3630	ppb	0.1991	8.4	306.033	-2.36300
Mg 279.078	2.1796	ppb	1.5304	70.2	30.7304	2.17963
Mn 257.610	0.0617	ppb	0.0254	41.2	104.048	0.06169
Mo 202.032	1.5668	ppb	0.2586	16.5	16.9170	1.56678
Na 330.237	-206.360	ppb	158.794	76.9	30.9825	-206.36049
Ni 231.604	0.9635	ppb	0.2369	24.6	-1.6744	0.96350
Pb 220.353	2.3813	ppb	0.9757	41.0	13.7641	2.38126
Sb 206.834	3.3700	ppb	0.5713	17.0	9.1202	3.36999
Se 196.026	0.5935	ppb	1.9636	330.8	-1.6425	0.59351
Sn 189.925	-0.1439	ppb	0.6931	481.5	-11.6713	-0.14395
Sr 216.596	0.1318	ppb	0.2136	162.1	4.8359	0.13181
Ti 334.941	0.1526	ppb	0.0149	9.7	-12.9540	0.15263
Tl 190.794	-0.5646	ppb	0.9484	168.0	-12.1059	-0.56462
V 292.401	0.3584	ppb	0.1805	50.4	3.7419	0.35843
Zn 206.200	-0.5418	ppb	0.4179	77.1	5.0985	-0.54182

X (Samp) **9/25/2013, 1:03:40 PM** **Rack 1, Tube 15**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.2929u	-0.0801u	-0.1164u
Al 308.215	-0.0807u	3.1436	1.0500
As 188.980	0.1995	0.0939	-1.2460u
B 249.678	3.6416	3.9822	3.7273
Ba 389.178	0.1091	0.2355	0.8111
Be 313.042	0.0145	0.0118	0.0118
Ca 370.602	8.985	3.976	4.640
Cd 226.502	0.1375	0.0787	0.1120
Co 228.615	0.2352	0.2426	0.4549
Cr 267.716	0.1359	0.1240	0.0723
Cu 324.754	-0.0727u	-0.0091u	0.3355
Fe 271.441	0.7864	0.5078	-1.4784u
K 766.491	-2.7000u	-2.5946u	-3.5340u
Mg 279.078	7.0515	6.9823	3.7678
Mn 257.610	-0.1501u	-0.0820u	-0.0838u
Mo 202.032	0.5852	0.8206	0.6593
Na 330.237	165.440	142.316	64.2641

Label	Replicates Concentration		
Ni 231.604	1.3896	0.5573	0.2290
Pb 220.353	1.1266	1.7336	2.8147
Sb 206.834	0.9630	1.8243	0.9578
Se 196.026	0.3962	-7.1469u	4.4624
Sn 189.925	-1.5179u	-1.0479u	0.1406
Sr 216.596	0.2137	0.4775	0.0709
Ti 334.941	0.0936	0.0380	0.0866
Tl 190.794	-1.4814u	-1.8696u	0.5879
V 292.401	-0.3680u	0.0179	0.1871
Zn 206.200	3.2448	2.5255	2.3976

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1632	ppb	0.1138	69.8	-24.0480
Al 308.215	1.3710	ppb	1.6360	119.3	-5.6147
As 188.980	-0.3175	ppb	0.8058	253.8	-8.1324
B 249.678	3.7837	ppb	0.1772	4.7	175.833
Ba 389.178	0.3852	ppb	0.3742	97.1	-14.0156
Be 313.042	0.0127	ppb	0.0015	12.2	-242.880
Ca 370.602	5.867	ppb	2.721	46.4	28.75
Cd 226.502	0.1094	ppb	0.0295	27.0	12.4728
Co 228.615	0.3109	ppb	0.1247	40.1	-0.0350
Cr 267.716	0.1108	ppb	0.0338	30.5	24.7294
Cu 324.754	0.0846	ppb	0.2196	259.7	132.968
Fe 271.441	-0.0614	ppb	1.2351	2011.7	12.9437
K 766.491	-2.9429	ppb	0.5146	17.5	281.210
Mg 279.078	5.9339	ppb	1.8762	31.6	41.2006
Mn 257.610	-0.1053	ppb	0.0388	36.9	61.6027
Mo 202.032	0.6884	ppb	0.1204	17.5	9.8638
Na 330.237	124.007	ppb	53.0147	42.8	45.9188
Ni 231.604	0.7253	ppb	0.5983	82.5	-2.5697
Pb 220.353	1.8917	ppb	0.8551	45.2	12.7793
Sb 206.834	1.2484	ppb	0.4988	40.0	5.7063
Se 196.026	-0.7628	ppb	5.8908	772.3	-2.4750
Sn 189.925	-0.8084	ppb	0.8548	105.7	-12.3638
Sr 216.596	0.2540	ppb	0.2063	81.2	6.7415
Ti 334.941	0.0727	ppb	0.0303	41.6	-35.8442
Tl 190.794	-0.9211	ppb	1.3211	143.4	-12.6059
V 292.401	-0.0543	ppb	0.2845	523.7	-8.1038
Zn 206.200	2.7226	ppb	0.4567	16.8	10.4404

Cont Calib Verif (CCV) **9/25/2013, 1:37:48 PM** **Rack 1, Tube 25**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	504.607	506.339	503.555
Al 308.215	5002.28	4971.40	4987.86
As 188.980	497.513	498.124	497.195
B 249.678	502.049	500.631	501.560
Ba 389.178	5122.81	5097.26	5095.11
Be 313.042	517.773	515.230	513.723
Ca 370.602	5154	5154	5168
Cd 226.502	513.239	513.769	513.702
Co 228.615	518.727	518.982	517.112
Cr 267.716	5233.96	5226.57	5208.48

Label	Replicates Concentration		
Cu 324.754	5293.33	5295.95	5267.81
Fe 271.441	4990.05	4974.31	4983.21
K 766.491	10649.1	10555.1	10500.6
Mg 279.078	5125.15	5104.74	5098.84
Mn 257.610	5240.02	5225.43	5210.22
Mo 202.032	520.150	520.354	519.098
Na 330.237	7313.82	7342.22	7343.78
Ni 231.604	2567.62	2562.69	2568.17
Pb 220.353	515.762	514.425	514.717
Sb 206.834	1009.52	1012.36	1018.07
Se 196.026	5233.46	5241.32	5244.09
Sn 189.925	5141.28	5196.09	5183.51
Sr 216.596	2630.88	2634.43	2628.20
Ti 334.941	501.535	498.750	499.435
Tl 190.794	5259.92	5247.68	5240.98
V 292.401	5142.52	5125.53	5109.47
Zn 206.200	2582.09	2579.97	2585.66

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	504.834	ppb	1.4062	0.3	42874.1	100.96672
Al 308.215	4987.18	ppb	15.4512	0.3	29203.0	99.74359
As 188.980	497.610	ppb	0.4721	0.1	443.589	99.52206
B 249.678	501.413	ppb	0.7203	0.1	9603.97	100.28264
Ba 389.178	5105.06	ppb	15.4083	0.3	122605	102.10117
Be 313.042	515.575	ppb	2.0469	0.4	985869	103.11503
Ca 370.602	5159	ppb	8.294	0.2	15868	103.17068
Cd 226.502	513.570	ppb	0.2882	0.1	27902.7	102.71397
Co 228.615	518.274	ppb	1.0141	0.2	7045.61	103.65479
Cr 267.716	5223.00	ppb	13.1113	0.3	298425	104.46004
Cu 324.754	5285.70	ppb	15.5426	0.3	346854	105.71394
Fe 271.441	4982.52	ppb	7.8904	0.2	9114.82	99.65046
K 766.491	10568.3	ppb	75.1029	0.7	452799	105.68282
Mg 279.078	5109.58	ppb	13.8071	0.3	14161.2	102.19155
Mn 257.610	5225.23	ppb	14.9024	0.3	1329558	104.50454
Mo 202.032	519.867	ppb	0.6738	0.1	4168.10	103.97350
Na 330.237	7333.28	ppb	16.8661	0.2	336.275	97.77701
Ni 231.604	2566.16	ppb	3.0221	0.1	9621.57	102.64641
Pb 220.353	514.968	ppb	0.7031	0.1	1046.27	102.99357
Sb 206.834	1013.32	ppb	4.3549	0.4	1713.94	101.33182
Se 196.026	5239.62	ppb	5.5153	0.1	3215.68	104.79239
Sn 189.925	5173.63	ppb	28.7091	0.6	5381.66	103.47260
Sr 216.596	2631.17	ppb	3.1242	0.1	40381.8	105.24673
Ti 334.941	499.907	ppb	1.4510	0.3	143153	99.98131
Tl 190.794	5249.53	ppb	9.6060	0.2	7391.13	104.99057
V 292.401	5125.84	ppb	16.5268	0.3	148794	102.51680
Zn 206.200	2582.57	ppb	2.8730	0.1	4210.61	103.30285

Cont Calib Blank (CCB) **9/25/2013, 1:42:21 PM** **Rack 1, Tube 26**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.0263	-0.1606u	-0.0034u
Al 308.215	-1.6400u	-1.6449u	-1.8398u
As 188.980	2.6282	2.1859	6.2714

Label	Replicates Concentration		
B 249.678	1.0230	1.4574	1.4263
Ba 389.178	0.2973	0.0258	-0.2522u
Be 313.042	0.0109	0.0226	0.0095
Ca 370.602	-5.001u	-3.828u	-1.086u
Cd 226.502	0.2712	0.1140	-0.0133u
Co 228.615	0.3000	-0.2007u	-0.1078u
Cr 267.716	-0.0848u	0.0460	0.1633
Cu 324.754	-0.0518u	-0.1825u	0.0018
Fe 271.441	-5.2078u	-0.0916u	-2.1030u
K 766.491	-4.2611u	-4.0685u	-4.2484u
Mg 279.078	1.2658	-0.1904u	-0.0769u
Mn 257.610	-0.2145u	-0.2126u	-0.1909u
Mo 202.032	1.0469	1.0465	0.8619
Na 330.237	-89.7961u	-96.7885u	-45.5751u
Ni 231.604	1.9725	-0.0013u	1.6889
Pb 220.353	-0.9241u	0.3311	1.6131
Sb 206.834	1.4782	2.8239	2.8965
Se 196.026	2.5088	0.4416	1.5480
Sn 189.925	-0.8669u	-1.8677u	-1.0322u
Sr 216.596	0.2645	0.0889	0.5421
Ti 334.941	0.1025	0.0888	0.1011
Tl 190.794	0.0100	-0.7355u	0.4873
V 292.401	0.1927	0.2717	0.2010
Zn 206.200	-0.7311u	-0.2017u	0.0857

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	-0.0459	ppb	0.1005	218.9	-14.0737	-0.04588
Al 308.215	-1.7082	ppb	0.1139	6.7	-24.1938	-1.70822
As 188.980	3.6952	ppb	2.2420	60.7	-4.4906	3.69517
B 249.678	1.3022	ppb	0.2423	18.6	128.766	1.30224
Ba 389.178	0.0236	ppb	0.2748	1164.2	-22.7183	0.02360
Be 313.042	0.0143	ppb	0.0072	50.2	-239.752	0.01432
Ca 370.602	-3.305	ppb	2.009	60.8	1.022	-3.30482
Cd 226.502	0.1240	ppb	0.1425	115.0	13.2461	0.12396
Co 228.615	-0.0028	ppb	0.2664	9384.1	-4.3053	-0.00284
Cr 267.716	0.0415	ppb	0.1241	298.9	20.7648	0.04153
Cu 324.754	-0.0775	ppb	0.0948	122.3	122.342	-0.07751
Fe 271.441	-2.4675	ppb	2.5775	104.5	8.5647	-2.46746
K 766.491	-4.1927	ppb	0.1077	2.6	227.711	-4.19267
Mg 279.078	0.3328	ppb	0.8100	243.4	25.5860	0.33281
Mn 257.610	-0.2060	ppb	0.0131	6.4	35.9093	-0.20600
Mo 202.032	0.9851	ppb	0.1067	10.8	12.2467	0.98513
Na 330.237	-77.3866	ppb	27.7705	35.9	36.8298	-77.38657
Ni 231.604	1.2200	ppb	1.0671	87.5	-0.7125	1.22004
Pb 220.353	0.3400	ppb	1.2686	373.1	9.6541	0.34002
Sb 206.834	2.3995	ppb	0.7987	33.3	7.5596	2.39954
Se 196.026	1.4994	ppb	1.0345	69.0	-1.0865	1.49943
Sn 189.925	-1.2556	ppb	0.5365	42.7	-12.8301	-1.25563
Sr 216.596	0.2985	ppb	0.2285	76.5	7.3919	0.29852
Ti 334.941	0.0975	ppb	0.0075	7.7	-28.7669	0.09746
Tl 190.794	-0.0794	ppb	0.6163	775.9	-11.4202	-0.07943
V 292.401	0.2218	ppb	0.0434	19.6	-0.1191	0.22180
Zn 206.200	-0.2823	ppb	0.4143	146.8	5.5238	-0.28234

mb 680-295317/1-a (Samp) **9/25/2013, 1:46:55 PM** **Rack 1, Tube 27**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.0546u	0.0460	-0.0240u
Al 308.215	-0.9894u	-2.0381u	-1.3826u
As 188.980	2.0001	2.0883	3.7318
B 249.678	2.4287	2.6926	2.2899
Ba 389.178	-0.0500u	0.3160	-0.3178u
Be 313.042	0.0078	0.0153	0.0132
Ca 370.602	-2.117u	-4.784u	1.311
Cd 226.502	0.0593	0.0730	0.0719
Co 228.615	-0.0559u	0.0323	-0.1908u
Cr 267.716	0.0947	0.2512	0.1383
Cu 324.754	0.3445	0.8200	0.0028
Fe 271.441	-2.6520u	-1.0172u	-0.8839u
K 766.491	-3.9376u	-3.8458u	-4.5479u
Mg 279.078	1.4035	-0.6461u	-1.2826u
Mn 257.610	-0.2187u	-0.1928u	-0.2425u
Mo 202.032	0.3821	0.5405	1.5227
Na 330.237	-99.6745u	-195.353u	-89.6211u
Ni 231.604	0.8194	0.7687	1.5342
Pb 220.353	1.3575	2.0433	2.4666
Sb 206.834	3.4197	1.5855	-1.4029u
Se 196.026	-3.6994u	0.0351	-5.2178u
Sn 189.925	0.6472	-0.0672u	-3.0748u
Sr 216.596	0.1709	0.0281	0.3619
Ti 334.941	-0.0041u	0.0330	0.0202
Tl 190.794	-1.5314u	-0.0503u	0.8464
V 292.401	-0.1752u	0.0304	0.0519
Zn 206.200	1.3708	0.8332	0.9282

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0109	ppb	0.0515	474.5	-11.0857
Al 308.215	-1.4700	ppb	0.5298	36.0	-22.7264
As 188.980	2.6067	ppb	0.9753	37.4	-5.4785
B 249.678	2.4704	ppb	0.2046	8.3	150.915
Ba 389.178	-0.0173	ppb	0.3182	1842.7	-23.6953
Be 313.042	0.0121	ppb	0.0039	32.2	-243.971
Ca 370.602	-1.863	ppb	3.055	164.0	4.965
Cd 226.502	0.0681	ppb	0.0076	11.2	10.2363
Co 228.615	-0.0715	ppb	0.1123	157.2	-5.2323
Cr 267.716	0.1614	ppb	0.0807	50.0	27.6186
Cu 324.754	0.3891	ppb	0.4104	105.5	152.951
Fe 271.441	-1.5177	ppb	0.9846	64.9	10.2675
K 766.491	-4.1104	ppb	0.3816	9.3	231.231
Mg 279.078	-0.1751	ppb	1.4036	801.7	24.1706
Mn 257.610	-0.2180	ppb	0.0248	11.4	32.8634
Mo 202.032	0.8151	ppb	0.6179	75.8	10.8815
Na 330.237	-128.216	ppb	58.3590	45.5	34.5101
Ni 231.604	1.0408	ppb	0.4281	41.1	-1.3849
Pb 220.353	1.9558	ppb	0.5597	28.6	12.9086
Sb 206.834	1.2008	ppb	2.4342	202.7	5.6279
Se 196.026	-2.9607	ppb	2.7033	91.3	-3.8241
Sn 189.925	-0.8316	ppb	1.9752	237.5	-12.3881
Sr 216.596	0.1870	ppb	0.1675	89.7	5.6957

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ti 334.941	0.0164	ppb	0.0188	115.2	-51.9992
Tl 190.794	-0.2451	ppb	1.2008	489.9	-11.6546
V 292.401	-0.0310	ppb	0.1254	404.8	-7.4480
Zn 206.200	1.0441	ppb	0.2869	27.5	7.6937

lcs 680-295317/2-a (Samp) **9/25/2013, 1:51:29 PM** **Rack 1, Tube 28**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	58.8463	58.8492	58.6814
Al 308.215	5036.23	5062.47	4987.25
As 188.980	106.380	108.998	102.382
B 249.678	199.130	200.592	198.620
Ba 389.178	105.433	104.864	103.772
Be 313.042	52.6706	52.8087	52.2551
Ca 370.602	5127	5142	5066
Cd 226.502	51.8253	52.0941	51.2433
Co 228.615	53.3165	52.9800	52.2884
Cr 267.716	107.163	107.535	106.173
Cu 324.754	108.442	108.275	106.464
Fe 271.441	5093.10	5112.35	5056.16
K 766.491	5132.97	5164.71	5085.11
Mg 279.078	5118.46	5126.13	5067.57
Mn 257.610	541.183	543.167	535.481
Mo 202.032	106.621	106.483	105.201
Na 330.237	5364.40	5284.76	5263.30
Ni 231.604	103.434	105.072	103.382
Pb 220.353	54.5923	53.6893	49.6823
Sb 206.834	53.6049	49.7955	49.1884
Se 196.026	107.212	108.955	100.817
Sn 189.925	206.715	206.775	204.547
Sr 216.596	104.999	104.690	104.086
Ti 334.941	103.082	103.748	102.258
Tl 190.794	40.5844	38.7888	40.5756
V 292.401	105.358	105.357	104.426
Zn 206.200	102.613	105.394	103.297

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	58.7923	ppb	0.0961	0.2	4990.48
Al 308.215	5028.65	ppb	38.1806	0.8	30292.3
As 188.980	105.920	ppb	3.3321	3.1	88.2464
B 249.678	199.447	ppb	1.0236	0.5	3874.73
Ba 389.178	104.689	ppb	0.8441	0.8	2512.82
Be 313.042	52.5781	ppb	0.2881	0.5	100307
Ca 370.602	5112	ppb	40.59	0.8	15343
Cd 226.502	51.7209	ppb	0.4349	0.8	2835.05
Co 228.615	52.8616	ppb	0.5242	1.0	713.282
Cr 267.716	106.957	ppb	0.7039	0.7	6132.69
Cu 324.754	107.727	ppb	1.0968	1.0	7199.33
Fe 271.441	5087.20	ppb	28.5559	0.6	9190.69
K 766.491	5127.60	ppb	40.0739	0.8	219902
Mg 279.078	5104.06	ppb	31.8287	0.6	14244.8
Mn 257.610	539.944	ppb	3.9904	0.7	137523
Mo 202.032	106.102	ppb	0.7829	0.8	855.875

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Na 330.237	5304.16	ppb	53.2693	1.0	277.655
Ni 231.604	103.963	ppb	0.9611	0.9	384.775
Pb 220.353	52.6546	ppb	2.6135	5.0	115.209
Sb 206.834	50.8629	ppb	2.3939	4.7	86.2074
Se 196.026	105.661	ppb	4.2848	4.1	63.0348
Sn 189.925	206.013	ppb	1.2694	0.6	203.238
Sr 216.596	104.592	ppb	0.4645	0.4	1613.22
Ti 334.941	103.029	ppb	0.7468	0.7	29477.6
Tl 190.794	39.9829	ppb	1.0341	2.6	44.4743
V 292.401	105.047	ppb	0.5377	0.5	3027.57
Zn 206.200	103.768	ppb	1.4490	1.4	175.398

680-94450-a-1-a (Samp) **9/25/2013, 1:56:03 PM** **Rack 1, Tube 29**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.1999u	0.2204u	0.1594u
Al 308.215	32.0668	30.6976	32.6227
As 188.980	8.0170	7.3320	13.5386
B 249.678	86.5798	86.8046	86.5263
Ba 389.178	519.196	518.034	518.874
Be 313.042	0.0796	0.0747	0.0722
Ca 370.602	99304	99174	98856
Cd 226.502	0.2116	0.1555	0.2190
Co 228.615	31.2311	31.0089	31.0349
Cr 267.716	1.9527	1.9505	2.0984
Cu 324.754	27.9577	28.0902	28.1540
Fe 271.441	2904.70	2912.63	2904.34
K 766.491	2069.57	2073.52	2078.52
Mg 279.078	30979.3	31019.4	30980.2
Mn 257.610	1247.16	1247.32	1246.12
Mo 202.032	2.0636	1.6678	1.6674
Na 330.237	70175.6	70284.4	70504.8
Ni 231.604	339.414	339.561	339.830
Pb 220.353	4.7065	2.3337	3.5667
Sb 206.834	0.6605	-0.6335u	-0.0503
Se 196.026	-1.7332u	6.0949	1.7600
Sn 189.925	-1.4469u	-0.4716u	-1.1723u
Sr 216.596	498.453	498.481	497.504
Ti 334.941	0.9185	0.9049	0.8675
Tl 190.794	-0.1500u	1.9366	-0.3190u
V 292.401	5.7516	5.7610	6.1281
Zn 206.200	49.4690	48.3032	48.0224

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1932	ppb	0.0311	16.1	-13.2888
Al 308.215	31.7957	ppb	0.9908	3.1	175.597
As 188.980	9.6292	ppb	3.4030	35.3	0.8538
B 249.678	86.6369	ppb	0.1477	0.2	1740.15
Ba 389.178	518.702	ppb	0.6000	0.1	12521.2
Be 313.042	0.0755	ppb	0.0038	5.0	-97.0893
Ca 370.602	99111	ppb	230.3	0.2	303307
Cd 226.502	0.1954	ppb	0.0347	17.8	29.2746
Co 228.615	31.0916	ppb	0.1215	0.4	418.063

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Cr 267.716	2.0005	ppb	0.0848	4.2	141.219
Cu 324.754	28.0673	ppb	0.1001	0.4	1969.89
Fe 271.441	2907.22	ppb	4.6887	0.2	5257.36
K 766.491	2073.87	ppb	4.4822	0.2	89182.5
Mg 279.078	30993.0	ppb	22.9014	0.1	86420.5
Mn 257.610	1246.87	ppb	0.6496	0.1	317606
Mo 202.032	1.7996	ppb	0.2286	12.7	18.6146
Na 330.237	70321.6	ppb	167.723	0.2	3225.40
Ni 231.604	339.602	ppb	0.2107	0.1	1268.89
Pb 220.353	3.5357	ppb	1.1867	33.6	16.6470
Sb 206.834	-0.0077	ppb	0.6481	8370.7	3.7883
Se 196.026	2.0406	ppb	3.9216	192.2	-0.3605
Sn 189.925	-1.0303	ppb	0.5029	48.8	-12.5134
Sr 216.596	498.146	ppb	0.5564	0.1	7669.89
Ti 334.941	0.8970	ppb	0.0264	2.9	338.733
Tl 190.794	0.4892	ppb	1.2563	256.8	-11.5660
V 292.401	5.8803	ppb	0.2147	3.7	164.171
Zn 206.200	48.5982	ppb	0.7671	1.6	85.5263

680-94450-a-1-aSD^5 (Samp) **9/25/2013, 2:00:38 PM** **Rack 1, Tube 30**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	0.1645	0.2324	-0.0884u
Al 308.215	6.0806	6.9419	3.7882
As 188.980	-1.3322u	2.0328	0.0528
B 249.678	20.5720	19.5532	19.2922
Ba 389.178	119.382	117.751	116.209
Be 313.042	0.0313	0.0352	0.0332
Ca 370.602	22603	22205	21847
Cd 226.502	0.1330	0.2294	0.0487
Co 228.615	7.4120	7.2588	7.8938
Cr 267.716	0.4931	0.7802	0.6406
Cu 324.754	6.6235	6.4021	6.3942
Fe 271.441	676.489	668.126	659.414
K 766.491	434.717	428.588	421.140
Mg 279.078	7233.52	7138.36	7028.45
Mn 257.610	293.481	288.579	284.279
Mo 202.032	0.5788	0.6800	0.5469
Na 330.237	15301.3	14957.5	14767.2
Ni 231.604	81.8206	80.1988	77.5682
Pb 220.353	2.8449	0.0455	1.8244
Sb 206.834	-1.8012u	-1.2294u	-1.5219u
Se 196.026	-3.0464u	0.0805	0.1638
Sn 189.925	1.4273	0.2898	-0.8705u
Sr 216.596	118.528	116.235	115.140
Ti 334.941	0.2224	0.1887	0.1745
Tl 190.794	-0.1450u	-0.3889u	0.1309u
V 292.401	1.3927	1.1927	1.0811
Zn 206.200	11.5139	10.6747	11.7414

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1028	ppb	0.1691	164.4	-6.0046
Al 308.215	5.6036	ppb	1.6301	29.1	19.3803

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	0.2511	ppb	1.6912	673.4	-7.6258
B 249.678	19.8058	ppb	0.6763	3.4	478.057
Ba 389.178	117.781	ppb	1.5863	1.3	2825.48
Be 313.042	0.0332	ppb	0.0019	5.8	-197.694
Ca 370.602	22218	ppb	378.4	1.7	68001
Cd 226.502	0.1370	ppb	0.0904	66.0	16.7799
Co 228.615	7.5215	ppb	0.3314	4.4	97.9161
Cr 267.716	0.6380	ppb	0.1435	22.5	56.7996
Cu 324.754	6.4732	ppb	0.1302	2.0	552.342
Fe 271.441	668.010	ppb	8.5377	1.3	1218.09
K 766.491	428.148	ppb	6.7993	1.6	18734.7
Mg 279.078	7133.44	ppb	102.621	1.4	19909.8
Mn 257.610	288.779	ppb	4.6043	1.6	73626.4
Mo 202.032	0.6019	ppb	0.0695	11.5	9.1297
Na 330.237	15008.6	ppb	270.697	1.8	720.094
Ni 231.604	79.8625	ppb	2.1461	2.7	294.352
Pb 220.353	1.5716	ppb	1.4167	90.1	12.2643
Sb 206.834	-1.5175	ppb	0.2859	18.8	1.2700
Se 196.026	-0.9340	ppb	1.8298	195.9	-2.4889
Sn 189.925	0.2822	ppb	1.1490	407.1	-11.2090
Sr 216.596	116.634	ppb	1.7293	1.5	1797.82
Ti 334.941	0.1952	ppb	0.0246	12.6	31.2409
Tl 190.794	-0.1344	ppb	0.2600	193.5	-11.7158
V 292.401	1.2222	ppb	0.1579	12.9	29.0103
Zn 206.200	11.3100	ppb	0.5618	5.0	24.4962

680-94450-a-1-a PDS (Samp) **9/25/2013, 2:05:12 PM** **Rack 1, Tube 31**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	40.4424	39.2202	38.4610
Al 308.215	1851.85	1883.01	1935.08
As 188.980	186.659	188.723	193.388
B 249.678	518.002	525.254	536.426
Ba 389.178	699.943	705.545	710.025
Be 313.042	46.0734	46.8342	48.2054
Ca 370.602	101064	101305	101062
Cd 226.502	44.9986	45.7202	46.9216
Co 228.615	211.440	212.425	216.454
Cr 267.716	184.563	187.720	192.775
Cu 324.754	219.542	222.997	227.565
Fe 271.441	4628.46	4667.07	4702.71
K 766.491	4190.25	4235.05	4285.23
Mg 279.078	32719.4	32730.1	32750.4
Mn 257.610	1432.51	1438.76	1440.54
Mo 202.032	185.267	189.045	193.316
Na 330.237	72176.7	72225.5	72179.0
Ni 231.604	515.265	522.980	523.427
Pb 220.353	179.756	183.948	190.596
Sb 206.834	175.244	176.992	180.236
Se 196.026	181.702	192.999	196.600
Sn 189.925	186.360	183.316	191.214
Sr 216.596	678.146	679.871	685.459
Ti 334.941	182.092	185.758	190.857

Label	Replicates	Concentration	
Tl 190.794	175.403	175.894	177.826
V 292.401	188.771	191.546	196.826
Zn 206.200	229.068	230.586	234.157

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	39.3745	ppb	0.9997	2.5	3313.63
Al 308.215	1889.98	ppb	42.0496	2.2	11350.6
As 188.980	189.590	ppb	3.4471	1.8	164.116
B 249.678	526.561	ppb	9.2811	1.8	10082.1
Ba 389.178	705.171	ppb	5.0517	0.7	17008.0
Be 313.042	47.0377	ppb	1.0805	2.3	89715.6
Ca 370.602	101144	ppb	139.6	0.1	309497
Cd 226.502	45.8801	ppb	0.9714	2.1	2516.30
Co 228.615	213.439	ppb	2.6565	1.2	2893.57
Cr 267.716	188.353	ppb	4.1423	2.2	10788.6
Cu 324.754	223.368	ppb	4.0244	1.8	14787.8
Fe 271.441	4666.08	ppb	37.1350	0.8	8454.40
K 766.491	4236.84	ppb	47.5154	1.1	181772
Mg 279.078	32733.3	ppb	15.7305	0.0	91269.0
Mn 257.610	1437.27	ppb	4.2162	0.3	366070
Mo 202.032	189.209	ppb	4.0270	2.1	1523.11
Na 330.237	72193.7	ppb	27.5602	0.0	3306.81
Ni 231.604	520.557	ppb	4.5887	0.9	1947.35
Pb 220.353	184.767	ppb	5.4663	3.0	381.254
Sb 206.834	177.491	ppb	2.5330	1.4	290.282
Se 196.026	190.433	ppb	7.7733	4.1	115.340
Sn 189.925	186.963	ppb	3.9831	2.1	183.459
Sr 216.596	681.159	ppb	3.8225	0.6	10477.6
Ti 334.941	186.236	ppb	4.4024	2.4	53432.9
Tl 190.794	176.374	ppb	1.2810	0.7	236.885
V 292.401	192.381	ppb	4.0917	2.1	5551.11
Zn 206.200	231.271	ppb	2.6126	1.1	383.684

680-94450-a-1-b ms (Samp) **9/25/2013, 2:09:48 PM** **Rack 1, Tube 32**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	56.2428	56.1907	55.8583
Al 308.215	4870.05	4895.02	4906.80
As 188.980	103.751	108.598	104.442
B 249.678	263.426	264.561	264.074
Ba 389.178	560.694	561.246	560.566
Be 313.042	48.9270	48.8247	48.7534
Ca 370.602	93435	93795	94234
Cd 226.502	47.6168	47.7120	47.6474
Co 228.615	76.1497	75.7256	75.6775
Cr 267.716	101.077	100.351	101.141
Cu 324.754	131.372	131.920	131.660
Fe 271.441	7265.39	7269.88	7291.46
K 766.491	7377.64	7375.19	7372.84
Mg 279.078	32456.3	32472.3	32401.2
Mn 257.610	1598.51	1601.52	1603.30
Mo 202.032	98.2604	99.2479	98.9062
Na 330.237	68038.2	67679.5	67837.6

Label	Replicates Concentration		
Ni 231.604	397.880	400.906	397.710
Pb 220.353	52.9069	47.1966	51.7424
Sb 206.834	46.1064	50.2065	47.8126
Se 196.026	93.1785	102.444	105.857
Sn 189.925	194.004	193.658	192.856
Sr 216.596	539.192	541.745	539.260
Ti 334.941	96.0925	96.2420	96.4276
Tl 190.794	36.8196	40.0558	36.0428
V 292.401	102.371	102.235	102.551
Zn 206.200	138.758	140.752	140.091

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	56.0973	ppb	0.2086	0.4	4743.91
Al 308.215	4890.62	ppb	18.7671	0.4	29459.1
As 188.980	105.597	ppb	2.6220	2.5	87.9231
B 249.678	264.020	ppb	0.5693	0.2	5094.15
Ba 389.178	560.835	ppb	0.3613	0.1	13544.2
Be 313.042	48.8350	ppb	0.0873	0.2	93169.9
Ca 370.602	93822	ppb	399.8	0.4	286835
Cd 226.502	47.6587	ppb	0.0486	0.1	2623.65
Co 228.615	75.8510	ppb	0.2598	0.3	1025.60
Cr 267.716	100.856	ppb	0.4389	0.4	5791.41
Cu 324.754	131.651	ppb	0.2741	0.2	8769.48
Fe 271.441	7275.58	ppb	13.9395	0.2	13138.2
K 766.491	7375.22	ppb	2.4020	0.0	316115
Mg 279.078	32443.3	ppb	37.3083	0.1	90456.3
Mn 257.610	1601.11	ppb	2.4202	0.2	407760
Mo 202.032	98.8048	ppb	0.5015	0.5	797.164
Na 330.237	67851.8	ppb	179.765	0.3	3110.86
Ni 231.604	398.832	ppb	1.7980	0.5	1491.12
Pb 220.353	50.6153	ppb	3.0174	6.0	111.574
Sb 206.834	48.0418	ppb	2.0596	4.3	81.7461
Se 196.026	100.493	ppb	6.5604	6.5	60.1952
Sn 189.925	193.506	ppb	0.5893	0.3	190.274
Sr 216.596	540.066	ppb	1.4544	0.3	8315.62
Ti 334.941	96.2540	ppb	0.1679	0.2	27659.3
Tl 190.794	37.6394	ppb	2.1284	5.7	40.3795
V 292.401	102.386	ppb	0.1587	0.2	2951.57
Zn 206.200	139.867	ppb	1.0154	0.7	234.511

680-94450-a-1-c msd (Samp) **9/25/2013, 2:14:24 PM** **Rack 1, Tube 33**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	56.4563	56.2378	56.5684
Al 308.215	4940.91	4934.24	4935.81
As 188.980	105.315	103.770	103.309
B 249.678	266.498	265.997	267.197
Ba 389.178	569.713	568.882	569.891
Be 313.042	49.2686	49.2618	49.4462
Ca 370.602	95377	95382	95437
Cd 226.502	48.0440	47.9343	48.2713
Co 228.615	75.5938	75.6200	75.7086
Cr 267.716	100.887	100.649	101.661

Label	Replicates	Concentration	
Cu 324.754	128.113	128.040	127.216
Fe 271.441	7334.66	7324.44	7354.51
K 766.491	7473.77	7494.42	7498.82
Mg 279.078	32875.8	32855.0	32926.7
Mn 257.610	1624.17	1621.69	1624.63
Mo 202.032	99.3008	99.2220	99.5290
Na 330.237	69295.0	68988.7	69434.8
Ni 231.604	403.162	401.807	403.972
Pb 220.353	49.5497	47.6895	52.0152
Sb 206.834	49.5911	48.7351	49.1402
Se 196.026	99.5822	96.3518	101.106
Sn 189.925	192.283	189.943	194.268
Sr 216.596	546.676	546.098	546.220
Ti 334.941	97.0661	96.9850	97.2546
Tl 190.794	38.1835	36.8006	35.0095
V 292.401	102.652	103.006	103.330
Zn 206.200	143.759	139.495	135.412

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	56.4208	ppb	0.1681	0.3	4771.25
Al 308.215	4936.98	ppb	3.4884	0.1	29738.6
As 188.980	104.131	ppb	1.0505	1.0	86.5921
B 249.678	266.564	ppb	0.6031	0.2	5142.24
Ba 389.178	569.495	ppb	0.5383	0.1	13753.6
Be 313.042	49.3255	ppb	0.1046	0.2	94108.5
Ca 370.602	95399	ppb	32.99	0.0	291660
Cd 226.502	48.0832	ppb	0.1719	0.4	2646.97
Co 228.615	75.6408	ppb	0.0601	0.1	1022.75
Cr 267.716	101.065	ppb	0.5292	0.5	5803.52
Cu 324.754	127.789	ppb	0.4983	0.4	8516.20
Fe 271.441	7337.87	ppb	15.2914	0.2	13250.4
K 766.491	7489.00	ppb	13.3725	0.2	320986
Mg 279.078	32885.8	ppb	36.8782	0.1	91689.9
Mn 257.610	1623.50	ppb	1.5843	0.1	413460
Mo 202.032	99.3506	ppb	0.1594	0.2	801.542
Na 330.237	69239.5	ppb	228.154	0.3	3173.71
Ni 231.604	402.980	ppb	1.0937	0.3	1506.69
Pb 220.353	49.7515	ppb	2.1699	4.4	109.844
Sb 206.834	49.1555	ppb	0.4282	0.9	83.5444
Se 196.026	99.0135	ppb	2.4278	2.5	59.2940
Sn 189.925	192.165	ppb	2.1650	1.1	188.877
Sr 216.596	546.331	ppb	0.3045	0.1	8412.12
Ti 334.941	97.1019	ppb	0.1383	0.1	27904.2
Tl 190.794	36.6645	ppb	1.5914	4.3	38.9840
V 292.401	102.996	ppb	0.3393	0.3	2969.20
Zn 206.200	139.555	ppb	4.1739	3.0	234.001

680-94450-a-2-a (Samp) **9/25/2013, 2:18:59 PM** **Rack 1, Tube 34**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	0.2011u	0.2625	0.0916u
Al 308.215	13.5705	13.7984	16.0051
As 188.980	8.6533	5.2663	5.1951

Label	Replicates	Concentration	
B 249.678	85.0126	85.0402	84.7857
Ba 389.178	428.025	426.934	426.204
Be 313.042	0.0301	0.0260	0.0282
Ca 370.602	83248	83375	83533
Cd 226.502	0.1641	0.2751	0.3198
Co 228.615	26.7943	26.5364	27.2722
Cr 267.716	0.5204	0.6336	0.4045
Cu 324.754	11.9378	11.9776	12.0467
Fe 271.441	747.904	751.892	750.474
K 766.491	1953.35	1943.27	1940.63
Mg 279.078	29299.2	29199.0	29143.6
Mn 257.610	410.898	410.248	410.531
Mo 202.032	1.8205	1.7371	1.5885
Na 330.237	70522.9	70595.8	70228.6
Ni 231.604	313.551	311.644	313.717
Pb 220.353	3.0262	3.7083	4.2384
Sb 206.834	-0.8771u	-1.3531u	1.8207
Se 196.026	-0.5155u	6.1623	-3.1986u
Sn 189.925	-0.0297	-0.2104u	0.1769
Sr 216.596	457.396	456.613	456.867
Ti 334.941	0.3548	0.4118	0.3998
Tl 190.794	-0.2880u	-1.8558u	-2.2445u
V 292.401	3.9675	4.1956	3.6813
Zn 206.200	19.0065	20.4303	20.0215

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1851	ppb	0.0866	46.8	-15.9899
Al 308.215	14.4580	ppb	1.3447	9.3	71.5546
As 188.980	6.3715	ppb	1.9764	31.0	-2.0723
B 249.678	84.9461	ppb	0.1397	0.2	1713.74
Ba 389.178	427.054	ppb	0.9164	0.2	10312.5
Be 313.042	0.0281	ppb	0.0020	7.3	-193.262
Ca 370.602	83385	ppb	142.6	0.2	255295
Cd 226.502	0.2530	ppb	0.0801	31.7	23.4035
Co 228.615	26.8676	ppb	0.3733	1.4	360.601
Cr 267.716	0.5195	ppb	0.1145	22.0	51.7296
Cu 324.754	11.9874	ppb	0.0551	0.5	914.137
Fe 271.441	750.090	ppb	2.0213	0.3	1368.68
K 766.491	1945.75	ppb	6.7121	0.3	83698.0
Mg 279.078	29213.9	ppb	78.8768	0.3	81477.0
Mn 257.610	410.559	ppb	0.3263	0.1	104809
Mo 202.032	1.7153	ppb	0.1175	6.8	18.0610
Na 330.237	70449.1	ppb	194.377	0.3	3232.12
Ni 231.604	312.971	ppb	1.1518	0.4	1168.92
Pb 220.353	3.6576	ppb	0.6077	16.6	16.4936
Sb 206.834	-0.1365	ppb	1.7116	1254.1	3.4812
Se 196.026	0.8161	ppb	4.8204	590.7	-1.3771
Sn 189.925	-0.0211	ppb	0.1938	919.0	-11.4700
Sr 216.596	456.959	ppb	0.3994	0.1	7032.29
Ti 334.941	0.3888	ppb	0.0300	7.7	184.815
Tl 190.794	-1.4628	ppb	1.0358	70.8	-13.5947
V 292.401	3.9481	ppb	0.2577	6.5	108.014
Zn 206.200	19.8194	ppb	0.7331	3.7	38.4206

680-94450-a-3-a (Samp) **9/25/2013, 2:23:35 PM** **Rack 1, Tube 35**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.2143	0.1819	0.2320
Al 308.215	6.6177	7.6590	5.3994
As 188.980	3.1267	2.3250	2.7143
B 249.678	90.2450	90.1436	90.2635
Ba 389.178	186.148	185.879	185.822
Be 313.042	0.0185	0.0161	0.0195
Ca 370.602	17755	17661	17642
Cd 226.502	0.0884	0.1685	0.0618
Co 228.615	11.4178	10.9051	10.9151
Cr 267.716	0.3151	0.4142	0.3977
Cu 324.754	4.7460	4.4413	4.5892
Fe 271.441	352.596	358.708	358.216
K 766.491	2340.64	2337.66	2342.53
Mg 279.078	45858.8	45745.9	45912.4
Mn 257.610	7.4341	7.3885	7.3626
Mo 202.032	1.7274	1.2674	1.6648
Na 330.237	73317.5	73252.0	73406.6
Ni 231.604	186.269	186.731	186.074
Pb 220.353	2.4879	1.4193	2.3302
Sb 206.834	4.8083	0.0090	-0.5249u
Se 196.026	-5.9046u	-10.3810u	-4.7080u
Sn 189.925	-1.2943u	2.6950	4.1733
Sr 216.596	267.607	266.661	266.276
Ti 334.941	-0.3655	-0.3761	-0.3729
Tl 190.794	-3.9101u	-2.9096u	-1.4065u
V 292.401	0.5536	0.6933	0.7848
Zn 206.200	10.8903	10.5175	11.3580

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.2094	ppb	0.0254	12.1	-6.6255
Al 308.215	6.5587	ppb	1.1309	17.2	25.1364
As 188.980	2.7220	ppb	0.4009	14.7	-5.3792
B 249.678	90.2174	ppb	0.0646	0.1	1814.78
Ba 389.178	185.950	ppb	0.1742	0.1	4567.15
Be 313.042	0.0180	ppb	0.0018	9.8	-236.334
Ca 370.602	17686	ppb	60.37	0.3	54138
Cd 226.502	0.1062	ppb	0.0555	52.3	14.0900
Co 228.615	11.0794	ppb	0.2932	2.6	146.183
Cr 267.716	0.3757	ppb	0.0531	14.1	41.4336
Cu 324.754	4.5922	ppb	0.1524	3.3	428.857
Fe 271.441	356.506	ppb	3.3957	1.0	657.102
K 766.491	2340.28	ppb	2.4559	0.1	100586
Mg 279.078	45839.0	ppb	85.0242	0.2	127843
Mn 257.610	7.3950	ppb	0.0362	0.5	2382.92
Mo 202.032	1.5532	ppb	0.2495	16.1	16.7874
Na 330.237	73325.4	ppb	77.5923	0.1	3362.68
Ni 231.604	186.358	ppb	0.3371	0.2	693.904
Pb 220.353	2.0791	ppb	0.5769	27.7	13.1837
Sb 206.834	1.4308	ppb	2.9372	205.3	6.0002
Se 196.026	-6.9978	ppb	2.9904	42.7	-6.2978
Sn 189.925	1.8580	ppb	2.8282	152.2	-9.5449
Sr 216.596	266.848	ppb	0.6848	0.3	4103.09

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ti 334.941	-0.3715	ppb	0.0055	1.5	43.7047
Tl 190.794	-2.7421	ppb	1.2602	46.0	-15.1673
V 292.401	0.6772	ppb	0.1164	17.2	13.0319
Zn 206.200	10.9220	ppb	0.4212	3.9	23.8589

680-94450-a-4-a (Samp) **9/25/2013, 2:28:12 PM** **Rack 1, Tube 36**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.2308	0.0321u	0.0509u
Al 308.215	6.0154	3.3641	4.9009
As 188.980	4.2591	0.6426	4.3745
B 249.678	94.5341	96.2745	93.6999
Ba 389.178	167.435	170.542	166.564
Be 313.042	0.0160	0.0106	0.0245
Ca 370.602	22616	23207	22650
Cd 226.502	0.1159	0.0890	0.0510
Co 228.615	10.5924	11.1516	11.1397
Cr 267.716	0.1363	0.4394	0.3799
Cu 324.754	1.9058	2.1664	1.6339
Fe 271.441	172.528	180.584	182.819
K 766.491	2370.20	2425.95	2362.24
Mg 279.078	33073.5	33801.5	32965.8
Mn 257.610	24.2334	24.8966	24.2087
Mo 202.032	1.5476	2.6536	2.5295
Na 330.237	73006.7	74668.3	72840.9
Ni 231.604	182.744	185.921	181.475
Pb 220.353	2.5178	3.4064	4.5722
Sb 206.834	1.4019	-3.2091u	2.8932
Se 196.026	-0.8235u	8.6835	2.0659
Sn 189.925	0.6868	-0.5227u	-2.4472u
Sr 216.596	198.474	202.910	198.248
Ti 334.941	-0.2881	-0.3559	-0.3210
Tl 190.794	-0.9125u	-4.3068u	-1.3599u
V 292.401	1.8317	1.6801	1.7876
Zn 206.200	8.8782	8.3030	8.3429

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1046	ppb	0.1097	104.9	-11.8051
Al 308.215	4.7602	ppb	1.3313	28.0	14.1518
As 188.980	3.0921	ppb	2.1221	68.6	-5.0410
B 249.678	94.8362	ppb	1.3136	1.4	1902.88
Ba 389.178	168.180	ppb	2.0911	1.2	4106.13
Be 313.042	0.0170	ppb	0.0070	41.3	-236.192
Ca 370.602	22824	ppb	332.1	1.5	69887
Cd 226.502	0.0853	ppb	0.0326	38.2	11.9835
Co 228.615	10.9612	ppb	0.3195	2.9	144.549
Cr 267.716	0.3185	ppb	0.1606	50.4	38.1982
Cu 324.754	1.9020	ppb	0.2662	14.0	252.310
Fe 271.441	178.644	ppb	5.4131	3.0	336.510
K 766.491	2386.13	ppb	34.7109	1.5	102549
Mg 279.078	33280.3	ppb	454.590	1.4	92823.6
Mn 257.610	24.4462	ppb	0.3902	1.6	6607.89
Mo 202.032	2.2436	ppb	0.6059	27.0	22.3390

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Na 330.237	73505.3	ppb	1010.62	1.4	3370.91
Ni 231.604	183.380	ppb	2.2902	1.2	682.725
Pb 220.353	3.4988	ppb	1.0303	29.4	16.0308
Sb 206.834	0.3620	ppb	3.1813	878.8	4.2505
Se 196.026	3.3086	ppb	4.8738	147.3	0.0326
Sn 189.925	-0.7611	ppb	1.5805	207.7	-12.2722
Sr 216.596	199.878	ppb	2.6287	1.3	3074.26
Ti 334.941	-0.3217	ppb	0.0339	10.5	-0.0885
Tl 190.794	-2.1931	ppb	1.8442	84.1	-14.3882
V 292.401	1.7665	ppb	0.0780	4.4	44.4510
Zn 206.200	8.5080	ppb	0.3212	3.8	19.9075

Cont Calib Verif (CCV) **9/25/2013, 2:32:47 PM** **Rack 1, Tube 37**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	503.173	493.490	500.767
Al 308.215	4985.12	4919.41	4974.82
As 188.980	505.514	499.401	502.634
B 249.678	503.390	498.640	503.264
Ba 389.178	5098.49	5034.08	5073.06
Be 313.042	517.244	509.921	513.319
Ca 370.602	5160	5094	5158
Cd 226.502	514.091	507.745	512.896
Co 228.615	520.566	514.266	517.859
Cr 267.716	5238.53	5171.08	5210.13
Cu 324.754	5329.99	5191.01	5265.68
Fe 271.441	4999.24	4925.09	4958.11
K 766.491	10625.4	10474.8	10553.7
Mg 279.078	5133.57	5074.91	5116.65
Mn 257.610	5244.64	5169.66	5211.58
Mo 202.032	518.712	514.906	519.038
Na 330.237	7281.35	7252.14	7365.22
Ni 231.604	2577.15	2538.34	2589.80
Pb 220.353	513.376	506.769	513.467
Sb 206.834	1012.96	998.642	1012.29
Se 196.026	5245.27	5203.46	5262.59
Sn 189.925	5193.45	5127.95	5194.21
Sr 216.596	2628.22	2600.19	2628.00
Ti 334.941	500.704	493.428	498.353
Tl 190.794	5240.67	5194.59	5225.68
V 292.401	5137.11	5076.18	5107.91
Zn 206.200	2594.82	2557.50	2591.42

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	499.144	ppb	5.0417	1.0	42390.5	99.82874
Al 308.215	4959.78	ppb	35.3437	0.7	29041.0	99.19569
As 188.980	502.516	ppb	3.0580	0.6	448.043	100.50325
B 249.678	501.765	ppb	2.7065	0.5	9610.70	100.35295
Ba 389.178	5068.54	ppb	32.4403	0.6	121728	101.37083
Be 313.042	513.495	ppb	3.6646	0.7	981890	102.69896
Ca 370.602	5138	ppb	37.60	0.7	15804	102.75402
Cd 226.502	511.577	ppb	3.3725	0.7	27794.5	102.31544
Co 228.615	517.564	ppb	3.1603	0.6	7035.87	103.51271

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Cr 267.716	5206.58	ppb	33.8667	0.7	297487	104.13165
Cu 324.754	5262.23	ppb	69.5585	1.3	345314	105.24455
Fe 271.441	4960.81	ppb	37.1507	0.7	9075.42	99.21627
K 766.491	10551.3	ppb	75.3689	0.7	452072	105.51305
Mg 279.078	5108.38	ppb	30.1967	0.6	14158.3	102.16757
Mn 257.610	5208.63	ppb	37.5806	0.7	1325335	104.17254
Mo 202.032	517.552	ppb	2.2974	0.4	4149.55	103.51046
Na 330.237	7299.57	ppb	58.7032	0.8	334.772	97.32758
Ni 231.604	2568.43	ppb	26.8153	1.0	9630.08	102.73717
Pb 220.353	511.204	ppb	3.8414	0.8	1038.69	102.24081
Sb 206.834	1007.96	ppb	8.0792	0.8	1705.08	100.79635
Se 196.026	5237.11	ppb	30.3963	0.6	3214.14	104.74214
Sn 189.925	5171.87	ppb	38.0374	0.7	5379.82	103.43735
Sr 216.596	2618.80	ppb	16.1188	0.6	40191.6	104.75217
Ti 334.941	497.495	ppb	3.7132	0.7	142462	99.49899
Tl 190.794	5220.31	ppb	23.5035	0.5	7349.94	104.40627
V 292.401	5107.07	ppb	30.4727	0.6	148249	102.14132
Zn 206.200	2581.24	ppb	20.6370	0.8	4208.50	103.24978

Cont Calib Blank (CCB) **9/25/2013, 2:37:21 PM** **Rack 1, Tube 38**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.2059	0.0182	0.4800
Al 308.215	-1.3865u	-0.6709u	-1.8918u
As 188.980	2.8281	3.0444	4.0501
B 249.678	1.7669	1.0069	1.1384
Ba 389.178	-0.0413u	0.3547	-0.1077u
Be 313.042	0.0110	0.0181	0.0109
Ca 370.602	-5.068u	-4.390u	-3.800u
Cd 226.502	0.1256	0.1613	0.0513
Co 228.615	-0.1608u	-0.1956u	-0.2624u
Cr 267.716	0.0463	-0.0977u	0.0189
Cu 324.754	0.0066	0.1106	0.1312
Fe 271.441	-2.8086u	0.5647	-9.1482u
K 766.491	-3.7808u	-3.6321u	-4.2364u
Mg 279.078	2.3612	2.6604	1.1157
Mn 257.610	-0.1706u	-0.2260u	-0.2298u
Mo 202.032	1.5392	1.0960	1.0561
Na 330.237	-129.690u	8.4323	-173.455u
Ni 231.604	-0.1126u	0.3635	0.9893
Pb 220.353	1.3186	3.5942	2.0663
Sb 206.834	4.3611	0.8926	1.7128
Se 196.026	-2.5333u	-2.0690u	2.4936
Sn 189.925	-2.0159u	0.0246	-0.2416u
Sr 216.596	0.2269	-0.1237u	0.2439
Ti 334.941	0.0396	0.0557	0.0777
Tl 190.794	3.0413	0.5064	1.0772
V 292.401	0.1611	0.1126	0.1385
Zn 206.200	0.0190	0.1501	-0.1753u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.2347	ppb	0.2322	98.9	9.8206	0.23470
Al 308.215	-1.3164	ppb	0.6134	46.6	-21.7976	-1.31639

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
As 188.980	3.3075	ppb	0.6521	19.7	-4.8426	3.30753
B 249.678	1.3041	ppb	0.4061	31.1	128.792	1.30406
Ba 389.178	0.0686	ppb	0.2500	364.4	-21.6279	0.06860
Be 313.042	0.0134	ppb	0.0041	30.9	-241.608	0.01337
Ca 370.602	-4.419	ppb	0.6343	14.4	-2.656	-4.41922
Cd 226.502	0.1127	ppb	0.0561	49.8	12.6500	0.11274
Co 228.615	-0.2063	ppb	0.0517	25.1	-7.0762	-0.20626
Cr 267.716	-0.0109	ppb	0.0765	703.0	17.7739	-0.01088
Cu 324.754	0.0828	ppb	0.0668	80.7	132.869	0.08279
Fe 271.441	-3.7974	ppb	4.9313	129.9	6.1408	-3.79740
K 766.491	-3.8831	ppb	0.3149	8.1	240.964	-3.88309
Mg 279.078	2.0458	ppb	0.8192	40.0	30.3624	2.04577
Mn 257.610	-0.2088	ppb	0.0332	15.9	35.2230	-0.20879
Mo 202.032	1.2304	ppb	0.2682	21.8	14.2165	1.23043
Na 330.237	-98.2378	ppb	94.9354	96.6	35.8751	-98.23780
Ni 231.604	0.4134	ppb	0.5526	133.7	-3.7383	0.41342
Pb 220.353	2.3263	ppb	1.1599	49.9	13.6539	2.32634
Sb 206.834	2.3221	ppb	1.8128	78.1	7.4290	2.32215
Se 196.026	-0.7029	ppb	2.7779	395.2	-2.4383	-0.70288
Sn 189.925	-0.7443	ppb	1.1092	149.0	-12.2971	-0.74431
Sr 216.596	0.1157	ppb	0.2075	179.4	4.6075	0.11569
Ti 334.941	0.0577	ppb	0.0191	33.1	-40.1675	0.05765
Tl 190.794	1.5417	ppb	1.3298	86.3	-9.1361	1.54165
V 292.401	0.1374	ppb	0.0243	17.7	-2.6159	0.13737
Zn 206.200	-0.0020	ppb	0.1637	8047.9	5.9827	-0.00203

680-94450-d-5-a (Samp) **9/25/2013, 2:41:54 PM** **Rack 1, Tube 39**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.0914u	0.1347u	0.1964
Al 308.215	0.9556	4.3060	5.3085
As 188.980	0.4898	0.9852	2.8372
B 249.678	91.6399	91.8239	91.9143
Ba 389.178	287.801	287.934	288.831
Be 313.042	0.0225	0.0170	0.0159
Ca 370.602	33191	33281	33286
Cd 226.502	0.1089	0.0567	0.0178
Co 228.615	10.9788	10.5589	10.8040
Cr 267.716	0.2396	0.2219	0.0489
Cu 324.754	1.5655	1.5500	1.5734
Fe 271.441	164.244	165.372	166.704
K 766.491	2265.25	2266.59	2266.94
Mg 279.078	19696.3	19717.9	19653.8
Mn 257.610	6.1217	6.1052	6.0683
Mo 202.032	2.3790	1.8745	2.3766
Na 330.237	70423.8	70451.7	70605.3
Ni 231.604	178.205	177.629	176.773
Pb 220.353	2.1616	2.1553	2.8153
Sb 206.834	-1.6941u	-0.2295u	-2.5317u
Se 196.026	-1.9569u	-3.6913u	0.6182
Sn 189.925	-1.2360u	-0.8434u	-2.1442u
Sr 216.596	259.862	261.467	260.455
Ti 334.941	-0.0333	-0.0281	-0.0493

Label	Replicates	Concentration	
Tl 190.794	0.0831	-1.8166u	0.0706
V 292.401	2.3686	2.4589	2.7163
Zn 206.200	5.8667	5.2811	4.7923

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1408	ppb	0.0528	37.5	-11.6820
Al 308.215	3.5234	ppb	2.2795	64.7	6.5713
As 188.980	1.4374	ppb	1.2373	86.1	-6.5426
B 249.678	91.7927	ppb	0.1398	0.2	1845.18
Ba 389.178	288.189	ppb	0.5602	0.2	6951.05
Be 313.042	0.0184	ppb	0.0035	19.0	-228.941
Ca 370.602	33253	ppb	53.19	0.2	101819
Cd 226.502	0.0612	ppb	0.0458	74.8	10.3823
Co 228.615	10.7806	ppb	0.2109	2.0	142.096
Cr 267.716	0.1702	ppb	0.1054	61.9	29.5532
Cu 324.754	1.5630	ppb	0.0119	0.8	230.049
Fe 271.441	165.440	ppb	1.2314	0.7	312.695
K 766.491	2266.26	ppb	0.8928	0.0	97418.0
Mg 279.078	19689.3	ppb	32.6085	0.2	54926.8
Mn 257.610	6.0984	ppb	0.0273	0.4	1817.63
Mo 202.032	2.2100	ppb	0.2906	13.1	22.0688
Na 330.237	70493.6	ppb	97.7377	0.1	3234.48
Ni 231.604	177.536	ppb	0.7207	0.4	660.797
Pb 220.353	2.3774	ppb	0.3792	15.9	13.7666
Sb 206.834	-1.4851	ppb	1.1652	78.5	1.2621
Se 196.026	-1.6767	ppb	2.1684	129.3	-3.0332
Sn 189.925	-1.4079	ppb	0.6672	47.4	-12.9421
Sr 216.596	260.595	ppb	0.8117	0.3	4009.21
Ti 334.941	-0.0369	ppb	0.0111	30.0	18.7460
Tl 190.794	-0.5543	ppb	1.0932	197.2	-12.0644
V 292.401	2.5146	ppb	0.1804	7.2	66.0835
Zn 206.200	5.3133	ppb	0.5379	10.1	14.6808

680-94469-b-2-a (Samp) **9/25/2013, 2:46:28 PM** **Rack 1, Tube 40**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	0.0174	-0.0830u	0.0799
Al 308.215	106.950	112.092	109.583
As 188.980	1.4090	0.8861	3.6579
B 249.678	1.1337	1.4599	1.1718
Ba 389.178	3.1737	3.5374	3.3560
Be 313.042	0.0320	0.0167	0.0174
Ca 370.602	692.3	739.0	728.2
Cd 226.502	0.1717	0.0376	0.1726
Co 228.615	0.2794	-0.4627u	-0.6179u
Cr 267.716	0.9398	0.9579	1.0027
Cu 324.754	0.9702	1.3086	1.1867
Fe 271.441	118.293	131.756	129.718
K 766.491	377.251	407.060	400.541
Mg 279.078	68.4190	73.9594	71.8265
Mn 257.610	6.7179	7.1958	7.0473
Mo 202.032	0.4052	1.0296	0.5530
Na 330.237	273.986	-30.5640u	148.220

Label	Replicates Concentration		
Ni 231.604	1.4880	1.3208	0.1366
Pb 220.353	1.4952	0.3000	1.3565
Sb 206.834	-1.3431u	-0.4847u	3.3685
Se 196.026	5.7331	4.0661	-0.1268u
Sn 189.925	-1.3922u	-0.9884u	0.1124
Sr 216.596	1.6743	2.1505	2.1236
Ti 334.941	5.9189	6.2606	6.1653
Tl 190.794	-2.3395u	0.5199	0.2254
V 292.401	2.1026	2.6124	2.5348
Zn 206.200	14.6202	15.3197	15.2215

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0048	ppb	0.0822	1722.1	-9.8051
Al 308.215	109.542	ppb	2.5712	2.3	646.213
As 188.980	1.9843	ppb	1.4728	74.2	-6.0435
B 249.678	1.2551	ppb	0.1784	14.2	127.530
Ba 389.178	3.3557	ppb	0.1819	5.4	57.6853
Be 313.042	0.0220	ppb	0.0086	39.2	-224.824
Ca 370.602	719.8	ppb	24.41	3.4	2209
Cd 226.502	0.1273	ppb	0.0777	61.0	13.9702
Co 228.615	-0.2671	ppb	0.4796	179.6	-7.7155
Cr 267.716	0.9668	ppb	0.0324	3.4	73.7027
Cu 324.754	1.1552	ppb	0.1714	14.8	203.223
Fe 271.441	126.589	ppb	7.2563	5.7	241.167
K 766.491	394.951	ppb	15.6714	4.0	17313.7
Mg 279.078	71.4016	ppb	2.7945	3.9	223.592
Mn 257.610	6.9870	ppb	0.2446	3.5	1867.00
Mo 202.032	0.6626	ppb	0.3263	49.2	9.6447
Na 330.237	130.547	ppb	153.042	117.2	46.0004
Ni 231.604	0.9818	ppb	0.7367	75.0	-1.6019
Pb 220.353	1.0506	ppb	0.6537	62.2	11.0922
Sb 206.834	0.5136	ppb	2.5094	488.6	4.5357
Se 196.026	3.2241	ppb	3.0193	93.6	-0.0251
Sn 189.925	-0.7561	ppb	0.7787	103.0	-12.3089
Sr 216.596	1.9828	ppb	0.2675	13.5	33.5672
Ti 334.941	6.1149	ppb	0.1763	2.9	1695.12
Tl 190.794	-0.5314	ppb	1.5728	296.0	-12.0731
V 292.401	2.4166	ppb	0.2747	11.4	63.8601
Zn 206.200	15.0538	ppb	0.3787	2.5	30.6145

680-94481-a-1-c (Samp) **9/25/2013, 2:51:03 PM** **Rack 1, Tube 41**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.8807u	0.9281u	0.8853u
Al 308.215	2411.05	2417.38	2415.98
As 188.980	5.1319	-1.0575u	4.2246
B 249.678	1201.56	1204.53	1206.35
Ba 389.178	11.9236	12.1019	12.5830
Be 313.042	0.0296	0.0314	0.0352
Ca 370.602	91912	91927	91978
Cd 226.502	0.5334	0.6045	0.5817
Co 228.615	-0.2780u	0.0432	0.4117
Cr 267.716	15.4728	15.1250	15.1622

Label	Replicates Concentration		
Cu 324.754	1.0746	1.2429	1.6529
Fe 271.441	50.2576	47.5025	47.6351
K 766.491	7329.50	7332.38	7336.88
Mg 279.078	8932.48	8930.24	8925.78
Mn 257.610	223.766	223.648	223.943
Mo 202.032	3.7780	3.6668	4.0540
Na 330.237	598219x	597896x	597527x
Ni 231.604	5.1356	5.0539	5.3444
Pb 220.353	2.9528	2.6959	3.6308
Sb 206.834	1.8971	2.0108	2.6751
Se 196.026	8.4092	17.3599	9.0595
Sn 189.925	-0.8721u	2.8907	0.3940
Sr 216.596	2786.50	2785.48	2788.31
Ti 334.941	0.1178	0.1626	0.1597
Tl 190.794	-3.5014u	-8.2500u	-4.2215u
V 292.401	0.6655	0.8604	1.1587
Zn 206.200	20.1530	20.1969	21.4544

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.8981b	ppb	0.0261	2.9	-73.1436
Al 308.215	2414.80b	ppb	3.3274	0.1	14546.3
As 188.980	2.7663b	ppb	3.3424	120.8	-5.3017
B 249.678	1204.15b	ppb	2.4193	0.2	22949.9
Ba 389.178	12.2028b	ppb	0.3411	2.8	294.131
Be 313.042	0.0321b	ppb	0.0029	9.0	-239.377
Ca 370.602	91939b	ppb	34.46	0.0	281534
Cd 226.502	0.5732b	ppb	0.0363	6.3	33.5105
Co 228.615	0.0590b	ppb	0.3451	585.3	-3.4939
Cr 267.716	15.2533b	ppb	0.1910	1.3	902.862
Cu 324.754	1.3235b	ppb	0.2975	22.5	214.371
Fe 271.441	48.4651b	ppb	1.5538	3.2	100.418
K 766.491	7332.92b	ppb	3.7195	0.1	314304
Mg 279.078	8929.50b	ppb	3.4120	0.0	24918.3
Mn 257.610	223.785b	ppb	0.1487	0.1	57102.6
Mo 202.032	3.8329b	ppb	0.1994	5.2	35.1117
Na 330.237	597881xb	ppb	345.981	0.1	27131.8
Ni 231.604	5.1780b	ppb	0.1498	2.9	14.1402
Pb 220.353	3.0931b	ppb	0.4830	15.6	15.2045
Sb 206.834	2.1944b	ppb	0.4202	19.1	7.3891
Se 196.026	11.6095b	ppb	4.9906	43.0	5.1876
Sn 189.925	0.8042b	ppb	1.9147	238.1	-10.3881
Sr 216.596	2786.76b	ppb	1.4313	0.1	42851.2
Ti 334.941	0.1467b	ppb	0.0251	17.1	-17.2303
Tl 190.794	-5.3243b	ppb	2.5592	48.1	-18.9666
V 292.401	0.8949b	ppb	0.2484	27.8	13.5365
Zn 206.200	20.6014b	ppb	0.7390	3.6	39.6322

680-94481-a-3-a (Samp) **9/25/2013, 2:55:37 PM** **Rack 1, Tube 42**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.9042u	1.0817u	1.0297u
Al 308.215	2203.29	2195.45	2199.64
As 188.980	-1.6036u	5.4857	1.8514

Label	Replicates	Concentration	
B 249.678	1115.64	1115.83	1118.34
Ba 389.178	11.2595	10.9976	11.2200
Be 313.042	0.0335	0.0345	0.0322
Ca 370.602	84990	84778	84710
Cd 226.502	0.3819	0.6004	0.6128
Co 228.615	0.1023	-1.1030u	0.0011u
Cr 267.716	12.9392	13.2112	13.1601
Cu 324.754	0.9171	0.8987	1.0589
Fe 271.441	44.5718	44.1745	41.4866
K 766.491	6671.68	6681.98	6684.01
Mg 279.078	8287.97	8295.59	8316.40
Mn 257.610	207.742	207.280	207.630
Mo 202.032	3.5432	4.3879	3.2797
Na 330.237	551836x	549474x	551745x
Ni 231.604	4.8960	5.9847	4.8581
Pb 220.353	1.6873	3.0356	6.6227
Sb 206.834	0.7497	2.1622	0.3258
Se 196.026	8.9668	8.0393	14.2171
Sn 189.925	0.0855	-0.6271u	-2.2702u
Sr 216.596	2591.04	2588.65	2590.27
Ti 334.941	0.0154	0.0030u	0.0209
Tl 190.794	-3.9585u	-3.7837u	-5.7169u
V 292.401	1.1330	1.2039	1.1261
Zn 206.200	18.3248	18.8414	19.1496

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	1.0052b	ppb	0.0913	9.1	-55.0549
Al 308.215	2199.46b	ppb	3.9228	0.2	13247.9
As 188.980	1.9111b	ppb	3.5450	185.5	-6.0807
B 249.678	1116.60b	ppb	1.5083	0.1	21289.0
Ba 389.178	11.1590b	ppb	0.1412	1.3	267.332
Be 313.042	0.0334b	ppb	0.0011	3.4	-233.754
Ca 370.602	84826b	ppb	146.3	0.2	259755
Cd 226.502	0.5317b	ppb	0.1299	24.4	31.5734
Co 228.615	-0.3332b	ppb	0.6685	200.6	-8.8250
Cr 267.716	13.1035b	ppb	0.1445	1.1	778.972
Cu 324.754	0.9582b	ppb	0.0876	9.1	190.395
Fe 271.441	43.4110b	ppb	1.6783	3.9	91.2536
K 766.491	6679.22b	ppb	6.6089	0.1	286322
Mg 279.078	8299.99b	ppb	14.7128	0.2	23163.3
Mn 257.610	207.551b	ppb	0.2412	0.1	52966.7
Mo 202.032	3.7370b	ppb	0.5789	15.5	34.3410
Na 330.237	551018xb	ppb	1338.01	0.2	25008.3
Ni 231.604	5.2463b	ppb	0.6398	12.2	14.3972
Pb 220.353	3.7819b	ppb	2.5509	67.5	16.5914
Sb 206.834	1.0792b	ppb	0.9615	89.1	5.5586
Se 196.026	10.4077b	ppb	3.3314	32.0	4.4451
Sn 189.925	-0.9373b	ppb	1.2081	128.9	-12.2270
Sr 216.596	2589.99b	ppb	1.2195	0.0	39825.6
Ti 334.941	0.0131b	ppb	0.0092	70.2	-54.8334
Tl 190.794	-4.4864b	ppb	1.0693	23.8	-17.7752
V 292.401	1.1543b	ppb	0.0431	3.7	21.6143
Zn 206.200	18.7719b	ppb	0.4168	2.2	36.6474

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680-94481-a-2-a (Samp) **9/25/2013, 3:00:12 PM** **Rack 1, Tube 43**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	1.0082u	1.1503u	1.1225u
Al 308.215	2735.15	2744.82	2739.65
As 188.980	0.5620	4.7624	1.0579
B 249.678	1353.49	1355.25	1358.75
Ba 389.178	13.5871	14.0221	13.7419
Be 313.042	0.0455	0.0410	0.0368
Ca 370.602	103554	103633	103532
Cd 226.502	0.6477	0.6007	0.7132
Co 228.615	-0.0409u	0.4480	-0.0405u
Cr 267.716	17.2719	17.1241	17.0242
Cu 324.754	1.2492	1.2121	1.1040
Fe 271.441	52.2717	48.1013	61.0329
K 766.491	8312.32	8313.90	8344.44
Mg 279.078	10036.1	10027.6	10028.8
Mn 257.610	252.235	252.260	252.335
Mo 202.032	4.0558	4.3051	4.8470
Na 330.237	675229x	673974x	676805x
Ni 231.604	6.4768	4.8611	7.0374
Pb 220.353	1.6413	1.4255	0.9425
Sb 206.834	1.4230	1.7157	3.5351
Se 196.026	9.6756	5.9261	11.9663
Sn 189.925	-1.0031u	-1.2279u	-1.4601u
Sr 216.596	3138.44	3139.64	3141.51
Ti 334.941	0.1578	0.0883	0.0857
Tl 190.794	-9.3859u	-3.1673u	-6.4330u
V 292.401	1.0509	0.9568	1.4470
Zn 206.200	18.9124	19.1275	20.5616

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	1.0937b	ppb	0.0753	6.9	-74.0996
Al 308.215	2739.87b	ppb	4.8411	0.2	16506.3
As 188.980	2.1275b	ppb	2.2954	107.9	-5.8775
B 249.678	1355.83b	ppb	2.6756	0.2	25827.8
Ba 389.178	13.7837b	ppb	0.2205	1.6	335.130
Be 313.042	0.0411b	ppb	0.0043	10.5	-226.641
Ca 370.602	103573b	ppb	53.19	0.1	317160
Cd 226.502	0.6539b	ppb	0.0565	8.6	37.3449
Co 228.615	0.1222b	ppb	0.2821	230.8	-2.6418
Cr 267.716	17.1401b	ppb	0.1246	0.7	1012.34
Cu 324.754	1.1884b	ppb	0.0755	6.3	205.527
Fe 271.441	53.8020b	ppb	6.6002	12.3	110.053
K 766.491	8323.55b	ppb	18.1065	0.2	356710
Mg 279.078	10030.8b	ppb	4.6062	0.0	27988.6
Mn 257.610	252.277b	ppb	0.0519	0.0	64361.2
Mo 202.032	4.4027b	ppb	0.4045	9.2	39.6862
Na 330.237	675336xb	ppb	1418.71	0.2	30641.5
Ni 231.604	6.1251b	ppb	1.1300	18.4	17.6939
Pb 220.353	1.3364b	ppb	0.3578	26.8	11.6674
Sb 206.834	2.2246b	ppb	1.1443	51.4	7.4553
Se 196.026	9.1893b	ppb	3.0494	33.2	3.7107
Sn 189.925	-1.2303b	ppb	0.2285	18.6	-12.4708
Sr 216.596	3139.86b	ppb	1.5470	0.0	48280.3

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ti 334.941	0.1106b	ppb	0.0409	36.9	-28.1312
Tl 190.794	-6.3287b	ppb	3.1106	49.2	-20.4012
V 292.401	1.1516b	ppb	0.2602	22.6	20.2249
Zn 206.200	19.5338b	ppb	0.8966	4.6	37.8778

680-94481-a-2-b ms (Samp) **9/25/2013, 3:04:47 PM** **Rack 1, Tube 44**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	59.7984	59.5990	59.5866
Al 308.215	7783.73	7758.18	7773.02
As 188.980	109.104	113.756	106.433
B 249.678	1484.55	1486.85	1492.16
Ba 389.178	111.984	111.819	112.806
Be 313.042	50.2105	50.3344	50.2079
Ca 370.602	103167	103051	103473
Cd 226.502	49.2835	49.1477	49.4459
Co 228.615	49.3168	49.6088	49.2701
Cr 267.716	116.615	117.325	116.996
Cu 324.754	106.474	106.928	106.647
Fe 271.441	4835.82	4833.58	4856.47
K 766.491	15083.7	15108.4	15111.8
Mg 279.078	14329.6	14390.5	14374.4
Mn 257.610	746.653	747.322	748.951
Mo 202.032	102.129	103.847	103.956
Na 330.237	652919x	654178x	651531x
Ni 231.604	103.524	103.563	102.688
Pb 220.353	48.0611	47.1983	47.7332
Sb 206.834	48.3942	52.8843	50.3184
Se 196.026	111.217	104.466	113.181
Sn 189.925	187.432	194.604	195.733
Sr 216.596	3073.99	3091.58	3099.26
Ti 334.941	97.8094	97.4034	97.6348
Tl 190.794	28.7298	32.3231	32.1881
V 292.401	100.883	101.406	100.912
Zn 206.200	120.102	118.843	117.537

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	59.6614b	ppb	0.1188	0.2	4914.41
Al 308.215	7771.64b	ppb	12.8321	0.2	46832.0
As 188.980	109.764b	ppb	3.7056	3.4	91.7787
B 249.678	1487.85b	ppb	3.9056	0.3	28320.1
Ba 389.178	112.203b	ppb	0.5282	0.5	2718.03
Be 313.042	50.2510b	ppb	0.0723	0.1	95819.1
Ca 370.602	103230b	ppb	217.9	0.2	315809
Cd 226.502	49.2924b	ppb	0.1493	0.3	2697.47
Co 228.615	49.3986b	ppb	0.1836	0.4	666.245
Cr 267.716	116.979b	ppb	0.3553	0.3	6719.06
Cu 324.754	106.683b	ppb	0.2289	0.2	7130.69
Fe 271.441	4841.96b	ppb	12.6168	0.3	8748.17
K 766.491	15101.3b	ppb	15.3473	0.1	646843
Mg 279.078	14364.8b	ppb	31.5810	0.2	40062.3
Mn 257.610	747.642b	ppb	1.1816	0.2	190446
Mo 202.032	103.311b	ppb	1.0246	1.0	833.486

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Na 330.237	652876xb	ppb	1324.18	0.2	29620.9
Ni 231.604	103.258b	ppb	0.4941	0.5	382.135
Pb 220.353	47.6642b	ppb	0.4355	0.9	105.143
Sb 206.834	50.5323b	ppb	2.2526	4.5	85.8350
Se 196.026	109.621b	ppb	4.5715	4.2	65.5272
Sn 189.925	192.590b	ppb	4.5022	2.3	189.564
Sr 216.596	3088.28b	ppb	12.9548	0.4	47489.3
Ti 334.941	97.6159b	ppb	0.2036	0.2	27922.4
Tl 190.794	31.0803b	ppb	2.0367	6.6	31.7967
V 292.401	101.067b	ppb	0.2935	0.3	2906.67
Zn 206.200	118.827b	ppb	1.2823	1.1	199.993

680-94481-a-2-c msd (Samp) **9/25/2013, 3:09:23 PM** **Rack 1, Tube 45**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	59.1269	59.0353	59.2811
Al 308.215	7762.25	7768.20	7752.43
As 188.980	108.933	103.193	106.744
B 249.678	1481.31	1484.10	1483.40
Ba 389.178	112.470	111.379	111.305
Be 313.042	49.6970	49.8091	49.7771
Ca 370.602	103415	103452	102993
Cd 226.502	48.9537	49.0578	49.0107
Co 228.615	49.0763	49.4233	48.8059
Cr 267.716	115.854	116.313	115.559
Cu 324.754	105.406	106.322	106.710
Fe 271.441	4797.21	4808.29	4802.71
K 766.491	14917.1	14950.2	14980.1
Mg 279.078	14285.3	14299.3	14270.0
Mn 257.610	742.578	744.884	742.167
Mo 202.032	103.025	103.351	103.828
Na 330.237	647843x	649362x	648032x
Ni 231.604	101.863	102.706	101.224
Pb 220.353	50.1418	50.1645	50.7205
Sb 206.834	51.4482	48.7514	52.4528
Se 196.026	117.568	122.298	118.095
Sn 189.925	193.391	194.676	191.334
Sr 216.596	3065.79	3075.19	3062.11
Ti 334.941	97.3006	97.3549	97.3689
Tl 190.794	32.8784	31.8980	31.8013
V 292.401	99.6409	99.8406	99.8528
Zn 206.200	121.880	120.255	119.578

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	59.1478b	ppb	0.1242	0.2	4872.42
Al 308.215	7760.96b	ppb	7.9628	0.1	46767.8
As 188.980	106.290b	ppb	2.8970	2.7	88.6254
B 249.678	1482.94b	ppb	1.4554	0.1	28226.9
Ba 389.178	111.718b	ppb	0.6523	0.6	2706.14
Be 313.042	49.7611b	ppb	0.0577	0.1	94882.0
Ca 370.602	103287b	ppb	254.7	0.2	315984
Cd 226.502	49.0074b	ppb	0.0521	0.1	2681.84
Co 228.615	49.1018b	ppb	0.3095	0.6	662.190

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Cr 267.716	115.909b	ppb	0.3804	0.3	6657.85
Cu 324.754	106.146b	ppb	0.6691	0.6	7095.46
Fe 271.441	4802.74b	ppb	5.5384	0.1	8677.43
K 766.491	14949.1b	ppb	31.5059	0.2	640327
Mg 279.078	14284.9b	ppb	14.6651	0.1	39839.5
Mn 257.610	743.209b	ppb	1.4643	0.2	189317
Mo 202.032	103.402b	ppb	0.4037	0.4	834.221
Na 330.237	648412xb	ppb	827.696	0.1	29418.6
Ni 231.604	101.931b	ppb	0.7429	0.7	377.154
Pb 220.353	50.3423b	ppb	0.3277	0.7	110.533
Sb 206.834	50.8841b	ppb	1.9141	3.8	86.3840
Se 196.026	119.320b	ppb	2.5923	2.2	71.4786
Sn 189.925	193.134b	ppb	1.6856	0.9	190.130
Sr 216.596	3067.70b	ppb	6.7495	0.2	47172.8
Ti 334.941	97.3415b	ppb	0.0361	0.0	27843.7
Tl 190.794	32.1926b	ppb	0.5959	1.9	33.3706
V 292.401	99.7781b	ppb	0.1189	0.1	2869.25
Zn 206.200	120.571b	ppb	1.1832	1.0	202.849

mb 680-295120/1-a (Samp) **9/25/2013, 3:13:59 PM** **Rack 1, Tube 46**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.1116u	-0.0117u	-0.0468u
Al 308.215	22.2685	21.1626	22.1291
As 188.980	-1.6745u	0.7421	2.6017
B 249.678	7.8236	7.6259	6.9584
Ba 389.178	0.9668	1.5965	1.1925
Be 313.042	0.0209	0.0141	0.0084
Ca 370.602	70.31	68.06	70.59
Cd 226.502	0.1906	0.0170	0.1992
Co 228.615	-0.3065u	0.0776	-0.6779u
Cr 267.716	0.6870	0.5024	0.4936
Cu 324.754	0.5011	0.2339	0.4741
Fe 271.441	17.1891	14.3435	15.1377
K 766.491	5.6985	5.5071	5.7371
Mg 279.078	197.805	196.802	194.954
Mn 257.610	0.2106	0.2031	0.1677
Mo 202.032	0.6247	0.3774	0.7675
Na 330.237	-118.825u	90.3142	44.0917
Ni 231.604	0.9216	1.0065	1.1487
Pb 220.353	1.2705	2.4811	2.5623
Sb 206.834	-0.0867u	-0.8595u	-1.6415u
Se 196.026	0.1776	1.7901	6.9302
Sn 189.925	7.9715	6.1639	4.1125
Sr 216.596	0.6282	0.5327	0.0767
Ti 334.941	0.2363	0.2940	0.2584
Tl 190.794	-0.8403u	-2.7302u	1.3594
V 292.401	0.3770	0.1620	0.3997
Zn 206.200	1.5053	0.7858	2.1572

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0567	ppb	0.0507	89.4	-14.9880
Al 308.215	21.8534	ppb	0.6023	2.8	117.844

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	0.5564	ppb	2.1442	385.3	-7.3392
B 249.678	7.4693	ppb	0.4534	6.1	245.701
Ba 389.178	1.2519	ppb	0.3190	25.5	7.3467
Be 313.042	0.0145	ppb	0.0063	43.5	-239.376
Ca 370.602	69.65	ppb	1.389	2.0	222.5
Cd 226.502	0.1356	ppb	0.1028	75.8	13.9903
Co 228.615	-0.3023	ppb	0.3778	125.0	-8.3554
Cr 267.716	0.5610	ppb	0.1092	19.5	50.4614
Cu 324.754	0.4031	ppb	0.1471	36.5	153.863
Fe 271.441	15.5568	ppb	1.4684	9.4	41.0138
K 766.491	5.6475	ppb	0.1231	2.2	648.937
Mg 279.078	196.520	ppb	1.4462	0.7	572.627
Mn 257.610	0.1938	ppb	0.0229	11.8	139.476
Mo 202.032	0.5899	ppb	0.1974	33.5	9.0708
Na 330.237	5.1937	ppb	109.862	2115.3	40.5315
Ni 231.604	1.0256	ppb	0.1148	11.2	-1.4404
Pb 220.353	2.1046	ppb	0.7235	34.4	13.2100
Sb 206.834	-0.8626	ppb	0.7774	90.1	2.3057
Se 196.026	2.9660	ppb	3.5265	118.9	-0.1861
Sn 189.925	6.0826	ppb	1.9308	31.7	-5.1804
Sr 216.596	0.4125	ppb	0.2947	71.4	9.2107
Ti 334.941	0.2629	ppb	0.0291	11.1	19.5284
Tl 190.794	-0.7370	ppb	2.0468	277.7	-12.3509
V 292.401	0.3129	ppb	0.1312	41.9	2.5844
Zn 206.200	1.4828	ppb	0.6860	46.3	8.4101

lcs 680-295120/2-a (Samp) **9/25/2013, 3:18:35 PM** **Rack 1, Tube 47**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	59.0759	59.2031	59.6023
Al 308.215	5063.73	4994.33	5095.77
As 188.980	101.795	101.508	108.725
B 249.678	196.912	194.977	198.457
Ba 389.178	105.571	103.651	106.209
Be 313.042	52.0484	51.5325	52.4866
Ca 370.602	5408	5351	5448
Cd 226.502	51.5950	50.9037	51.9802
Co 228.615	52.3532	52.5555	53.1465
Cr 267.716	108.111	106.607	108.853
Cu 324.754	108.910	107.472	107.967
Fe 271.441	5085.69	5033.60	5129.01
K 766.491	5095.47	5021.73	5125.09
Mg 279.078	5145.46	5084.51	5177.28
Mn 257.610	541.794	535.015	545.214
Mo 202.032	105.662	103.612	105.606
Na 330.237	5320.21	5063.47	5481.40
Ni 231.604	104.701	104.573	104.094
Pb 220.353	54.4956	50.2491	52.3597
Sb 206.834	49.2275	47.1061	50.5230
Se 196.026	99.6092	102.339	106.072
Sn 189.925	215.153	212.260	212.454
Sr 216.596	104.075	103.350	105.143
Ti 334.941	103.523	102.241	104.422

Label	Replicates	Concentration	
Tl 190.794	42.0618	39.2011	40.7751
V 292.401	104.133	102.801	104.720
Zn 206.200	105.687	105.543	105.596

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	59.2938	ppb	0.2747	0.5	5033.18
Al 308.215	5051.28	ppb	51.8529	1.0	30428.9
As 188.980	104.009	ppb	4.0862	3.9	86.5127
B 249.678	196.782	ppb	1.7434	0.9	3824.20
Ba 389.178	105.144	ppb	1.3316	1.3	2523.81
Be 313.042	52.0225	ppb	0.4776	0.9	99244.3
Ca 370.602	5402	ppb	48.49	0.9	16233
Cd 226.502	51.4930	ppb	0.5454	1.1	2822.62
Co 228.615	52.6850	ppb	0.4122	0.8	710.907
Cr 267.716	107.857	ppb	1.1443	1.1	6184.12
Cu 324.754	108.116	ppb	0.7304	0.7	7224.83
Fe 271.441	5082.77	ppb	47.7755	0.9	9182.66
K 766.491	5080.76	ppb	53.2250	1.0	217897
Mg 279.078	5135.75	ppb	47.1398	0.9	14333.2
Mn 257.610	540.674	ppb	5.1907	1.0	137709
Mo 202.032	104.960	ppb	1.1679	1.1	846.709
Na 330.237	5288.36	ppb	210.774	4.0	276.925
Ni 231.604	104.456	ppb	0.3195	0.3	386.624
Pb 220.353	52.3682	ppb	2.1232	4.1	114.634
Sb 206.834	48.9522	ppb	1.7250	3.5	83.1577
Se 196.026	102.674	ppb	3.2444	3.2	61.2005
Sn 189.925	213.289	ppb	1.6169	0.8	210.824
Sr 216.596	104.189	ppb	0.9019	0.9	1607.08
Ti 334.941	103.395	ppb	1.0962	1.1	29582.5
Tl 190.794	40.6794	ppb	1.4327	3.5	45.4577
V 292.401	103.885	ppb	0.9837	0.9	2993.94
Zn 206.200	105.609	ppb	0.0726	0.1	178.406

680-94358-a-2-d (Samp) **9/25/2013, 3:23:11 PM** **Rack 1, Tube 48**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	-1.1281u	-0.4699u	-0.4912u
Al 308.215	37182.2	38085.1	38059.8
As 188.980	25.7209	21.1177	25.1179
B 249.678	9.4623	9.6966	9.2372
Ba 389.178	147.639	150.564	150.462
Be 313.042	1.0698	1.0959	1.0922
Ca 370.602	4687	4773	4780
Cd 226.502	-0.5836	-0.3012	-0.4413
Co 228.615	7.2216	7.6629	7.5272
Cr 267.716	51.1485	52.1233	52.3955
Cu 324.754	19.3451	20.1639	19.8928
Fe 271.441	43164.7	44162.3	44169.2
K 766.491	1525.19	1562.37	1561.91
Mg 279.078	2823.75	2893.74	2886.94
Mn 257.610	130.091	133.145	133.255
Mo 202.032	4.5646	4.4061	4.4196
Na 330.237	120.088u	289.899u	181.853u

Label	Replicates Concentration		
Ni 231.604	18.5908	18.6758	19.3514
Pb 220.353	3831.01	3913.21	3913.30
Sb 206.834	17.8442	12.0393	16.2884
Se 196.026	1.9571	-1.0831u	-6.2578u
Sn 189.925	10.6327	12.2721	12.5821
Sr 216.596	21.8859	22.1402	22.7725
Ti 334.941	540.397	552.964	554.333
Tl 190.794	-0.2769u	-4.5650u	0.3601u
V 292.401	97.1937	99.1309	99.3816
Zn 206.200	79.0847	81.0847	80.2175

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.6964	ppb	0.3740	53.7	-69.3907
Al 308.215	37775.7	ppb	514.152	1.4	227740
As 188.980	23.9855	ppb	2.5018	10.4	13.8268
B 249.678	9.4654	ppb	0.2297	2.4	168.566
Ba 389.178	149.555	ppb	1.6600	1.1	3640.21
Be 313.042	1.0860	ppb	0.0142	1.3	1809.26
Ca 370.602	4747	ppb	52.06	1.1	11488
Cd 226.502	-0.4421	ppb	0.1412	31.9	164.793
Co 228.615	7.4706	ppb	0.2260	3.0	113.353
Cr 267.716	51.8891	ppb	0.6556	1.3	2996.79
Cu 324.754	19.8006	ppb	0.4171	2.1	1442.21
Fe 271.441	43832.1	ppb	577.965	1.3	79019.4
K 766.491	1549.82	ppb	21.3319	1.4	66749.7
Mg 279.078	2868.15	ppb	38.5937	1.3	8015.51
Mn 257.610	132.164	ppb	1.7956	1.4	33870.7
Mo 202.032	4.4634	ppb	0.0879	2.0	37.5540
Na 330.237	197.280	ppb	85.9503	43.6	34.9601
Ni 231.604	18.8727	ppb	0.4167	2.2	66.8051
Pb 220.353	3885.84	ppb	47.4819	1.2	7836.43
Sb 206.834	15.3906	ppb	3.0048	19.5	30.8545
Se 196.026	-1.7946	ppb	4.1535	231.4	-2.8830
Sn 189.925	11.8290	ppb	1.0475	8.9	0.8105
Sr 216.596	22.2662	ppb	0.4565	2.1	400.328
Ti 334.941	549.231	ppb	7.6813	1.4	157277
Tl 190.794	-1.4939	ppb	2.6786	179.3	-17.3398
V 292.401	98.5687	ppb	1.1974	1.2	2867.44
Zn 206.200	80.1290	ppb	1.0029	1.3	137.375

Cont Calib Verif (CCV) **9/25/2013, 3:27:46 PM** **Rack 1, Tube 49**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	489.630	502.480	500.110
Al 308.215	4895.09	5011.08	4971.71
As 188.980	482.606	499.390	493.591
B 249.678	492.661	506.725	504.679
Ba 389.178	4965.35	5107.32	5080.33
Be 313.042	502.587	518.424	516.440
Ca 370.602	5079	5211	5175
Cd 226.502	501.782	515.595	514.331
Co 228.615	508.777	522.129	520.364
Cr 267.716	5103.51	5249.24	5232.76

Label	Replicates Concentration		
Cu 324.754	5152.01	5314.19	5265.87
Fe 271.441	4890.96	5018.35	4995.29
K 766.491	10278.1	10547.2	10485.5
Mg 279.078	5010.85	5147.58	5140.22
Mn 257.610	5123.03	5245.66	5229.10
Mo 202.032	507.570	519.632	521.289
Na 330.237	7010.98	7319.37	7566.44
Ni 231.604	2515.18	2561.17	2576.48
Pb 220.353	503.533	515.376	515.973
Sb 206.834	992.599	1010.03	1010.88
Se 196.026	5097.55	5230.84	5188.34
Sn 189.925	5063.11	5188.65	5168.62
Sr 216.596	2573.01	2642.22	2638.98
Ti 334.941	490.333	503.469	499.991
Tl 190.794	5135.62	5268.48	5239.46
V 292.401	5010.13	5146.38	5123.66
Zn 206.200	2533.78	2608.74	2606.82

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	497.407	ppb	6.8383	1.4	42243.0	99.48135
Al 308.215	4959.29	ppb	58.9826	1.2	29040.5	99.18578
As 188.980	491.862	ppb	8.5247	1.7	438.374	98.37244
B 249.678	501.355	ppb	7.5984	1.5	9602.92	100.27100
Ba 389.178	5051.00	ppb	75.3934	1.5	121307	101.02005
Be 313.042	512.483	ppb	8.6280	1.7	979956	102.49668
Ca 370.602	5155	ppb	67.90	1.3	15855	103.10107
Cd 226.502	510.569	ppb	7.6362	1.5	27739.8	102.11382
Co 228.615	517.090	ppb	7.2534	1.4	7029.45	103.41799
Cr 267.716	5195.17	ppb	79.8070	1.5	296835	103.90341
Cu 324.754	5244.02	ppb	83.2664	1.6	344120	104.88047
Fe 271.441	4968.20	ppb	67.8761	1.4	9088.53	99.36398
K 766.491	10436.9	ppb	140.998	1.4	447176	104.36925
Mg 279.078	5099.55	ppb	76.9036	1.5	14134.1	101.99100
Mn 257.610	5199.27	ppb	66.5365	1.3	1322953	103.98534
Mo 202.032	516.164	ppb	7.4884	1.5	4138.43	103.23274
Na 330.237	7298.93	ppb	278.292	3.8	334.770	97.31911
Ni 231.604	2550.94	ppb	31.9075	1.3	9564.47	102.03771
Pb 220.353	511.627	ppb	7.0161	1.4	1039.54	102.32543
Sb 206.834	1004.50	ppb	10.3167	1.0	1699.35	100.45016
Se 196.026	5172.24	ppb	68.0848	1.3	3174.32	103.44489
Sn 189.925	5140.13	ppb	67.4465	1.3	5346.73	102.80254
Sr 216.596	2618.07	ppb	39.0577	1.5	40180.9	104.72288
Ti 334.941	497.931	ppb	6.8062	1.4	142587	99.58620
Tl 190.794	5214.52	ppb	69.8535	1.3	7341.77	104.29036
V 292.401	5093.39	ppb	72.9949	1.4	147852	101.86781
Zn 206.200	2583.11	ppb	42.7354	1.7	4211.61	103.32455

Cont Calib Blank (CCB) **9/25/2013, 3:32:20 PM** **Rack 1, Tube 50**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.0539	0.0788	0.1449
Al 308.215	-1.2030u	-2.2158u	-2.8634u
As 188.980	4.7453	-0.6183u	2.7689

Label	Replicates Concentration		
B 249.678	2.5410	2.6439	2.1675
Ba 389.178	0.2607	0.0624	0.6218
Be 313.042	0.0043	0.0069	0.0074
Ca 370.602	-4.489u	-0.3161u	-3.739u
Cd 226.502	0.1592	0.0665	-0.1071u
Co 228.615	-0.2414u	-0.3112u	0.2185
Cr 267.716	-0.0015u	0.0001u	0.0246
Cu 324.754	-0.1643u	0.2462	-0.0426u
Fe 271.441	0.6789	4.9757	-0.5109u
K 766.491	-3.9082u	-4.1362u	-3.8595u
Mg 279.078	2.5346	-0.1985u	0.1627
Mn 257.610	-0.2404u	-0.2113u	-0.2017u
Mo 202.032	1.2838	1.1459	0.8038
Na 330.237	-7.3416u	-210.242u	-105.674u
Ni 231.604	1.0830	0.5671	0.8581
Pb 220.353	1.7548	1.5446	5.0800
Sb 206.834	1.6446	1.5844	1.8115
Se 196.026	-1.0220u	0.9211	3.9026
Sn 189.925	1.6374	-1.1637u	-2.3398u
Sr 216.596	-0.1988u	0.4726	0.4040
Ti 334.941	0.1525	0.0784	0.0316
Tl 190.794	-1.6909u	0.3834	0.2862
V 292.401	0.2065	0.1111	0.2522
Zn 206.200	-0.1595u	0.6847	0.2068

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.0925	ppb	0.0471	50.9	-2.2855	0.09254
Al 308.215	-2.0941	ppb	0.8369	40.0	-26.5078	-2.09408
As 188.980	2.2986	ppb	2.7125	118.0	-5.7582	2.29863
B 249.678	2.4508	ppb	0.2507	10.2	150.548	2.45078
Ba 389.178	0.3150	ppb	0.2836	90.0	-15.7162	0.31496
Be 313.042	0.0062	ppb	0.0017	26.8	-255.317	0.00619
Ca 370.602	-2.848	ppb	2.225	78.1	2.146	-2.84832
Cd 226.502	0.0395	ppb	0.1352	341.9	8.6788	0.03954
Co 228.615	-0.1114	ppb	0.2878	258.4	-5.7844	-0.11139
Cr 267.716	0.0077	ppb	0.0146	189.3	18.8359	0.00774
Cu 324.754	0.0131	ppb	0.2108	1611.2	128.292	0.01309
Fe 271.441	1.7146	ppb	2.8862	168.3	16.0881	1.71456
K 766.491	-3.9679	ppb	0.1477	3.7	237.332	-3.96793
Mg 279.078	0.8329	ppb	1.4847	178.3	26.9801	0.83292
Mn 257.610	-0.2178	ppb	0.0202	9.3	32.9190	-0.21779
Mo 202.032	1.0779	ppb	0.2471	22.9	12.9912	1.07786
Na 330.237	-107.752	ppb	101.466	94.2	35.4403	-107.75241
Ni 231.604	0.8361	ppb	0.2587	30.9	-2.1527	0.83609
Pb 220.353	2.7931	ppb	1.9833	71.0	14.5940	2.79315
Sb 206.834	1.6802	ppb	0.1176	7.0	6.3934	1.68017
Se 196.026	1.2672	ppb	2.4805	195.7	-1.2290	1.26723
Sn 189.925	-0.6220	ppb	2.0432	328.5	-12.1696	-0.62200
Sr 216.596	0.2260	ppb	0.3694	163.5	6.2914	0.22595
Ti 334.941	0.0875	ppb	0.0609	69.6	-31.6184	0.08750
Tl 190.794	-0.3404	ppb	1.1705	343.8	-11.7890	-0.34043
V 292.401	0.1899	ppb	0.0720	37.9	-1.0687	0.18994
Zn 206.200	0.2440	ppb	0.4233	173.5	6.3852	0.24400

680-94358-a-2-dSD^5 (Samp) **9/25/2013, 3:36:54 PM** **Rack 1, Tube 51**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.0992u	-0.2744u	0.0978
Al 308.215	7477.64	7236.21	7136.38
As 188.980	3.8168	6.1932	9.4314
B 249.678	3.4504	3.6996	3.2374
Ba 389.178	31.5311	29.5112	28.9678
Be 313.042	0.2160	0.2110	0.1972
Ca 370.602	955.5	937.9	926.7
Cd 226.502	0.0118	-0.0070	-0.0857
Co 228.615	1.5182	1.6287	0.8615
Cr 267.716	10.4183	10.0679	9.9546
Cu 324.754	4.1053	3.4351	3.8036
Fe 271.441	8672.93	8401.71	8256.19
K 766.491	299.173	292.031	288.809
Mg 279.078	585.521	568.692	559.716
Mn 257.610	26.3303	25.5204	25.2249
Mo 202.032	0.8640	1.7740	1.3735
Na 330.237	-3.6291u	0.0625u	-13.3129u
Ni 231.604	3.4199	4.3059	4.5711
Pb 220.353	778.986	753.860	746.510
Sb 206.834	6.8639	1.7037	6.0304
Se 196.026	4.5005	-0.0061	3.4461
Sn 189.925	1.3410	3.6105	1.7240
Sr 216.596	4.4817	4.5957	4.0527
Ti 334.941	107.424	104.299	102.795
Tl 190.794	0.1955u	1.7280	-1.6022u
V 292.401	19.4372	18.9229	18.0113
Zn 206.200	15.5348	16.2025	16.1127

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0919	ppb	0.1862	202.6	-17.9687
Al 308.215	7283.41	ppb	175.459	2.4	43898.5
As 188.980	6.4805	ppb	2.8183	43.5	-1.9815
B 249.678	3.4625	ppb	0.2314	6.7	147.587
Ba 389.178	30.0034	ppb	1.3507	4.5	711.145
Be 313.042	0.2080	ppb	0.0097	4.7	130.696
Ca 370.602	940.0	ppb	14.51	1.5	2300
Cd 226.502	-0.0270	ppb	0.0518	191.9	40.1592
Co 228.615	1.3361	ppb	0.4147	31.0	16.9794
Cr 267.716	10.1469	ppb	0.2417	2.4	600.786
Cu 324.754	3.7813	ppb	0.3357	8.9	378.531
Fe 271.441	8443.61	ppb	211.507	2.5	15232.4
K 766.491	293.337	ppb	5.3041	1.8	12964.0
Mg 279.078	571.310	ppb	13.1002	2.3	1616.40
Mn 257.610	25.6919	ppb	0.5723	2.2	6655.31
Mo 202.032	1.3372	ppb	0.4561	34.1	14.5689
Na 330.237	-5.6265	ppb	6.9078	122.8	37.3168
Ni 231.604	4.0990	ppb	0.6029	14.7	10.3369
Pb 220.353	759.785	ppb	17.0297	2.2	1539.44
Sb 206.834	4.8660	ppb	2.7701	56.9	11.9970
Se 196.026	2.6469	ppb	2.3572	89.1	-0.3387
Sn 189.925	2.2251	ppb	1.2149	54.6	-9.2015
Sr 216.596	4.3767	ppb	0.2863	6.5	80.7581

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ti 334.941	104.839	ppb	2.3614	2.3	29975.9
Tl 190.794	0.1071	ppb	1.6669	1556.0	-11.9140
V 292.401	18.7904	ppb	0.7221	3.8	541.355
Zn 206.200	15.9500	ppb	0.3624	2.3	32.1372

680-94358-a-2-dPDS (Samp) **9/25/2013, 3:41:28 PM** **Rack 1, Tube 52**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	48.1273	48.5657	47.6225
Al 308.215	39503.3	39411.4	38607.0
As 188.980	219.107	217.474	204.315
B 249.678	463.053	463.402	454.183
Ba 389.178	341.086	342.397	335.219
Be 313.042	49.6848	49.7405	48.8396
Ca 370.602	6500	6479	6379
Cd 226.502	47.6894	47.8940	46.8719
Co 228.615	201.629	200.781	197.176
Cr 267.716	246.461	247.066	242.124
Cu 324.754	219.929	219.967	216.326
Fe 271.441	45304.3	45250.1	44325.3
K 766.491	3473.50	3476.29	3416.32
Mg 279.078	4757.73	4765.17	4665.42
Mn 257.610	330.206	329.667	323.137
Mo 202.032	200.319	201.577	196.799
Na 330.237	2134.66	2204.88	2070.51
Ni 231.604	209.936	210.438	207.137
Pb 220.353	4048.18	4047.31	3963.52
Sb 206.834	195.602	199.866	198.506
Se 196.026	195.685	193.631	190.983
Sn 189.925	206.163	205.964	201.200
Sr 216.596	214.357	215.481	211.342
Ti 334.941	737.365	737.381	724.964
Tl 190.794	186.154	186.510	182.982
V 292.401	288.601	287.720	282.962
Zn 206.200	270.081	273.322	264.098

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	48.1052	ppb	0.4720	1.0	4075.75
Al 308.215	39173.9	ppb	493.059	1.3	236141
As 188.980	213.632	ppb	8.1102	3.8	185.879
B 249.678	460.213	ppb	5.2251	1.1	8717.57
Ba 389.178	339.567	ppb	3.8221	1.1	8211.30
Be 313.042	49.4216	ppb	0.5049	1.0	94248.7
Ca 370.602	6453	ppb	64.57	1.0	16728
Cd 226.502	47.4851	ppb	0.5408	1.1	2770.79
Co 228.615	199.862	ppb	2.3641	1.2	2724.92
Cr 267.716	245.217	ppb	2.6956	1.1	14042.6
Cu 324.754	218.741	ppb	2.0913	1.0	14498.8
Fe 271.441	44959.9	ppb	550.243	1.2	81080.4
K 766.491	3455.37	ppb	33.8502	1.0	148320
Mg 279.078	4729.44	ppb	55.5708	1.2	13201.2
Mn 257.610	327.670	ppb	3.9351	1.2	83631.7
Mo 202.032	199.565	ppb	2.4768	1.2	1603.85

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Na 330.237	2136.68	ppb	67.2070	3.1	119.510
Ni 231.604	209.170	ppb	1.7787	0.9	780.261
Pb 220.353	4019.67	ppb	48.6301	1.2	8105.52
Sb 206.834	197.991	ppb	2.1782	1.1	325.548
Se 196.026	193.433	ppb	2.3569	1.2	117.012
Sn 189.925	204.443	ppb	2.8096	1.4	201.599
Sr 216.596	213.727	ppb	2.1404	1.0	3336.73
Ti 334.941	733.237	ppb	7.1640	1.0	209990
Tl 190.794	185.215	ppb	1.9421	1.0	246.464
V 292.401	286.428	ppb	3.0332	1.1	8292.21
Zn 206.200	269.167	ppb	4.6796	1.7	445.912

680-94358-a-2-e ms (Samp) **9/25/2013, 3:46:03 PM** **Rack 1, Tube 53**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	87.6727	89.8073	89.5513
Al 308.215	40633.0	41824.1	41557.4
As 188.980	5687.88	5882.58	5809.34
B 249.678	172.397	177.535	176.793
Ba 389.178	234.166	239.378	238.164
Be 313.042	51.8979	53.1708	52.8925
Ca 370.602	9201	9437	9400
Cd 226.502	49.9565	51.7863	51.3173
Co 228.615	58.9541	59.6786	59.8536
Cr 267.716	152.867	156.433	155.948
Cu 324.754	132.688	135.704	133.823
Fe 271.441	46061.6	47265.8	47078.1
K 766.491	6430.53	6593.01	6542.74
Mg 279.078	7526.73	7717.44	7676.80
Mn 257.610	656.930	675.196	671.081
Mo 202.032	103.163	105.839	104.405
Na 330.237	5181.81	5620.84	5098.01
Ni 231.604	117.786	119.318	120.911
Pb 220.353	336064x	345736x	343426x
Sb 206.834	18624.8x	19172.3x	19114.8x
Se 196.026	92.6718	102.262	99.2093
Sn 189.925	202.516	212.682	208.072
Sr 216.596	121.039	125.324	124.949
Ti 334.941	428.747	441.698	436.020
Tl 190.794	44.4074	50.9783	47.9006
V 292.401	194.514	199.199	198.372
Zn 206.200	173.212	180.647	182.967

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	89.0104b	ppb	1.1656	1.3	7561.87
Al 308.215	41338.2b	ppb	625.086	1.5	249206
As 188.980	5793.27b	ppb	98.3395	1.7	5250.05
B 249.678	175.575b	ppb	2.7772	1.6	3312.19
Ba 389.178	237.236b	ppb	2.7271	1.1	5763.89
Be 313.042	52.6537b	ppb	0.6692	1.3	100360
Ca 370.602	9346b	ppb	127.2	1.4	25299
Cd 226.502	51.0200b	ppb	0.9504	1.9	2977.91
Co 228.615	59.4955b	ppb	0.4769	0.8	814.019

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Cr 267.716	155.083b	ppb	1.9342	1.2	8895.02
Cu 324.754	134.072b	ppb	1.5234	1.1	8942.55
Fe 271.441	46801.8b	ppb	647.886	1.4	84380.2
K 766.491	6522.09b	ppb	83.1849	1.3	279596
Mg 279.078	7640.32b	ppb	100.455	1.3	21310.4
Mn 257.610	667.736b	ppb	9.5815	1.4	170184
Mo 202.032	104.469b	ppb	1.3392	1.3	840.264
Na 330.237	5300.22b	ppb	280.813	5.3	264.456
Ni 231.604	119.338b	ppb	1.5628	1.3	443.690
Pb 220.353	341742xb	ppb	5051.37	1.5	688173
Sb 206.834	18970.7xb	ppb	300.868	1.6	30673.0
Se 196.026	98.0477b	ppb	4.8995	5.0	58.5766
Sn 189.925	207.757b	ppb	5.0905	2.5	205.057
Sr 216.596	123.771b	ppb	2.3731	1.9	1960.76
Ti 334.941	435.488b	ppb	6.4915	1.5	124721
Tl 190.794	47.7621b	ppb	3.2876	6.9	51.7002
V 292.401	197.362b	ppb	2.5003	1.3	5717.44
Zn 206.200	178.942b	ppb	5.0958	2.8	298.671

680-94358-a-2-f msd (Samp) **9/25/2013, 3:50:37 PM** **Rack 1, Tube 54**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	57.5748	57.8099	56.9674
Al 308.215	50862.0	50864.2	50705.1
As 188.980	130.685	135.865	132.866
B 249.678	171.112	171.138	171.360
Ba 389.178	264.847	263.627	264.842
Be 313.042	52.0034	51.9003	51.9501
Ca 370.602	9783	9784	9745
Cd 226.502	49.7625	49.8483	49.7324
Co 228.615	59.7177	59.2913	59.9230
Cr 267.716	162.637	162.649	162.595
Cu 324.754	126.333	128.525	126.637
Fe 271.441	51833.9	51684.2	51654.2
K 766.491	6688.44	6683.37	6682.10
Mg 279.078	8246.93	8246.80	8228.28
Mn 257.610	645.932	645.451	644.352
Mo 202.032	102.221	102.304	102.546
Na 330.237	5128.42	5188.23	5391.34
Ni 231.604	121.075	122.470	122.779
Pb 220.353	4697.43	4684.06	4690.44
Sb 206.834	163.354	150.847	144.838
Se 196.026	90.9903	85.2582	84.7256
Sn 189.925	208.531	208.228	210.222
Sr 216.596	126.281	125.988	126.103
Ti 334.941	616.062	618.962	616.615
Tl 190.794	38.0439	37.4257	38.0677
V 292.401	207.112	206.464	205.552
Zn 206.200	191.548	189.210	191.331

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	57.4507	ppb	0.4348	0.8	4876.33
Al 308.215	50810.5	ppb	91.2440	0.2	306318

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	133.139	ppb	2.6006	2.0	112.927
B 249.678	171.203	ppb	0.1363	0.1	3216.36
Ba 389.178	264.438	ppb	0.7032	0.3	6425.94
Be 313.042	51.9513	ppb	0.0516	0.1	99107.9
Ca 370.602	9771	ppb	22.41	0.2	26317
Cd 226.502	49.7811	ppb	0.0601	0.1	2923.82
Co 228.615	59.6440	ppb	0.3222	0.5	821.078
Cr 267.716	162.627	ppb	0.0283	0.0	9327.79
Cu 324.754	127.165	ppb	1.1872	0.9	8491.12
Fe 271.441	51724.1	ppb	96.2403	0.2	93252.4
K 766.491	6684.64	ppb	3.3508	0.1	286554
Mg 279.078	8240.67	ppb	10.7339	0.1	22982.4
Mn 257.610	645.245	ppb	0.8098	0.1	164482
Mo 202.032	102.357	ppb	0.1689	0.2	823.018
Na 330.237	5235.99	ppb	137.815	2.6	259.530
Ni 231.604	122.108	ppb	0.9080	0.7	454.229
Pb 220.353	4690.64	ppb	6.6870	0.1	9457.35
Sb 206.834	153.013	ppb	9.4464	6.2	253.921
Se 196.026	86.9914	ppb	3.4734	4.0	51.8040
Sn 189.925	208.994	ppb	1.0743	0.5	206.346
Sr 216.596	126.124	ppb	0.1478	0.1	2003.13
Ti 334.941	617.213	ppb	1.5399	0.2	176775
Tl 190.794	37.8458	ppb	0.3640	1.0	37.3032
V 292.401	206.376	ppb	0.7838	0.4	5982.46
Zn 206.200	190.696	ppb	1.2919	0.7	317.928

680-94358-a-2-d^100 (Samp) **9/25/2013, 3:55:12 PM** **Rack 1, Tube 55**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.0434	-0.0572u	0.0641
Al 308.215	369.201	368.858	371.402
As 188.980	-1.9314u	4.0472	-0.3693u
B 249.678	1.8488	1.3672	1.6192
Ba 389.178	1.6394	1.9877	1.4864
Be 313.042	0.0175	0.0193	0.0184
Ca 370.602	49.75	50.80	45.64
Cd 226.502	0.2297	0.1993	0.0804
Co 228.615	0.1253	-0.4087u	-0.4047u
Cr 267.716	0.4605	0.4834	0.5557
Cu 324.754	-0.0811u	0.2529	0.0145
Fe 271.441	437.729	428.983	438.440
K 766.491	11.3380	11.1532	11.9728
Mg 279.078	33.2142	28.4661	29.5215
Mn 257.610	1.1438	1.0972	1.0867
Mo 202.032	0.6059	0.8195	0.9058
Na 330.237	-59.2828u	-32.7550u	-123.455u
Ni 231.604	1.6015	0.5611	1.4943
Pb 220.353	41.1459	40.1358	42.3573
Sb 206.834	14.7671	19.4943	17.6622
Se 196.026	1.3173	1.4525	-0.2895u
Sn 189.925	0.6555	0.2980	-0.8076u
Sr 216.596	0.4315	0.5130	0.5125
Ti 334.941	5.5068	5.4756	5.6281

Label	Replicates Concentration		
Tl 190.794	1.0972	-0.3380u	-1.2535u
V 292.401	0.7188	0.9256	1.0937
Zn 206.200	1.3252	1.3039	0.1313

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0168	ppb	0.0649	387.2	-8.7227
Al 308.215	369.820	ppb	1.3802	0.4	2215.83
As 188.980	0.5822	ppb	3.1008	532.6	-7.3169
B 249.678	1.6117	ppb	0.2409	14.9	133.492
Ba 389.178	1.7045	ppb	0.2569	15.1	18.3665
Be 313.042	0.0184	ppb	0.0009	4.9	-231.946
Ca 370.602	48.73	ppb	2.728	5.6	129.9
Cd 226.502	0.1698	ppb	0.0789	46.5	17.5492
Co 228.615	-0.2294	ppb	0.3071	133.9	-7.2136
Cr 267.716	0.4999	ppb	0.0497	9.9	47.0921
Cu 324.754	0.0621	ppb	0.1720	277.0	131.652
Fe 271.441	435.051	ppb	5.2668	1.2	797.141
K 766.491	11.4880	ppb	0.4299	3.7	898.948
Mg 279.078	30.4006	ppb	2.4932	8.2	109.361
Mn 257.610	1.1092	ppb	0.0304	2.7	372.110
Mo 202.032	0.7771	ppb	0.1544	19.9	10.5502
Na 330.237	-71.8309	ppb	46.6339	64.9	36.9327
Ni 231.604	1.2190	ppb	0.5722	46.9	-0.7030
Pb 220.353	41.2130	ppb	1.1123	2.7	91.9858
Sb 206.834	17.3079	ppb	2.3835	13.8	31.6865
Se 196.026	0.8268	ppb	0.9691	117.2	-1.4971
Sn 189.925	0.0486	ppb	0.7628	1568.6	-11.4705
Sr 216.596	0.4856	ppb	0.0469	9.7	10.8339
Ti 334.941	5.5368	ppb	0.0806	1.5	1529.40
Tl 190.794	-0.1648	ppb	1.1849	719.0	-11.5809
V 292.401	0.9127	ppb	0.1878	20.6	20.0879
Zn 206.200	0.9201	ppb	0.6833	74.3	7.4944

680-94358-a-2-e ms (Samp) **9/25/2013, 3:59:47 PM** **Rack 1, Tube 56**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.8984	0.9748	1.2056
Al 308.215	401.219	393.255	394.252
As 188.980	57.9327	54.4912	55.5891
B 249.678	2.8670	3.2067	2.5033
Ba 389.178	3.0176	2.2675	2.9166
Be 313.042	0.5179	0.5192	0.5115
Ca 370.602	95.59	94.69	94.04
Cd 226.502	0.7574	0.7049	0.6517
Co 228.615	0.4764	0.5445	0.7260
Cr 267.716	1.7169	1.5352	1.5998
Cu 324.754	1.2930	1.0870	1.0758
Fe 271.441	469.002	469.256	460.782
K 766.491	58.6010	57.9377	57.4031
Mg 279.078	80.6840	75.7864	75.3503
Mn 257.610	6.4274	6.3949	6.3298
Mo 202.032	1.6763	1.5540	1.5858
Na 330.237	102.019	-166.029u	-18.9007u

Label	Replicates Concentration		
Ni 231.604	1.8672	2.0007	2.1936
Pb 220.353	3596.63	3548.48	3544.21
Sb 206.834	198.119	192.637	187.289
Se 196.026	-5.9737u	-5.4411u	-0.6817u
Sn 189.925	2.2045	1.0341	1.3960
Sr 216.596	1.2098	0.9800	1.7496
Ti 334.941	4.3783	4.2707	4.2033
Tl 190.794	-2.0522u	0.6263	0.0622
V 292.401	1.9266	1.9009	1.5418
Zn 206.200	1.2185	2.9110	1.2969

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	1.0263	ppb	0.1600	15.6	77.1448
Al 308.215	396.242	ppb	4.3392	1.1	2375.01
As 188.980	56.0043	ppb	1.7579	3.1	42.9844
B 249.678	2.8590	ppb	0.3518	12.3	157.069
Ba 389.178	2.7339	ppb	0.4070	14.9	43.2699
Be 313.042	0.5162	ppb	0.0041	0.8	719.438
Ca 370.602	94.77	ppb	0.7761	0.8	267.9
Cd 226.502	0.7047	ppb	0.0529	7.5	46.7964
Co 228.615	0.5823	ppb	0.1290	22.2	3.7540
Cr 267.716	1.6173	ppb	0.0921	5.7	110.959
Cu 324.754	1.1520	ppb	0.1223	10.6	203.185
Fe 271.441	466.347	ppb	4.8208	1.0	853.667
K 766.491	57.9806	ppb	0.6001	1.0	2889.14
Mg 279.078	77.2735	ppb	2.9616	3.8	239.947
Mn 257.610	6.3840	ppb	0.0497	0.8	1714.66
Mo 202.032	1.6054	ppb	0.0635	4.0	17.1982
Na 330.237	-27.6370	ppb	134.237	485.7	38.9172
Ni 231.604	2.0205	ppb	0.1641	8.1	2.3031
Pb 220.353	3563.11	ppb	29.1082	0.8	7183.98
Sb 206.834	192.682	ppb	5.4153	2.8	315.192
Se 196.026	-4.0321	ppb	2.9138	72.3	-4.4778
Sn 189.925	1.5449	ppb	0.5992	38.8	-9.9108
Sr 216.596	1.3131	ppb	0.3951	30.1	23.5645
Ti 334.941	4.2841	ppb	0.0883	2.1	1170.83
Tl 190.794	-0.4546	ppb	1.4120	310.6	-11.9926
V 292.401	1.7898	ppb	0.2151	12.0	45.3860
Zn 206.200	1.8088	ppb	0.9553	52.8	8.9443

680-94358-a-2-f msd (Samp) **9/25/2013, 4:04:23 PM** **Rack 1, Tube 57**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.2184	0.5570	0.5728
Al 308.215	482.289	496.835	490.466
As 188.980	1.8616	0.1527	2.2823
B 249.678	2.6245	2.5803	1.7155
Ba 389.178	2.7085	3.6184	2.7517
Be 313.042	0.4932	0.5046	0.5044
Ca 370.602	94.57	96.98	94.90
Cd 226.502	0.6109	0.6028	0.5794
Co 228.615	0.6907	0.6427	1.1250
Cr 267.716	1.7528	1.6978	1.6894

Label	Replicates Concentration		
Cu 324.754	1.6026	1.0593	0.7204
Fe 271.441	510.221	524.990	514.538
K 766.491	58.6792	60.3694	59.5238
Mg 279.078	82.7800	81.7986	83.4897
Mn 257.610	6.1103	6.2192	6.1614
Mo 202.032	1.4633	1.3750	2.0579
Na 330.237	75.0354	-46.1745u	-50.2220u
Ni 231.604	0.7668	1.2978	2.6905
Pb 220.353	49.0415	47.8218	47.6844
Sb 206.834	8.7479	2.4632	4.8718
Se 196.026	-2.3189u	-5.9553u	-4.2935u
Sn 189.925	0.7410	1.6017	-0.9374u
Sr 216.596	1.5359	1.8043	1.6768
Ti 334.941	6.0605	6.1445	5.9819
Tl 190.794	1.2991	-1.5705u	-0.0451u
V 292.401	1.8448	1.9928	1.8030
Zn 206.200	0.9703	1.7805	2.1737

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.4494	ppb	0.2002	44.6	28.0446
Al 308.215	489.863	ppb	7.2915	1.5	2939.48
As 188.980	1.4322	ppb	1.1279	78.7	-6.5452
B 249.678	2.3068	ppb	0.5125	22.2	146.467
Ba 389.178	3.0262	ppb	0.5133	17.0	50.3720
Be 313.042	0.5007	ppb	0.0066	1.3	690.717
Ca 370.602	95.48	ppb	1.304	1.4	267.3
Cd 226.502	0.5977	ppb	0.0164	2.7	41.1089
Co 228.615	0.8195	ppb	0.2657	32.4	7.0218
Cr 267.716	1.7133	ppb	0.0344	2.0	116.465
Cu 324.754	1.1274	ppb	0.4451	39.5	201.595
Fe 271.441	516.583	ppb	7.5940	1.5	944.250
K 766.491	59.5241	ppb	0.8451	1.4	2955.21
Mg 279.078	82.6894	ppb	0.8492	1.0	255.031
Mn 257.610	6.1636	ppb	0.0545	0.9	1658.76
Mo 202.032	1.6320	ppb	0.3715	22.8	17.4097
Na 330.237	-7.1204	ppb	71.1777	999.6	39.8315
Ni 231.604	1.5850	ppb	0.9935	62.7	0.6699
Pb 220.353	48.1826	ppb	0.7470	1.6	106.024
Sb 206.834	5.3609	ppb	3.1708	59.1	12.3825
Se 196.026	-4.1893	ppb	1.8204	43.5	-4.5741
Sn 189.925	0.4684	ppb	1.2913	275.7	-11.0328
Sr 216.596	1.6723	ppb	0.1343	8.0	29.1551
Ti 334.941	6.0623	ppb	0.0813	1.3	1680.17
Tl 190.794	-0.1055	ppb	1.4358	1361.1	-11.5034
V 292.401	1.8802	ppb	0.0997	5.3	48.0268
Zn 206.200	1.6415	ppb	0.6136	37.4	8.6706

X (Samp) **9/25/2013, 4:08:58 PM** **Rack 1, Tube 58**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.2418	0.1948	0.4706
Al 308.215	-2.7887u	-5.1393u	-6.8526u
As 188.980	3.1636	4.8101	5.6454

Label	Replicates Concentration		
B 249.678	-3.4622u	-3.3355u	-3.3520u
Ba 389.178	-0.2972u	-0.3720u	-0.3276u
Be 313.042	-0.0579u	-0.0549u	-0.0641u
Ca 370.602	-5.364u	-3.640u	-5.573u
Cd 226.502	0.0092	0.0091	-0.0124u
Co 228.615	0.1778	0.0457	0.2811
Cr 267.716	-0.0676u	-0.1133u	-0.1132u
Cu 324.754	-1.8017u	-1.8634u	-1.7846u
Fe 271.441	-0.5777u	-1.0304u	-3.1633u
K 766.491	-6.4077u	-6.5851u	-6.6050u
Mg 279.078	-6.1386u	-8.5047u	-6.0813u
Mn 257.610	-0.2767u	-0.2833u	-0.2936u
Mo 202.032	-0.0779u	-0.2047u	-0.1563u
Na 330.237	-295.967u	-349.623u	-302.413u
Ni 231.604	0.5678	0.8926	1.4732
Pb 220.353	0.8100	-0.5832u	-0.0590u
Sb 206.834	0.1690	-2.2448u	-1.1842u
Se 196.026	1.3658	2.1915	0.9023
Sn 189.925	4.8630	5.1386	5.5152
Sr 216.596	0.1515	0.2697	0.2064
Ti 334.941	0.9414	0.9368	0.7082
Tl 190.794	2.8152	3.5917	2.8781
V 292.401	0.1434	0.0638	-0.0028u
Zn 206.200	-2.1463u	-2.2647u	-2.5579u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.3024	ppb	0.1476	48.8	15.5617
Al 308.215	-4.9269	ppb	2.0403	41.4	-43.6401
As 188.980	4.5397	ppb	1.2628	27.8	-3.7242
B 249.678	-3.3832	ppb	0.0689	2.0	39.8850
Ba 389.178	-0.3322	ppb	0.0376	11.3	-31.2972
Be 313.042	-0.0590	ppb	0.0047	8.0	-379.772
Ca 370.602	-4.859	ppb	1.061	21.8	-2.886
Cd 226.502	0.0020	ppb	0.0124	625.6	6.6033
Co 228.615	0.1682	ppb	0.1180	70.2	-1.9335
Cr 267.716	-0.0980	ppb	0.0264	26.9	12.7896
Cu 324.754	-1.8166	ppb	0.0415	2.3	8.2117
Fe 271.441	-1.5905	ppb	1.3808	86.8	10.1659
K 766.491	-6.5326	ppb	0.1086	1.7	127.547
Mg 279.078	-6.9082	ppb	1.3829	20.0	5.4127
Mn 257.610	-0.2845	ppb	0.0085	3.0	15.8509
Mo 202.032	-0.1463	ppb	0.0640	43.7	3.1614
Na 330.237	-316.001	ppb	29.2952	9.3	26.0363
Ni 231.604	0.9778	ppb	0.4587	46.9	-1.6220
Pb 220.353	0.0559	ppb	0.7037	1258.1	9.0836
Sb 206.834	-1.0867	ppb	1.2098	111.3	1.9643
Se 196.026	1.4865	ppb	0.6530	43.9	-1.0945
Sn 189.925	5.1723	ppb	0.3274	6.3	-6.1295
Sr 216.596	0.2092	ppb	0.0591	28.3	6.0426
Ti 334.941	0.8621	ppb	0.1333	15.5	190.235
Tl 190.794	3.0950	ppb	0.4313	13.9	-6.9431
V 292.401	0.0681	ppb	0.0732	107.5	-4.3786
Zn 206.200	-2.3230	ppb	0.2119	9.1	2.1855

X (Samp) **9/25/2013, 4:13:35 PM** **Rack 1, Tube 59**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.0389u	0.2338	0.2534
Al 308.215	-13.7630u	-13.5452u	-12.6958u
As 188.980	4.9284	4.6209	4.8681
B 249.678	-3.3808u	-3.3871u	-3.2127u
Ba 389.178	-0.3096u	0.0665	-0.5221u
Be 313.042	-0.0554u	-0.0559u	-0.0586u
Ca 370.602	-5.540u	-4.173u	-1.462u
Cd 226.502	0.0001u	0.0772	0.0175
Co 228.615	0.1849	0.1370	0.0680
Cr 267.716	-0.0977u	-0.1046u	-0.0635u
Cu 324.754	-1.7058u	-2.0410u	-1.9082u
Fe 271.441	-3.5190u	0.2813	-0.3231u
K 766.491	-6.6845u	-6.8936u	-7.1041u
Mg 279.078	-6.7736u	-7.6287u	-7.7852u
Mn 257.610	-0.3040u	-0.2856u	-0.2859u
Mo 202.032	-0.0811u	-0.1024u	0.1600
Na 330.237	-383.144u	-408.263u	-361.939u
Ni 231.604	0.7922	0.7696	0.7172
Pb 220.353	-1.1606u	-0.5271u	-0.3397u
Sb 206.834	-2.7784u	-2.5416u	-2.5749u
Se 196.026	1.8636	1.1394	0.3915
Sn 189.925	5.1940	5.5643	4.9099
Sr 216.596	0.2712	-0.0064u	0.0230
Ti 334.941	0.1391	0.1008	0.2035
Tl 190.794	4.5021	1.1846	3.7274
V 292.401	-0.1521u	-0.0353u	-0.0589u
Zn 206.200	-2.3428u	-2.5592u	-2.6656u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1494	ppb	0.1634	109.4	2.5460
Al 308.215	-13.3347	ppb	0.5639	4.2	-94.3031
As 188.980	4.8058	ppb	0.1629	3.4	-3.4829
B 249.678	-3.3269	ppb	0.0989	3.0	40.9526
Ba 389.178	-0.2551	ppb	0.2981	116.8	-29.4443
Be 313.042	-0.0566	ppb	0.0017	3.1	-375.271
Ca 370.602	-3.725	ppb	2.076	55.7	0.1714
Cd 226.502	0.0316	ppb	0.0404	128.0	8.2132
Co 228.615	0.1300	ppb	0.0588	45.2	-2.4750
Cr 267.716	-0.0886	ppb	0.0220	24.9	13.3257
Cu 324.754	-1.8850	ppb	0.1688	9.0	3.7260
Fe 271.441	-1.1869	ppb	2.0421	172.1	10.8873
K 766.491	-6.8941	ppb	0.2098	3.0	112.074
Mg 279.078	-7.3958	ppb	0.5445	7.4	4.0567
Mn 257.610	-0.2918	ppb	0.0105	3.6	13.9903
Mo 202.032	-0.0078	ppb	0.1457	1860.8	4.2737
Na 330.237	-384.449	ppb	23.1897	6.0	22.9370
Ni 231.604	0.7596	ppb	0.0385	5.1	-2.4405
Pb 220.353	-0.6758	ppb	0.4302	63.7	7.6107
Sb 206.834	-2.6316	ppb	0.1282	4.9	-0.5349
Se 196.026	1.1315	ppb	0.7361	65.1	-1.3124
Sn 189.925	5.2227	ppb	0.3281	6.3	-6.0770
Sr 216.596	0.0959	ppb	0.1525	158.8	4.3098

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ti 334.941	0.1478	ppb	0.0519	35.1	-14.3659
Tl 190.794	3.1381	ppb	1.7355	55.3	-6.8827
V 292.401	-0.0821	ppb	0.0617	75.2	-8.7838
Zn 206.200	-2.5225	ppb	0.1645	6.5	1.8589

CRI (Samp) **9/25/2013, 4:18:47 PM** **Rack 1, Tube 60**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	10.3847	10.0515	10.2877
Al 308.215	212.139	211.610	213.805
As 188.980	24.7340	20.3935	22.9659
B 249.678	102.899	101.076	101.660
Ba 389.178	11.1708	11.1621	11.2937
Be 313.042	4.2898	4.2500	4.2709
Ca 370.602	531.1	521.9	527.4
Cd 226.502	5.4049	5.3690	5.3390
Co 228.615	10.7791	10.2623	10.2213
Cr 267.716	10.8089	10.5061	10.6539
Cu 324.754	21.5951	20.8284	21.0252
Fe 271.441	53.0463	56.0816	55.4033
K 766.491	1040.39	1026.70	1032.88
Mg 279.078	539.060	539.371	541.344
Mn 257.610	10.9392	10.7948	10.8208
Mo 202.032	10.2821	10.3623	10.8293
Na 330.237	1066.76	994.838	940.804
Ni 231.604	43.6920	43.3706	43.8331
Pb 220.353	12.3887	13.3525	11.4021
Sb 206.834	22.5584	18.8765	23.4886
Se 196.026	25.0801	25.1298	18.6802
Sn 189.925	49.4495	48.3184	51.7992
Sr 216.596	10.5880	10.6084	11.0472
Ti 334.941	10.0895	10.0041	10.0513
Tl 190.794	26.0537	25.6518	26.2829
V 292.401	10.5106	10.4404	10.0820
Zn 206.200	20.5275	20.5986	19.4124

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	10.2413	ppb	0.1714	1.7	860.841
Al 308.215	212.518	ppb	1.1457	0.5	1265.86
As 188.980	22.6978	ppb	2.1826	9.6	12.7549
B 249.678	101.879	ppb	0.9309	0.9	2036.83
Ba 389.178	11.2089	ppb	0.0736	0.7	247.498
Be 313.042	4.2702	ppb	0.0199	0.5	7900.90
Ca 370.602	526.8	ppb	4.629	0.9	1625
Cd 226.502	5.3710	ppb	0.0330	0.6	298.282
Co 228.615	10.4209	ppb	0.3109	3.0	137.199
Cr 267.716	10.6563	ppb	0.1514	1.4	627.233
Cu 324.754	21.1496	ppb	0.3982	1.9	1515.19
Fe 271.441	54.8437	ppb	1.5931	2.9	113.393
K 766.491	1033.32	ppb	6.8562	0.7	44640.1
Mg 279.078	539.925	ppb	1.2387	0.2	1529.89
Mn 257.610	10.8516	ppb	0.0770	0.7	2854.20
Mo 202.032	10.4912	ppb	0.2955	2.8	88.5604

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Na 330.237	1000.80	ppb	63.1895	6.3	85.3629
Ni 231.604	43.6319	ppb	0.2370	0.5	158.388
Pb 220.353	12.3811	ppb	0.9752	7.9	33.8783
Sb 206.834	21.6412	ppb	2.4390	11.3	38.6970
Se 196.026	22.9634	ppb	3.7094	16.2	12.0917
Sn 189.925	49.8557	ppb	1.7756	3.6	40.4508
Sr 216.596	10.7479	ppb	0.2594	2.4	166.960
Ti 334.941	10.0483	ppb	0.0428	0.4	2823.83
Tl 190.794	25.9961	ppb	0.3195	1.2	25.3733
V 292.401	10.3443	ppb	0.2299	2.2	292.362
Zn 206.200	20.1795	ppb	0.6653	3.3	38.9613

Cont Calib Verif (CCV) **9/25/2013, 4:23:23 PM** **Rack 2, Tube 1**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	504.973	492.678	490.135
Al 308.215	5029.70	4908.88	4902.80
As 188.980	499.032	492.039	491.010
B 249.678	504.950	495.478	495.681
Ba 389.178	5108.91	4978.59	4972.47
Be 313.042	520.255	506.133	504.816
Ca 370.602	5228	5082	5097
Cd 226.502	516.347	504.861	505.013
Co 228.615	523.465	510.854	510.014
Cr 267.716	5238.09	5115.20	5100.58
Cu 324.754	5295.53	5161.55	5121.12
Fe 271.441	5023.85	4909.12	4901.88
K 766.491	10529.2	10273.3	10270.5
Mg 279.078	5161.15	5040.35	5024.34
Mn 257.610	5282.18	5164.17	5148.20
Mo 202.032	518.737	510.497	509.260
Na 330.237	7442.79	7319.62	7047.49
Ni 231.604	2581.05	2532.13	2524.89
Pb 220.353	519.506	504.443	509.076
Sb 206.834	1012.87	993.221	992.360
Se 196.026	5219.50	5117.31	5114.17
Sn 189.925	5208.44	5103.15	5078.33
Sr 216.596	2645.70	2585.37	2582.73
Ti 334.941	502.925	489.749	489.573
Tl 190.794	5262.41	5141.28	5144.00
V 292.401	5153.72	5023.16	5007.93
Zn 206.200	2611.15	2556.94	2564.30

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	495.929	ppb	7.9350	1.6	42118.2	99.18575
Al 308.215	4947.12	ppb	71.5737	1.4	28972.4	98.94249
As 188.980	494.027	ppb	4.3648	0.9	440.339	98.80536
B 249.678	498.703	ppb	5.4113	1.1	9552.69	99.74061
Ba 389.178	5019.99	ppb	77.0663	1.5	120562	100.39975
Be 313.042	510.401	ppb	8.5586	1.7	975974	102.08028
Ca 370.602	5136	ppb	80.42	1.6	15795	102.71379
Cd 226.502	508.740	ppb	6.5879	1.3	27640.4	101.74802
Co 228.615	514.778	ppb	7.5354	1.5	6997.90	102.95552

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Cr 267.716	5151.29	ppb	75.5230	1.5	294328	103.02583
Cu 324.754	5192.73	ppb	91.2941	1.8	340755	103.85464
Fe 271.441	4944.95	ppb	68.4227	1.4	9045.97	98.89899
K 766.491	10357.6	ppb	148.536	1.4	443783	103.57649
Mg 279.078	5075.28	ppb	74.7914	1.5	14066.6	101.50562
Mn 257.610	5198.19	ppb	73.1769	1.4	1322678	103.96370
Mo 202.032	512.831	ppb	5.1517	1.0	4111.74	102.56628
Na 330.237	7269.97	ppb	202.274	2.8	333.510	96.93291
Ni 231.604	2546.02	ppb	30.5482	1.2	9546.02	101.84089
Pb 220.353	511.008	ppb	7.7153	1.5	1038.30	102.20165
Sb 206.834	999.483	ppb	11.6001	1.2	1690.66	99.94832
Se 196.026	5150.33	ppb	59.9240	1.2	3160.86	103.00655
Sn 189.925	5129.97	ppb	69.0763	1.3	5336.15	102.59943
Sr 216.596	2604.60	ppb	35.6190	1.4	39973.9	104.18406
Ti 334.941	494.082	ppb	7.6585	1.6	141485	98.81644
Tl 190.794	5182.56	ppb	69.1634	1.3	7296.70	103.65122
V 292.401	5061.60	ppb	80.1402	1.6	146930	101.23204
Zn 206.200	2577.46	ppb	29.4008	1.1	4202.54	103.09859

Cont Calib Blank (CCB) **9/25/2013, 4:27:58 PM** **Rack 2, Tube 2**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	0.1641	0.1371	-0.0597u
Al 308.215	-1.2417u	0.4888	-2.7808u
As 188.980	3.1641	2.9310	2.7316
B 249.678	1.3436	2.0248	1.2308
Ba 389.178	-0.1998u	-0.3143u	0.2525
Be 313.042	0.0064	0.0034	0.0035
Ca 370.602	-5.957u	-2.854u	-3.220u
Cd 226.502	0.0049	0.1120	-0.0025u
Co 228.615	-0.3738u	-0.4678u	0.5610
Cr 267.716	0.2040	0.0320	0.2279
Cu 324.754	0.4428	0.1184	0.4702
Fe 271.441	-6.3599u	-4.9722u	-2.6654u
K 766.491	-4.3256u	-3.7937u	-3.8413u
Mg 279.078	1.4358	3.3191	2.9840
Mn 257.610	-0.2066u	-0.2422u	-0.2038u
Mo 202.032	1.7691	0.8165	0.8433
Na 330.237	-113.374u	138.479	-106.805u
Ni 231.604	-0.3780u	1.0833	0.2397
Pb 220.353	0.5843	2.1867	1.8708
Sb 206.834	3.6852	1.1602	2.4864
Se 196.026	-1.5832u	0.9810	-0.2898u
Sn 189.925	0.0057	-2.8941u	0.6497
Sr 216.596	-0.0097u	0.3920	0.4049
Ti 334.941	0.0675	0.0965	0.0918
Tl 190.794	3.4295	-1.1126u	0.4504
V 292.401	0.4473	-0.1947u	-0.1520u
Zn 206.200	-0.6861u	-0.6182u	0.3377

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.0805	ppb	0.1222	151.7	-3.3145	0.08054
Al 308.215	-1.1779	ppb	1.6357	138.6	-20.9607	-1.17789

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
As 188.980	2.9423	ppb	0.2165	7.4	-5.1740	2.94225
B 249.678	1.5331	ppb	0.4296	28.0	133.148	1.53308
Ba 389.178	-0.0872	ppb	0.2997	343.7	-25.3737	-0.08720
Be 313.042	0.0044	ppb	0.0017	38.4	-258.667	0.00444
Ca 370.602	-4.010	ppb	1.696	42.3	-1.076	-4.01027
Cd 226.502	0.0381	ppb	0.0641	168.0	8.5834	0.03812
Co 228.615	-0.0935	ppb	0.5688	608.0	-5.5401	-0.09354
Cr 267.716	0.1547	ppb	0.1069	69.1	27.2328	0.15466
Cu 324.754	0.3438	ppb	0.1957	56.9	149.988	0.34380
Fe 271.441	-4.6658	ppb	1.8662	40.0	4.5903	-4.66583
K 766.491	-3.9869	ppb	0.2943	7.4	236.521	-3.98688
Mg 279.078	2.5797	ppb	1.0047	38.9	31.8502	2.57965
Mn 257.610	-0.2175	ppb	0.0214	9.8	32.9933	-0.21754
Mo 202.032	1.1430	ppb	0.5424	47.5	13.5145	1.14296
Na 330.237	-27.2335	ppb	143.549	527.1	39.1072	-27.23351
Ni 231.604	0.3150	ppb	0.7336	232.9	-4.1081	0.31500
Pb 220.353	1.5473	ppb	0.8488	54.9	12.0849	1.54727
Sb 206.834	2.4439	ppb	1.2630	51.7	7.6308	2.44392
Se 196.026	-0.2973	ppb	1.2821	431.2	-2.1894	-0.29733
Sn 189.925	-0.7462	ppb	1.8877	253.0	-12.2991	-0.74623
Sr 216.596	0.2624	ppb	0.2357	89.8	6.8666	0.26241
Ti 334.941	0.0852	ppb	0.0156	18.3	-32.2583	0.08525
Tl 190.794	0.9224	ppb	2.3075	250.2	-10.0083	0.92241
V 292.401	0.0335	ppb	0.3590	1071.2	-5.6235	0.03351
Zn 206.200	-0.3222	ppb	0.5725	177.7	5.4582	-0.32218

mb 680-295235/1-a (Samp) **9/25/2013, 4:32:32 PM** **Rack 2, Tube 3**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.1323	-0.0381u	-0.1223u
Al 308.215	3.0202	2.6371	0.4662
As 188.980	5.0975	-1.0427u	0.9161
B 249.678	4.6669	5.4064	5.1870
Ba 389.178	-0.1975u	-0.0429u	0.0912
Be 313.042	0.0074	0.0133	0.0203
Ca 370.602	15.11	11.65	10.69
Cd 226.502	0.0337	0.0940	0.0926
Co 228.615	-0.5776u	-0.5168u	-0.2569u
Cr 267.716	-0.0001u	-0.0870u	0.2441
Cu 324.754	-0.1690u	-0.0573u	0.2133
Fe 271.441	1.7557	1.6206	-1.9936u
K 766.491	-0.6081u	-0.5447u	-1.1940u
Mg 279.078	1.7164	5.2423	2.9230
Mn 257.610	-0.0478u	-0.0639u	-0.0651u
Mo 202.032	0.7524	0.7904	0.6530
Na 330.237	-14.3334u	145.014	119.229
Ni 231.604	1.3610	1.0151	0.3448
Pb 220.353	3.2477	4.1857	2.4205
Sb 206.834	0.6387	2.1486	3.2255
Se 196.026	-4.3667u	0.6726	1.8616
Sn 189.925	-0.0210u	-0.6173u	-2.0448u
Sr 216.596	0.4965	0.5390	0.3654
Ti 334.941	0.1582	0.1351	0.0400

Label	Replicates Concentration		
Tl 190.794	0.8636	-2.1014u	-3.5147u
V 292.401	-0.1254u	0.0571	0.2608
Zn 206.200	0.3749	1.0436	1.0917

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0094	ppb	0.1297	1384.6	-10.9728
Al 308.215	2.0412	ppb	1.3774	67.5	-1.5578
As 188.980	1.6570	ppb	3.1364	189.3	-6.3404
B 249.678	5.0868	ppb	0.3798	7.5	200.555
Ba 389.178	-0.0497	ppb	0.1444	290.6	-24.4653
Be 313.042	0.0136	ppb	0.0065	47.5	-241.004
Ca 370.602	12.48	ppb	2.325	18.6	48.98
Cd 226.502	0.0734	ppb	0.0344	46.9	10.5249
Co 228.615	-0.4504	ppb	0.1703	37.8	-10.3742
Cr 267.716	0.0523	ppb	0.1717	327.9	21.3895
Cu 324.754	-0.0043	ppb	0.1965	4546.1	127.138
Fe 271.441	0.4609	ppb	2.1268	461.4	13.7830
K 766.491	-0.7823	ppb	0.3580	45.8	373.698
Mg 279.078	3.2939	ppb	1.7920	54.4	33.8384
Mn 257.610	-0.0589	ppb	0.0096	16.3	73.3722
Mo 202.032	0.7319	ppb	0.0710	9.7	10.2134
Na 330.237	83.3032	ppb	85.5329	102.7	44.0887
Ni 231.604	0.9069	ppb	0.5167	57.0	-1.8858
Pb 220.353	3.2846	ppb	0.8832	26.9	15.5845
Sb 206.834	2.0043	ppb	1.2994	64.8	6.9261
Se 196.026	-0.6108	ppb	3.3066	541.3	-2.3817
Sn 189.925	-0.8943	ppb	1.0400	116.3	-12.4535
Sr 216.596	0.4670	ppb	0.0905	19.4	10.0004
Ti 334.941	0.1111	ppb	0.0627	56.4	-24.8567
Tl 190.794	-1.5841	ppb	2.2345	141.1	-13.5439
V 292.401	0.0642	ppb	0.1932	301.2	-4.6628
Zn 206.200	0.8367	ppb	0.4007	47.9	7.3548

lcs 680-295235/2-a (Samp) **9/25/2013, 4:37:07 PM** **Rack 2, Tube 4**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	116.406	116.405	116.605
Al 308.215	10222.7	10213.1	10215.7
As 188.980	213.163	205.492	209.495
B 249.678	429.936	429.734	430.284
Ba 389.178	205.292	205.463	205.871
Be 313.042	104.049	103.896	104.323
Ca 370.602	10475	10448	10441
Cd 226.502	102.324	102.036	102.555
Co 228.615	103.364	103.272	103.782
Cr 267.716	210.771	209.977	210.521
Cu 324.754	213.454	212.666	215.039
Fe 271.441	10013.2	10004.1	10022.5
K 766.491	11600.5	11603.9	11609.4
Mg 279.078	10110.3	10091.7	10118.5
Mn 257.610	1064.70	1062.67	1064.65
Mo 202.032	207.532	207.195	207.244
Na 330.237	126231x	126190x	126392x

Label	Replicates	Concentration	
Ni 231.604	203.788	202.355	204.115
Pb 220.353	102.791	101.695	102.201
Sb 206.834	101.613	97.8746	100.389
Se 196.026	210.287	202.889	212.177
Sn 189.925	411.243	405.691	404.853
Sr 216.596	205.476	204.267	206.752
Ti 334.941	202.914	202.858	203.165
Tl 190.794	81.7815	78.0285	81.5672
V 292.401	207.084	206.664	207.483
Zn 206.200	212.742	209.814	210.688

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	116.472b	ppb	0.1153	0.1	9896.59
Al 308.215	10217.2b	ppb	4.9550	0.0	61562.9
As 188.980	209.383b	ppb	3.8370	1.8	182.114
B 249.678	429.984b	ppb	0.2780	0.1	8235.77
Ba 389.178	205.542b	ppb	0.2978	0.1	4956.24
Be 313.042	104.090b	ppb	0.2160	0.2	198828
Ca 370.602	10455b	ppb	17.75	0.2	31394
Cd 226.502	102.305b	ppb	0.2601	0.3	5600.23
Co 228.615	103.472b	ppb	0.2718	0.3	1400.28
Cr 267.716	210.423b	ppb	0.4059	0.2	12049.7
Cu 324.754	213.720b	ppb	1.2083	0.6	14157.3
Fe 271.441	10013.3b	ppb	9.1945	0.1	18077.7
K 766.491	11604.6b	ppb	4.4967	0.0	497159
Mg 279.078	10106.8b	ppb	13.7715	0.1	28182.9
Mn 257.610	1064.01b	ppb	1.1565	0.1	270915
Mo 202.032	207.324b	ppb	0.1819	0.1	1668.24
Na 330.237	126271xb	ppb	106.741	0.1	5756.00
Ni 231.604	203.419b	ppb	0.9363	0.5	757.932
Pb 220.353	102.229b	ppb	0.5486	0.5	215.234
Sb 206.834	99.9588b	ppb	1.9058	1.9	165.897
Se 196.026	208.451b	ppb	4.9087	2.4	126.307
Sn 189.925	407.263b	ppb	3.4727	0.9	413.081
Sr 216.596	205.498b	ppb	1.2422	0.6	3166.94
Ti 334.941	202.979b	ppb	0.1631	0.1	58120.8
Tl 190.794	80.4591b	ppb	2.1076	2.6	100.973
V 292.401	207.077b	ppb	0.4093	0.2	5973.89
Zn 206.200	211.081b	ppb	1.5031	0.7	350.621

lb 680-295235/3-a (Samp) **9/25/2013, 4:41:42 PM** **Rack 2, Tube 5**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	0.2055	0.1870	0.2039
Al 308.215	11.9798	11.2362	11.1343
As 188.980	-5.1822u	-0.1748u	-0.2929u
B 249.678	48.5052	46.8094	46.7404
Ba 389.178	2.0943	0.8402	1.8505
Be 313.042	0.0176	0.0235	0.0193
Ca 370.602	355.1	348.8	346.9
Cd 226.502	0.0760	0.0405	0.0617
Co 228.615	-0.2686u	-0.2267u	-0.0685u
Cr 267.716	0.0597	0.3395	0.2028

Label	Replicates Concentration		
Cu 324.754	0.2354	0.0186	0.2577
Fe 271.441	4.6257	4.6747	8.6407
K 766.491	90.8907	89.5574	89.3768
Mg 279.078	58.3630	57.1523	53.8723
Mn 257.610	1.5775	1.4964	1.5248
Mo 202.032	1.1356	0.6934	0.9544
Na 330.237	116203x	113937x	113455x
Ni 231.604	0.6515	0.1240	1.5073
Pb 220.353	3.4387	1.9450	2.8190
Sb 206.834	2.7628	3.7629	2.0172
Se 196.026	-0.4053u	-3.7180u	5.4662
Sn 189.925	-3.7244u	1.9578	-2.5041u
Sr 216.596	0.9433	1.1137	0.9912
Ti 334.941	0.0139u	-0.0531u	-0.0186u
Tl 190.794	-2.1812u	-0.9744u	-1.2633u
V 292.401	-0.1158u	0.2213	0.1110
Zn 206.200	3.1005	4.3188	4.3062

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1988b	ppb	0.0103	5.2	6.7153
Al 308.215	11.4501b	ppb	0.4615	4.0	55.1758
As 188.980	-1.8833b	ppb	2.8575	151.7	-9.5536
B 249.678	47.3517b	ppb	0.9996	2.1	1002.42
Ba 389.178	1.5950b	ppb	0.6650	41.7	15.1822
Be 313.042	0.0201b	ppb	0.0031	15.2	-240.908
Ca 370.602	350.2b	ppb	4.292	1.2	1083
Cd 226.502	0.0594b	ppb	0.0179	30.1	8.9320
Co 228.615	-0.1879b	ppb	0.1055	56.1	-6.8176
Cr 267.716	0.2007b	ppb	0.1399	69.7	32.1108
Cu 324.754	0.1706b	ppb	0.1321	77.4	138.621
Fe 271.441	5.9804b	ppb	2.3040	38.5	23.7672
K 766.491	89.9416b	ppb	0.8269	0.9	4257.28
Mg 279.078	56.4625b	ppb	2.3234	4.1	182.059
Mn 257.610	1.5329b	ppb	0.0411	2.7	478.223
Mo 202.032	0.9278b	ppb	0.2223	24.0	11.7859
Na 330.237	114531xb	ppb	1467.32	1.3	5230.04
Ni 231.604	0.7609b	ppb	0.6981	91.7	-2.4343
Pb 220.353	2.7342b	ppb	0.7505	27.4	14.4766
Sb 206.834	2.8477b	ppb	0.8759	30.8	8.2879
Se 196.026	0.4476b	ppb	4.6511	1039.1	-1.7315
Sn 189.925	-1.4236b	ppb	2.9912	210.1	-12.9580
Sr 216.596	1.0161b	ppb	0.0879	8.6	18.5026
Ti 334.941	-0.0192b	ppb	0.0335	174.2	-70.3494
Tl 190.794	-1.4730b	ppb	0.6302	42.8	-13.3878
V 292.401	0.0722b	ppb	0.1719	238.2	-5.3603
Zn 206.200	3.9085b	ppb	0.6998	17.9	12.3802

680-94333-a-1-n (Samp) **9/25/2013, 4:46:17 PM** **Rack 2, Tube 6**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.3781	0.2598	0.3360
Al 308.215	5.0214	5.9452	7.2734
As 188.980	2.4715	1.8692	0.4576

Label	Replicates	Concentration	
B 249.678	43.9453	43.3585	44.7886
Ba 389.178	2.8507	2.1597	2.2505
Be 313.042	0.0150	0.0168	0.0125
Ca 370.602	1421	1426	1458
Cd 226.502	0.1909	-0.0503u	0.2312
Co 228.615	-0.0561u	0.3245	0.5723
Cr 267.716	0.6675	0.8692	0.4366
Cu 324.754	0.9972	0.7629	0.9627
Fe 271.441	42.2168	39.3432	40.8084
K 766.491	4116.68	4110.49	4184.53
Mg 279.078	428.579	428.323	438.803
Mn 257.610	0.7787	0.7509	0.7824
Mo 202.032	2.1245	1.8478	2.0653
Na 330.237	22045.7	21788.5	22403.1
Ni 231.604	1.1973	1.7791	1.1961
Pb 220.353	0.3193	1.1727	2.7442
Sb 206.834	1.4478	-0.4029u	0.9052
Se 196.026	2.6097	-0.9551u	-10.0147u
Sn 189.925	0.8781	2.3464	0.5931
Sr 216.596	8.3935	8.8124	9.0216
Ti 334.941	0.4239	0.4267	0.4787
Tl 190.794	-1.5484u	-4.3471u	-2.8677u
V 292.401	0.6832	0.2480	0.4870
Zn 206.200	4.3248	3.3360	4.1581

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.3246	ppb	0.0599	18.5	17.0258
Al 308.215	6.0800	ppb	1.1320	18.6	22.7603
As 188.980	1.5994	ppb	1.0337	64.6	-6.3936
B 249.678	44.0308	ppb	0.7189	1.6	939.338
Ba 389.178	2.4203	ppb	0.3755	15.5	36.0780
Be 313.042	0.0148	ppb	0.0022	14.7	-241.116
Ca 370.602	1435	ppb	19.85	1.4	4402
Cd 226.502	0.1239	ppb	0.1523	122.8	13.2765
Co 228.615	0.2802	ppb	0.3165	113.0	-0.4782
Cr 267.716	0.6578	ppb	0.2164	32.9	56.4245
Cu 324.754	0.9076	ppb	0.1265	13.9	187.021
Fe 271.441	40.7895	ppb	1.4369	3.5	86.5769
K 766.491	4137.23	ppb	41.0756	1.0	177508
Mg 279.078	431.902	ppb	5.9782	1.4	1228.97
Mn 257.610	0.7706	ppb	0.0172	2.2	288.297
Mo 202.032	2.0125	ppb	0.1457	7.2	20.4942
Na 330.237	22079.1	ppb	308.648	1.4	1040.73
Ni 231.604	1.3908	ppb	0.3363	24.2	-0.0712
Pb 220.353	1.4121	ppb	1.2300	87.1	11.8149
Sb 206.834	0.6500	ppb	0.9514	146.4	4.7226
Se 196.026	-2.7867	ppb	6.5084	233.6	-3.7168
Sn 189.925	1.2725	ppb	0.9409	73.9	-10.1848
Sr 216.596	8.7425	ppb	0.3198	3.7	137.437
Ti 334.941	0.4431	ppb	0.0308	7.0	70.6031
Tl 190.794	-2.9211	ppb	1.4001	47.9	-15.4304
V 292.401	0.4727	ppb	0.2180	46.1	6.8119
Zn 206.200	3.9396	ppb	0.5294	13.4	12.4298

680-94333-a-1-o ms (Samp) **9/25/2013, 4:50:52 PM** **Rack 2, Tube 7**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	90.0884	89.4233	90.5456
Al 308.215	882.805	882.552	883.984
As 188.980	92.2624	95.7496	95.9052
B 249.678	207.403	206.975	208.234
Ba 389.178	92.1689	92.8745	93.6223
Be 313.042	91.7650	91.8972	92.3413
Ca 370.602	10242	10253	10244
Cd 226.502	91.9911	91.9553	92.2843
Co 228.615	93.3553	93.5512	92.7552
Cr 267.716	94.7705	94.8117	95.0544
Cu 324.754	95.1188	94.9754	96.5340
Fe 271.441	8984.79	8971.41	8992.20
K 766.491	13061.7	13077.9	13145.8
Mg 279.078	9328.96	9318.11	9378.32
Mn 257.610	947.336	947.208	950.387
Mo 202.032	95.5120	96.1928	95.1835
Na 330.237	27720.2	27883.1	28026.1
Ni 231.604	92.1098	93.8631	93.6768
Pb 220.353	93.4263	92.1118	91.7538
Sb 206.834	89.5562	88.4254	87.8799
Se 196.026	92.7389	90.3682	92.2810
Sn 189.925	90.0453	92.4695	94.6919
Sr 216.596	101.353	100.737	101.262
Ti 334.941	91.3403	91.3959	91.5538
Tl 190.794	17.5816	18.3662	20.9600
V 292.401	93.9923	93.9891	94.2694
Zn 206.200	92.9446	95.4710	95.9732

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	90.0191	ppb	0.5644	0.6	7649.61
Al 308.215	883.114	ppb	0.7648	0.1	5296.21
As 188.980	94.6391	ppb	2.0597	2.2	77.8982
B 249.678	207.537	ppb	0.6404	0.3	4018.03
Ba 389.178	92.8886	ppb	0.7268	0.8	2246.55
Be 313.042	92.0012	ppb	0.3019	0.3	175732
Ca 370.602	10246	ppb	6.207	0.1	30773
Cd 226.502	92.0769	ppb	0.1805	0.2	5041.54
Co 228.615	93.2206	ppb	0.4148	0.4	1261.56
Cr 267.716	94.8789	ppb	0.1534	0.2	5445.78
Cu 324.754	95.5427	ppb	0.8614	0.9	6401.24
Fe 271.441	8982.80	ppb	10.5363	0.1	16217.6
K 766.491	13095.1	ppb	44.6199	0.3	560966
Mg 279.078	9341.80	ppb	32.0898	0.3	26055.3
Mn 257.610	948.310	ppb	1.7993	0.2	241469
Mo 202.032	95.6295	ppb	0.5148	0.5	771.588
Na 330.237	27876.5	ppb	153.054	0.5	1299.60
Ni 231.604	93.2166	ppb	0.9630	1.0	344.446
Pb 220.353	92.4306	ppb	0.8807	1.0	195.840
Sb 206.834	88.6205	ppb	0.8550	1.0	147.906
Se 196.026	91.7960	ppb	1.2575	1.4	54.6648
Sn 189.925	92.4022	ppb	2.3240	2.5	84.8191
Sr 216.596	101.117	ppb	0.3326	0.3	1565.92

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ti 334.941	91.4300	ppb	0.1107	0.1	26173.3
Tl 190.794	18.9693	ppb	1.7681	9.3	14.3986
V 292.401	94.0836	ppb	0.1609	0.2	2710.81
Zn 206.200	94.7962	ppb	1.6231	1.7	160.810

680-94333-a-1-p msd (Samp) **9/25/2013, 4:55:27 PM** **Rack 2, Tube 8**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	83.2586	85.3382	82.3732
Al 308.215	828.228	849.035	836.712
As 188.980	86.9824	89.8653	91.3463
B 249.678	191.866	197.026	194.314
Ba 389.178	86.2600	86.9624	84.8269
Be 313.042	85.5264	87.2262	85.2597
Ca 370.602	9436	9689	9529
Cd 226.502	85.3772	87.5614	85.8714
Co 228.615	86.2578	88.4691	86.6098
Cr 267.716	88.5242	89.8253	88.1674
Cu 324.754	90.6984	92.5135	90.8469
Fe 271.441	8331.69	8522.27	8369.41
K 766.491	12160.1	12376.1	12144.5
Mg 279.078	8716.62	8898.07	8702.50
Mn 257.610	877.597	899.645	882.896
Mo 202.032	88.0895	90.5173	89.3735
Na 330.237	25916.1	26560.3	25554.1
Ni 231.604	85.4700	88.4666	86.5443
Pb 220.353	88.2800	90.4301	86.3130
Sb 206.834	81.3780	83.8112	79.2970
Se 196.026	80.5636	84.1275	78.3644
Sn 189.925	85.3574	84.6881	90.3735
Sr 216.596	94.0175	96.5299	93.9766
Ti 334.941	84.4842	86.3974	84.8059
Tl 190.794	14.1626	17.9837	17.9402
V 292.401	87.1058	89.0466	87.2944
Zn 206.200	90.8457	91.6338	89.6130

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	83.6567	ppb	1.5220	1.8	7108.20
Al 308.215	837.992	ppb	10.4624	1.2	5025.12
As 188.980	89.3980	ppb	2.2191	2.5	73.1513
B 249.678	194.402	ppb	2.5812	1.3	3770.29
Ba 389.178	86.0165	ppb	1.0884	1.3	2079.09
Be 313.042	86.0041	ppb	1.0667	1.2	164260
Ca 370.602	9551	ppb	127.9	1.3	28683
Cd 226.502	86.2700	ppb	1.1454	1.3	4724.01
Co 228.615	87.1122	ppb	1.1882	1.4	1178.63
Cr 267.716	88.8390	ppb	0.8726	1.0	5100.28
Cu 324.754	91.3529	ppb	1.0078	1.1	6126.00
Fe 271.441	8407.79	ppb	100.923	1.2	15180.3
K 766.491	12226.9	ppb	129.443	1.1	523798
Mg 279.078	8772.40	ppb	109.061	1.2	24468.8
Mn 257.610	886.713	ppb	11.5088	1.3	225791
Mo 202.032	89.3268	ppb	1.2146	1.4	721.019

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Na 330.237	26010.1	ppb	509.635	2.0	1215.26
Ni 231.604	86.8270	ppb	1.5182	1.7	320.473
Pb 220.353	88.3410	ppb	2.0592	2.3	187.558
Sb 206.834	81.4954	ppb	2.2594	2.8	136.327
Se 196.026	81.0185	ppb	2.9083	3.6	48.0289
Sn 189.925	86.8063	ppb	3.1073	3.6	78.9846
Sr 216.596	94.8414	ppb	1.4625	1.5	1468.90
Ti 334.941	85.2292	ppb	1.0244	1.2	24394.7
Tl 190.794	16.6955	ppb	2.1936	13.1	11.2572
V 292.401	87.8156	ppb	1.0702	1.2	2529.74
Zn 206.200	90.6975	ppb	1.0185	1.1	154.121

680-94342-a-1-h (Samp) **9/25/2013, 5:00:02 PM** **Rack 2, Tube 9**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.0574	0.0300u	0.0226u
Al 308.215	3.4820	5.0168	4.8670
As 188.980	0.1887	4.3203	1.0745
B 249.678	214.783	208.564	208.778
Ba 389.178	-0.2087	-0.0574	-0.3170
Be 313.042	0.0033	0.0041	-0.0032u
Ca 370.602	31718	30949	30872
Cd 226.502	0.0972	-0.0089	0.0618
Co 228.615	1.1574	0.8748	1.1647
Cr 267.716	0.5256	0.5617	0.6292
Cu 324.754	0.2264	0.0637	0.2363
Fe 271.441	214.303	206.207	205.135
K 766.491	23789.2	23297.7	23338.9
Mg 279.078	2854.07	2774.48	2777.20
Mn 257.610	41.3329	40.3878	40.2927
Mo 202.032	0.5894	0.3755	0.8405
Na 330.237	46082.5	44632.9	44986.3
Ni 231.604	7.1537	7.9426	6.9367
Pb 220.353	0.9885	1.7375	0.9418
Sb 206.834	0.5662	-0.6398u	0.8855
Se 196.026	-1.5536u	4.2906	2.0021
Sn 189.925	0.0356	0.5011	-0.8386u
Sr 216.596	72.9438	71.4300	70.1630
Ti 334.941	0.2461	0.2288	0.2278
Tl 190.794	-2.1648u	-2.1267u	0.1446
V 292.401	0.0227	0.1108	0.0022u
Zn 206.200	2.5336	2.7586	2.1466

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0366	ppb	0.0183	50.0	-10.5609
Al 308.215	4.4552	ppb	0.8462	19.0	12.9307
As 188.980	1.8612	ppb	2.1752	116.9	-6.1579
B 249.678	210.708	ppb	3.5307	1.7	4101.29
Ba 389.178	-0.1944	ppb	0.1304	67.1	-20.0385
Be 313.042	0.0014	ppb	0.0040	284.3	-259.462
Ca 370.602	31180	ppb	468.0	1.5	95470
Cd 226.502	0.0500	ppb	0.0540	107.9	9.8282
Co 228.615	1.0656	ppb	0.1653	15.5	10.2488

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Cr 267.716	0.5722	ppb	0.0526	9.2	52.2387
Cu 324.754	0.1754	ppb	0.0969	55.2	139.007
Fe 271.441	208.548	ppb	5.0123	2.4	389.053
K 766.491	23475.2	ppb	272.640	1.2	1005302
Mg 279.078	2801.92	ppb	45.1872	1.6	7836.77
Mn 257.610	40.6712	ppb	0.5751	1.4	10462.0
Mo 202.032	0.6018	ppb	0.2327	38.7	9.1568
Na 330.237	45233.9	ppb	755.820	1.7	2089.92
Ni 231.604	7.3443	ppb	0.5293	7.2	22.2688
Pb 220.353	1.2226	ppb	0.4465	36.5	11.4600
Sb 206.834	0.2706	ppb	0.8045	297.2	4.1415
Se 196.026	1.5797	ppb	2.9450	186.4	-1.0238
Sn 189.925	-0.1007	ppb	0.6801	675.7	-11.5910
Sr 216.596	71.5123	ppb	1.3922	1.9	1106.74
Ti 334.941	0.2342	ppb	0.0103	4.4	20.0697
Tl 190.794	-1.3823	ppb	1.3224	95.7	-13.2983
V 292.401	0.0452	ppb	0.0577	127.6	-5.5312
Zn 206.200	2.4796	ppb	0.3096	12.5	10.0431

680-94342-a-1-hSD^5 (Samp) **9/25/2013, 5:04:38 PM** **Rack 2, Tube 10**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	0.2890	0.1192	0.0240
Al 308.215	-0.7659u	0.6643	0.1475
As 188.980	3.7828	-0.1353u	2.9264
B 249.678	47.0058	46.4648	45.6441
Ba 389.178	0.6106	-0.0583	-0.3454u
Be 313.042	-0.0021u	0.0039	0.0071
Ca 370.602	6784	6715	6621
Cd 226.502	0.0870	0.0342	0.2178
Co 228.615	0.0901	0.4218	0.8197
Cr 267.716	0.0398	0.3428	0.3181
Cu 324.754	0.4654	-0.1031u	-0.0811u
Fe 271.441	45.8142	42.3879	45.3825
K 766.491	5032.31	4965.20	4882.37
Mg 279.078	625.804	611.480	601.387
Mn 257.610	8.7437	8.6029	8.5075
Mo 202.032	0.7521	0.9904	0.2056
Na 330.237	9448.51	9371.82	9257.84
Ni 231.604	1.4142	2.2133	3.5762
Pb 220.353	3.1239	2.1110	0.3608
Sb 206.834	-0.4549u	-3.0467u	-0.8291u
Se 196.026	-7.0641u	-6.0720u	1.6881
Sn 189.925	-1.6662u	-3.3870u	2.1345
Sr 216.596	15.8862	15.7088	15.6160
Ti 334.941	0.0691	0.0418	-0.0102u
Tl 190.794	1.2576	-1.9134u	-4.4139u
V 292.401	0.1427	0.0804	-0.1348u
Zn 206.200	0.8384	0.8108	0.4083

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1441	ppb	0.1342	93.2	1.3243
Al 308.215	0.0153	ppb	0.7242	4735.5	13.8045

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	2.1913	ppb	2.0599	94.0	-5.8561
B 249.678	46.3716	ppb	0.6856	1.5	983.743
Ba 389.178	0.0689	ppb	0.4905	711.6	-19.8975
Be 313.042	0.0030	ppb	0.0047	156.0	-260.293
Ca 370.602	6707	ppb	82.01	1.2	20543
Cd 226.502	0.1130	ppb	0.0945	83.6	12.7969
Co 228.615	0.4438	ppb	0.3653	82.3	1.7750
Cr 267.716	0.2336	ppb	0.1683	72.1	31.9821
Cu 324.754	0.0938	ppb	0.3221	343.5	133.589
Fe 271.441	44.5282	ppb	1.8661	4.2	93.3322
K 766.491	4959.96	ppb	75.1055	1.5	212726
Mg 279.078	612.890	ppb	12.2691	2.0	1733.48
Mn 257.610	8.6180	ppb	0.1188	1.4	2286.62
Mo 202.032	0.6494	ppb	0.4023	62.0	9.5480
Na 330.237	9359.39	ppb	95.9384	1.0	464.410
Ni 231.604	2.4012	ppb	1.0932	45.5	3.7194
Pb 220.353	1.8653	ppb	1.3979	74.9	12.7321
Sb 206.834	-1.4436	ppb	1.4009	97.0	1.3577
Se 196.026	-3.8160	ppb	4.7924	125.6	-4.3462
Sn 189.925	-0.9729	ppb	2.8253	290.4	-12.5280
Sr 216.596	15.7370	ppb	0.1373	0.9	245.729
Ti 334.941	0.0336	ppb	0.0403	120.1	-44.9207
Tl 190.794	-1.6899	ppb	2.8423	168.2	-13.6989
V 292.401	0.0294	ppb	0.1456	494.8	-5.7420
Zn 206.200	0.6858	ppb	0.2408	35.1	7.1077

680-94342-a-1-h PDS (Samp) **9/25/2013, 5:09:14 PM** **Rack 2, Tube 11**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	47.0599	47.7496	46.8779
Al 308.215	1885.06	1879.55	1828.75
As 188.980	183.128	184.969	189.051
B 249.678	666.698	664.318	651.993
Ba 389.178	192.005	192.677	187.088
Be 313.042	48.6305	48.5075	47.5227
Ca 370.602	33588	33560	32563
Cd 226.502	48.2497	47.8964	46.7898
Co 228.615	194.004	194.071	190.913
Cr 267.716	195.160	194.087	190.065
Cu 324.754	200.073	200.953	195.178
Fe 271.441	2103.92	2094.89	2045.38
K 766.491	25806.4	25817.7	25391.9
Mg 279.078	4758.68	4745.07	4661.63
Mn 257.610	242.357	241.442	236.047
Mo 202.032	196.520	196.364	193.572
Na 330.237	47982.8	48000.9	46798.8
Ni 231.604	198.442	196.989	192.015
Pb 220.353	191.889	189.526	184.241
Sb 206.834	182.410	182.294	178.563
Se 196.026	190.452	199.575	191.772
Sn 189.925	193.209	191.552	188.018
Sr 216.596	267.880	266.283	260.247
Ti 334.941	192.481	191.956	186.867

Label	Replicates	Concentration	
Tl 190.794	185.184	185.748	182.809
V 292.401	193.202	192.609	188.761
Zn 206.200	193.995	193.817	190.595

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	47.2292	ppb	0.4598	1.0	3997.50
Al 308.215	1864.46	ppb	31.0425	1.7	11198.0
As 188.980	185.716	ppb	3.0315	1.6	160.634
B 249.678	661.003	ppb	7.8929	1.2	12639.7
Ba 389.178	190.590	ppb	3.0516	1.6	4570.89
Be 313.042	48.2202	ppb	0.6072	1.3	91956.4
Ca 370.602	33237	ppb	583.9	1.8	101730
Cd 226.502	47.6453	ppb	0.7616	1.6	2601.03
Co 228.615	192.996	ppb	1.8041	0.9	2615.80
Cr 267.716	193.104	ppb	2.6859	1.4	11052.8
Cu 324.754	198.735	ppb	3.1116	1.6	13170.9
Fe 271.441	2081.40	ppb	31.5176	1.5	3792.93
K 766.491	25672.0	ppb	242.623	0.9	1099338
Mg 279.078	4721.79	ppb	52.5450	1.1	13185.7
Mn 257.610	239.949	ppb	3.4101	1.4	61185.4
Mo 202.032	195.486	ppb	1.6588	0.8	1573.65
Na 330.237	47594.1	ppb	688.851	1.4	2193.29
Ni 231.604	195.815	ppb	3.3704	1.7	728.896
Pb 220.353	188.552	ppb	3.9155	2.1	388.341
Sb 206.834	181.089	ppb	2.1883	1.2	295.962
Se 196.026	193.933	ppb	4.9303	2.5	117.111
Sn 189.925	190.926	ppb	2.6513	1.4	187.544
Sr 216.596	264.803	ppb	4.0255	1.5	4072.33
Ti 334.941	190.435	ppb	3.1010	1.6	54507.4
Tl 190.794	184.580	ppb	1.5598	0.8	249.381
V 292.401	191.524	ppb	2.4113	1.3	5524.72
Zn 206.200	192.803	ppb	1.9136	1.0	320.695

mb 680-295145/1-a (Samp) **9/25/2013, 5:13:50 PM** **Rack 2, Tube 12**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	-0.3859u	-0.0578u	-0.0579u
Al 308.215	8.7978	7.7402	5.7118
As 188.980	-1.0461u	-1.1005u	-0.9452u
B 249.678	2.9808	3.0958	2.4627
Ba 389.178	0.2520	0.4084	0.2932
Be 313.042	0.0120	0.0091	0.0128
Ca 370.602	5.262	8.477	6.045
Cd 226.502	0.0960	0.0978	0.1028
Co 228.615	0.1506	0.1444	0.3321
Cr 267.716	0.4698	0.2809	0.3742
Cu 324.754	0.3309	0.3376	0.1187
Fe 271.441	6.8676	8.7586	6.0791
K 766.491	5.3369	5.8192	5.0432
Mg 279.078	7.6605	10.4101	6.8659
Mn 257.610	-0.1181u	-0.0638u	-0.1028u
Mo 202.032	0.9143	0.9044	0.5653
Na 330.237	-124.194u	177.808	-183.936u

Label	Replicates Concentration		
Ni 231.604	1.2047	0.3674	1.1641
Pb 220.353	-0.7646u	3.2302	-0.8853u
Sb 206.834	-0.2186u	1.4780	1.4216
Se 196.026	0.2874	-1.0267u	-3.8381u
Sn 189.925	6.3209	7.5968	9.5057
Sr 216.596	0.4170	-0.1207u	0.3012
Ti 334.941	0.1303	0.1087	0.0475
Tl 190.794	0.0586	0.0740	0.9195
V 292.401	0.0673	0.1569	0.0654
Zn 206.200	1.0780	1.1704	1.2875

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1672	ppb	0.1894	113.3	-24.3981
Al 308.215	7.4166	ppb	1.5683	21.1	30.8225
As 188.980	-1.0306	ppb	0.0788	7.6	-8.7797
B 249.678	2.8464	ppb	0.3373	11.8	158.030
Ba 389.178	0.3179	ppb	0.0811	25.5	-15.6135
Be 313.042	0.0113	ppb	0.0020	17.6	-245.488
Ca 370.602	6.594	ppb	1.676	25.4	30.38
Cd 226.502	0.0989	ppb	0.0035	3.6	11.9355
Co 228.615	0.2090	ppb	0.1066	51.0	-1.4263
Cr 267.716	0.3750	ppb	0.0944	25.2	39.8230
Cu 324.754	0.2624	ppb	0.1245	47.5	144.641
Fe 271.441	7.2351	ppb	1.3770	19.0	26.0827
K 766.491	5.3997	ppb	0.3918	7.3	638.330
Mg 279.078	8.3122	ppb	1.8598	22.4	47.8315
Mn 257.610	-0.0949	ppb	0.0280	29.5	64.2855
Mo 202.032	0.7947	ppb	0.1987	25.0	10.7169
Na 330.237	-43.4407	ppb	193.921	446.4	38.3384
Ni 231.604	0.9121	ppb	0.4721	51.8	-1.8684
Pb 220.353	0.5268	ppb	2.3420	444.6	10.0312
Sb 206.834	0.8936	ppb	0.9637	107.8	5.1377
Se 196.026	-1.5258	ppb	2.1075	138.1	-2.9433
Sn 189.925	7.8078	ppb	1.6028	20.5	-3.3821
Sr 216.596	0.1991	ppb	0.2830	142.1	5.9026
Ti 334.941	0.0955	ppb	0.0429	44.9	-29.2928
Tl 190.794	0.3507	ppb	0.4926	140.5	-10.8141
V 292.401	0.0965	ppb	0.0523	54.2	-3.7435
Zn 206.200	1.1787	ppb	0.1050	8.9	7.9131

Cont Calib Verif (CCV) **9/25/2013, 5:18:26 PM** **Rack 2, Tube 13**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	493.617	499.644	499.473
Al 308.215	4923.25	4942.99	4962.20
As 188.980	488.979	494.671	490.786
B 249.678	498.878	502.734	504.679
Ba 389.178	5018.02	5036.85	5040.59
Be 313.042	512.874	517.407	512.692
Ca 370.602	5093	5135	5143
Cd 226.502	508.689	513.107	513.663
Co 228.615	514.577	520.335	519.884
Cr 267.716	5180.43	5220.07	5213.53

Label	Replicates Concentration		
Cu 324.754	5159.33	5288.72	5255.98
Fe 271.441	4934.88	4991.06	4984.49
K 766.491	10353.7	10436.0	10444.8
Mg 279.078	5090.21	5139.00	5132.66
Mn 257.610	5167.11	5204.20	5237.00
Mo 202.032	512.415	519.591	517.358
Na 330.237	7150.80	7157.79	7441.85
Ni 231.604	2551.63	2571.36	2587.40
Pb 220.353	511.609	514.465	518.605
Sb 206.834	995.146	1006.27	1003.65
Se 196.026	5113.29	5201.27	5211.91
Sn 189.925	5122.26	5161.44	5130.94
Sr 216.596	2605.38	2633.29	2632.23
Ti 334.941	492.665	495.863	495.731
Tl 190.794	5163.87	5220.69	5243.67
V 292.401	5068.84	5113.47	5104.54
Zn 206.200	2578.13	2592.27	2607.60

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	497.578	ppb	3.4312	0.7	42257.2	99.51558
Al 308.215	4942.81	ppb	19.4762	0.4	28940.8	98.85629
As 188.980	491.479	ppb	2.9089	0.6	438.025	98.29573
B 249.678	502.097	ppb	2.9526	0.6	9616.98	100.41942
Ba 389.178	5031.82	ppb	12.0983	0.2	120846	100.63638
Be 313.042	514.324	ppb	2.6712	0.5	983478	102.86488
Ca 370.602	5124	ppb	27.02	0.5	15758	102.47056
Cd 226.502	511.820	ppb	2.7257	0.5	27807.7	102.36396
Co 228.615	518.265	ppb	3.2025	0.6	7045.42	103.65308
Cr 267.716	5204.68	ppb	21.2511	0.4	297378	104.09361
Cu 324.754	5234.68	ppb	67.2723	1.3	343506	104.69351
Fe 271.441	4970.14	ppb	30.7140	0.6	9092.24	99.40288
K 766.491	10411.5	ppb	50.2683	0.5	446087	104.11475
Mg 279.078	5120.62	ppb	26.5262	0.5	14192.6	102.41248
Mn 257.610	5202.77	ppb	34.9656	0.7	1323844	104.05537
Mo 202.032	516.455	ppb	3.6726	0.7	4140.76	103.29091
Na 330.237	7250.15	ppb	166.057	2.3	332.375	96.66865
Ni 231.604	2570.13	ppb	17.9169	0.7	9636.45	102.80508
Pb 220.353	514.893	ppb	3.5176	0.7	1046.12	102.97860
Sb 206.834	1001.69	ppb	5.8151	0.6	1694.96	100.16875
Se 196.026	5175.49	ppb	54.1284	1.0	3176.31	103.50974
Sn 189.925	5138.21	ppb	20.5774	0.4	5344.74	102.76424
Sr 216.596	2623.63	ppb	15.8143	0.6	40265.8	104.94530
Ti 334.941	494.753	ppb	1.8092	0.4	141677	98.95057
Tl 190.794	5209.41	ppb	41.0779	0.8	7334.56	104.18816
V 292.401	5095.62	ppb	23.6139	0.5	147916	101.91231
Zn 206.200	2592.67	ppb	14.7411	0.6	4227.20	103.70660

Cont Calib Blank (CCB) **9/25/2013, 5:23:00 PM** **Rack 2, Tube 14**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.0166u	-0.1884u	0.1909
Al 308.215	-2.4820u	-2.6045u	-3.2367u
As 188.980	0.8570	2.9243	-3.6710u

Label	Replicates Concentration		
B 249.678	2.2823	2.1081	1.4206
Ba 389.178	0.7915	0.1631	0.9029
Be 313.042	0.0137	0.0052	0.0061
Ca 370.602	-3.465u	-2.975u	-2.187u
Cd 226.502	0.0742	0.1319	0.1181
Co 228.615	-0.3939u	0.4811	0.2553
Cr 267.716	0.1125	0.0318	0.1199
Cu 324.754	-0.0093u	-0.2324u	0.1037
Fe 271.441	-4.9132u	-2.9873u	2.8116
K 766.491	-3.3398u	-3.4019u	-4.0880u
Mg 279.078	-1.3471u	1.1004	-0.3988u
Mn 257.610	-0.2142u	-0.2074u	-0.2221u
Mo 202.032	1.2139	0.9488	1.6110
Na 330.237	-155.804u	-99.9767u	-16.3217u
Ni 231.604	0.5513	0.9691	0.7002
Pb 220.353	-0.9674u	-0.1492u	0.9720
Sb 206.834	1.6131	-1.5904u	1.9319
Se 196.026	0.3697	-0.8196u	-6.1985u
Sn 189.925	-0.1184u	-0.5706u	-0.7619u
Sr 216.596	-0.0088u	-0.0331u	0.4768
Ti 334.941	0.1184	0.0179	0.0896
Tl 190.794	-1.7567u	1.7179	0.2550
V 292.401	0.1510	0.1914	0.0334
Zn 206.200	-0.7589u	-0.2884u	-1.2487u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	-0.0047	ppb	0.1899	4014.0	-10.5588	-0.00473
Al 308.215	-2.7744	ppb	0.4050	14.6	-30.5989	-2.77440
As 188.980	0.0368	ppb	3.3733	9172.6	-7.8111	0.03678
B 249.678	1.9370	ppb	0.4556	23.5	140.802	1.93698
Ba 389.178	0.6192	ppb	0.3989	64.4	-8.4124	0.61920
Be 313.042	0.0083	ppb	0.0046	55.6	-251.229	0.00833
Ca 370.602	-2.876	ppb	0.6449	22.4	2.145	-2.87569
Cd 226.502	0.1081	ppb	0.0301	27.9	12.3942	0.10807
Co 228.615	0.1142	ppb	0.4542	397.9	-2.7244	0.11416
Cr 267.716	0.0881	ppb	0.0489	55.5	23.4245	0.08807
Cu 324.754	-0.0460	ppb	0.1710	371.7	124.419	-0.04601
Fe 271.441	-1.6963	ppb	4.0210	237.0	9.9717	-1.69630
K 766.491	-3.6099	ppb	0.4152	11.5	252.658	-3.60989
Mg 279.078	-0.2151	ppb	1.2340	573.6	24.0576	-0.21514
Mn 257.610	-0.2146	ppb	0.0074	3.4	33.7323	-0.21458
Mo 202.032	1.2579	ppb	0.3333	26.5	14.4371	1.25788
Na 330.237	-90.7008	ppb	70.2023	77.4	36.2308	-90.70078
Ni 231.604	0.7402	ppb	0.2118	28.6	-2.5132	0.74021
Pb 220.353	-0.0482	ppb	0.9737	2020.1	8.8721	-0.04820
Sb 206.834	0.6515	ppb	1.9481	299.0	4.7301	0.65154
Se 196.026	-2.2161	ppb	3.4997	157.9	-3.3671	-2.21614
Sn 189.925	-0.4836	ppb	0.3304	68.3	-12.0254	-0.48364
Sr 216.596	0.1450	ppb	0.2876	198.4	5.0420	0.14497
Ti 334.941	0.0753	ppb	0.0518	68.8	-35.1115	0.07529
Tl 190.794	0.0721	ppb	1.7445	2420.8	-11.2066	0.07206
V 292.401	0.1253	ppb	0.0821	65.5	-2.9712	0.12526
Zn 206.200	-0.7653	ppb	0.4802	62.7	4.7335	-0.76530

lcs 680-295145/2-a (Samp) **9/25/2013, 5:27:35 PM** **Rack 2, Tube 15**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	56.6280	56.5525	56.6164
Al 308.215	4714.79	4749.67	4744.88
As 188.980	97.4184	103.612	97.2517
B 249.678	182.617	185.008	183.679
Ba 389.178	97.6892	98.2021	98.9928
Be 313.042	49.0739	49.2293	49.1271
Ca 370.602	4814	4849	4850
Cd 226.502	48.9195	49.5662	48.9960
Co 228.615	49.7523	49.5894	49.7405
Cr 267.716	101.659	102.229	101.956
Cu 324.754	101.668	101.266	100.977
Fe 271.441	4796.41	4829.17	4810.45
K 766.491	4780.47	4830.70	4818.29
Mg 279.078	4821.14	4846.92	4834.26
Mn 257.610	508.722	512.257	511.324
Mo 202.032	98.0663	99.9532	99.3178
Na 330.237	4622.49	4844.14	4825.96
Ni 231.604	97.8555	99.1296	99.4708
Pb 220.353	51.6749	50.6861	50.9410
Sb 206.834	46.6754	47.9738	47.4580
Se 196.026	93.7749	95.0901	88.5533
Sn 189.925	208.386	205.213	199.628
Sr 216.596	97.8285	99.6575	99.1471
Ti 334.941	96.2329	96.9550	96.9428
Tl 190.794	36.2399	39.8711	38.4143
V 292.401	98.1804	98.4471	98.3260
Zn 206.200	100.899	102.524	101.364

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	56.5989	ppb	0.0406	0.1	4803.97
Al 308.215	4736.45	ppb	18.9041	0.4	28531.3
As 188.980	99.4272	ppb	3.6247	3.6	82.3564
B 249.678	183.768	ppb	1.1976	0.7	3578.00
Ba 389.178	98.2947	ppb	0.6567	0.7	2358.05
Be 313.042	49.1434	ppb	0.0790	0.2	93736.9
Ca 370.602	4838	ppb	20.40	0.4	14522
Cd 226.502	49.1606	ppb	0.3534	0.7	2694.90
Co 228.615	49.6941	ppb	0.0909	0.2	670.300
Cr 267.716	101.948	ppb	0.2850	0.3	5846.33
Cu 324.754	101.304	ppb	0.3471	0.3	6777.66
Fe 271.441	4812.01	ppb	16.4335	0.3	8694.17
K 766.491	4809.82	ppb	26.1660	0.5	206299
Mg 279.078	4834.11	ppb	12.8898	0.3	13492.7
Mn 257.610	510.768	ppb	1.8317	0.4	130096
Mo 202.032	99.1124	ppb	0.9601	1.0	799.779
Na 330.237	4764.20	ppb	123.054	2.6	253.315
Ni 231.604	98.8186	ppb	0.8514	0.9	365.474
Pb 220.353	51.1007	ppb	0.5133	1.0	112.071
Sb 206.834	47.3691	ppb	0.6538	1.4	80.5811
Se 196.026	92.4728	ppb	3.4575	3.7	54.9293
Sn 189.925	204.409	ppb	4.4343	2.2	201.566
Sr 216.596	98.8777	ppb	0.9438	361	1525.24

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ti 334.941	96.7102	ppb	0.4134	0.4	27666.3
Tl 190.794	38.1751	ppb	1.8273	4.8	41.9575
V 292.401	98.3178	ppb	0.1336	0.1	2833.18
Zn 206.200	101.596	ppb	0.8370	0.8	171.860

680-94396-a-12-c (Samp) **9/25/2013, 5:32:10 PM** **Rack 2, Tube 16**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	0.2916	-0.1597u	0.2328
Al 308.215	46152.4	45945.8	45924.4
As 188.980	2.0143	5.0508	6.9822
B 249.678	5.1263	4.7770	5.1650
Ba 389.178	118.308	117.653	118.328
Be 313.042	0.9006	0.8931	0.8902
Ca 370.602	772.0	765.4	761.7
Cd 226.502	0.2283	0.1737	0.2612
Co 228.615	1.9234	1.8664	2.2263
Cr 267.716	44.1914	43.8589	44.2874
Cu 324.754	22.3395	22.0191	22.2080
Fe 271.441	2001.95	1999.20	2005.24
K 766.491	218.861	218.898	217.970
Mg 279.078	254.598	258.553	251.466
Mn 257.610	4.1731	4.2257	4.2218
Mo 202.032	10.7510	10.0785	10.5373
Na 330.237	15514.3	15229.1	15395.7
Ni 231.604	6.0533	5.0774	6.1898
Pb 220.353	20.6079	23.2087	23.3382
Sb 206.834	0.7265	2.8361	0.3279
Se 196.026	-1.9790u	2.6688	-0.5280u
Sn 189.925	17.1811	18.6631	11.2014
Sr 216.596	116.769	116.087	116.688
Ti 334.941	307.075	306.243	305.918
Tl 190.794	1.4686	-0.6904u	-0.3940u
V 292.401	167.157	166.674	166.895
Zn 206.200	8.2754	7.7569	8.0588

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1216	ppb	0.2454	201.9	-4.2788
Al 308.215	46007.6	ppb	125.897	0.3	277363
As 188.980	4.6824	ppb	2.5044	53.5	-2.9831
B 249.678	5.0228	ppb	0.2137	4.3	194.090
Ba 389.178	118.096	ppb	0.3838	0.3	2816.72
Be 313.042	0.8946	ppb	0.0054	0.6	1439.73
Ca 370.602	766.4	ppb	5.233	0.7	2364
Cd 226.502	0.2211	ppb	0.0442	20.0	26.7375
Co 228.615	2.0054	ppb	0.1935	9.6	30.9051
Cr 267.716	44.1126	ppb	0.2249	0.5	2539.16
Cu 324.754	22.1888	ppb	0.1611	0.7	1582.07
Fe 271.441	2002.13	ppb	3.0229	0.2	3623.44
K 766.491	218.576	ppb	0.5255	0.2	9763.69
Mg 279.078	254.872	ppb	3.5518	1.4	718.181
Mn 257.610	4.2069	ppb	0.0293	0.7	1166.80
Mo 202.032	10.4556	ppb	0.3436	3.2	87.8390

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Na 330.237	15379.7	ppb	143.274	0.9	735.633
Ni 231.604	5.7735	ppb	0.6067	10.5	16.4472
Pb 220.353	22.3849	ppb	1.5403	6.9	53.0212
Sb 206.834	1.2968	ppb	1.3479	103.9	6.3031
Se 196.026	0.0539	ppb	2.3779	4409.0	-1.9640
Sn 189.925	15.6819	ppb	3.9503	25.2	4.8328
Sr 216.596	116.515	ppb	0.3725	0.3	1796.09
Ti 334.941	306.412	ppb	0.5971	0.2	87709.9
Tl 190.794	0.1281	ppb	1.1703	913.9	-11.1882
V 292.401	166.908	ppb	0.2418	0.1	4851.49
Zn 206.200	8.0304	ppb	0.2604	3.2	18.9701

680-94396-a-12-cSD^5 (Samp) **9/25/2013, 5:36:45 PM** **Rack 2, Tube 17**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	0.2478	0.1015	0.3221
Al 308.215	9767.06	9577.72	9485.37
As 188.980	-0.4829u	1.2802	4.6773
B 249.678	1.2041	1.6503	1.4051
Ba 389.178	26.1980	24.8189	23.7522
Be 313.042	0.1935	0.1843	0.1849
Ca 370.602	164.3	165.9	158.7
Cd 226.502	0.1072	0.2269	0.2220
Co 228.615	0.2317	0.1192	0.8600
Cr 267.716	9.3236	9.1817	9.3554
Cu 324.754	4.6670	4.6324	4.5081
Fe 271.441	429.089	419.270	412.541
K 766.491	42.0051	41.7624	41.3339
Mg 279.078	55.0297	56.8279	53.6056
Mn 257.610	0.7194	0.7475	0.7300
Mo 202.032	2.5233	2.3999	2.0799
Na 330.237	3386.87	2998.80	3096.07
Ni 231.604	1.7725	2.3629	1.8336
Pb 220.353	4.8903	6.0113	6.1022
Sb 206.834	1.4514	1.1865	1.8386
Se 196.026	-5.2392u	16.6135	0.9766
Sn 189.925	4.3134	4.9632	3.3457
Sr 216.596	25.4138	24.7505	24.1029
Ti 334.941	65.2596	64.0712	63.5537
Tl 190.794	-0.1781u	0.9566	-0.7308u
V 292.401	35.4249	34.9294	34.5716
Zn 206.200	1.1986	3.0847	1.5825

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.2238	ppb	0.1122	50.1	7.9330
Al 308.215	9610.05	ppb	143.603	1.5	57924.5
As 188.980	1.8249	ppb	2.6228	143.7	-6.0602
B 249.678	1.4198	ppb	0.2235	15.7	129.884
Ba 389.178	24.9230	ppb	1.2262	4.9	576.068
Be 313.042	0.1876	ppb	0.0052	2.7	90.8903
Ca 370.602	163.0	ppb	3.785	2.3	511.3
Cd 226.502	0.1853	ppb	0.0677	36.5	18.3166
Co 228.615	0.4036	ppb	0.3992	98.8	2.9044

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Cr 267.716	9.2869	ppb	0.0925	1.0	549.083
Cu 324.754	4.6025	ppb	0.0836	1.8	429.128
Fe 271.441	420.300	ppb	8.3220	2.0	770.934
K 766.491	41.7005	ppb	0.3399	0.8	2192.24
Mg 279.078	55.1544	ppb	1.6148	2.9	174.867
Mn 257.610	0.7323	ppb	0.0142	1.9	276.375
Mo 202.032	2.3344	ppb	0.2289	9.8	22.9856
Na 330.237	3160.58	ppb	201.915	6.4	183.212
Ni 231.604	1.9897	ppb	0.3246	16.3	2.1910
Pb 220.353	5.6679	ppb	0.6750	11.9	20.1702
Sb 206.834	1.4922	ppb	0.3280	22.0	6.2180
Se 196.026	4.1170	ppb	11.2597	273.5	0.5222
Sn 189.925	4.2074	ppb	0.8139	19.3	-7.1339
Sr 216.596	24.7557	ppb	0.6555	2.6	383.840
Ti 334.941	64.2948	ppb	0.8747	1.4	18359.5
Tl 190.794	0.0159	ppb	0.8603	5405.1	-11.2986
V 292.401	34.9753	ppb	0.4285	1.2	1011.55
Zn 206.200	1.9553	ppb	0.9968	51.0	9.1526

680-94396-a-12-c PDS (Samp) **9/25/2013, 5:41:20 PM** **Rack 2, Tube 18**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	46.5543	46.6156	46.9530
Al 308.215	47698.4	47432.2	47434.2
As 188.980	186.340	191.063	186.390
B 249.678	453.985	454.034	454.373
Ba 389.178	308.942	307.472	307.754
Be 313.042	49.0137	48.8829	48.8556
Ca 370.602	2503	2488	2486
Cd 226.502	47.8682	47.5966	47.8069
Co 228.615	194.580	194.861	192.226
Cr 267.716	236.142	235.719	235.352
Cu 324.754	218.995	217.877	219.057
Fe 271.441	3821.94	3807.70	3812.96
K 766.491	2173.37	2155.22	2156.30
Mg 279.078	2153.88	2150.62	2149.77
Mn 257.610	203.023	202.049	201.957
Mo 202.032	203.552	203.950	203.889
Na 330.237	17284.0	17291.5	17380.2
Ni 231.604	193.735	193.412	196.181
Pb 220.353	209.475	208.945	206.914
Sb 206.834	177.850	179.727	178.904
Se 196.026	190.120	192.576	188.792
Sn 189.925	205.449	212.398	211.401
Sr 216.596	305.550	303.941	305.945
Ti 334.941	494.681	492.133	491.385
Tl 190.794	184.454	183.533	183.765
V 292.401	353.156	352.163	352.129
Zn 206.200	201.543	200.332	199.033

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	46.7077	ppb	0.2147	0.5	3952.38
Al 308.215	47521.6	ppb	153.141	0.3	286463

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	187.931	ppb	2.7126	1.4	163.256
B 249.678	454.131	ppb	0.2113	0.0	8710.11
Ba 389.178	308.056	ppb	0.7801	0.3	7387.67
Be 313.042	48.9174	ppb	0.0845	0.2	93280.9
Ca 370.602	2492	ppb	9.416	0.4	7612
Cd 226.502	47.7573	ppb	0.1425	0.3	2614.49
Co 228.615	193.889	ppb	1.4469	0.7	2635.74
Cr 267.716	235.737	ppb	0.3952	0.2	13487.9
Cu 324.754	218.643	ppb	0.6641	0.3	14475.9
Fe 271.441	3814.20	ppb	7.2008	0.2	6917.72
K 766.491	2161.63	ppb	10.1802	0.5	92939.1
Mg 279.078	2151.42	ppb	2.1696	0.1	6002.24
Mn 257.610	202.343	ppb	0.5910	0.3	51599.4
Mo 202.032	203.797	ppb	0.2143	0.1	1639.96
Na 330.237	17318.6	ppb	53.5251	0.3	819.923
Ni 231.604	194.443	ppb	1.5144	0.8	723.816
Pb 220.353	208.444	ppb	1.3518	0.6	427.352
Sb 206.834	178.827	ppb	0.9407	0.5	292.826
Se 196.026	190.496	ppb	1.9201	1.0	114.997
Sn 189.925	209.749	ppb	3.7574	1.8	207.137
Sr 216.596	305.145	ppb	1.0616	0.3	4689.95
Ti 334.941	492.733	ppb	1.7280	0.4	141086
Tl 190.794	183.917	ppb	0.4788	0.3	248.430
V 292.401	352.483	ppb	0.5838	0.2	10210.2
Zn 206.200	200.302	ppb	1.2555	0.6	332.814

680-94396-a-12-d ms (Samp) **9/25/2013, 5:45:54 PM** **Rack 2, Tube 19**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	54.5460	55.2959	54.7311
Al 308.215	64184.1	64214.9	63578.6
As 188.980	91.0415	92.5959	89.1319
B 249.678	166.363	167.890	165.025
Ba 389.178	268.149	268.219	265.959
Be 313.042	48.4646	48.6206	48.1767
Ca 370.602	5357	5347	5310
Cd 226.502	47.4474	47.3495	46.9162
Co 228.615	49.7283	49.3384	49.0448
Cr 267.716	148.832	148.759	147.177
Cu 324.754	120.246	120.679	119.450
Fe 271.441	6683.77	6673.48	6631.65
K 766.491	5000.71	5023.87	5000.81
Mg 279.078	4861.78	4858.19	4816.77
Mn 257.610	492.099	491.735	488.064
Mo 202.032	97.3455	95.8852	95.7561
Na 330.237	20392.9	20562.6	20404.7
Ni 231.604	100.281	100.150	98.2628
Pb 220.353	76.1874	75.2111	72.8187
Sb 206.834	25.9303	27.6724	19.8973
Se 196.026	92.7644	92.9050	80.2115
Sn 189.925	202.325	199.806	191.182
Sr 216.596	252.986	250.909	248.855
Ti 334.941	347.748	348.149	345.119

Label	Replicates Concentration		
Tl 190.794	36.2397	37.3070	37.4482
V 292.401	269.954	269.786	267.577
Zn 206.200	104.764	104.692	105.720

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	54.8577	ppb	0.3907	0.7	4649.52
Al 308.215	63992.5	ppb	358.788	0.6	385790
As 188.980	90.9231	ppb	1.7351	1.9	75.4452
B 249.678	166.426	ppb	1.4332	0.9	3244.10
Ba 389.178	267.442	ppb	1.2852	0.5	6423.05
Be 313.042	48.4207	ppb	0.2252	0.5	92352.4
Ca 370.602	5338	ppb	24.71	0.5	16041
Cd 226.502	47.2377	ppb	0.2827	0.6	2598.13
Co 228.615	49.3705	ppb	0.3429	0.7	672.808
Cr 267.716	148.256	ppb	0.9349	0.6	8492.39
Cu 324.754	120.125	ppb	0.6234	0.5	8010.82
Fe 271.441	6662.97	ppb	27.6060	0.4	12031.8
K 766.491	5008.47	ppb	13.3420	0.3	214802
Mg 279.078	4845.58	ppb	25.0180	0.5	13502.9
Mn 257.610	490.633	ppb	2.2320	0.5	124979
Mo 202.032	96.3289	ppb	0.8827	0.9	776.967
Na 330.237	20453.4	ppb	94.7181	0.5	962.921
Ni 231.604	99.5648	ppb	1.1294	1.1	368.358
Pb 220.353	74.7391	ppb	1.7332	2.3	158.396
Sb 206.834	24.5000	ppb	4.0801	16.7	44.3865
Se 196.026	88.6270	ppb	7.2883	8.2	52.5702
Sn 189.925	197.771	ppb	5.8438	3.0	194.653
Sr 216.596	250.917	ppb	2.0657	0.8	3864.66
Ti 334.941	347.005	ppb	1.6460	0.5	99359.2
Tl 190.794	36.9983	ppb	0.6608	1.8	40.2683
V 292.401	269.106	ppb	1.3269	0.5	7805.19
Zn 206.200	105.059	ppb	0.5739	0.5	177.360

680-94396-a-12-e msd (Samp) **9/25/2013, 5:50:58 PM** **Rack 2, Tube 20**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	54.5258	54.7664	54.2647
Al 308.215	63349.0	62934.1	63334.3
As 188.980	90.5844	89.1438	87.0077
B 249.678	167.495	165.091	166.173
Ba 389.178	264.520	261.630	264.178
Be 313.042	48.3388	47.7487	48.0772
Ca 370.602	5347	5310	5336
Cd 226.502	47.0372	46.5729	46.9202
Co 228.615	49.6052	49.3556	49.2285
Cr 267.716	147.993	146.687	147.213
Cu 324.754	120.261	118.798	118.725
Fe 271.441	6665.60	6606.63	6634.99
K 766.491	5009.61	4948.18	4984.38
Mg 279.078	4837.35	4787.82	4822.84
Mn 257.610	490.479	486.013	489.094
Mo 202.032	96.5737	95.8575	96.9355
Na 330.237	20627.7	20416.8	20523.3

Label	Replicates	Concentration	
Ni 231.604	100.277	100.362	100.368
Pb 220.353	73.9227	76.0928	71.5157
Sb 206.834	28.9790	23.7411	22.5569
Se 196.026	98.7627	88.1834	100.213
Sn 189.925	203.823	201.058	204.296
Sr 216.596	251.006	247.857	249.645
Ti 334.941	349.462	346.950	349.184
Tl 190.794	32.8434	36.0958	35.4331
V 292.401	269.563	266.561	267.636
Zn 206.200	106.727	102.575	105.574

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	54.5190	ppb	0.2509	0.5	4620.76
Al 308.215	63205.8	ppb	235.423	0.4	381046
As 188.980	88.9119	ppb	1.7996	2.0	73.6060
B 249.678	166.253	ppb	1.2038	0.7	3240.91
Ba 389.178	263.443	ppb	1.5789	0.6	6326.90
Be 313.042	48.0549	ppb	0.2957	0.6	91652.5
Ca 370.602	5331	ppb	18.64	0.3	16022
Cd 226.502	46.8434	ppb	0.2415	0.5	2576.58
Co 228.615	49.3965	ppb	0.1916	0.4	673.161
Cr 267.716	147.298	ppb	0.6570	0.4	8437.62
Cu 324.754	119.261	ppb	0.8664	0.7	7954.16
Fe 271.441	6635.74	ppb	29.4921	0.4	11982.7
K 766.491	4980.72	ppb	30.8755	0.6	213615
Mg 279.078	4816.00	ppb	25.4638	0.5	13420.9
Mn 257.610	488.529	ppb	2.2862	0.5	124444
Mo 202.032	96.4556	ppb	0.5486	0.6	777.988
Na 330.237	20522.6	ppb	105.443	0.5	966.067
Ni 231.604	100.336	ppb	0.0513	0.1	371.249
Pb 220.353	73.8437	ppb	2.2896	3.1	156.611
Sb 206.834	25.0923	ppb	3.4176	13.6	45.3211
Se 196.026	95.7197	ppb	6.5667	6.9	56.9228
Sn 189.925	203.059	ppb	1.7490	0.9	200.165
Sr 216.596	249.503	ppb	1.5792	0.6	3842.87
Ti 334.941	348.532	ppb	1.3770	0.4	99796.3
Tl 190.794	34.7908	ppb	1.7187	4.9	37.1599
V 292.401	267.920	ppb	1.5209	0.6	7770.71
Zn 206.200	104.959	ppb	2.1435	2.0	177.200

680-94396-a-13-c (Samp) **9/25/2013, 5:55:34 PM** **Rack 2, Tube 21**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	-0.1331u	-0.1923u	-0.0146u
Al 308.215	48687.7	48507.5	47879.0
As 188.980	2.8812	5.3781	-2.9281u
B 249.678	5.7198	5.8821	5.4787
Ba 389.178	82.3512	81.8758	81.8244
Be 313.042	0.8989	0.8939	0.8808
Ca 370.602	787.4	787.6	777.0
Cd 226.502	0.2240	0.2186	0.2511
Co 228.615	2.4743	2.2742	2.5189
Cr 267.716	47.1822	47.1376	47.0612

Label	Replicates	Concentration	
Cu 324.754	23.9947	24.2097	24.4583
Fe 271.441	1938.33	1922.88	1905.01
K 766.491	221.687	221.055	219.582
Mg 279.078	325.048	323.761	316.977
Mn 257.610	5.1989	5.1680	5.1354
Mo 202.032	9.7119	9.0714	9.5068
Na 330.237	16010.9	15711.9	15776.1
Ni 231.604	7.2387	6.6581	5.9260
Pb 220.353	17.7487	17.5488	19.4964
Sb 206.834	2.8373	-1.9397u	-0.0165
Se 196.026	-3.1733u	5.7275	0.9610
Sn 189.925	15.1070	15.5086	15.4936
Sr 216.596	90.9876	90.4521	90.1202
Ti 334.941	312.834	312.341	308.208
Tl 190.794	1.3581	-0.9157u	-0.9363u
V 292.401	169.580	168.459	166.928
Zn 206.200	8.7712	8.7566	9.0843

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1133	ppb	0.0905	79.8	-22.9439
Al 308.215	48358.1	ppb	424.540	0.9	291535
As 188.980	1.7771	ppb	4.2618	239.8	-5.5827
B 249.678	5.6936	ppb	0.2030	3.6	207.024
Ba 389.178	82.0171	ppb	0.2905	0.4	1950.37
Be 313.042	0.8912	ppb	0.0094	1.1	1433.53
Ca 370.602	784.0	ppb	6.068	0.8	2427
Cd 226.502	0.2312	ppb	0.0174	7.5	26.9597
Co 228.615	2.4225	ppb	0.1304	5.4	36.7566
Cr 267.716	47.1270	ppb	0.0612	0.1	2711.42
Cu 324.754	24.2209	ppb	0.2320	1.0	1715.29
Fe 271.441	1922.08	ppb	16.6745	0.9	3479.23
K 766.491	220.775	ppb	1.0800	0.5	9857.79
Mg 279.078	321.929	ppb	4.3362	1.3	904.146
Mn 257.610	5.1674	ppb	0.0318	0.6	1411.55
Mo 202.032	9.4300	ppb	0.3271	3.5	79.6047
Na 330.237	15833.0	ppb	157.423	1.0	756.159
Ni 231.604	6.6076	ppb	0.6578	10.0	19.5742
Pb 220.353	18.2646	ppb	1.0714	5.9	44.6610
Sb 206.834	0.2937	ppb	2.4035	818.4	4.7426
Se 196.026	1.1717	ppb	4.4541	380.1	-1.2779
Sn 189.925	15.3697	ppb	0.2277	1.5	4.5076
Sr 216.596	90.5200	ppb	0.4377	0.5	1396.43
Ti 334.941	311.128	ppb	2.5407	0.8	89061.1
Tl 190.794	-0.1646	ppb	1.3188	801.0	-11.5910
V 292.401	168.322	ppb	1.3310	0.8	4892.73
Zn 206.200	8.8707	ppb	0.1851	2.1	20.3320

680-94396-a-14-b (Samp) **9/25/2013, 6:00:10 PM** **Rack 2, Tube 22**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	-6.5964u	-6.6998u	-6.7332u
Al 308.215	1444809x	1444811x	1446401x
As 188.980	-3.2443	9.9062	16.0484

Label	Replicates Concentration		
B 249.678	41.9526	41.4359	40.5442
Ba 389.178	1067.08	1068.32	1068.66
Be 313.042	13.9473	13.9136	13.9477
Ca 370.602	173.2u	177.1u	175.6u
Cd 226.502	5.2719	5.5258	5.2227
Co 228.615	67.3005	67.0987	67.3297
Cr 267.716	770.298	770.837	771.401
Cu 324.754	161.259	161.432	162.103
Fe 271.441	19401.2	19351.9	19390.8
K 766.491	17742.1	17751.9	17801.2
Mg 279.078	1197.80	1198.82	1195.95
Mn 257.610	36.1319	36.0512	36.0842
Mo 202.032	14.7023	13.8462	15.2518
Na 330.237	17588.5	17490.9	17801.2
Ni 231.604	263.127	264.583	263.972
Pb 220.353	286.587	280.479	283.361
Sb 206.834	29.0500	22.6844	12.2359
Se 196.026	3.1454	-22.7043u	-13.4817u
Sn 189.925	20.8799	21.9121	16.0114
Sr 216.596	612.753	611.396	610.872
Ti 334.941	520.011	519.236	521.078
Tl 190.794	-3.0055u	-11.3550u	-4.6283u
V 292.401	1009.28	1009.36	1011.36
Zn 206.200	243.783	242.567	241.942

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-6.6765b	ppb	0.0714	1.1	-593.965
Al 308.215	1445340xb	ppb	918.312	0.1	8714555
As 188.980	7.5701b	ppb	9.8562	130.2	18.8131
B 249.678	41.3109b	ppb	0.7125	1.7	837.021
Ba 389.178	1068.02b	ppb	0.8322	0.1	25657.5
Be 313.042	13.9362b	ppb	0.0196	0.1	26489.7
Ca 370.602	175.3b	ppb	2.008	1.1	-653.2
Cd 226.502	5.3401b	ppb	0.1627	3.0	376.778
Co 228.615	67.2430b	ppb	0.1258	0.2	925.701
Cr 267.716	770.846b	ppb	0.5517	0.1	44076.1
Cu 324.754	161.598b	ppb	0.4458	0.3	10723.9
Fe 271.441	19381.3b	ppb	25.9763	0.1	34965.1
K 766.491	17765.0b	ppb	31.6768	0.2	760868
Mg 279.078	1197.52b	ppb	1.4567	0.1	2820.52
Mn 257.610	36.0891b	ppb	0.0406	0.1	9337.23
Mo 202.032	14.6001b	ppb	0.7083	4.9	118.403
Na 330.237	17626.9b	ppb	158.697	0.9	829.216
Ni 231.604	263.894b	ppb	0.7311	0.3	985.948
Pb 220.353	283.476b	ppb	3.0555	1.1	550.462
Sb 206.834	21.3234b	ppb	8.4893	39.8	49.7459
Se 196.026	-11.0135b	ppb	13.1004	118.9	-8.6742
Sn 189.925	19.6011b	ppb	3.1513	16.1	8.9182
Sr 216.596	611.673b	ppb	0.9710	0.2	9422.56
Ti 334.941	520.108b	ppb	0.9247	0.2	148992
Tl 190.794	-6.3296b	ppb	4.4271	69.9	-21.0123
V 292.401	1010.00b	ppb	1.1781	0.1	29340.0
Zn 206.200	242.764b	ppb	0.9361	0.4	400.309

680-94396-a-15-b (Samp) **9/25/2013, 6:04:46 PM** **Rack 2, Tube 23**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.2593u	-0.1091u	0.1156
Al 308.215	47889.2	48307.8	47497.0
As 188.980	3.3073	5.3216	5.4400
B 249.678	4.7467	4.9793	5.2488
Ba 389.178	159.135	160.092	156.434
Be 313.042	0.8257	0.8303	0.8169
Ca 370.602	989.2	1005	978.9
Cd 226.502	0.2107	0.2640	0.1540
Co 228.615	2.2722	2.0506	1.7700
Cr 267.716	44.8378	45.7563	44.6261
Cu 324.754	20.4322	21.2015	20.7091
Fe 271.441	3381.45	3423.89	3349.23
K 766.491	196.697	198.282	194.272
Mg 279.078	562.019	571.213	554.265
Mn 257.610	8.4580	8.5981	8.3954
Mo 202.032	9.4614	9.4374	9.7646
Na 330.237	12923.1	13000.9	12662.0
Ni 231.604	4.7899	4.7111	4.7051
Pb 220.353	29.5086	30.6430	29.9416
Sb 206.834	0.6011	1.5916	1.2071
Se 196.026	-0.3319u	-4.8135u	3.0505
Sn 189.925	19.9683	17.9625	15.7145
Sr 216.596	119.753	120.779	118.396
Ti 334.941	319.130	321.696	315.655
Tl 190.794	-3.0538u	-0.7918u	2.8170
V 292.401	210.993	213.667	209.569
Zn 206.200	8.4346	8.8276	9.7038

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0843	ppb	0.1886	223.8	-21.6606
Al 308.215	47898.0	ppb	405.448	0.8	288754
As 188.980	4.6896	ppb	1.1986	25.6	-2.9645
B 249.678	4.9916	ppb	0.2513	5.0	189.859
Ba 389.178	158.554	ppb	1.8970	1.2	3791.22
Be 313.042	0.8243	ppb	0.0068	0.8	1304.27
Ca 370.602	991.2	ppb	13.36	1.3	2955
Cd 226.502	0.2096	ppb	0.0550	26.2	31.8990
Co 228.615	2.0309	ppb	0.2517	12.4	31.7167
Cr 267.716	45.0734	ppb	0.6008	1.3	2593.97
Cu 324.754	20.7810	ppb	0.3896	1.9	1489.62
Fe 271.441	3384.86	ppb	37.4421	1.1	6116.06
K 766.491	196.417	ppb	2.0195	1.0	8815.12
Mg 279.078	562.499	ppb	8.4839	1.5	1575.36
Mn 257.610	8.4838	ppb	0.1038	1.2	2261.88
Mo 202.032	9.5545	ppb	0.1824	1.9	80.4328
Na 330.237	12862.0	ppb	177.512	1.4	621.118
Ni 231.604	4.7354	ppb	0.0473	1.0	12.5938
Pb 220.353	30.0311	ppb	0.5725	1.9	68.4813
Sb 206.834	1.1333	ppb	0.4994	44.1	6.1218
Se 196.026	-0.6983	ppb	3.9448	564.9	-2.4185
Sn 189.925	17.8817	ppb	2.1280	11.9	7.1251
Sr 216.596	119.643	ppb	1.1953	1.0	1845.99

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ti 334.941	318.827	ppb	3.0319	1.0	91267.8
Tl 190.794	-0.3429	ppb	2.9610	863.6	-11.9474
V 292.401	211.409	ppb	2.0805	1.0	6146.98
Zn 206.200	8.9887	ppb	0.6497	7.2	20.5499

680-94396-a-16-b (Samp) **9/25/2013, 6:09:22 PM** **Rack 2, Tube 24**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.2927u	0.2092	0.0881
Al 308.215	50231.1	49617.9	49853.7
As 188.980	2.4326	5.1632	2.7916
B 249.678	6.9274	6.6418	6.7487
Ba 389.178	107.617	106.089	106.211
Be 313.042	1.0073	1.0032	1.0095
Ca 370.602	746.9	731.9	731.0
Cd 226.502	0.1252	0.2626	0.2724
Co 228.615	2.6922	2.8259	3.0150
Cr 267.716	43.5800	42.7764	43.2632
Cu 324.754	20.5138	20.9084	20.7499
Fe 271.441	2124.07	2094.11	2109.30
K 766.491	222.504	220.764	221.382
Mg 279.078	364.760	364.573	361.162
Mn 257.610	5.1491	5.0379	5.0668
Mo 202.032	8.7492	8.5235	8.5324
Na 330.237	14909.3	14494.3	14515.6
Ni 231.604	7.1558	6.2673	6.3530
Pb 220.353	22.1950	19.2722	17.9677
Sb 206.834	1.0542	0.2831	-1.5837u
Se 196.026	0.3724	3.7010	2.2064
Sn 189.925	15.5275	18.3116	16.5729
Sr 216.596	93.2124	91.2259	92.4001
Ti 334.941	383.609	378.835	381.233
Tl 190.794	-2.9428u	1.8443	2.3676
V 292.401	164.117	161.586	162.328
Zn 206.200	10.2818	10.9258	8.8402

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0015	ppb	0.2619	17537.4	-13.2844
Al 308.215	49900.9	ppb	309.325	0.6	300838
As 188.980	3.4624	ppb	1.4838	42.9	-4.0375
B 249.678	6.7726	ppb	0.1443	2.1	227.007
Ba 389.178	106.639	ppb	0.8488	0.8	2542.01
Be 313.042	1.0066	ppb	0.0032	0.3	1654.94
Ca 370.602	736.6	ppb	8.944	1.2	2303
Cd 226.502	0.2200	ppb	0.0823	37.4	27.1371
Co 228.615	2.8444	ppb	0.1622	5.7	44.2920
Cr 267.716	43.2066	ppb	0.4048	0.9	2487.67
Cu 324.754	20.7240	ppb	0.1986	1.0	1485.99
Fe 271.441	2109.16	ppb	14.9820	0.7	3816.46
K 766.491	221.550	ppb	0.8818	0.4	9890.99
Mg 279.078	363.498	ppb	2.0254	0.6	1019.62
Mn 257.610	5.0846	ppb	0.0577	1.1	1391.42
Mo 202.032	8.6017	ppb	0.1278	1.5	72.9544

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Na 330.237	14639.7	ppb	233.675	1.6	701.810
Ni 231.604	6.5920	ppb	0.4901	7.4	19.5205
Pb 220.353	19.8116	ppb	2.1647	10.9	47.7216
Sb 206.834	-0.0821	ppb	1.3563	1651.5	4.1045
Se 196.026	2.0933	ppb	1.6672	79.6	-0.7115
Sn 189.925	16.8040	ppb	1.4064	8.4	6.0022
Sr 216.596	92.2795	ppb	0.9988	1.1	1423.72
Ti 334.941	381.226	ppb	2.3873	0.6	109139
Tl 190.794	0.4230	ppb	2.9267	691.8	-10.7804
V 292.401	162.677	ppb	1.3009	0.8	4729.93
Zn 206.200	10.0159	ppb	1.0679	10.7	22.2238

Cont Calib Verif (CCV) **9/25/2013, 6:13:58 PM** **Rack 2, Tube 25**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	503.769	490.202	487.226
Al 308.215	4966.08	4857.32	4875.91
As 188.980	493.173	490.238	487.151
B 249.678	503.774	492.448	494.651
Ba 389.178	5057.45	4923.61	4936.52
Be 313.042	518.380	503.087	503.540
Ca 370.602	5140	5033	5048
Cd 226.502	514.867	500.141	502.738
Co 228.615	522.408	507.188	508.778
Cr 267.716	5235.67	5079.61	5096.04
Cu 324.754	5249.34	5136.42	5107.77
Fe 271.441	4990.02	4868.10	4875.04
K 766.491	10520.1	10261.9	10297.3
Mg 279.078	5152.11	5004.40	5012.35
Mn 257.610	5229.70	5111.39	5095.94
Mo 202.032	518.669	504.837	507.653
Na 330.237	7604.24	7033.07	7092.75
Ni 231.604	2551.73	2502.74	2514.21
Pb 220.353	518.933	501.954	505.600
Sb 206.834	1011.72	982.529	989.016
Se 196.026	5256.56	5091.77	5111.94
Sn 189.925	5172.92	5050.98	5071.31
Sr 216.596	2634.11	2558.78	2568.49
Ti 334.941	497.644	486.004	487.365
Tl 190.794	5241.56	5093.85	5121.04
V 292.401	5123.00	4978.39	4987.00
Zn 206.200	2605.56	2544.08	2551.36

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	493.732	ppb	8.8181	1.8	41931.3	98.74644
Al 308.215	4899.77	ppb	58.1775	1.2	28692.3	97.99538
As 188.980	490.188	ppb	3.0113	0.6	436.856	98.03752
B 249.678	496.958	ppb	6.0051	1.2	9519.66	99.39157
Ba 389.178	4972.53	ppb	73.8281	1.5	119422	99.45058
Be 313.042	508.336	ppb	8.7017	1.7	972024	101.66716
Ca 370.602	5074	ppb	58.24	1.1	15605	101.47301
Cd 226.502	505.915	ppb	7.8608	1.6	27486.9	101.18306
Co 228.615	512.792	ppb	8.3662	1.6	6970.90	102.55831

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Cr 267.716	5137.11	ppb	85.7544	1.7	293517	102.74211
Cu 324.754	5164.51	ppb	74.8478	1.4	338904	103.29017
Fe 271.441	4911.05	ppb	68.4779	1.4	8984.33	98.22109
K 766.491	10359.8	ppb	139.962	1.4	443873	103.59761
Mg 279.078	5056.29	ppb	83.0822	1.6	14014.6	101.12576
Mn 257.610	5145.67	ppb	73.1754	1.4	1309317	102.91348
Mo 202.032	510.387	ppb	7.3100	1.4	4092.18	102.07730
Na 330.237	7243.36	ppb	313.958	4.3	332.472	96.57809
Ni 231.604	2522.89	ppb	25.6218	1.0	9459.23	100.91566
Pb 220.353	508.829	ppb	8.9384	1.8	1033.90	101.76585
Sb 206.834	994.420	ppb	15.3258	1.5	1682.27	99.44204
Se 196.026	5153.42	ppb	89.8878	1.7	3162.75	103.06850
Sn 189.925	5098.40	ppb	65.3257	1.3	5303.24	101.96805
Sr 216.596	2587.13	ppb	40.9775	1.6	39705.9	103.48506
Ti 334.941	490.338	ppb	6.3641	1.3	140412	98.06751
Tl 190.794	5152.15	ppb	78.6171	1.5	7253.82	103.04298
V 292.401	5029.46	ppb	81.1213	1.6	145996	100.58929
Zn 206.200	2567.00	ppb	33.5914	1.3	4185.47	102.68000

Cont Calib Blank (CCB) **9/25/2013, 6:18:33 PM** **Rack 2, Tube 26**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.0711	0.2338	0.1074
Al 308.215	-0.7139u	-0.0557u	-1.1216u
As 188.980	7.2792	-1.7936u	0.3399
B 249.678	1.5559	1.7826	1.8599
Ba 389.178	0.2492	0.7685	0.8447
Be 313.042	0.0070	0.0112	0.0054
Ca 370.602	-3.280u	-0.5064u	-3.129u
Cd 226.502	0.0134	0.0811	0.0417
Co 228.615	-0.2246u	0.7386	0.6873
Cr 267.716	0.2212	-0.0253u	0.0195
Cu 324.754	-0.1758u	-0.0933u	0.2299
Fe 271.441	-0.3447u	1.7985	-2.5327u
K 766.491	-3.8032u	-4.4398u	-3.6897u
Mg 279.078	0.7858	1.4121	-0.8346u
Mn 257.610	-0.2019u	-0.2020u	-0.2014u
Mo 202.032	1.6568	1.3028	0.5622
Na 330.237	-51.8591u	212.839	51.4223
Ni 231.604	0.3780	0.4610	1.9374
Pb 220.353	1.6063	0.2202	2.5599
Sb 206.834	2.7152	0.7104	-1.3730u
Se 196.026	4.4350	4.5437	1.6590
Sn 189.925	0.0327	-0.7779u	-2.6536u
Sr 216.596	0.1732	0.1147	0.3590
Ti 334.941	0.0979	0.1877	0.1405
Tl 190.794	0.3089	-2.2052u	0.0087
V 292.401	-0.2069u	-0.0029u	-0.0219u
Zn 206.200	-0.4386u	0.7578	0.3582

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.1374	ppb	0.0854	62.2	1.5323	0.13741
Al 308.215	-0.6304	ppb	0.5378	85.3	17.6563	-0.63041

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
As 188.980	1.9418	ppb	4.7438	244.3	-6.0820	1.94183
B 249.678	1.7328	ppb	0.1580	9.1	136.924	1.73281
Ba 389.178	0.6208	ppb	0.3240	52.2	-8.3706	0.62081
Be 313.042	0.0079	ppb	0.0030	38.0	-252.131	0.00786
Ca 370.602	-2.305	ppb	1.560	67.7	3.784	-2.30520
Cd 226.502	0.0454	ppb	0.0340	74.9	8.9988	0.04539
Co 228.615	0.4004	ppb	0.5419	135.3	1.1670	0.40041
Cr 267.716	0.0718	ppb	0.1313	182.9	22.5015	0.07180
Cu 324.754	-0.0131	ppb	0.2144	1642.7	126.582	-0.01305
Fe 271.441	-0.3596	ppb	2.1657	602.2	12.4189	-0.35960
K 766.491	-3.9776	ppb	0.4043	10.2	236.919	-3.97758
Mg 279.078	0.4544	ppb	1.1594	255.1	25.9239	0.45445
Mn 257.610	-0.2017	ppb	0.0003	0.2	37.0047	-0.20175
Mo 202.032	1.1739	ppb	0.5586	47.6	13.7630	1.17391
Na 330.237	70.8008	ppb	133.409	188.4	43.5390	70.80078
Ni 231.604	0.9255	ppb	0.8773	94.8	-1.8190	0.92545
Pb 220.353	1.4622	ppb	1.1765	80.5	11.9135	1.46215
Sb 206.834	0.6842	ppb	2.0442	298.8	4.7840	0.68422
Se 196.026	3.5459	ppb	1.6350	46.1	0.1696	3.54589
Sn 189.925	-1.1330	ppb	1.3779	121.6	-12.7022	-1.13295
Sr 216.596	0.2157	ppb	0.1275	59.1	6.1307	0.21565
Ti 334.941	0.1420	ppb	0.0449	31.6	-16.0020	0.14204
Tl 190.794	-0.6292	ppb	1.3731	218.2	-12.1942	-0.62917
V 292.401	-0.0772	ppb	0.1127	145.9	-8.8518	-0.07723
Zn 206.200	0.2258	ppb	0.6091	269.8	6.3552	0.22579

680-94396-a-17-b (Samp) **9/25/2013, 6:23:08 PM** **Rack 2, Tube 27**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.1848u	0.0533u	-0.1369u
Al 308.215	38884.9	38495.7	39168.4
As 188.980	5.8214	4.2052	5.4818
B 249.678	4.0317	4.3272	4.2832
Ba 389.178	99.2476	99.2000	100.620
Be 313.042	0.7520	0.7422	0.7533
Ca 370.602	907.2	897.8	919.5
Cd 226.502	0.1726	0.1983	0.1075
Co 228.615	1.6786	1.5232	1.1959
Cr 267.716	32.3628	32.2280	32.7806
Cu 324.754	16.8192	16.1016	16.6576
Fe 271.441	2131.42	2106.83	2141.29
K 766.491	134.351	132.824	135.761
Mg 279.078	287.606	286.069	290.127
Mn 257.610	4.0914	4.0841	4.1397
Mo 202.032	10.2062	9.9965	10.3890
Na 330.237	13569.9	13636.6	13614.4
Ni 231.604	4.3768	3.9498	2.8153
Pb 220.353	19.7158	19.0281	20.0463
Sb 206.834	0.2297	-1.8840u	2.4062
Se 196.026	-2.6997u	-7.2339u	-0.8034u
Sn 189.925	17.7291	14.8185	15.6151
Sr 216.596	125.015	123.836	125.707
Ti 334.941	187.285	186.019	189.182

Label	Replicates	Concentration	
Tl 190.794	1.3789	-0.6818u	-1.5176u
V 292.401	152.738	151.237	153.377
Zn 206.200	6.6761	6.8943	6.9509

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0895	ppb	0.1259	140.7	-22.8036
Al 308.215	38849.7	ppb	337.712	0.9	234207
As 188.980	5.1695	ppb	0.8522	16.5	-2.6425
B 249.678	4.2141	ppb	0.1594	3.8	178.416
Ba 389.178	99.6892	ppb	0.8064	0.8	2374.93
Be 313.042	0.7492	ppb	0.0061	0.8	1161.61
Ca 370.602	908.1	ppb	10.89	1.2	2727
Cd 226.502	0.1594	ppb	0.0468	29.4	23.9304
Co 228.615	1.4659	ppb	0.2464	16.8	20.4356
Cr 267.716	32.4571	ppb	0.2881	0.9	1872.99
Cu 324.754	16.5262	ppb	0.3765	2.3	1210.79
Fe 271.441	2126.51	ppb	17.7484	0.8	3847.39
K 766.491	134.312	ppb	1.4689	1.1	6156.62
Mg 279.078	287.934	ppb	2.0488	0.7	813.125
Mn 257.610	4.1051	ppb	0.0303	0.7	1141.60
Mo 202.032	10.1973	ppb	0.1964	1.9	85.7878
Na 330.237	13607.0	ppb	33.9622	0.2	655.656
Ni 231.604	3.7140	ppb	0.8070	21.7	8.7221
Pb 220.353	19.5967	ppb	0.5195	2.7	47.6470
Sb 206.834	0.2506	ppb	2.1452	855.8	4.4533
Se 196.026	-3.5790	ppb	3.3042	92.3	-4.1934
Sn 189.925	16.0542	ppb	1.5042	9.4	5.2203
Sr 216.596	124.853	ppb	0.9458	0.8	1924.49
Ti 334.941	187.495	ppb	1.5919	0.8	53649.1
Tl 190.794	-0.2735	ppb	1.4908	545.1	-11.7789
V 292.401	152.451	ppb	1.0986	0.7	4429.52
Zn 206.200	6.8404	ppb	0.1451	2.1	17.0715

680-94396-a-18-b (Samp) **9/25/2013, 6:27:43 PM** **Rack 2, Tube 28**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	-0.0625u	-0.5273u	-0.2271u
Al 308.215	43349.4	43119.8	43092.5
As 188.980	3.5764	3.0794	2.2594
B 249.678	3.8763	3.5827	3.9444
Ba 389.178	144.773	144.959	144.230
Be 313.042	0.8387	0.8358	0.8306
Ca 370.602	395.3	399.9	391.1
Cd 226.502	0.1332	0.4289	0.1484
Co 228.615	2.1033	2.3813	2.7117
Cr 267.716	59.0337	58.8257	58.6194
Cu 324.754	26.4897	26.2341	26.0519
Fe 271.441	2566.98	2567.91	2560.48
K 766.491	285.507	284.054	281.624
Mg 279.078	219.933	221.428	217.074
Mn 257.610	4.7306	4.7339	4.7735
Mo 202.032	12.6440	12.1514	12.2688
Na 330.237	14335.7	14253.1	14203.9

Label	Replicates	Concentration	
Ni 231.604	6.5944	6.7706	6.1770
Pb 220.353	32.7222	32.9755	32.2050
Sb 206.834	-0.3061	1.9304	1.1655
Se 196.026	-5.8993u	1.8509	2.3044
Sn 189.925	18.4568	18.2819	17.3713
Sr 216.596	135.707	135.333	134.516
Ti 334.941	248.201	246.690	245.710
Tl 190.794	-3.0139u	-1.3378u	-2.9113u
V 292.401	215.815	215.294	214.218
Zn 206.200	9.7326	9.6870	9.8648

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.2723	ppb	0.2357	86.6	-38.4368
Al 308.215	43187.2	ppb	141.085	0.3	260350
As 188.980	2.9717	ppb	0.6651	22.4	-4.5804
B 249.678	3.8011	ppb	0.1922	5.1	169.426
Ba 389.178	144.654	ppb	0.3789	0.3	3455.32
Be 313.042	0.8350	ppb	0.0041	0.5	1323.43
Ca 370.602	395.4	ppb	4.395	1.1	1155
Cd 226.502	0.2369	ppb	0.1665	70.3	29.9551
Co 228.615	2.3988	ppb	0.3046	12.7	34.7346
Cr 267.716	58.8263	ppb	0.2071	0.4	3379.33
Cu 324.754	26.2586	ppb	0.2199	0.8	1848.72
Fe 271.441	2565.12	ppb	4.0479	0.2	4638.64
K 766.491	283.728	ppb	1.9622	0.7	12552.6
Mg 279.078	219.478	ppb	2.2127	1.0	620.589
Mn 257.610	4.7460	ppb	0.0238	0.5	1305.35
Mo 202.032	12.3547	ppb	0.2573	2.1	102.958
Na 330.237	14264.2	ppb	66.6219	0.5	685.105
Ni 231.604	6.5140	ppb	0.3049	4.7	19.2399
Pb 220.353	32.6343	ppb	0.3927	1.2	73.7977
Sb 206.834	0.9299	ppb	1.1367	122.2	5.9016
Se 196.026	-0.5813	ppb	4.6110	793.2	-2.3513
Sn 189.925	18.0367	ppb	0.5828	3.2	7.2869
Sr 216.596	135.185	ppb	0.6088	0.5	2083.68
Ti 334.941	246.867	ppb	1.2551	0.5	70654.6
Tl 190.794	-2.4210	ppb	0.9395	38.8	-14.7992
V 292.401	215.109	ppb	0.8144	0.4	6252.20
Zn 206.200	9.7615	ppb	0.0924	0.9	21.7497

680-94396-a-19-b (Samp) **9/25/2013, 6:32:19 PM** **Rack 2, Tube 29**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	-0.2951u	0.2438	0.1354
Al 308.215	176.579	174.603	175.031
As 188.980	28.0690	27.2251	30.2811
B 249.678	0.4155	0.8027	0.9082
Ba 389.178	6.7656	6.6036	6.5275
Be 313.042	0.0387	0.0482	0.0447
Ca 370.602	3443	3424	3456
Cd 226.502	-0.1917u	-0.1567u	-0.5220u
Co 228.615	-1.8763	-2.1866	-1.6636
Cr 267.716	2.8206	2.7914	2.7553

Label	Replicates	Concentration	
Cu 324.754	3.2695	3.7144	3.9117
Fe 271.441	64.8079	67.6386	64.3010
K 766.491	11676.6	11695.3	11800.3
Mg 279.078	176.575	177.393	176.916
Mn 257.610	2.0144	2.0326	2.0648
Mo 202.032	36.9110	37.1157	36.6616
Na 330.237	1078.90	1118.65	999.398
Ni 231.604	3.2636	2.5367	2.3455
Pb 220.353	144.872	146.022	146.567
Sb 206.834	3.9721	1.1557	2.0952
Se 196.026	2.8508	-1.7523u	3.1875
Sn 189.925	11.2833	12.2120	10.7022
Sr 216.596	3.4074	3.7040	3.4105
Ti 334.941	7896.83	7879.28	7960.78
Tl 190.794	3.9767	5.5229	1.7158
V 292.401	26.6946	26.8614	26.7676
Zn 206.200	3.3791	3.6340	2.9924

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0280	ppb	0.2851	1016.5	-7.7112
Al 308.215	175.404	ppb	1.0397	0.6	1039.81
As 188.980	28.5251	ppb	1.5782	5.5	18.0327
B 249.678	0.7088	ppb	0.2595	36.6	117.358
Ba 389.178	6.6322	ppb	0.1216	1.8	136.824
Be 313.042	0.0439	ppb	0.0048	11.0	-189.301
Ca 370.602	3441	ppb	16.32	0.5	14597
Cd 226.502	-0.2901	ppb	0.2016	69.5	-8.9262
Co 228.615	-1.9088	ppb	0.2630	13.8	174.870
Cr 267.716	2.7891	ppb	0.0327	1.2	195.248
Cu 324.754	3.6319	ppb	0.3290	9.1	366.612
Fe 271.441	65.5825	ppb	1.7986	2.7	133.314
K 766.491	11724.1	ppb	66.6889	0.6	502275
Mg 279.078	176.961	ppb	0.4109	0.2	518.000
Mn 257.610	2.0373	ppb	0.0255	1.3	608.511
Mo 202.032	36.8961	ppb	0.2274	0.6	300.557
Na 330.237	1065.65	ppb	60.7206	5.7	63.5736
Ni 231.604	2.7153	ppb	0.4844	17.8	4.8601
Pb 220.353	145.820	ppb	0.8654	0.6	297.449
Sb 206.834	2.4077	ppb	1.4340	59.6	6.8907
Se 196.026	1.4287	ppb	2.7599	193.2	-1.1290
Sn 189.925	11.3992	ppb	0.7615	6.7	0.3637
Sr 216.596	3.5073	ppb	0.1703	4.9	56.6453
Ti 334.941	7912.30	ppb	42.8964	0.5	2266225
Tl 190.794	3.7385	ppb	1.9147	51.2	-5.9909
V 292.401	26.7745	ppb	0.0836	0.3	896.414
Zn 206.200	3.3351	ppb	0.3230	9.7	11.4313

680-94396-a-20-b (Samp) **9/25/2013, 6:36:54 PM** **Rack 2, Tube 30**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	0.2922	0.2044	0.1346
Al 308.215	46596.4	47010.0	47145.7
As 188.980	4.2359	-1.6845u	0.6537

Label	Replicates	Concentration	
B 249.678	3.6634	3.3821	3.2030
Ba 389.178	89.8326	91.4659	91.5298
Be 313.042	0.8255	0.8197	0.8287
Ca 370.602	543.4	553.8	553.2
Cd 226.502	0.2676	0.1740	0.1701
Co 228.615	1.8852	2.0453	1.7587
Cr 267.716	40.7624	40.8923	41.0375
Cu 324.754	21.5382	21.4975	21.9465
Fe 271.441	1553.64	1547.27	1564.47
K 766.491	201.270	202.078	203.253
Mg 279.078	207.227	210.141	212.411
Mn 257.610	3.9175	3.9994	3.9947
Mo 202.032	8.1385	9.0001	8.6441
Na 330.237	15043.6	15220.0	14909.8
Ni 231.604	4.9650	6.6595	5.5092
Pb 220.353	17.5243	20.2415	17.1663
Sb 206.834	0.0615	1.1475	-0.3409u
Se 196.026	5.6850	1.8969	1.5482
Sn 189.925	13.8015	13.9172	12.6381
Sr 216.596	88.2568	89.6025	88.5015
Ti 334.941	394.590	396.909	397.654
Tl 190.794	-2.4741u	-2.9822u	-2.6789u
V 292.401	149.175	149.512	150.615
Zn 206.200	8.4990	9.4354	9.0277

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.2104	ppb	0.0790	37.5	4.5795
Al 308.215	46917.4	ppb	286.115	0.6	282852
As 188.980	1.0683	ppb	2.9819	279.1	-6.2442
B 249.678	3.4162	ppb	0.2321	6.8	164.782
Ba 389.178	90.9428	ppb	0.9619	1.1	2163.83
Be 313.042	0.8246	ppb	0.0046	0.6	1306.85
Ca 370.602	550.1	ppb	5.815	1.1	1782
Cd 226.502	0.2039	ppb	0.0552	27.1	23.9486
Co 228.615	1.8964	ppb	0.1436	7.6	31.8036
Cr 267.716	40.8974	ppb	0.1376	0.3	2355.72
Cu 324.754	21.6607	ppb	0.2483	1.1	1547.40
Fe 271.441	1555.13	ppb	8.6975	0.6	2817.62
K 766.491	202.201	ppb	0.9972	0.5	9062.70
Mg 279.078	209.926	ppb	2.5984	1.2	592.425
Mn 257.610	3.9705	ppb	0.0460	1.2	1104.92
Mo 202.032	8.5943	ppb	0.4330	5.0	72.9521
Na 330.237	15057.8	ppb	155.556	1.0	720.866
Ni 231.604	5.7113	ppb	0.8651	15.1	16.2006
Pb 220.353	18.3107	ppb	1.6817	9.2	44.7056
Sb 206.834	0.2893	ppb	0.7699	266.1	4.6487
Se 196.026	3.0433	ppb	2.2944	75.4	-0.1310
Sn 189.925	13.4522	ppb	0.7075	5.3	2.5083
Sr 216.596	88.7869	ppb	0.7168	0.8	1369.33
Ti 334.941	396.384	ppb	1.5976	0.4	113480
Tl 190.794	-2.7117	ppb	0.2556	9.4	-15.1621
V 292.401	149.767	ppb	0.7528	0.5	4354.62
Zn 206.200	8.9873	ppb	0.4695	5.2	20.5438

680-94396-a-21-d (Samp) **9/25/2013, 6:41:29 PM** **Rack 2, Tube 31**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.1382u	-0.1542u	-0.0396u
Al 308.215	45679.1	45748.6	45784.6
As 188.980	3.7807	2.6993	4.9183
B 249.678	3.0352	3.5120	3.2648
Ba 389.178	97.9497	97.2197	98.7898
Be 313.042	0.8152	0.8036	0.8133
Ca 370.602	457.8	459.6	460.7
Cd 226.502	0.2728	0.1466	0.3697
Co 228.615	1.8725	2.6297	2.3230
Cr 267.716	53.7062	53.8451	54.0960
Cu 324.754	24.9294	25.2551	25.5363
Fe 271.441	1536.72	1538.99	1544.89
K 766.491	397.356	394.971	397.769
Mg 279.078	168.793	163.907	170.776
Mn 257.610	5.1916	5.1785	5.1772
Mo 202.032	7.3881	8.6180	8.2514
Na 330.237	14969.8	14857.3	15026.6
Ni 231.604	7.2556	9.1246	7.8277
Pb 220.353	16.4722	18.6634	16.6677
Sb 206.834	3.4009	2.8090	2.5492
Se 196.026	7.5963	-4.5215u	-9.2507u
Sn 189.925	16.4191	18.3018	13.9991
Sr 216.596	79.5399	79.6667	79.4088
Ti 334.941	420.406	421.231	422.127
Tl 190.794	-1.2590u	-1.1183u	1.4674
V 292.401	141.261	141.592	141.846
Zn 206.200	8.5238	8.5915	8.0414

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1107	ppb	0.0621	56.1	-22.3499
Al 308.215	45737.4	ppb	53.6191	0.1	275738
As 188.980	3.7995	ppb	1.1097	29.2	-3.7785
B 249.678	3.2707	ppb	0.2385	7.3	162.056
Ba 389.178	97.9864	ppb	0.7857	0.8	2332.82
Be 313.042	0.8107	ppb	0.0062	0.8	1280.45
Ca 370.602	459.3	ppb	1.472	0.3	1518
Cd 226.502	0.2630	ppb	0.1119	42.5	27.1078
Co 228.615	2.2751	ppb	0.3809	16.7	37.6886
Cr 267.716	53.8824	ppb	0.1975	0.4	3097.83
Cu 324.754	25.2403	ppb	0.3037	1.2	1782.33
Fe 271.441	1540.20	ppb	4.2177	0.3	2790.74
K 766.491	396.699	ppb	1.5108	0.4	17388.5
Mg 279.078	167.825	ppb	3.5351	2.1	475.368
Mn 257.610	5.1825	ppb	0.0080	0.2	1412.85
Mo 202.032	8.0858	ppb	0.6314	7.8	68.8869
Na 330.237	14951.3	ppb	86.1649	0.6	715.959
Ni 231.604	8.0693	ppb	0.9576	11.9	25.0459
Pb 220.353	17.2678	ppb	1.2126	7.0	42.6091
Sb 206.834	2.9197	ppb	0.4365	14.9	9.0957
Se 196.026	-2.0587	ppb	8.6893	422.1	-3.2623
Sn 189.925	16.2400	ppb	2.1569	13.3	5.4143
Sr 216.596	79.5385	ppb	0.1290	0.2	1227.10

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ti 334.941	421.255	ppb	0.8603	0.2	120603
Tl 190.794	-0.3033	ppb	1.5351	506.1	-11.7700
V 292.401	141.566	ppb	0.2929	0.2	4115.74
Zn 206.200	8.3855	ppb	0.3000	3.6	19.5068

680-94396-a-22-b (Samp) **9/25/2013, 6:46:04 PM** **Rack 2, Tube 32**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	-0.1150u	0.2179	-0.2988u
Al 308.215	39120.5	39484.8	39808.5
As 188.980	4.8178	4.3386	0.5930
B 249.678	2.8056	2.5747	3.4673
Ba 389.178	66.7616	66.9775	67.6931
Be 313.042	0.7751	0.7817	0.7824
Ca 370.602	718.5	726.2	730.1
Cd 226.502	0.1821	0.2966	0.2148
Co 228.615	0.5029	1.0147	1.2887
Cr 267.716	33.1461	33.1038	33.4774
Cu 324.754	16.7327	16.5254	16.7822
Fe 271.441	936.311	940.966	951.180
K 766.491	175.492	177.452	179.481
Mg 279.078	191.340	196.084	197.343
Mn 257.610	2.3841	2.3795	2.4326
Mo 202.032	8.5423	8.7794	8.7322
Na 330.237	17622.8	17743.6	18168.0
Ni 231.604	4.2683	4.3895	4.5568
Pb 220.353	14.7364	15.2536	13.0044
Sb 206.834	1.0097	-1.4001u	-2.6486u
Se 196.026	3.8161	6.5071	-3.2734u
Sn 189.925	14.0187	15.7208	13.7667
Sr 216.596	86.9830	88.0548	88.0785
Ti 334.941	133.718	134.846	136.094
Tl 190.794	-1.2644u	0.4914	-1.6970u
V 292.401	116.780	117.343	118.342
Zn 206.200	7.3068	6.8861	7.1830

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0653	ppb	0.2619	401.2	-19.1026
Al 308.215	39471.3	ppb	344.197	0.9	237960
As 188.980	3.2498	ppb	2.3133	71.2	-4.3604
B 249.678	2.9492	ppb	0.4633	15.7	157.526
Ba 389.178	67.1441	ppb	0.4876	0.7	1591.32
Be 313.042	0.7797	ppb	0.0040	0.5	1221.19
Ca 370.602	724.9	ppb	5.881	0.8	2229
Cd 226.502	0.2311	ppb	0.0590	25.5	22.8704
Co 228.615	0.9354	ppb	0.3988	42.6	11.8592
Cr 267.716	33.2424	ppb	0.2046	0.6	1917.89
Cu 324.754	16.6801	ppb	0.1362	0.8	1220.84
Fe 271.441	942.819	ppb	7.6058	0.8	1713.52
K 766.491	177.475	ppb	1.9945	1.1	8004.29
Mg 279.078	194.922	ppb	3.1651	1.6	553.331
Mn 257.610	2.3987	ppb	0.0294	1.2	703.066
Mo 202.032	8.6846	ppb	0.1255	1.4	73.7794

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Na 330.237	17844.8	ppb	286.324	1.6	848.168
Ni 231.604	4.4049	ppb	0.1449	3.3	11.2816
Pb 220.353	14.3314	ppb	1.1780	8.2	36.9695
Sb 206.834	-1.0130	ppb	1.8596	183.6	2.4093
Se 196.026	2.3499	ppb	5.0524	215.0	-0.5597
Sn 189.925	14.5021	ppb	1.0630	7.3	3.6040
Sr 216.596	87.7054	ppb	0.6258	0.7	1352.00
Ti 334.941	134.886	ppb	1.1887	0.9	38579.7
Tl 190.794	-0.8233	ppb	1.1589	140.8	-12.4728
V 292.401	117.489	ppb	0.7913	0.7	3411.32
Zn 206.200	7.1253	ppb	0.2162	3.0	17.5212

680-94396-a-23-b (Samp) **9/25/2013, 6:50:40 PM** **Rack 2, Tube 33**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	-0.1844u	0.3632	-0.0827u
Al 308.215	38402.4	38331.9	37974.0
As 188.980	-2.0603u	3.6515	3.1429
B 249.678	4.4876	4.0565	3.6069
Ba 389.178	77.0110	77.6220	75.9803
Be 313.042	0.7209	0.7260	0.7141
Ca 370.602	939.1	937.1	929.1
Cd 226.502	0.2533	0.3447	0.2289
Co 228.615	1.9538	1.7772	1.8156
Cr 267.716	32.2824	32.2133	31.8226
Cu 324.754	16.0508	15.9057	15.3652
Fe 271.441	1482.34	1491.14	1463.33
K 766.491	148.194	148.375	147.009
Mg 279.078	244.984	245.552	245.213
Mn 257.610	3.4886	3.4685	3.4355
Mo 202.032	7.7830	8.0596	7.8478
Na 330.237	11096.9	11284.1	11000.0
Ni 231.604	4.0886	3.9873	4.8636
Pb 220.353	16.6519	14.9987	15.6149
Sb 206.834	-1.2355u	-2.2359u	-0.3093u
Se 196.026	-5.7707u	-0.8216u	3.9946
Sn 189.925	14.5059	13.3896	16.8939
Sr 216.596	104.341	103.610	103.881
Ti 334.941	124.146	123.709	122.304
Tl 190.794	-3.6951u	-3.6848u	-2.6275u
V 292.401	134.863	134.999	133.782
Zn 206.200	8.8537	7.5762	7.9633

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0321	ppb	0.2913	908.6	-11.5639
Al 308.215	38236.1	ppb	229.670	0.6	230510
As 188.980	1.5781	ppb	3.1611	200.3	-5.8980
B 249.678	4.0503	ppb	0.4404	10.9	177.012
Ba 389.178	76.8711	ppb	0.8298	1.1	1825.86
Be 313.042	0.7204	ppb	0.0060	0.8	1107.78
Ca 370.602	935.1	ppb	5.284	0.6	2827
Cd 226.502	0.2756	ppb	0.0610	22.1	27.5605
Co 228.615	1.8489	ppb	0.0928	5.0	24.0345

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Cr 267.716	32.1061	ppb	0.2479	0.8	1852.75
Cu 324.754	15.7739	ppb	0.3613	2.3	1161.34
Fe 271.441	1478.93	ppb	14.2141	1.0	2680.08
K 766.491	147.859	ppb	0.7423	0.5	6736.54
Mg 279.078	245.250	ppb	0.2856	0.1	694.126
Mn 257.610	3.4642	ppb	0.0268	0.8	976.237
Mo 202.032	7.8968	ppb	0.1446	1.8	67.3873
Na 330.237	11127.0	ppb	144.411	1.3	543.645
Ni 231.604	4.3132	ppb	0.4794	11.1	10.9501
Pb 220.353	15.7552	ppb	0.8355	5.3	39.9098
Sb 206.834	-1.2603	ppb	0.9635	76.5	2.0293
Se 196.026	-0.8659	ppb	4.8828	563.9	-2.5310
Sn 189.925	14.9298	ppb	1.7902	12.0	4.0472
Sr 216.596	103.944	ppb	0.3695	0.4	1602.32
Ti 334.941	123.386	ppb	0.9620	0.8	35286.6
Tl 190.794	-3.3358	ppb	0.6134	18.4	-16.0476
V 292.401	134.548	ppb	0.6666	0.5	3907.91
Zn 206.200	8.1311	ppb	0.6551	8.1	19.1774

680-94396-a-24-b (Samp) **9/25/2013, 6:55:16 PM** **Rack 2, Tube 34**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.0844u	-0.1772u	-0.2897u
Al 308.215	46854.4	46699.8	46771.8
As 188.980	-4.7797u	2.0194	-1.4463u
B 249.678	3.5742	3.7987	3.8356
Ba 389.178	70.0583	68.5437	70.0412
Be 313.042	0.8192	0.8164	0.8236
Ca 370.602	811.7	804.2	803.3
Cd 226.502	0.3427	0.1977	0.2232
Co 228.615	1.7823	2.1897	2.2254
Cr 267.716	38.7878	38.4739	38.4265
Cu 324.754	16.9994	16.8759	16.3118
Fe 271.441	1436.68	1426.85	1427.17
K 766.491	197.311	195.360	195.892
Mg 279.078	211.275	212.667	213.786
Mn 257.610	3.6696	3.5681	3.6566
Mo 202.032	7.4095	8.5500	8.2096
Na 330.237	14190.8	13912.9	14285.2
Ni 231.604	7.0685	6.1250	5.1468
Pb 220.353	13.4507	12.3655	13.8162
Sb 206.834	-0.9657u	-1.2636u	2.9025
Se 196.026	-7.0033u	1.6882	-7.2041u
Sn 189.925	13.5991	13.9635	12.6979
Sr 216.596	82.3697	81.9874	81.9269
Ti 334.941	135.271	134.928	135.313
Tl 190.794	-1.4289u	-2.1884u	-2.3876u
V 292.401	127.496	126.338	126.696
Zn 206.200	8.0988	6.2700	7.3945

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1838	ppb	0.1028	55.9	-28.8211
Al 308.215	46775.3	ppb	77.3804	0.2	281999

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	-1.4022	ppb	3.3997	242.5	-8.4853
B 249.678	3.7361	ppb	0.1415	3.8	171.178
Ba 389.178	69.5477	ppb	0.8696	1.3	1649.82
Be 313.042	0.8197	ppb	0.0037	0.4	1298.59
Ca 370.602	806.4	ppb	4.647	0.6	2442
Cd 226.502	0.2545	ppb	0.0775	30.4	26.1906
Co 228.615	2.0658	ppb	0.2462	11.9	27.2914
Cr 267.716	38.5627	ppb	0.1963	0.5	2221.94
Cu 324.754	16.7290	ppb	0.3665	2.2	1224.09
Fe 271.441	1430.23	ppb	5.5857	0.4	2592.28
K 766.491	196.188	ppb	1.0089	0.5	8805.31
Mg 279.078	212.576	ppb	1.2580	0.6	599.813
Mn 257.610	3.6314	ppb	0.0552	1.5	1018.32
Mo 202.032	8.0564	ppb	0.5855	7.3	68.6877
Na 330.237	14129.6	ppb	193.531	1.4	679.679
Ni 231.604	6.1134	ppb	0.9609	15.7	17.7069
Pb 220.353	13.2108	ppb	0.7545	5.7	34.5961
Sb 206.834	0.2244	ppb	2.3241	1035.8	4.5171
Se 196.026	-4.1731	ppb	5.0770	121.7	-4.5611
Sn 189.925	13.4202	ppb	0.6515	4.9	2.4747
Sr 216.596	82.0947	ppb	0.2401	0.3	1266.36
Ti 334.941	135.171	ppb	0.2110	0.2	38662.0
Tl 190.794	-2.0016	ppb	0.5059	25.3	-14.1669
V 292.401	126.843	ppb	0.5929	0.5	3683.39
Zn 206.200	7.2544	ppb	0.9224	12.7	17.7165

680-94396-a-25-b (Samp) **9/25/2013, 6:59:51 PM** **Rack 2, Tube 35**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.2759u	-0.2661u	0.0333u
Al 308.215	48719.3	49001.2	48829.0
As 188.980	4.6939	1.5199	9.2467
B 249.678	4.8716	5.2630	5.0472
Ba 389.178	122.209	123.237	123.002
Be 313.042	0.8565	0.8564	0.8648
Ca 370.602	917.5	915.8	910.7
Cd 226.502	0.4971	0.4003	0.4782
Co 228.615	3.9085	4.0338	3.7425
Cr 267.716	44.4589	44.8086	44.5165
Cu 324.754	35.8999	36.3549	36.7997
Fe 271.441	3779.25	3810.73	3779.68
K 766.491	204.731	206.057	205.831
Mg 279.078	589.043	592.344	588.381
Mn 257.610	9.6781	9.7228	9.6530
Mo 202.032	10.7303	10.5794	10.2995
Na 330.237	13282.3	13159.3	13176.4
Ni 231.604	6.0253	6.2083	5.9198
Pb 220.353	28.1171	25.2610	26.5150
Sb 206.834	-0.7067u	1.7335	-0.6246u
Se 196.026	6.0491	2.0610	-3.2693u
Sn 189.925	14.8112	17.4229	17.2347
Sr 216.596	100.698	101.530	100.436
Ti 334.941	342.830	344.226	343.132

Label	Replicates	Concentration	
Tl 190.794	-5.0203u	-2.6436u	-4.7368u
V 292.401	194.616	195.345	194.150
Zn 206.200	10.5634	10.9407	11.8175

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1696	ppb	0.1757	103.6	-28.0725
Al 308.215	48849.8	ppb	142.058	0.3	294496
As 188.980	5.1535	ppb	3.8839	75.4	-2.5353
B 249.678	5.0606	ppb	0.1961	3.9	190.103
Ba 389.178	122.816	ppb	0.5388	0.4	2933.64
Be 313.042	0.8592	ppb	0.0048	0.6	1371.57
Ca 370.602	914.7	ppb	3.504	0.4	2702
Cd 226.502	0.4586	ppb	0.0513	11.2	47.0962
Co 228.615	3.8949	ppb	0.1461	3.8	57.6644
Cr 267.716	44.5947	ppb	0.1875	0.4	2567.00
Cu 324.754	36.3515	ppb	0.4499	1.2	2511.55
Fe 271.441	3789.89	ppb	18.0530	0.5	6846.23
K 766.491	205.540	ppb	0.7090	0.3	9205.63
Mg 279.078	589.922	ppb	2.1229	0.4	1651.50
Mn 257.610	9.6847	ppb	0.0353	0.4	2568.86
Mo 202.032	10.5364	ppb	0.2186	2.1	88.3308
Na 330.237	13206.0	ppb	66.6398	0.5	636.492
Ni 231.604	6.0511	ppb	0.1460	2.4	17.5373
Pb 220.353	26.6310	ppb	1.4316	5.4	61.6289
Sb 206.834	0.1341	ppb	1.3858	1033.7	4.4936
Se 196.026	1.6136	ppb	4.6753	289.7	-0.9974
Sn 189.925	16.4896	ppb	1.4566	8.8	5.6739
Sr 216.596	100.888	ppb	0.5709	0.6	1558.16
Ti 334.941	343.396	ppb	0.7345	0.2	98305.2
Tl 190.794	-4.1336	ppb	1.2981	31.4	-17.3334
V 292.401	194.704	ppb	0.6028	0.3	5661.04
Zn 206.200	11.1072	ppb	0.6434	5.8	24.0227

680-94396-a-26-b (Samp) **9/25/2013, 7:04:28 PM** **Rack 2, Tube 36**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	0.2492	-0.0601u	-0.0830u
Al 308.215	38159.8	38136.4	38020.3
As 188.980	6.3091	2.2688	3.6240
B 249.678	3.2549	4.3849	3.8233
Ba 389.178	102.478	102.769	101.722
Be 313.042	0.8595	0.8520	0.8540
Ca 370.602	1195	1197	1180
Cd 226.502	0.2295	0.1464	0.1690
Co 228.615	2.0063	1.5866	1.6784
Cr 267.716	36.9964	36.9308	36.9105
Cu 324.754	17.9203	17.3705	17.5119
Fe 271.441	1471.92	1467.03	1476.79
K 766.491	162.345	162.671	161.812
Mg 279.078	251.857	258.587	256.178
Mn 257.610	3.4148	3.3935	3.4001
Mo 202.032	9.2624	8.9303	9.6771
Na 330.237	13805.8	13892.3	13698.6

Label	Replicates Concentration		
Ni 231.604	4.5955	4.9094	4.3752
Pb 220.353	18.0299	17.1901	17.5820
Sb 206.834	0.3751	4.0634	2.2193
Se 196.026	2.2483	3.2165	1.0849
Sn 189.925	15.0899	16.1287	15.4182
Sr 216.596	136.691	137.541	137.181
Ti 334.941	97.5486	97.1237	96.8119
Tl 190.794	-2.1369u	-1.6890u	-3.4475u
V 292.401	158.089	157.224	157.912
Zn 206.200	6.0995	7.6198	6.7369

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0354	ppb	0.1856	524.7	-12.8216
Al 308.215	38105.5	ppb	74.6770	0.2	229719
As 188.980	4.0673	ppb	2.0563	50.6	-3.6425
B 249.678	3.8210	ppb	0.5650	14.8	172.668
Ba 389.178	102.323	ppb	0.5405	0.5	2437.14
Be 313.042	0.8552	ppb	0.0039	0.5	1364.39
Ca 370.602	1191	ppb	9.090	0.8	3596
Cd 226.502	0.1816	ppb	0.0430	23.7	22.4278
Co 228.615	1.7571	ppb	0.2206	12.6	22.0622
Cr 267.716	36.9459	ppb	0.0449	0.1	2129.02
Cu 324.754	17.6009	ppb	0.2855	1.6	1280.94
Fe 271.441	1471.91	ppb	4.8779	0.3	2667.59
K 766.491	162.276	ppb	0.4338	0.3	7353.66
Mg 279.078	255.541	ppb	3.4097	1.3	722.912
Mn 257.610	3.4028	ppb	0.0109	0.3	960.698
Mo 202.032	9.2899	ppb	0.3742	4.0	78.5265
Na 330.237	13798.9	ppb	97.0366	0.7	664.820
Ni 231.604	4.6267	ppb	0.2685	5.8	12.1268
Pb 220.353	17.6007	ppb	0.4202	2.4	43.6460
Sb 206.834	2.2193	ppb	1.8442	83.1	7.6968
Se 196.026	2.1833	ppb	1.0673	48.9	-0.6594
Sn 189.925	15.5456	ppb	0.5310	3.4	4.6904
Sr 216.596	137.138	ppb	0.4264	0.3	2112.54
Ti 334.941	97.1614	ppb	0.3698	0.4	27775.0
Tl 190.794	-2.4245	ppb	0.9138	37.7	-14.7475
V 292.401	157.742	ppb	0.4569	0.3	4581.95
Zn 206.200	6.8187	ppb	0.7634	11.2	17.0107

Cont Calib Verif (CCV) **9/25/2013, 7:09:04 PM** **Rack 2, Tube 37**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	488.930	502.088	500.096
Al 308.215	4892.42	5006.80	4976.58
As 188.980	485.874	508.295	499.531
B 249.678	495.275	506.636	504.970
Ba 389.178	4947.64	5081.79	5061.15
Be 313.042	507.168	521.635	520.311
Ca 370.602	5055	5197	5159
Cd 226.502	503.535	516.619	514.239
Co 228.615	510.776	521.734	521.380
Cr 267.716	5110.94	5242.19	5221.09

Label	Replicates Concentration		
Cu 324.754	5117.77	5272.97	5242.20
Fe 271.441	4882.09	5021.01	5004.86
K 766.491	10297.7	10565.1	10537.6
Mg 279.078	5055.17	5162.83	5159.08
Mn 257.610	5137.47	5259.61	5250.21
Mo 202.032	505.763	521.032	517.969
Na 330.237	6945.74	7211.69	7304.37
Ni 231.604	2525.14	2589.58	2579.41
Pb 220.353	505.711	514.206	517.250
Sb 206.834	980.819	1011.12	1008.68
Se 196.026	5111.94	5255.26	5215.27
Sn 189.925	5069.99	5195.91	5210.37
Sr 216.596	2577.64	2646.77	2631.82
Ti 334.941	487.447	500.731	498.398
Tl 190.794	5115.08	5244.52	5228.36
V 292.401	5007.66	5142.43	5115.37
Zn 206.200	2554.03	2623.71	2614.03

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	497.038	ppb	7.0920	1.4	42211.5	99.40761
Al 308.215	4958.60	ppb	59.2732	1.2	29037.1	99.17200
As 188.980	497.900	ppb	11.2994	2.3	443.854	99.58003
B 249.678	502.294	ppb	6.1347	1.2	9620.72	100.45872
Ba 389.178	5030.20	ppb	72.2327	1.4	120807	100.60390
Be 313.042	516.371	ppb	7.9978	1.5	987395	103.27425
Ca 370.602	5137	ppb	73.98	1.4	15800	102.73978
Cd 226.502	511.464	ppb	6.9693	1.4	27788.4	102.29282
Co 228.615	517.963	ppb	6.2264	1.2	7041.30	103.59264
Cr 267.716	5191.41	ppb	70.4813	1.4	296620	103.82816
Cu 324.754	5210.98	ppb	82.1711	1.6	341952	104.21959
Fe 271.441	4969.32	ppb	75.9732	1.5	9090.62	99.38644
K 766.491	10466.8	ppb	147.123	1.4	448455	104.66797
Mg 279.078	5125.69	ppb	61.1015	1.2	14206.6	102.51385
Mn 257.610	5215.77	ppb	67.9664	1.3	1327151	104.31532
Mo 202.032	514.921	ppb	8.0781	1.6	4128.47	102.98428
Na 330.237	7153.93	ppb	186.161	2.6	327.969	95.38577
Ni 231.604	2564.71	ppb	34.6422	1.4	9616.13	102.58849
Pb 220.353	512.389	ppb	5.9806	1.2	1041.08	102.47777
Sb 206.834	1000.21	ppb	16.8362	1.7	1692.42	100.02084
Se 196.026	5194.16	ppb	73.9514	1.4	3187.77	103.88312
Sn 189.925	5158.76	ppb	77.2163	1.5	5366.15	103.17512
Sr 216.596	2618.74	ppb	36.3711	1.4	40190.8	104.74963
Ti 334.941	495.525	ppb	7.0927	1.4	141898	99.10505
Tl 190.794	5195.99	ppb	70.5302	1.4	7315.63	103.91972
V 292.401	5088.48	ppb	71.2940	1.4	147710	101.76968
Zn 206.200	2597.26	ppb	37.7490	1.5	4234.76	103.89025

Cont Calib Blank (CCB) **9/25/2013, 7:13:40 PM** **Rack 2, Tube 38**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.1777u	-0.1949u	0.2917
Al 308.215	-2.6192u	-1.8572u	-1.9083u
As 188.980	1.5881	1.2160	-0.2463u

Label	Replicates	Concentration	
B 249.678	1.0090	1.0005	1.1732
Ba 389.178	1.2280	1.1495	0.7161
Be 313.042	0.0105	0.0147	0.0104
Ca 370.602	1.229	-1.860u	-0.9429u
Cd 226.502	0.0826	0.0421	0.2163
Co 228.615	0.4711	0.0447	-0.1650u
Cr 267.716	0.1369	0.1197	0.1260
Cu 324.754	-0.1813u	-0.3548u	-0.3852u
Fe 271.441	-2.6799u	0.1513	-2.8948u
K 766.491	-4.3619u	-3.8973u	-4.7958u
Mg 279.078	1.2673	1.7283	1.9982
Mn 257.610	-0.2001u	-0.2079u	-0.2132u
Mo 202.032	1.1357	0.9787	1.6152
Na 330.237	-187.316u	3.8590	-22.5022u
Ni 231.604	-1.2111u	0.3437	1.1181
Pb 220.353	3.1874	1.0740	4.0848
Sb 206.834	2.0800	0.4619	1.8597
Se 196.026	-2.7869u	1.2385	1.0167
Sn 189.925	0.6433	0.6234	-0.2604u
Sr 216.596	0.2851	0.4701	-0.1037u
Ti 334.941	0.0960	0.0637	0.1148
Tl 190.794	0.7341	2.3692	0.8429
V 292.401	0.3681	0.0287	-0.0799u
Zn 206.200	-1.1964u	-0.5643u	0.6529

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	-0.0270	ppb	0.2761	1023.9	-12.4617	-0.02696
Al 308.215	-2.1282	ppb	0.4260	20.0	-26.6963	-2.12825
As 188.980	0.8526	ppb	0.9697	113.7	-7.0707	0.85258
B 249.678	1.0609	ppb	0.0974	9.2	124.178	1.06090
Ba 389.178	1.0312	ppb	0.2757	26.7	1.4886	1.03121
Be 313.042	0.0119	ppb	0.0025	20.8	-244.463	0.01188
Ca 370.602	-0.5246	ppb	1.586	302.4	9.290	-0.52461
Cd 226.502	0.1137	ppb	0.0911	80.2	12.7004	0.11365
Co 228.615	0.1169	ppb	0.3241	277.2	-2.6904	0.11691
Cr 267.716	0.1275	ppb	0.0087	6.8	25.6807	0.12752
Cu 324.754	-0.3071	ppb	0.1100	35.8	107.295	-0.30709
Fe 271.441	-1.8078	ppb	1.7000	94.0	9.7700	-1.80779
K 766.491	-4.3517	ppb	0.4493	10.3	220.906	-4.35165
Mg 279.078	1.6646	ppb	0.3696	22.2	29.2999	1.66458
Mn 257.610	-0.2071	ppb	0.0066	3.2	35.6665	-0.20705
Mo 202.032	1.2432	ppb	0.3316	26.7	14.3191	1.24320
Na 330.237	-68.6530	ppb	103.607	150.9	37.2274	-68.65303
Ni 231.604	0.0836	ppb	1.1862	1418.8	-4.9767	0.08360
Pb 220.353	2.7820	ppb	1.5458	55.6	14.5712	2.78203
Sb 206.834	1.4672	ppb	0.8775	59.8	6.0483	1.46721
Se 196.026	-0.1773	ppb	2.2628	1276.5	-2.1156	-0.17726
Sn 189.925	0.3354	ppb	0.5161	153.9	-11.1715	0.33544
Sr 216.596	0.2172	ppb	0.2928	134.8	6.1682	0.21718
Ti 334.941	0.0915	ppb	0.0259	28.3	-30.4595	0.09152
Tl 190.794	1.3154	ppb	0.9142	69.5	-9.4538	1.31543
V 292.401	0.1056	ppb	0.2337	221.2	-3.5623	0.10563
Zn 206.200	-0.3693	ppb	0.9399	254.5	5.3813	-0.36928

680-94396-a-27-b (Samp) **9/25/2013, 7:18:15 PM** **Rack 2, Tube 39**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.0054u	0.1864	0.1536
Al 308.215	41587.8	40998.1	40995.7
As 188.980	4.1892	2.5778	3.4445
B 249.678	3.2150	3.0747	3.4230
Ba 389.178	72.2546	70.7891	71.2305
Be 313.042	0.7569	0.7542	0.7535
Ca 370.602	510.0	504.8	497.7
Cd 226.502	0.2119	0.3211	0.0444
Co 228.615	2.4159	2.2588	2.3136
Cr 267.716	39.6439	39.1312	39.2933
Cu 324.754	18.9580	18.5235	18.4647
Fe 271.441	1504.99	1480.94	1488.05
K 766.491	263.701	260.264	261.935
Mg 279.078	193.008	193.612	191.998
Mn 257.610	4.4817	4.4650	4.4316
Mo 202.032	8.6180	8.2669	7.5361
Na 330.237	12924.1	12765.8	12909.4
Ni 231.604	6.2347	7.3229	7.0206
Pb 220.353	16.0735	15.8275	17.8444
Sb 206.834	4.3877	0.0003	-1.1133u
Se 196.026	1.4927	-5.4032u	-5.1165u
Sn 189.925	14.9294	16.4976	13.9669
Sr 216.596	78.5078	77.1976	77.8140
Ti 334.941	382.722	377.761	378.409
Tl 190.794	-2.2846u	0.7404	-1.8077u
V 292.401	146.984	144.403	145.206
Zn 206.200	7.6416	9.1361	8.3876

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1115	ppb	0.1025	92.0	-3.3719
Al 308.215	41193.9	ppb	341.178	0.8	248342
As 188.980	3.4039	ppb	0.8065	23.7	-4.2001
B 249.678	3.2376	ppb	0.1752	5.4	161.555
Ba 389.178	71.4247	ppb	0.7518	1.1	1694.97
Be 313.042	0.7549	ppb	0.0018	0.2	1173.31
Ca 370.602	504.2	ppb	6.158	1.2	1639
Cd 226.502	0.1925	ppb	0.1394	72.4	23.0912
Co 228.615	2.3294	ppb	0.0797	3.4	37.3163
Cr 267.716	39.3561	ppb	0.2621	0.7	2267.55
Cu 324.754	18.6487	ppb	0.2695	1.4	1349.82
Fe 271.441	1491.32	ppb	12.3556	0.8	2702.64
K 766.491	261.967	ppb	1.7184	0.7	11621.1
Mg 279.078	192.873	ppb	0.8154	0.4	546.936
Mn 257.610	4.4595	ppb	0.0255	0.6	1229.00
Mo 202.032	8.1403	ppb	0.5520	6.8	69.3191
Na 330.237	12866.4	ppb	87.4584	0.7	621.637
Ni 231.604	6.8594	ppb	0.5617	8.2	20.5026
Pb 220.353	16.5818	ppb	1.1003	6.6	41.3455
Sb 206.834	1.0916	ppb	2.9084	266.4	5.9286
Se 196.026	-3.0090	ppb	3.9012	129.7	-3.8460
Sn 189.925	15.1313	ppb	1.2774	8.4	4.2577
Sr 216.596	77.8398	ppb	0.6555	388	1200.96

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ti 334.941	379.631	ppb	2.6969	0.7	108681
Tl 190.794	-1.1173	ppb	1.6264	145.6	-12.9101
V 292.401	145.531	ppb	1.3206	0.9	4231.31
Zn 206.200	8.3885	ppb	0.7473	8.9	19.5695

680-94396-a-28-b (Samp) **9/25/2013, 7:22:51 PM** **Rack 2, Tube 40**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	0.0525	-0.0013u	-0.2228u
Al 308.215	32050.0	32429.2	32644.1
As 188.980	3.3304	0.9456	0.8056
B 249.678	2.9625	2.8608	3.4068
Ba 389.178	77.7601	77.8284	79.0309
Be 313.042	0.6366	0.6388	0.6383
Ca 370.602	371.5	374.4	380.6
Cd 226.502	0.1940	0.2607	0.2519
Co 228.615	1.9146	1.9705	1.7609
Cr 267.716	43.2697	43.3877	43.4803
Cu 324.754	20.2966	20.4140	20.8042
Fe 271.441	1644.67	1654.60	1665.83
K 766.491	273.944	275.420	276.275
Mg 279.078	188.073	190.531	191.020
Mn 257.610	3.7336	3.7611	3.7938
Mo 202.032	8.5976	9.1140	9.7630
Na 330.237	14132.8	14184.1	13878.9
Ni 231.604	4.7157	5.3478	5.5618
Pb 220.353	20.3103	22.9530	21.8660
Sb 206.834	1.7052	1.2051	0.2183
Se 196.026	-2.4641u	-0.7588u	1.5682
Sn 189.925	16.6546	14.3388	17.7144
Sr 216.596	82.6715	83.1320	83.2236
Ti 334.941	190.714	193.206	194.083
Tl 190.794	-5.0878u	-0.1395u	-0.9760u
V 292.401	152.715	153.543	153.889
Zn 206.200	7.9624	7.8042	7.9013

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0572	ppb	0.1459	255.2	-17.9825
Al 308.215	32374.4	ppb	300.789	0.9	195164
As 188.980	1.6939	ppb	1.4190	83.8	-5.8766
B 249.678	3.0767	ppb	0.2904	9.4	158.072
Ba 389.178	78.2065	ppb	0.7148	0.9	1858.09
Be 313.042	0.6379	ppb	0.0012	0.2	948.088
Ca 370.602	375.5	ppb	4.675	1.2	1135
Cd 226.502	0.2356	ppb	0.0362	15.4	26.1013
Co 228.615	1.8820	ppb	0.1085	5.8	26.3196
Cr 267.716	43.3793	ppb	0.1055	0.2	2496.89
Cu 324.754	20.5049	ppb	0.2657	1.3	1471.59
Fe 271.441	1655.04	ppb	10.5869	0.6	2997.67
K 766.491	275.213	ppb	1.1791	0.4	12188.1
Mg 279.078	189.875	ppb	1.5795	0.8	541.954
Mn 257.610	3.7628	ppb	0.0301	0.8	1052.23
Mo 202.032	9.1582	ppb	0.5839	3.9	77.4676

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Na 330.237	14065.3	ppb	163.406	1.2	676.523
Ni 231.604	5.2084	ppb	0.4399	8.4	14.3109
Pb 220.353	21.7098	ppb	1.3282	6.1	51.9916
Sb 206.834	1.0429	ppb	0.7566	72.5	5.8934
Se 196.026	-0.5516	ppb	2.0241	367.0	-2.3372
Sn 189.925	16.2359	ppb	1.7263	10.6	5.4097
Sr 216.596	83.0090	ppb	0.2959	0.4	1280.63
Ti 334.941	192.668	ppb	1.7480	0.9	55129.8
Tl 190.794	-2.0677	ppb	2.6486	128.1	-14.2628
V 292.401	153.382	ppb	0.6033	0.4	4456.36
Zn 206.200	7.8893	ppb	0.0798	1.0	18.7385

680-94396-a-29-b (Samp) **9/25/2013, 7:27:26 PM** **Rack 2, Tube 41**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.1063u	0.0730u	-0.3207u
Al 308.215	60070.9	60181.3	60339.0
As 188.980	9.3129	1.8521	2.6772
B 249.678	2.9016	3.8990	3.6005
Ba 389.178	127.492	127.823	130.059
Be 313.042	1.0301	1.0404	1.0475
Ca 370.602	290.2	289.7	293.4
Cd 226.502	0.3468	0.3965	0.4041
Co 228.615	7.2762	7.8580	7.5506
Cr 267.716	70.1303	70.8085	70.7830
Cu 324.754	71.0985	72.4822	71.4740
Fe 271.441	3301.63	3336.30	3341.58
K 766.491	201.997	204.702	205.817
Mg 279.078	143.100	146.511	148.215
Mn 257.610	5.9057	5.9072	5.9470
Mo 202.032	17.4015	17.6239	17.6785
Na 330.237	16696.4	16920.9	16983.3
Ni 231.604	15.1203	14.9736	15.2258
Pb 220.353	31.8792	31.5959	31.6546
Sb 206.834	-0.8105u	1.0979	-2.3314u
Se 196.026	-4.0799u	5.3058	4.5935
Sn 189.925	19.2163	19.9560	19.2832
Sr 216.596	190.691	192.173	192.528
Ti 334.941	489.043	491.005	491.042
Tl 190.794	-3.3686u	-1.6617u	-3.5248u
V 292.401	221.775	224.406	224.411
Zn 206.200	13.3080	13.6035	13.3144

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1180	ppb	0.1971	167.0	-28.1052
Al 308.215	60197.1	ppb	134.767	0.2	362910
As 188.980	4.6141	ppb	4.0902	88.6	-2.8614
B 249.678	3.4670	ppb	0.5119	14.8	161.060
Ba 389.178	128.458	ppb	1.3966	1.1	3067.36
Be 313.042	1.0393	ppb	0.0088	0.8	1714.52
Ca 370.602	291.1	ppb	2.031	0.7	903.9
Cd 226.502	0.3825	ppb	0.0311	8.1	41.0469
Co 228.615	7.5616	ppb	0.2910	3.8	111.193

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Cr 267.716	70.5740	ppb	0.3844	0.5	4051.51
Cu 324.754	71.6849	ppb	0.7155	1.0	4829.32
Fe 271.441	3326.50	ppb	21.7015	0.7	6011.84
K 766.491	204.172	ppb	1.9645	1.0	9147.09
Mg 279.078	145.942	ppb	2.6044	1.8	409.113
Mn 257.610	5.9200	ppb	0.0234	0.4	1605.65
Mo 202.032	17.5680	ppb	0.1468	0.8	144.762
Na 330.237	16866.9	ppb	150.852	0.9	802.001
Ni 231.604	15.1066	ppb	0.1266	0.8	51.4941
Pb 220.353	31.7099	ppb	0.1495	0.5	71.4638
Sb 206.834	-0.6813	ppb	1.7182	252.2	3.3884
Se 196.026	1.9398	ppb	5.2253	269.4	-0.8002
Sn 189.925	19.4852	ppb	0.4091	2.1	8.7978
Sr 216.596	191.797	ppb	0.9741	0.5	2954.51
Ti 334.941	490.363	ppb	1.1435	0.2	140399
Tl 190.794	-2.8517	ppb	1.0336	36.2	-15.4505
V 292.401	223.530	ppb	1.5206	0.7	6499.61
Zn 206.200	13.4086	ppb	0.1688	1.3	27.6786

680-94396-a-30-b (Samp) **9/25/2013, 7:32:02 PM** **Rack 2, Tube 42**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	-0.3224u	-0.0646u	-0.2512u
Al 308.215	35285.9	34939.6	35290.1
As 188.980	3.3125	5.3428	5.0855
B 249.678	2.9887	2.8042	2.5481
Ba 389.178	82.8460	81.4967	82.9494
Be 313.042	0.7393	0.7281	0.7371
Ca 370.602	542.9	539.5	549.4
Cd 226.502	0.2987	0.1910	0.3313
Co 228.615	2.3749	2.4747	2.8637
Cr 267.716	46.5869	46.3985	46.4423
Cu 324.754	21.5825	21.5362	21.8492
Fe 271.441	1759.34	1746.77	1764.71
K 766.491	311.764	307.486	310.578
Mg 279.078	197.358	193.427	194.066
Mn 257.610	4.3766	4.3130	4.4112
Mo 202.032	8.6431	9.0823	9.2443
Na 330.237	16101.0	15966.8	16134.5
Ni 231.604	6.0977	6.4655	6.3239
Pb 220.353	21.5467	21.2774	21.7577
Sb 206.834	-0.0256	1.5661	-3.9604u
Se 196.026	-0.6690u	1.5331	5.2345
Sn 189.925	18.2036	16.0211	13.2846
Sr 216.596	99.1845	98.5491	98.8985
Ti 334.941	178.027	176.445	178.282
Tl 190.794	-0.0896u	-0.3129u	-0.6490u
V 292.401	151.711	149.482	150.997
Zn 206.200	8.6676	8.8202	9.9375

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.2127	ppb	0.1332	62.6	-32.0214
Al 308.215	35171.9	ppb	201.131	0.6	212031

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	4.5803	ppb	1.1055	24.1	-3.2208
B 249.678	2.7803	ppb	0.2213	8.0	152.196
Ba 389.178	82.4307	ppb	0.8105	1.0	1959.68
Be 313.042	0.7348	ppb	0.0059	0.8	1133.67
Ca 370.602	544.0	ppb	5.031	0.9	1636
Cd 226.502	0.2737	ppb	0.0735	26.8	28.5555
Co 228.615	2.5711	ppb	0.2583	10.0	35.2778
Cr 267.716	46.4759	ppb	0.0986	0.2	2673.92
Cu 324.754	21.6560	ppb	0.1689	0.8	1547.17
Fe 271.441	1756.94	ppb	9.2067	0.5	3181.43
K 766.491	309.943	ppb	2.2086	0.7	13674.8
Mg 279.078	194.950	ppb	2.1098	1.1	555.097
Mn 257.610	4.3669	ppb	0.0498	1.1	1206.25
Mo 202.032	8.9899	ppb	0.3111	3.5	76.1166
Na 330.237	16067.4	ppb	88.7000	0.6	767.251
Ni 231.604	6.2957	ppb	0.1855	2.9	18.3926
Pb 220.353	21.5273	ppb	0.2407	1.1	51.5856
Sb 206.834	-0.8066	ppb	2.8448	352.7	2.9543
Se 196.026	2.0329	ppb	2.9833	146.8	-0.7503
Sn 189.925	15.8364	ppb	2.4647	15.6	4.9941
Sr 216.596	98.8774	ppb	0.3182	0.3	1524.67
Ti 334.941	177.585	ppb	0.9953	0.6	50809.7
Tl 190.794	-0.3505	ppb	0.2816	80.3	-11.8500
V 292.401	150.730	ppb	1.1385	0.8	4378.71
Zn 206.200	9.1418	ppb	0.6933	7.6	20.7764

680-94239-a-4-p (Samp) **9/25/2013, 7:36:37 PM** **Rack 2, Tube 43**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-2.1530u	-1.3703u	-1.5534u
Al 308.215	129932	132798	133177
As 188.980	38.8488	40.2156	43.5757
B 249.678	15.4045u	15.7214u	15.9514u
Ba 389.178	460.318	469.070	469.625
Be 313.042	2.8224	2.8548	2.8651
Ca 370.602	11451	11633	11642
Cd 226.502	-1.5966	-1.5315	-1.6711
Co 228.615	21.5335	22.8081	21.6096
Cr 267.716	167.278	170.139	170.058
Cu 324.754	47.3575	48.1661	47.8621
Fe 271.441	158351	161525	161574
K 766.491	3744.06	3820.81	3833.85
Mg 279.078	10681.7	10887.6	10867.4
Mn 257.610	289.268	295.414	295.850
Mo 202.032	7.6287	8.3646	9.3790
Na 330.237	695.623u	464.794u	532.117u
Ni 231.604	48.4358	49.3205	49.0812
Pb 220.353	166.791	167.857	168.222
Sb 206.834	4.3896	0.3392	-0.5202
Se 196.026	3.0432	-17.2219u	-5.6975u
Sn 189.925	13.5573	16.5376	15.6319
Sr 216.596	54.9186	55.5863	56.3067
Ti 334.941	1104.87	1129.70	1131.87

Label	Replicates Concentration		
Tl 190.794	-3.1224u	-0.9562u	-3.0871u
V 292.401	276.590	281.971	281.907
Zn 206.200	174.013	177.276	179.148

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.6922	ppb	0.4094	24.2	-154.303
Al 308.215	131969	ppb	1774.31	1.3	795653
As 188.980	40.8801	ppb	2.4324	6.0	28.8343
B 249.678	15.6924	ppb	0.2746	1.8	-20.2037
Ba 389.178	466.338	ppb	5.2206	1.1	11440.2
Be 313.042	2.8474	ppb	0.0223	0.8	5180.75
Ca 370.602	11575	ppb	107.4	0.9	23785
Cd 226.502	-1.5997	ppb	0.0699	4.4	587.747
Co 228.615	21.9837	ppb	0.7150	3.3	330.762
Cr 267.716	169.158	ppb	1.6292	1.0	9731.37
Cu 324.754	47.7952	ppb	0.4085	0.9	3321.71
Fe 271.441	160483	ppb	1846.57	1.2	289279
K 766.491	3799.57	ppb	48.5201	1.3	163054
Mg 279.078	10812.2	ppb	113.495	1.0	30154.8
Mn 257.610	293.511	ppb	3.6810	1.3	75342.3
Mo 202.032	8.4574	ppb	0.8788	10.4	62.7975
Na 330.237	564.178	ppb	118.708	21.0	17.7461
Ni 231.604	48.9459	ppb	0.4576	0.9	183.085
Pb 220.353	167.623	ppb	0.7438	0.4	356.643
Sb 206.834	1.4029	ppb	2.6220	186.9	14.1435
Se 196.026	-6.6254	ppb	10.1644	153.4	-5.3052
Sn 189.925	15.2423	ppb	1.5278	10.0	4.3673
Sr 216.596	55.6039	ppb	0.6942	1.2	1059.80
Ti 334.941	1122.15	ppb	14.9994	1.3	321430
Tl 190.794	-2.3886	ppb	1.2406	51.9	-29.0294
V 292.401	280.156	ppb	3.0883	1.1	8154.12
Zn 206.200	176.813	ppb	2.5985	1.5	296.408

mb 680-295281/1-a (Samp) **9/25/2013, 7:41:13 PM** **Rack 2, Tube 44**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.1380u	0.4910	0.1852
Al 308.215	9.7256	12.9355	11.1469
As 188.980	1.7247	-1.0128u	0.3277
B 249.678	0.0882	0.3917	0.0622
Ba 389.178	0.7550	0.1609	0.7870
Be 313.042	0.0163	0.0119	0.0127
Ca 370.602	61.22	60.08	59.52
Cd 226.502	-0.0511u	0.1057	-0.0191u
Co 228.615	0.2126	0.1159	0.0338
Cr 267.716	0.5427	0.8525	0.5301
Cu 324.754	0.2593	-0.1477u	0.0594
Fe 271.441	22.2391	12.1531	13.4869
K 766.491	5.2167	5.3690	5.7873
Mg 279.078	30.2872	29.8301	28.6116
Mn 257.610	0.4470	0.4502	0.4221
Mo 202.032	0.4852	0.2872	0.3875
Na 330.237	-183.566u	-12.8712u	6.7382

Label	Replicates Concentration		
Ni 231.604	0.9169	1.0079	1.1491
Pb 220.353	1.7413	2.5894	1.7745
Sb 206.834	-1.9541u	1.1439	-0.6437u
Se 196.026	-4.5546u	-3.5179u	1.0651
Sn 189.925	8.6891	10.8261	9.2961
Sr 216.596	0.5916	0.9558	0.5532
Ti 334.941	0.8316	0.7181	0.6761
Tl 190.794	-1.4390u	-1.1296u	-3.7550u
V 292.401	0.0198	0.2445	-0.1633u
Zn 206.200	2.4151	3.0509	1.0823

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1794	ppb	0.3145	175.4	5.0825
Al 308.215	11.2693	ppb	1.6085	14.3	54.0477
As 188.980	0.3466	ppb	1.3689	395.0	-7.5297
B 249.678	0.1807	ppb	0.1832	101.4	107.434
Ba 389.178	0.5676	ppb	0.3526	62.1	-9.5507
Be 313.042	0.0136	ppb	0.0023	17.1	-240.963
Ca 370.602	60.27	ppb	0.8655	1.4	194.5
Cd 226.502	0.0118	ppb	0.0828	700.0	7.2441
Co 228.615	0.1208	ppb	0.0895	74.1	-2.5953
Cr 267.716	0.6418	ppb	0.1826	28.5	55.0797
Cu 324.754	0.0570	ppb	0.2035	357.1	131.154
Fe 271.441	15.9597	ppb	5.4789	34.3	41.7961
K 766.491	5.4577	ppb	0.2955	5.4	640.810
Mg 279.078	29.5763	ppb	0.8662	2.9	107.115
Mn 257.610	0.4398	ppb	0.0154	3.5	200.525
Mo 202.032	0.3867	ppb	0.0990	25.6	7.4400
Na 330.237	-63.2329	ppb	104.671	165.5	37.4314
Ni 231.604	1.0246	ppb	0.1170	11.4	-1.4457
Pb 220.353	2.0351	ppb	0.4803	23.6	13.0695
Sb 206.834	-0.4846	ppb	1.5551	320.9	2.9230
Se 196.026	-2.3358	ppb	2.9905	128.0	-3.4403
Sn 189.925	9.6038	ppb	1.1012	11.5	-1.5098
Sr 216.596	0.7002	ppb	0.2222	31.7	13.6209
Ti 334.941	0.7419	ppb	0.0804	10.8	155.952
Tl 190.794	-2.1079	ppb	1.4348	68.1	-14.2814
V 292.401	0.0337	ppb	0.2042	606.6	-5.5078
Zn 206.200	2.1828	ppb	1.0047	46.0	9.5551

lcs 680-295281/2-a (Samp) **9/25/2013, 7:45:49 PM** **Rack 2, Tube 45**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	55.9577	56.6786	55.3844
Al 308.215	4739.54	4783.10	4629.66
As 188.980	95.9219	97.3042	97.4028
B 249.678	183.294	184.804	178.800
Ba 389.178	98.2179	99.1449	95.8556
Be 313.042	49.5177	50.0799	48.6027
Ca 370.602	4977	5024	4862
Cd 226.502	49.0444	49.6240	48.0480
Co 228.615	49.9832	50.1894	48.7075
Cr 267.716	102.286	103.308	100.423

Label	Replicates	Concentration	
Cu 324.754	100.518	101.662	99.8563
Fe 271.441	4840.12	4889.87	4730.74
K 766.491	4813.95	4852.71	4726.59
Mg 279.078	4886.43	4931.22	4784.05
Mn 257.610	511.788	517.627	500.838
Mo 202.032	99.4243	100.667	96.9485
Na 330.237	5377.32	5610.57	5432.48
Ni 231.604	98.3359	99.8316	96.6220
Pb 220.353	50.8196	49.2944	47.9478
Sb 206.834	46.9471	47.3245	43.1765
Se 196.026	98.2814	100.068	90.5514
Sn 189.925	204.236	208.885	202.526
Sr 216.596	99.1821	99.9431	97.7396
Ti 334.941	97.2476	98.2676	95.1341
Tl 190.794	34.6708	37.5579	36.4936
V 292.401	98.1838	99.3799	96.3545
Zn 206.200	99.4421	102.709	96.6937

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	56.0069	ppb	0.6485	1.2	4753.57
Al 308.215	4717.43	ppb	79.0765	1.7	28416.8
As 188.980	96.8763	ppb	0.8280	0.9	80.0410
B 249.678	182.299	ppb	3.1231	1.7	3550.10
Ba 389.178	97.7394	ppb	1.6960	1.7	2344.81
Be 313.042	49.4001	ppb	0.7456	1.5	94227.9
Ca 370.602	4954	ppb	83.55	1.7	14878
Cd 226.502	48.9055	ppb	0.7971	1.6	2681.10
Co 228.615	49.6267	ppb	0.8027	1.6	669.405
Cr 267.716	102.006	ppb	1.4627	1.4	5849.67
Cu 324.754	100.679	ppb	0.9134	0.9	6736.68
Fe 271.441	4820.24	ppb	81.4028	1.7	8709.00
K 766.491	4797.75	ppb	64.6008	1.3	205783
Mg 279.078	4867.23	ppb	75.4365	1.5	13585.1
Mn 257.610	510.084	ppb	8.5232	1.7	129923
Mo 202.032	99.0134	ppb	1.8931	1.9	798.983
Na 330.237	5473.45	ppb	121.906	2.2	285.477
Ni 231.604	98.2631	ppb	1.6060	1.6	363.390
Pb 220.353	49.3539	ppb	1.4368	2.9	108.554
Sb 206.834	45.8160	ppb	2.2937	5.0	78.0724
Se 196.026	96.3003	ppb	5.0582	5.3	57.2789
Sn 189.925	205.216	ppb	3.2908	1.6	202.408
Sr 216.596	98.9549	ppb	1.1192	1.1	1526.48
Ti 334.941	96.8831	ppb	1.5982	1.6	27715.9
Tl 190.794	36.2407	ppb	1.4601	4.0	39.2284
V 292.401	97.9727	ppb	1.5237	1.6	2823.12
Zn 206.200	99.6149	ppb	3.0114	3.0	168.619

680-94506-a-1-a (Samp) **9/25/2013, 7:50:24 PM** **Rack 2, Tube 46**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	-0.2731u	-0.4497u	-0.1373u
Al 308.215	311885	310574	304765
As 188.980	41.7866	40.1581	38.4451

Label	Replicates	Concentration	
B 249.678	345.391	343.354	335.046
Ba 389.178	2930.55	2915.50	2852.22
Be 313.042	52.7719	52.5141	51.1581
Ca 370.602	1627719x	1613846x	1591849x
Cd 226.502	0.7022	0.8013	0.4755
Co 228.615	9.5074	8.9512	7.3479
Cr 267.716	157.424	157.022	153.397
Cu 324.754	47.2214	48.1191	45.7327
Fe 271.441	34659.7	34597.3	33840.2
K 766.491	50633.9x	50373.0x	48883.4x
Mg 279.078	337525	337889	328839
Mn 257.610	14595.8	14558.9	14268.2
Mo 202.032	6.8712	7.2537	6.4754
Na 330.237	18934.3	18987.5	18134.5
Ni 231.604	28.2904	28.0698	26.6052
Pb 220.353	44.5424	45.0203	40.6610
Sb 206.834	9.4397	6.0118	6.3897
Se 196.026	35.9773	31.8320	36.2515
Sn 189.925	7.4964	8.7801	7.4734
Sr 216.596	3010.88	3007.09	2941.33
Ti 334.941	11543.2	11466.7	11247.3
Tl 190.794	11.3312	15.6396	9.8265
V 292.401	168.831	169.219	165.251
Zn 206.200	131.008	129.975	127.260

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.2867b	ppb	0.1566	54.6	-118.851
Al 308.215	309075b	ppb	3789.30	1.2	1863533
As 188.980	40.1299b	ppb	1.6709	4.2	32.4758
B 249.678	341.264b	ppb	5.4804	1.6	6488.41
Ba 389.178	2899.42b	ppb	41.5668	1.4	70559.9
Be 313.042	52.1480b	ppb	0.8669	1.7	100085
Ca 370.602	1611138xb	ppb	18088	1.1	4937110
Cd 226.502	0.6597b	ppb	0.1670	25.3	191.564
Co 228.615	8.6022b	ppb	1.1213	13.0	417.291
Cr 267.716	155.948b	ppb	2.2183	1.4	9041.32
Cu 324.754	47.0244b	ppb	1.2053	2.6	3223.73
Fe 271.441	34365.7b	ppb	456.182	1.3	61960.8
K 766.491	49963.4xb	ppb	944.365	1.9	2139171
Mg 279.078	334751b	ppb	5123.25	1.5	933033
Mn 257.610	14474.3b	ppb	179.426	1.2	3685787
Mo 202.032	6.8668b	ppb	0.3892	5.7	57.2120
Na 330.237	18685.4b	ppb	477.873	2.6	839.580
Ni 231.604	27.6551b	ppb	0.9159	3.3	99.5567
Pb 220.353	43.4079b	ppb	2.3908	5.5	88.8911
Sb 206.834	7.2804b	ppb	1.8795	25.8	19.5106
Se 196.026	34.6869b	ppb	2.4762	7.1	23.8706
Sn 189.925	7.9166b	ppb	0.7479	9.4	-2.3926
Sr 216.596	2986.43b	ppb	39.1014	1.3	46189.9
Ti 334.941	11419.1b	ppb	153.581	1.3	3272220
Tl 190.794	12.2658b	ppb	3.0171	24.6	-6.3771
V 292.401	167.767b	ppb	2.1875	1.3	5059.40
Zn 206.200	129.414b	ppb	1.9356	1.5	217.485

680-94506-a-1-aSD^5 (Samp) **9/25/2013, 7:55:00 PM** **Rack 2, Tube 47**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.4905u	0.0376u	-0.2054u
Al 308.215	70611.3	69368.3	67844.0
As 188.980	8.5441	14.2169	13.6177
B 249.678	80.4376	79.5057	78.0312
Ba 389.178	700.969	688.230	678.740
Be 313.042	12.8123	12.6117	12.4534
Ca 370.602	413725	407926	396813
Cd 226.502	0.1738	0.1158	0.1759
Co 228.615	2.3404	2.0418	2.3653
Cr 267.716	38.2627	37.4926	36.9452
Cu 324.754	10.3722	10.4535	9.9141
Fe 271.441	8489.45	8337.54	8192.54
K 766.491	8361.84	8238.63	8119.21
Mg 279.078	79117.7	77941.9	76650.5
Mn 257.610	3614.69	3559.79	3493.44
Mo 202.032	1.4949	1.5005	1.7501
Na 330.237	3435.18	3563.96	3206.00
Ni 231.604	10.5795	10.3677	10.0735
Pb 220.353	10.5502	12.8469	10.8717
Sb 206.834	-1.2499u	-4.6119u	2.1263
Se 196.026	7.5039	14.6907	6.4404
Sn 189.925	3.3249	4.0284	1.2964
Sr 216.596	726.461	713.992	701.702
Ti 334.941	2763.46	2722.71	2666.66
Tl 190.794	0.1389u	-0.2779u	2.9736
V 292.401	40.8935	40.1214	39.5680
Zn 206.200	32.2282	29.7052	32.2797

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.2195	ppb	0.2644	120.5	-48.6005
Al 308.215	69274.5	ppb	1386.06	2.0	417673
As 188.980	12.1262	ppb	3.1167	25.7	4.0264
B 249.678	79.3249	ppb	1.2133	1.5	1587.12
Ba 389.178	689.313	ppb	11.1537	1.6	16753.0
Be 313.042	12.6258	ppb	0.1799	1.4	24035.9
Ca 370.602	406154	ppb	8594	2.1	1244547
Cd 226.502	0.1551	ppb	0.0341	22.0	51.1177
Co 228.615	2.2492	ppb	0.1800	8.0	98.7025
Cr 267.716	37.5668	ppb	0.6619	1.8	2192.15
Cu 324.754	10.2466	ppb	0.2908	2.8	802.366
Fe 271.441	8339.84	ppb	148.467	1.8	15046.4
K 766.491	8239.90	ppb	121.320	1.5	353129
Mg 279.078	77903.4	ppb	1234.05	1.6	217152
Mn 257.610	3555.98	ppb	60.7136	1.7	905533
Mo 202.032	1.5819	ppb	0.1458	9.2	16.4898
Na 330.237	3401.71	ppb	181.309	5.3	183.144
Ni 231.604	10.3402	ppb	0.2541	2.5	33.7666
Pb 220.353	11.4229	ppb	1.2436	10.9	30.3283
Sb 206.834	-1.2452	ppb	3.3691	270.6	2.6673
Se 196.026	9.5450	ppb	4.4879	47.0	4.9766
Sn 189.925	2.8832	ppb	1.4185	49.2	-8.2945
Sr 216.596	714.051	ppb	12.3793	1.7	11049.5

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ti 334.941	2717.61	ppb	48.6027	1.8	778699
Tl 190.794	0.9448	ppb	1.7692	187.3	-13.0008
V 292.401	40.1943	ppb	0.6658	1.7	1206.92
Zn 206.200	31.4044	ppb	1.4717	4.7	57.3106

680-94506-a-1-a PDS (Samp) **9/25/2013, 7:59:37 PM** **Rack 2, Tube 48**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	47.0483	46.3285	46.6944
Al 308.215	303825	304332	303119
As 188.980	221.079	219.059	215.181
B 249.678	747.836	748.197	748.987
Ba 389.178	2985.54	2983.45	2982.97
Be 313.042	91.5832	91.4451	91.3273
Ca 370.602	1576940x	1576077x	1572201x
Cd 226.502	38.9511	38.7342	38.7299
Co 228.615	159.998	160.356	160.020
Cr 267.716	310.468	310.815	310.322
Cu 324.754	231.717	231.737	228.906
Fe 271.441	35062.0	35037.1	35013.6
K 766.491	51328.1x	51096.3x	50947.1x
Mg 279.078	327317	326424	325266
Mn 257.610	14282.0	14253.0	14255.0
Mo 202.032	164.505	166.303	165.631
Na 330.237	20613.2	20286.6	20792.1
Ni 231.604	174.408	176.043	174.417
Pb 220.353	194.062	191.609	188.319
Sb 206.834	175.241	171.081	171.985
Se 196.026	206.673	217.327	213.967
Sn 189.925	163.885	165.508	162.893
Sr 216.596	3072.05	3070.61	3062.24
Ti 334.941	11317.4	11331.5	11312.6
Tl 190.794	155.579	153.958	154.100
V 292.401	322.379	321.492	319.805
Zn 206.200	282.050	275.867	280.721

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	46.6904b	ppb	0.3599	0.8	3874.66
Al 308.215	303758b	ppb	609.141	0.2	1831456
As 188.980	218.440b	ppb	2.9974	1.4	194.145
B 249.678	748.340b	ppb	0.5886	0.1	14210.1
Ba 389.178	2983.99b	ppb	1.3664	0.0	72570.5
Be 313.042	91.4519b	ppb	0.1281	0.1	175235
Ca 370.602	1575073xb	ppb	2524	0.2	4826547
Cd 226.502	38.8051b	ppb	0.1265	0.3	2264.49
Co 228.615	160.125b	ppb	0.2008	0.1	2466.35
Cr 267.716	310.535b	ppb	0.2532	0.1	17870.8
Cu 324.754	230.787b	ppb	1.6287	0.7	15283.6
Fe 271.441	35037.6b	ppb	24.2216	0.1	63193.9
K 766.491	51123.9xb	ppb	191.976	0.4	2188844
Mg 279.078	326336b	ppb	1028.33	0.3	909576
Mn 257.610	14263.3b	ppb	16.2247	0.1	3632031
Mo 202.032	165.480b	ppb	0.9087	0.5	1330.58

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Na 330.237	20564.0b	ppb	256.336	1.2	923.031
Ni 231.604	174.956b	ppb	0.9410	0.5	651.795
Pb 220.353	191.330b	ppb	2.8820	1.5	386.678
Sb 206.834	172.769b	ppb	2.1877	1.3	286.577
Se 196.026	212.656b	ppb	5.4464	2.6	133.039
Sn 189.925	164.095b	ppb	1.3200	0.8	160.391
Sr 216.596	3068.30b	ppb	5.2971	0.2	47436.3
Ti 334.941	11320.5b	ppb	9.8422	0.1	3243939
Tl 190.794	154.546b	ppb	0.8979	0.6	194.939
V 292.401	321.225b	ppb	1.3076	0.4	9486.12
Zn 206.200	279.546b	ppb	3.2544	1.2	462.514

Cont Calib Verif (CCV) **9/25/2013, 8:04:12 PM** **Rack 2, Tube 49**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	488.810	499.145	488.340
Al 308.215	4803.49	4862.13	4796.27
As 188.980	480.300	498.277	482.473
B 249.678	489.486	499.955	492.315
Ba 389.178	4902.59	4993.50	4899.52
Be 313.042	503.822	518.546	505.558
Ca 370.602	4995	5043	4968
Cd 226.502	496.919	507.305	499.809
Co 228.615	505.182	513.267	507.716
Cr 267.716	5080.32	5191.74	5104.64
Cu 324.754	5068.58	5185.14	5065.53
Fe 271.441	4849.41	4935.50	4864.59
K 766.491	10154.3	10392.7	10232.6
Mg 279.078	5007.89	5111.73	5028.94
Mn 257.610	5077.36	5161.31	5102.21
Mo 202.032	502.039	510.839	504.284
Na 330.237	7280.61	7314.51	7147.04
Ni 231.604	2495.14	2540.71	2506.44
Pb 220.353	497.855	502.787	501.439
Sb 206.834	962.142	985.707	974.363
Se 196.026	5006.75	5115.61	5052.36
Sn 189.925	4996.88	5091.29	5021.89
Sr 216.596	2551.67	2599.79	2562.26
Ti 334.941	488.342	494.186	485.093
Tl 190.794	5025.83	5134.63	5067.51
V 292.401	4958.66	5062.80	4976.57
Zn 206.200	2519.24	2567.68	2531.36

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	492.098	ppb	6.1073	1.2	41791.5	98.41969
Al 308.215	4820.63	ppb	36.1213	0.7	28220.0	96.41264
As 188.980	487.017	ppb	9.8118	2.0	433.979	97.40331
B 249.678	493.919	ppb	5.4153	1.1	9462.05	98.78371
Ba 389.178	4931.87	ppb	53.3975	1.1	118446	98.63743
Be 313.042	509.308	ppb	8.0468	1.6	973886	101.86168
Ca 370.602	5002	ppb	38.02	0.8	15390	100.04635
Cd 226.502	501.345	ppb	5.3605	1.1	27238.8	100.26891
Co 228.615	508.722	ppb	4.1351	399	6915.84	101.74438

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Cr 267.716	5125.56	ppb	58.5817	1.1	292858	102.51130
Cu 324.754	5106.41	ppb	68.1930	1.3	335093	102.12829
Fe 271.441	4883.17	ppb	45.9557	0.9	8933.25	97.66335
K 766.491	10259.9	ppb	121.487	1.2	439598	102.59892
Mg 279.078	5049.52	ppb	54.8942	1.1	13995.9	100.99047
Mn 257.610	5113.63	ppb	43.1259	0.8	1301164	102.27255
Mo 202.032	505.721	ppb	4.5723	0.9	4054.77	101.14416
Na 330.237	7247.39	ppb	88.5390	1.2	332.948	96.63185
Ni 231.604	2514.10	ppb	23.7303	0.9	9426.24	100.56382
Pb 220.353	500.694	ppb	2.5489	0.5	1017.52	100.13872
Sb 206.834	974.071	ppb	11.7852	1.2	1649.25	97.40706
Se 196.026	5058.24	ppb	54.6692	1.1	3104.32	101.16483
Sn 189.925	5036.69	ppb	48.9122	1.0	5238.91	100.73379
Sr 216.596	2571.24	ppb	25.2857	1.0	39461.7	102.84948
Ti 334.941	489.207	ppb	4.6076	0.9	140088	97.84145
Tl 190.794	5075.99	ppb	54.8900	1.1	7146.43	101.51984
V 292.401	4999.34	ppb	55.6810	1.1	145120	99.98685
Zn 206.200	2539.43	ppb	25.2105	1.0	4140.41	101.57708

Cont Calib Blank (CCB) **9/25/2013, 8:08:48 PM** **Rack 2, Tube 50**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.3576	-0.0707u	-0.3940u
Al 308.215	-2.0622u	-0.9721u	-1.6223u
As 188.980	3.1824	-1.5327u	0.9513
B 249.678	2.6475	1.9567	1.8098
Ba 389.178	0.6271	1.2222	0.8386
Be 313.042	0.0083	0.0049	0.0084
Ca 370.602	5.502	7.062	3.502
Cd 226.502	0.1361	0.1824	0.0197
Co 228.615	0.2148	0.2098	0.4650
Cr 267.716	0.1304	0.0742	-0.0367u
Cu 324.754	0.2761	-0.2823u	0.3863
Fe 271.441	2.1763	-2.0855u	1.5713
K 766.491	-3.5593u	-3.8872u	-3.6326u
Mg 279.078	0.9100	3.8111	3.8770
Mn 257.610	-0.1169u	-0.1909u	-0.1393u
Mo 202.032	1.3121	1.4381	0.7181
Na 330.237	-258.136u	-294.017u	-126.745u
Ni 231.604	1.2732	0.5221	-0.2317u
Pb 220.353	0.4080	3.4067	3.5679
Sb 206.834	1.1089	2.1291	2.2394
Se 196.026	5.5734	-1.1504u	0.8625
Sn 189.925	-2.2237u	-1.9379u	-3.3407u
Sr 216.596	0.2997	-0.0377u	1.0000
Ti 334.941	0.6815	0.6125	0.5783
Tl 190.794	0.4185	-1.9663u	1.6177
V 292.401	0.1369	-0.2461u	-0.1624u
Zn 206.200	-1.1256u	-0.7973u	0.3782

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	-0.0357	ppb	0.3770	1056.5	-13.2076	-0.03569
Al 308.215	-1.5522	ppb	0.5484	35.3	-23.2113	-1.55219

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
As 188.980	0.8670	ppb	2.3587	272.0	-7.0575	0.86703
B 249.678	2.1380	ppb	0.4473	20.9	144.621	2.13803
Ba 389.178	0.8959	ppb	0.3017	33.7	-1.7609	0.89594
Be 313.042	0.0072	ppb	0.0020	27.7	-253.397	0.00719
Ca 370.602	5.355	ppb	1.785	33.3	27.75	5.35508
Cd 226.502	0.1128	ppb	0.0838	74.3	12.6428	0.11277
Co 228.615	0.2965	ppb	0.1459	49.2	-0.2294	0.29652
Cr 267.716	0.0560	ppb	0.0851	152.0	21.5947	0.05596
Cu 324.754	0.1267	ppb	0.3585	283.0	135.747	0.12668
Fe 271.441	0.5540	ppb	2.3059	416.2	14.0506	0.55402
K 766.491	-3.6930	ppb	0.1721	4.7	249.099	-3.69304
Mg 279.078	2.8660	ppb	1.6943	59.1	32.6475	2.86604
Mn 257.610	-0.1491	ppb	0.0379	25.4	50.4256	-0.14906
Mo 202.032	1.1561	ppb	0.3845	33.3	13.6201	1.15609
Na 330.237	-226.299	ppb	88.0632	38.9	30.0834	-226.29915
Ni 231.604	0.5212	ppb	0.7524	144.4	-3.3355	0.52119
Pb 220.353	2.4608	ppb	1.7797	72.3	13.9241	2.46085
Sb 206.834	1.8258	ppb	0.6233	34.1	6.6290	1.82580
Se 196.026	1.7618	ppb	3.4509	195.9	-0.9254	1.76182
Sn 189.925	-2.5007	ppb	0.7413	29.6	-14.1281	-2.50074
Sr 216.596	0.4207	ppb	0.5293	125.8	9.2931	0.42069
Ti 334.941	0.6241	ppb	0.0525	8.4	122.090	0.62410
Tl 190.794	0.0233	ppb	1.8244	7834.4	-11.2746	0.02329
V 292.401	-0.0905	ppb	0.2014	222.5	-9.2264	-0.09052
Zn 206.200	-0.5149	ppb	0.7906	153.5	5.1433	-0.51492

680-94506-a-1-b ms (Samp) **9/25/2013, 8:13:24 PM** **Rack 2, Tube 51**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	42.2744	42.9426	42.7310
Al 308.215	277529	277624	277610
As 188.980	113.864	117.412	111.077
B 249.678	428.468	431.121	430.091
Ba 389.178	2660.85	2668.71	2666.92
Be 313.042	77.1811	77.0955	76.9363
Ca 370.602	1436725x	1440332x	1443908x
Cd 226.502	30.7890	30.7205	30.6410
Co 228.615	38.8871	39.3658	39.7451
Cr 267.716	208.124	208.205	207.295
Cu 324.754	118.545	118.306	119.568
Fe 271.441	39373.7	39411.6	39426.7
K 766.491	47819.6x	48059.5x	48109.4x
Mg 279.078	291780	291202	291422
Mn 257.610	12791.7	12780.3	12793.1
Mo 202.032	67.3366	67.3978	67.1233
Na 330.237	20722.3	20787.0	20830.1
Ni 231.604	86.0549	86.1659	84.8837
Pb 220.353	78.4065	75.9967	73.5447
Sb 206.834	16.9565	21.7508	18.2321
Se 196.026	95.7531	113.857	112.783
Sn 189.925	121.377	129.513	130.322
Sr 216.596	2757.04	2763.72	2754.04
Ti 334.941	11235.7	11282.9	11272.6

Label	Replicates Concentration		
Tl 190.794	31.4517	36.7182	36.9561
V 292.401	222.067	221.788	222.078
Zn 206.200	198.374	196.033	197.201

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	42.6493b	ppb	0.3415	0.8	3538.99
Al 308.215	277588b	ppb	51.0664	0.0	1673676
As 188.980	114.118b	ppb	3.1751	2.8	99.0511
B 249.678	429.894b	ppb	1.3372	0.3	8156.98
Ba 389.178	2665.49b	ppb	4.1196	0.2	64835.5
Be 313.042	77.0709b	ppb	0.1242	0.2	147688
Ca 370.602	1440322xb	ppb	3591	0.2	4413524
Cd 226.502	30.7168b	ppb	0.0741	0.2	1842.73
Co 228.615	39.3327b	ppb	0.4300	1.1	827.014
Cr 267.716	207.875b	ppb	0.5041	0.2	11999.1
Cu 324.754	118.806b	ppb	0.6704	0.6	7936.43
Fe 271.441	39404.0b	ppb	27.2962	0.1	71046.6
K 766.491	47996.2xb	ppb	154.965	0.3	2054959
Mg 279.078	291468b	ppb	291.579	0.1	812394
Mn 257.610	12788.4b	ppb	7.0370	0.1	3256478
Mo 202.032	67.2859b	ppb	0.1441	0.2	542.017
Na 330.237	20779.8b	ppb	54.2593	0.3	932.989
Ni 231.604	85.7015b	ppb	0.7104	0.8	317.385
Pb 220.353	75.9826b	ppb	2.4309	3.2	155.225
Sb 206.834	18.9798b	ppb	2.4831	13.1	38.4697
Se 196.026	107.464b	ppb	10.1565	9.5	68.0292
Sn 189.925	127.071b	ppb	4.9474	3.9	121.718
Sr 216.596	2758.27b	ppb	4.9537	0.2	42658.7
Ti 334.941	11263.7b	ppb	24.8301	0.2	3227520
Tl 190.794	35.0420b	ppb	3.1116	8.9	26.5552
V 292.401	221.978b	ppb	0.1644	0.1	6619.42
Zn 206.200	197.203b	ppb	1.1704	0.6	328.247

680-94506-a-1-c msd (Samp) **9/25/2013, 8:17:59 PM** **Rack 2, Tube 52**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	38.5790	38.9953	40.0494
Al 308.215	253393	252880	252238
As 188.980	105.640	101.394	110.065
B 249.678	391.734	392.931	391.801
Ba 389.178	2520.67	2522.44	2521.33
Be 313.042	70.9488	71.0721	71.1095
Ca 370.602	1328054x	1318312x	1312278x
Cd 226.502	28.7254	28.5315	28.6953
Co 228.615	35.6465	35.9343	36.7560
Cr 267.716	184.340	184.322	185.164
Cu 324.754	108.657	108.308	108.915
Fe 271.441	36424.6	36426.6	36393.4
K 766.491	43687.4x	43542.2x	43543.1x
Mg 279.078	264567	265295	265760
Mn 257.610	11860.3	11883.8	11866.4
Mo 202.032	61.9193	62.9048	61.6098
Na 330.237	19194.5	19415.6	18884.2

Label	Replicates Concentration		
Ni 231.604	79.4965	78.6996	79.5910
Pb 220.353	74.9792	79.8313	75.5447
Sb 206.834	14.5160	18.4750	14.6478
Se 196.026	103.221	89.1872	97.0874
Sn 189.925	119.365	115.528	116.851
Sr 216.596	2470.41	2473.59	2477.70
Ti 334.941	10063.7	10046.7	10024.0
Tl 190.794	36.2713	35.3098	32.1650
V 292.401	193.281	192.927	192.959
Zn 206.200	173.306	173.454	174.513

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	39.2079b	ppb	0.7579	1.9	3256.36
Al 308.215	252837b	ppb	578.704	0.2	1524446
As 188.980	105.700b	ppb	4.3357	4.1	91.1070
B 249.678	392.155b	ppb	0.6722	0.2	7448.82
Ba 389.178	2521.48b	ppb	0.8950	0.0	61301.6
Be 313.042	71.0435b	ppb	0.0841	0.1	136114
Ca 370.602	1319548xb	ppb	7960	0.6	4043276
Cd 226.502	28.6508b	ppb	0.1043	0.4	1717.69
Co 228.615	36.1123b	ppb	0.5758	1.6	750.980
Cr 267.716	184.609b	ppb	0.4808	0.3	10661.4
Cu 324.754	108.627b	ppb	0.3050	0.3	7267.63
Fe 271.441	36414.9b	ppb	18.6124	0.1	65657.9
K 766.491	43590.9xb	ppb	83.5760	0.2	1866385
Mg 279.078	265207b	ppb	601.097	0.2	739196
Mn 257.610	11870.2b	ppb	12.1583	0.1	3022622
Mo 202.032	62.1447b	ppb	0.6763	1.1	500.958
Na 330.237	19164.8b	ppb	266.936	1.4	864.830
Ni 231.604	79.2624b	ppb	0.4896	0.6	293.141
Pb 220.353	76.7851b	ppb	2.6532	3.5	157.687
Sb 206.834	15.8796b	ppb	2.2487	14.2	33.0358
Se 196.026	96.4986b	ppb	7.0355	7.3	61.0058
Sn 189.925	117.248b	ppb	1.9492	1.7	111.413
Sr 216.596	2473.90b	ppb	3.6566	0.1	38266.4
Ti 334.941	10044.8b	ppb	19.8973	0.2	2878273
Tl 190.794	34.5821b	ppb	2.1477	6.2	26.7343
V 292.401	193.056b	ppb	0.1955	0.1	5759.36
Zn 206.200	173.758b	ppb	0.6585	0.4	289.947

680-94506-a-2-a (Samp) **9/25/2013, 8:22:35 PM** **Rack 2, Tube 53**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.4612u	-0.3846u	0.0032u
Al 308.215	281995	281198	287393
As 188.980	46.0547	47.9678	43.9559
B 249.678	308.283	307.804	314.648
Ba 389.178	3084.20	3088.71	3158.86
Be 313.042	46.9396	47.0586	48.1094
Ca 370.602	1459736x	1443565x	1486381x
Cd 226.502	0.3703	0.4155	0.6107
Co 228.615	9.7903	10.2809	10.1883
Cr 267.716	144.132	144.017	147.118

Label	Replicates Concentration		
Cu 324.754	61.4025	60.5041	61.4939
Fe 271.441	39967.4	39924.9	40812.0
K 766.491	45287.2x	45387.2x	46402.5x
Mg 279.078	294503	295111	300784
Mn 257.610	12763.3	12750.2	13059.6
Mo 202.032	8.2024	6.8003	7.5000
Na 330.237	17047.8	17051.6	17986.7
Ni 231.604	32.6495	32.6469	32.7896
Pb 220.353	51.1312	51.0831	54.1849
Sb 206.834	11.7213	9.3131	0.3623
Se 196.026	40.3006	45.7294	41.4675
Sn 189.925	4.5903	9.5234	9.2078
Sr 216.596	2702.76	2699.67	2762.62
Ti 334.941	10670.2	10677.7	10914.0
Tl 190.794	11.0620	7.3131u	14.5221
V 292.401	148.449	147.613	151.429
Zn 206.200	161.332	160.849	163.867

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0266b	ppb	0.4233	1591.0	-85.9906
Al 308.215	283529b	ppb	3370.11	1.2	1709507
As 188.980	45.9928b	ppb	2.0067	4.4	37.2926
B 249.678	310.245b	ppb	3.8208	1.2	5884.79
Ba 389.178	3110.59b	ppb	41.8613	1.3	75539.5
Be 313.042	47.3692b	ppb	0.6438	1.4	90881.3
Ca 370.602	1463227xb	ppb	21621	1.5	4483317
Cd 226.502	0.4655b	ppb	0.1278	27.4	204.261
Co 228.615	10.0865b	ppb	0.2607	2.6	417.360
Cr 267.716	145.089b	ppb	1.7578	1.2	8412.00
Cu 324.754	61.1335b	ppb	0.5470	0.9	4151.87
Fe 271.441	40234.8b	ppb	500.369	1.2	72539.1
K 766.491	45692.3xb	ppb	617.077	1.4	1956337
Mg 279.078	296799b	ppb	3463.96	1.2	827256
Mn 257.610	12857.7b	ppb	174.955	1.4	3274176
Mo 202.032	7.5009b	ppb	0.7010	9.3	62.0266
Na 330.237	17362.0b	ppb	540.965	3.1	780.124
Ni 231.604	32.6953b	ppb	0.0817	0.2	118.621
Pb 220.353	52.1331b	ppb	1.7771	3.4	107.656
Sb 206.834	7.1322b	ppb	5.9853	83.9	19.2499
Se 196.026	42.4992b	ppb	2.8577	6.7	28.1771
Sn 189.925	7.7738b	ppb	2.7615	35.5	-2.6321
Sr 216.596	2721.68b	ppb	35.4835	1.3	42102.8
Ti 334.941	10754.0b	ppb	138.649	1.3	3081538
Tl 190.794	10.9658b	ppb	3.6055	32.9	-7.6430
V 292.401	149.164b	ppb	2.0062	1.3	4505.46
Zn 206.200	162.016b	ppb	1.6212	1.0	270.937

680-94506-a-3-a (Samp) **9/25/2013, 8:27:10 PM** **Rack 2, Tube 54**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	2.6636	1.9018	2.6009
Al 308.215	82251.0	82543.3	82650.3
As 188.980	200.443	203.031	196.910

Label	Replicates Concentration		
B 249.678	417.771	417.793	419.394
Ba 389.178	2317.96	2314.46	2318.05
Be 313.042	16.1056	16.0950	16.0542
Ca 370.602	327441	329304	330713
Cd 226.502	68.6318	68.1504	68.1504
Co 228.615	89.6386	90.0711	90.1333
Cr 267.716	582.072	581.232	580.759
Cu 324.754	1752.06	1740.28	1741.82
Fe 271.441	481769	483061	482579
K 766.491	11054.3	11023.0	10986.5
Mg 279.078	38499.0	38485.1	38463.8
Mn 257.610	13243.7	13304.0	13373.0
Mo 202.032	42.3969	41.5797	42.6261
Na 330.237	-1571.23u	-1466.81u	-1497.46u
Ni 231.604	269.176	271.441	271.675
Pb 220.353	7090.02	7123.21	7151.56
Sb 206.834	84.9287	83.6230	82.5343
Se 196.026	-8.8073	-4.7364	0.4392
Sn 189.925	188.167	187.397	189.597
Sr 216.596	609.246	611.175	612.060
Ti 334.941	2925.09	2922.24	2929.86
Tl 190.794	-4.1057u	1.1435u	-0.7079u
V 292.401	367.270	368.359	367.494
Zn 206.200	14282.8	14316.8	14370.0

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	2.3888	ppb	0.4229	17.7	228.236
Al 308.215	82481.5	ppb	206.684	0.3	497248
As 188.980	200.128	ppb	3.0727	1.5	168.066
B 249.678	418.319	ppb	0.9305	0.2	6774.31
Ba 389.178	2316.82	ppb	2.0487	0.1	56423.4
Be 313.042	16.0849	ppb	0.0271	0.2	30591.8
Ca 370.602	329153	ppb	1641	0.5	972967
Cd 226.502	68.3109	ppb	0.2780	0.4	5719.38
Co 228.615	89.9476	ppb	0.2695	0.3	1314.44
Cr 267.716	581.354	ppb	0.6649	0.1	33442.1
Cu 324.754	1744.72	ppb	6.4036	0.4	114774
Fe 271.441	482470	ppb	652.589	0.1	869649
K 766.491	11021.3	ppb	33.9271	0.3	472190
Mg 279.078	38482.6	ppb	17.7517	0.0	107133
Mn 257.610	13306.9	ppb	64.6971	0.5	3387434
Mo 202.032	42.2009	ppb	0.5500	1.3	315.842
Na 330.237	-1511.84	ppb	53.6738	3.6	-351.300
Ni 231.604	270.764	ppb	1.3805	0.5	1024.60
Pb 220.353	7121.60	ppb	30.8031	0.4	14390.3
Sb 206.834	83.6953	ppb	1.1988	1.4	164.399
Se 196.026	-4.3681	ppb	4.6342	106.1	1.4109
Sn 189.925	188.387	ppb	1.1164	0.6	185.015
Sr 216.596	610.827	ppb	1.4388	0.2	10038.9
Ti 334.941	2925.73	ppb	3.8486	0.1	838184
Tl 190.794	-1.2234	ppb	2.6623	217.6	-64.4804
V 292.401	367.707	ppb	0.5749	0.2	10703.9
Zn 206.200	14323.2	ppb	43.9732	0.3	23444.6

680-94437-b-1-b (Samp) **9/25/2013, 8:31:46 PM** **Rack 2, Tube 55**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	53.1386	52.9288	53.3768
Al 308.215	132496	134317	134323
As 188.980	33.5817	30.9312	34.9035
B 249.678	164.535	166.284	167.068
Ba 389.178	4440.98	4505.03	4514.64
Be 313.042	2.2010	2.2284	2.2417
Ca 370.602	143514	145474	145130
Cd 226.502	14.2583	14.6107	14.6228
Co 228.615	10.4481	10.5594	10.2896
Cr 267.716	250.445	253.480	254.101
Cu 324.754	3742.99	3791.65	3844.64
Fe 271.441	128431	130025	130346
K 766.491	17121.5	17385.5	17446.5
Mg 279.078	34945.1	35311.4	35404.1
Mn 257.610	484.265	489.893	491.208
Mo 202.032	68.1588	68.4636	68.9607
Na 330.237	10177.0	10095.3	9982.55
Ni 231.604	137.961	140.489	139.762
Pb 220.353	256.548	256.109	260.040
Sb 206.834	13.5503	10.0988	8.6352
Se 196.026	32.2803	25.0280	31.4090
Sn 189.925	314.474	314.928	319.141
Sr 216.596	2359.78	2384.55	2392.12
Ti 334.941	307.369	313.247	312.015
Tl 190.794	1.2890u	-3.5660u	-3.7077u
V 292.401	42.5213	42.6005	43.1876
Zn 206.200	8323.00	8396.56	8410.76

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	53.1481	ppb	0.2241	0.4	4392.75
Al 308.215	133712	ppb	1052.89	0.8	806203
As 188.980	33.1388	ppb	2.0229	6.1	22.2419
B 249.678	165.962	ppb	1.2970	0.8	2912.76
Ba 389.178	4486.89	ppb	40.0436	0.9	108010
Be 313.042	2.2237	ppb	0.0207	0.9	4032.11
Ca 370.602	144706	ppb	1046	0.7	433398
Cd 226.502	14.4973	ppb	0.2070	1.4	1332.23
Co 228.615	10.4324	ppb	0.1356	1.3	149.337
Cr 267.716	252.675	ppb	1.9566	0.8	14496.5
Cu 324.754	3793.09	ppb	50.8377	1.3	249028
Fe 271.441	129601	ppb	1025.83	0.8	233612
K 766.491	17317.8	ppb	172.767	1.0	741723
Mg 279.078	35220.2	ppb	242.688	0.7	98202.7
Mn 257.610	488.455	ppb	3.6878	0.8	125069
Mo 202.032	68.5277	ppb	0.4048	0.6	547.406
Na 330.237	10084.9	ppb	97.6319	1.0	352.927
Ni 231.604	139.404	ppb	1.3018	0.9	521.618
Pb 220.353	257.565	ppb	2.1542	0.8	535.578
Sb 206.834	10.7614	ppb	2.5236	23.5	28.1836
Se 196.026	29.5724	ppb	3.9596	13.4	16.8404
Sn 189.925	316.181	ppb	2.5732	0.8	318.154
Sr 216.596	2378.82	ppb	16.9173	0.7	36747.0

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ti 334.941	310.877	ppb	3.0999	1.0	89170.3
Tl 190.794	-1.9949	ppb	2.8448	142.6	-26.0572
V 292.401	42.7698	ppb	0.3640	0.9	1216.58
Zn 206.200	8376.77	ppb	47.1114	0.6	13712.5

680-94357-a-2-a (Samp) **9/25/2013, 8:36:21 PM** **Rack 2, Tube 56**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.0258	-0.1514u	-0.0685u
Al 308.215	104.167	103.910	105.118
As 188.980	4.8046	4.8516	6.7655
B 249.678	2.3439	1.7204	1.7321
Ba 389.178	1.5101	2.3129	1.7147
Be 313.042	0.0334	0.0291	0.0248
Ca 370.602	742.6	743.1	749.9
Cd 226.502	0.1455	0.1577	0.0069
Co 228.615	0.1463	-0.3386u	0.0835
Cr 267.716	0.3163	0.2817	0.3220
Cu 324.754	0.6723	0.2510	0.3151
Fe 271.441	28.8299	31.9360	39.2572
K 766.491	31.0725	29.9928	30.7458
Mg 279.078	177.497	177.094	180.151
Mn 257.610	5.7562	5.7410	5.7983
Mo 202.032	0.4694	0.4418	0.3660
Na 330.237	5132.17	5029.59	5079.51
Ni 231.604	0.4835	0.7243	0.0685
Pb 220.353	2.0912	1.0799	1.3571
Sb 206.834	3.7124	-1.7118u	3.0537
Se 196.026	-1.1514u	-3.4676u	-0.9723u
Sn 189.925	13.0566	11.9789	10.6700
Sr 216.596	2.1346	2.9708	2.5226
Ti 334.941	5.6670	5.5660	5.5516
Tl 190.794	-1.2319u	3.7533	-0.7685u
V 292.401	0.0008u	-0.1209u	-0.3791u
Zn 206.200	1.7484	3.3750	2.3612

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0647	ppb	0.0887	137.0	-15.7635
Al 308.215	104.398	ppb	0.6363	0.6	615.611
As 188.980	5.4739	ppb	1.1188	20.4	-2.8750
B 249.678	1.9321	ppb	0.3566	18.5	140.612
Ba 389.178	1.8459	ppb	0.4172	22.6	21.5776
Be 313.042	0.0291	ppb	0.0043	14.8	-211.673
Ca 370.602	745.2	ppb	4.095	0.5	2293
Cd 226.502	0.1033	ppb	0.0838	81.1	12.2575
Co 228.615	-0.0363	ppb	0.2637	726.9	-4.6032
Cr 267.716	0.3067	ppb	0.0218	7.1	36.0739
Cu 324.754	0.4128	ppb	0.2270	55.0	154.507
Fe 271.441	33.3411	ppb	5.3538	16.1	73.1028
K 766.491	30.6037	ppb	0.5537	1.8	1717.22
Mg 279.078	178.248	ppb	1.6611	0.9	521.529
Mn 257.610	5.7651	ppb	0.0297	0.5	1556.79
Mo 202.032	0.4257	ppb	0.0536	12.7	7.7531

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Na 330.237	5080.43	ppb	51.2964	1.0	270.474
Ni 231.604	0.4254	ppb	0.3317	78.0	-3.6928
Pb 220.353	1.5094	ppb	0.5226	34.6	12.0089
Sb 206.834	1.6848	ppb	2.9599	175.7	6.4264
Se 196.026	-1.8638	ppb	1.3918	74.7	-3.1488
Sn 189.925	11.9018	ppb	1.1952	10.0	0.8881
Sr 216.596	2.5427	ppb	0.4185	16.5	42.0807
Ti 334.941	5.5949	ppb	0.0629	1.1	1546.30
Tl 190.794	0.5843	ppb	2.7542	471.4	-10.4919
V 292.401	-0.1664	ppb	0.1940	116.6	-11.2706
Zn 206.200	2.4948	ppb	0.8215	32.9	10.0672

mb 680-295281/10-a (Samp) **9/25/2013, 8:40:57 PM** **Rack 2, Tube 57**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.0214u	-0.1139u	-0.1512u
Al 308.215	152.768	150.286	150.329
As 188.980	3.5848	-2.6296u	-1.5791u
B 249.678	1.4203	1.3318	2.2391
Ba 389.178	1.5251	1.2433	1.4865
Be 313.042	0.0547	0.0592	0.0514
Ca 370.602	935.8	932.9	943.1
Cd 226.502	0.1353	0.1296	0.1250
Co 228.615	-0.0994u	0.0067	0.7519
Cr 267.716	0.7570	0.7811	0.7670
Cu 324.754	0.1823	0.0399	0.6796
Fe 271.441	44.9519	43.7892	50.5959
K 766.491	26.4564	27.1763	26.7796
Mg 279.078	176.246	175.424	176.069
Mn 257.610	8.6430	8.6936	8.6757
Mo 202.032	0.3262	0.7188	0.3252
Na 330.237	-50.4781u	89.0300	-70.9492u
Ni 231.604	1.2286	0.8110	1.2217
Pb 220.353	3.2296	0.9646	2.4278
Sb 206.834	-1.1558u	2.5416	-1.7519u
Se 196.026	-1.9147u	5.2405	1.4681
Sn 189.925	22.2361	17.5242	15.9659
Sr 216.596	2.2548	2.3271	2.6726
Ti 334.941	7.9904	7.8995	7.8012
Tl 190.794	-3.1141u	-3.6500u	-1.9532u
V 292.401	0.2960	0.6185	0.2554
Zn 206.200	3.1427	3.7753	3.0428

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0955	ppb	0.0669	70.0	-18.3522
Al 308.215	151.128	ppb	1.4205	0.9	897.269
As 188.980	-0.2079	ppb	3.3264	1599.7	-8.0315
B 249.678	1.6637	ppb	0.5003	30.1	135.491
Ba 389.178	1.4183	ppb	0.1528	10.8	11.3229
Be 313.042	0.0551	ppb	0.0039	7.1	-161.312
Ca 370.602	937.3	ppb	5.269	0.6	2882
Cd 226.502	0.1300	ppb	0.0052	4.0	13.7874
Co 228.615	0.2197	ppb	0.4639	211.8	-1.0707

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Cr 267.716	0.7684	ppb	0.0121	1.6	62.3755
Cu 324.754	0.3006	ppb	0.3359	111.7	147.148
Fe 271.441	46.4457	ppb	3.6409	7.8	96.7641
K 766.491	26.8041	ppb	0.3606	1.3	1554.58
Mg 279.078	175.913	ppb	0.4330	0.2	514.943
Mn 257.610	8.6708	ppb	0.0257	0.3	2296.10
Mo 202.032	0.4567	ppb	0.2270	49.7	7.9999
Na 330.237	-10.7990	ppb	87.0583	806.2	39.7617
Ni 231.604	1.0871	ppb	0.2392	22.0	-1.2106
Pb 220.353	2.2073	ppb	1.1485	52.0	13.4131
Sb 206.834	-0.1220	ppb	2.3259	1906.0	3.5134
Se 196.026	1.5980	ppb	3.5793	224.0	-1.0231
Sn 189.925	18.5754	ppb	3.2646	17.6	7.8430
Sr 216.596	2.4182	ppb	0.2233	9.2	40.1986
Ti 334.941	7.8970	ppb	0.0946	1.2	2206.05
Tl 190.794	-2.9058	ppb	0.8674	29.9	-15.4137
V 292.401	0.3899	ppb	0.1989	51.0	4.9573
Zn 206.200	3.3203	ppb	0.3972	12.0	11.4160

lb 680-294858/12-h (Samp) **9/25/2013, 8:45:33 PM** **Rack 2, Tube 58**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.0111u	-0.1473u	0.2109
Al 308.215	147.732	147.297	146.506
As 188.980	0.4615	1.1489	0.4681
B 249.678	6.6581	6.4731	5.6302
Ba 389.178	1.8217	2.0242	1.5058
Be 313.042	0.0323	0.0421	0.0417
Ca 370.602	982.8	974.4	967.9
Cd 226.502	0.0661	0.1000	0.0987
Co 228.615	0.2699	0.0130	0.4878
Cr 267.716	0.7453	0.6252	0.5437
Cu 324.754	0.4867	0.2613	0.5329
Fe 271.441	38.4140	42.0887	38.3129
K 766.491	37.6930	38.0817	37.6514
Mg 279.078	177.928	180.028	173.023
Mn 257.610	8.5128	8.3872	8.3745
Mo 202.032	0.3850	0.6793	0.2165
Na 330.237	19806.0	20024.9	19751.0
Ni 231.604	0.4907	0.7356	1.4944
Pb 220.353	1.5041	2.4456	1.5423
Sb 206.834	1.1623	0.9164	1.0730
Se 196.026	-1.2240u	4.4828	-2.2506u
Sn 189.925	19.2727	19.2132	20.5011
Sr 216.596	2.0613	2.1908	2.2293
Ti 334.941	7.1294	7.0543	6.9895
Tl 190.794	-0.9303u	0.6024	-2.2775u
V 292.401	-0.1895u	0.1385	-0.1159u
Zn 206.200	3.9879	2.9423	2.8855

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0175	ppb	0.1808	1032.1	-8.7335
Al 308.215	147.179	ppb	0.6216	0.4	873.532

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	0.6928	ppb	0.3950	57.0	-7.2138
B 249.678	6.2538	ppb	0.5479	8.8	222.604
Ba 389.178	1.7839	ppb	0.2612	14.6	20.0885
Be 313.042	0.0387	ppb	0.0056	14.4	-194.793
Ca 370.602	975.0	ppb	7.459	0.8	2998
Cd 226.502	0.0883	ppb	0.0192	21.8	11.3326
Co 228.615	0.2569	ppb	0.2377	92.5	-0.5900
Cr 267.716	0.6380	ppb	0.1014	15.9	55.3126
Cu 324.754	0.4270	ppb	0.1453	34.0	155.438
Fe 271.441	39.6052	ppb	2.1514	5.4	84.4366
K 766.491	37.8087	ppb	0.2373	0.6	2025.65
Mg 279.078	176.993	ppb	3.5951	2.0	517.959
Mn 257.610	8.4248	ppb	0.0764	0.9	2233.39
Mo 202.032	0.4269	ppb	0.2343	54.9	7.7624
Na 330.237	19860.6	ppb	144.916	0.7	940.197
Ni 231.604	0.9069	ppb	0.5233	57.7	-1.8871
Pb 220.353	1.8307	ppb	0.5329	29.1	12.6545
Sb 206.834	1.0506	ppb	0.1245	11.9	5.4077
Se 196.026	0.3361	ppb	3.6277	1079.5	-1.7978
Sn 189.925	19.6623	ppb	0.7270	3.7	8.9841
Sr 216.596	2.1605	ppb	0.0880	4.1	36.2321
Ti 334.941	7.0577	ppb	0.0700	1.0	1964.21
Tl 190.794	-0.8685	ppb	1.4409	165.9	-12.5406
V 292.401	-0.0556	ppb	0.1721	309.4	-8.1622
Zn 206.200	3.2719	ppb	0.6207	19.0	11.3373

680-94344-a-4-p (Samp) **9/25/2013, 8:50:09 PM** **Rack 2, Tube 59**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.0199	0.0556	0.1376
Al 308.215	92.3254	96.0583	95.3646
As 188.980	3.6033	1.4164	-1.3280u
B 249.678	7.8709	7.0637	7.3739
Ba 389.178	1.5485	1.6319	1.7186
Be 313.042	0.0265	0.0323	0.0231
Ca 370.602	481.3	487.7	481.2
Cd 226.502	0.1477	0.2995	0.2604
Co 228.615	0.2611	0.4449	-0.5930u
Cr 267.716	1.1922	1.1077	1.2475
Cu 324.754	3.3352	3.1152	2.9077
Fe 271.441	77.1024	81.1161	82.1840
K 766.491	24.4462	25.5038	25.4621
Mg 279.078	89.0505	89.0862	86.9871
Mn 257.610	5.2106	5.2348	5.2109
Mo 202.032	0.4046	0.5094	0.7617
Na 330.237	582.435	668.911	519.047
Ni 231.604	1.4378	2.1864	1.0087
Pb 220.353	3.0267	3.6451	1.9932
Sb 206.834	0.1767	-0.4017u	-1.8690u
Se 196.026	-4.6413u	-1.0796u	6.5733
Sn 189.925	25.5401	21.9982	25.7031
Sr 216.596	1.8374	1.6206	1.6808
Ti 334.941	3.8056	3.6670	3.7399

Label	Replicates Concentration		
Tl 190.794	0.2095	0.3447	1.1238
V 292.401	0.1130	0.1000	0.3385
Zn 206.200	22.9834	21.4523	21.0732

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0710	ppb	0.0604	85.0	-4.1686
Al 308.215	94.5828	ppb	1.9855	2.1	556.379
As 188.980	1.2305	ppb	2.4709	200.8	-6.7272
B 249.678	7.4362	ppb	0.4072	5.5	244.928
Ba 389.178	1.6330	ppb	0.0850	5.2	16.2862
Be 313.042	0.0273	ppb	0.0046	17.0	-214.786
Ca 370.602	483.4	ppb	3.709	0.8	1487
Cd 226.502	0.2359	ppb	0.0788	33.4	19.6572
Co 228.615	0.0376	ppb	0.5538	1471.2	-3.6606
Cr 267.716	1.1825	ppb	0.0704	6.0	86.0298
Cu 324.754	3.1194	ppb	0.2138	6.9	332.095
Fe 271.441	80.1342	ppb	2.6793	3.3	157.461
K 766.491	25.1374	ppb	0.5990	2.4	1483.23
Mg 279.078	88.3746	ppb	1.2018	1.4	270.951
Mn 257.610	5.2188	ppb	0.0139	0.3	1417.13
Mo 202.032	0.5586	ppb	0.1836	32.9	8.8169
Na 330.237	590.131	ppb	75.2282	12.7	66.7912
Ni 231.604	1.5443	ppb	0.5960	38.6	0.5063
Pb 220.353	2.8883	ppb	0.8346	28.9	14.7900
Sb 206.834	-0.6980	ppb	1.0546	151.1	2.5877
Se 196.026	0.2841	ppb	5.7303	2016.8	-1.8305
Sn 189.925	24.4138	ppb	2.0935	8.6	13.9291
Sr 216.596	1.7129	ppb	0.1119	6.5	29.3146
Ti 334.941	3.7375	ppb	0.0693	1.9	1014.21
Tl 190.794	0.5593	ppb	0.4935	88.2	-10.5301
V 292.401	0.1838	ppb	0.1341	73.0	-1.1675
Zn 206.200	21.8363	ppb	1.0114	4.6	41.7106

680-94344-a-4-q ms (Samp) **9/25/2013, 8:54:45 PM** **Rack 2, Tube 60**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	109.543	105.711	105.330
Al 308.215	9359.33	9077.20	9099.15
As 188.980	193.733	189.809	187.839
B 249.678	355.569	346.495	348.308
Ba 389.178	193.949	188.625	189.153
Be 313.042	99.4550	96.9870	97.1045
Ca 370.602	9902	9586	9600
Cd 226.502	94.7163	92.1495	92.5745
Co 228.615	97.7830	93.1724	94.6859
Cr 267.716	199.492	194.559	194.771
Cu 324.754	206.030	199.740	200.703
Fe 271.441	9519.63	9256.52	9281.98
K 766.491	9441.09	9153.11	9178.50
Mg 279.078	9324.98	9090.37	9120.90
Mn 257.610	1006.57	978.460	980.289
Mo 202.032	195.930	190.643	191.350
Na 330.237	10203.4	9835.12	9839.63

Label	Replicates Concentration		
Ni 231.604	192.971	187.238	188.129
Pb 220.353	96.2556	89.6421	91.2819
Sb 206.834	93.6589	87.9915	86.4662
Se 196.026	204.928	189.005	190.248
Sn 189.925	391.960	383.568	383.967
Sr 216.596	192.125	186.858	187.403
Ti 334.941	194.468	188.592	188.853
Tl 190.794	72.7762	73.2092	70.3321
V 292.401	195.791	189.669	190.515
Zn 206.200	224.587	215.206	216.316

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	106.861	ppb	2.3301	2.2	9079.13
Al 308.215	9178.56	ppb	156.937	1.7	55302.6
As 188.980	190.460	ppb	3.0004	1.6	164.941
B 249.678	350.124	ppb	4.8016	1.4	6722.33
Ba 389.178	190.575	ppb	2.9330	1.5	4593.26
Be 313.042	97.8488	ppb	1.3922	1.4	186904
Ca 370.602	9696	ppb	178.3	1.8	29114
Cd 226.502	93.1468	ppb	1.3757	1.5	5101.25
Co 228.615	95.2138	ppb	2.3502	2.5	1288.26
Cr 267.716	196.274	ppb	2.7888	1.4	11238.6
Cu 324.754	202.158	ppb	3.3883	1.7	13398.2
Fe 271.441	9352.71	ppb	145.114	1.6	16885.7
K 766.491	9257.56	ppb	159.442	1.7	396692
Mg 279.078	9178.75	ppb	127.556	1.4	25596.7
Mn 257.610	988.441	ppb	15.7308	1.6	251679
Mo 202.032	192.641	ppb	2.8705	1.5	1550.40
Na 330.237	9959.38	ppb	211.344	2.1	485.724
Ni 231.604	189.446	ppb	3.0851	1.6	705.509
Pb 220.353	92.3932	ppb	3.4440	3.7	195.405
Sb 206.834	89.3722	ppb	3.7899	4.2	148.766
Se 196.026	194.727	ppb	8.8561	4.5	117.858
Sn 189.925	386.498	ppb	4.7340	1.2	391.387
Sr 216.596	188.795	ppb	2.8967	1.5	2909.88
Ti 334.941	190.638	ppb	3.3200	1.7	54590.1
Tl 190.794	72.1058	ppb	1.5513	2.2	89.2695
V 292.401	191.992	ppb	3.3175	1.7	5538.98
Zn 206.200	218.703	ppb	5.1259	2.3	363.141

Cont Calib Verif (CCV) **9/25/2013, 8:59:21 PM** **Rack 3, Tube 1**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	479.786	494.735	481.036
Al 308.215	4761.99	4874.52	4767.52
As 188.980	483.862	501.304	493.131
B 249.678	482.782	495.206	485.109
Ba 389.178	4832.40	4959.93	4855.79
Be 313.042	498.543	509.556	500.427
Ca 370.602	4937	5068	4962
Cd 226.502	490.960	503.247	491.812
Co 228.615	497.795	511.241	499.885
Cr 267.716	5007.84	5136.09	5030.95

Label	Replicates Concentration		
Cu 324.754	4938.83	5206.40	5013.58
Fe 271.441	4780.72	4912.97	4807.47
K 766.491	10053.8	10337.1	10066.8
Mg 279.078	4944.26	5065.01	4958.79
Mn 257.610	5027.45	5140.45	5035.28
Mo 202.032	493.207	507.921	497.246
Na 330.237	6717.88	7130.79	7192.11
Ni 231.604	2457.30	2520.55	2464.40
Pb 220.353	491.610	503.816	492.394
Sb 206.834	954.328	983.631	968.542
Se 196.026	4952.22	5083.29	4990.23
Sn 189.925	4984.19	5046.85	4998.90
Sr 216.596	2517.68	2578.14	2524.90
Ti 334.941	476.836	488.633	478.990
Tl 190.794	4974.98	5108.98	5004.88
V 292.401	4895.24	5023.03	4910.30
Zn 206.200	2502.27	2563.74	2508.18

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	485.186	ppb	8.2938	1.7	41205.1	97.03718
Al 308.215	4801.35	ppb	63.4339	1.3	28113.2	96.02695
As 188.980	492.766	ppb	8.7271	1.8	439.200	98.55312
B 249.678	487.699	ppb	6.6047	1.4	9344.20	97.53983
Ba 389.178	4882.71	ppb	67.8893	1.4	117265	97.65418
Be 313.042	502.842	ppb	5.8900	1.2	961518	100.56839
Ca 370.602	4989	ppb	69.37	1.4	15345	99.77686
Cd 226.502	495.340	ppb	6.8611	1.4	26912.6	99.06798
Co 228.615	502.974	ppb	7.2357	1.4	6837.53	100.59475
Cr 267.716	5058.30	ppb	68.3574	1.4	289015	101.16591
Cu 324.754	5052.94	ppb	138.056	2.7	331585	101.05877
Fe 271.441	4833.72	ppb	69.9251	1.4	8842.76	96.67439
K 766.491	10152.5	ppb	159.931	1.6	435002	101.52533
Mg 279.078	4989.35	ppb	65.9231	1.3	13829.6	99.78705
Mn 257.610	5067.73	ppb	63.1038	1.2	1289485	101.35456
Mo 202.032	499.458	ppb	7.6019	1.5	4004.60	99.89164
Na 330.237	7013.59	ppb	257.923	3.7	322.633	93.51458
Ni 231.604	2480.75	ppb	34.6511	1.4	9301.14	99.22996
Pb 220.353	495.940	ppb	6.8320	1.4	1007.95	99.18796
Sb 206.834	968.833	ppb	14.6537	1.5	1639.90	96.88335
Se 196.026	5008.58	ppb	67.4317	1.3	3073.82	100.17163
Sn 189.925	5009.98	ppb	32.7676	0.7	5211.06	100.19959
Sr 216.596	2540.24	ppb	33.0216	1.3	38986.4	101.60969
Ti 334.941	481.486	ppb	6.2822	1.3	137876	96.29726
Tl 190.794	5029.61	ppb	70.3393	1.4	7081.03	100.59225
V 292.401	4942.86	ppb	69.8390	1.4	143481	98.85712
Zn 206.200	2524.73	ppb	33.9128	1.3	4116.63	100.98929

Cont Calib Blank (CCB) **9/25/2013, 9:03:58 PM** **Rack 3, Tube 2**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.1740u	0.1133	0.1423
Al 308.215	-1.8828u	-5.2920u	-2.7386u
As 188.980	-1.1788u	-0.3224u	3.1480

Label	Replicates	Concentration	
B 249.678	2.0680	1.9114	1.6774
Ba 389.178	-0.1339u	0.9352	0.3822
Be 313.042	0.0119	0.0027	0.0089
Ca 370.602	-5.180u	-0.2211u	-1.270u
Cd 226.502	-0.0392u	0.1413	0.0922
Co 228.615	-0.3365u	0.4561	0.7199
Cr 267.716	0.1562	0.0762	-0.0087u
Cu 324.754	0.1203	0.0456	-0.0291u
Fe 271.441	-6.2626u	-3.2085u	2.6653
K 766.491	-3.6365u	-4.2509u	-4.2945u
Mg 279.078	-3.4321u	-1.1749u	0.1820
Mn 257.610	-0.1697u	-0.2089u	-0.2099u
Mo 202.032	0.8794	1.1492	0.5446
Na 330.237	-121.869u	84.0468	46.2852
Ni 231.604	1.1998	0.5734	1.3355
Pb 220.353	2.5150	1.4697	1.6137
Sb 206.834	1.3814	3.4350	-2.1411u
Se 196.026	5.2444	-0.0456u	1.8975
Sn 189.925	-1.6998u	-2.5310u	0.4307
Sr 216.596	0.5478	0.3241	0.0261
Ti 334.941	0.1906	0.1658	0.1409
Tl 190.794	0.9995	-0.0192u	-1.4698u
V 292.401	-0.0663u	0.1474	-0.0123u
Zn 206.200	-0.2884u	-1.2336u	0.4799

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.0272	ppb	0.1748	642.8	-7.8555	0.02719
Al 308.215	-3.3045	ppb	1.7737	53.7	-33.8091	-3.30448
As 188.980	0.5490	ppb	2.2912	417.4	-7.3461	0.54895
B 249.678	1.8856	ppb	0.1966	10.4	139.826	1.88558
Ba 389.178	0.3945	ppb	0.5346	135.5	-13.8136	0.39448
Be 313.042	0.0079	ppb	0.0047	59.6	-252.056	0.00788
Ca 370.602	-2.224	ppb	2.613	117.5	4.145	-2.22371
Cd 226.502	0.0647	ppb	0.0933	144.2	10.0436	0.06474
Co 228.615	0.2798	ppb	0.5498	196.5	-0.4592	0.27985
Cr 267.716	0.0746	ppb	0.0824	110.5	22.6591	0.07458
Cu 324.754	0.0456	ppb	0.0747	163.8	130.417	0.04560
Fe 271.441	-2.2686	ppb	4.5376	200.0	8.9623	-2.26857
K 766.491	-4.0606	ppb	0.3679	9.1	233.364	-4.06062
Mg 279.078	-1.4750	ppb	1.8257	123.8	20.5457	-1.47498
Mn 257.610	-0.1962	ppb	0.0229	11.7	38.4016	-0.19618
Mo 202.032	0.8578	ppb	0.3029	35.3	11.2240	0.85775
Na 330.237	2.8209	ppb	109.623	3886.0	40.4656	2.82094
Ni 231.604	1.0362	ppb	0.4065	39.2	-1.4031	1.03621
Pb 220.353	1.8662	ppb	0.5665	30.4	12.7276	1.86615
Sb 206.834	0.8918	ppb	2.8201	316.2	5.1267	0.89176
Se 196.026	2.3654	ppb	2.6758	113.1	-0.5550	2.36540
Sn 189.925	-1.2667	ppb	1.5276	120.6	-12.8416	-1.26670
Sr 216.596	0.2993	ppb	0.2617	87.4	7.4219	0.29931
Ti 334.941	0.1658	ppb	0.0248	15.0	-9.2176	0.16577
Tl 190.794	-0.1632	ppb	1.2409	760.5	-11.5374	-0.16317
V 292.401	0.0229	ppb	0.1111	484.7	-5.8807	0.02293
Zn 206.200	-0.3474	ppb	0.8583	247.1	5.4173	-0.34738

680-94344-a-4-r msd (Samp) **9/25/2013, 9:08:34 PM** **Rack 3, Tube 3**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	111.460	111.743	112.175
Al 308.215	9619.72	9602.38	9597.13
As 188.980	203.835	201.436	201.987
B 249.678	368.084	367.942	368.004
Ba 389.178	198.854	199.205	199.618
Be 313.042	103.655	103.823	104.011
Ca 370.602	10134	10131	10118
Cd 226.502	98.3856	98.3814	98.5321
Co 228.615	100.333	100.577	100.650
Cr 267.716	207.687	207.893	207.959
Cu 324.754	212.351	211.818	213.496
Fe 271.441	9830.82	9827.18	9843.53
K 766.491	9833.44	9823.86	9820.28
Mg 279.078	9717.97	9698.23	9733.95
Mn 257.610	1043.04	1043.62	1043.29
Mo 202.032	203.824	203.922	203.654
Na 330.237	10385.7	10478.2	10699.2
Ni 231.604	200.520	198.314	197.275
Pb 220.353	99.0857	99.5598	95.3740
Sb 206.834	92.7034	91.3171	95.1484
Se 196.026	208.518	207.557	205.350
Sn 189.925	406.418	408.385	409.152
Sr 216.596	198.080	198.361	198.767
Ti 334.941	200.693	200.983	200.363
Tl 190.794	78.7996	77.6712	76.1217
V 292.401	203.033	202.951	203.208
Zn 206.200	227.818	226.108	223.913

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	111.793	ppb	0.3603	0.3	9498.59
Al 308.215	9606.41	ppb	11.8228	0.1	57880.8
As 188.980	202.419	ppb	1.2565	0.6	175.790
B 249.678	368.010	ppb	0.0711	0.0	7060.39
Ba 389.178	199.226	ppb	0.3823	0.2	4803.16
Be 313.042	103.829	ppb	0.1780	0.2	198344
Ca 370.602	10128	ppb	8.413	0.1	30405
Cd 226.502	98.4331	ppb	0.0858	0.1	5390.22
Co 228.615	100.520	ppb	0.1661	0.2	1360.26
Cr 267.716	207.846	ppb	0.1417	0.1	11900.1
Cu 324.754	212.555	ppb	0.8572	0.4	14080.8
Fe 271.441	9833.85	ppb	8.5836	0.1	17753.8
K 766.491	9825.86	ppb	6.8019	0.1	421019
Mg 279.078	9716.72	ppb	17.8913	0.2	27095.6
Mn 257.610	1043.32	ppb	0.2907	0.0	265648
Mo 202.032	203.800	ppb	0.1358	0.1	1639.97
Na 330.237	10521.0	ppb	161.061	1.5	510.916
Ni 231.604	198.703	ppb	1.6568	0.8	740.239
Pb 220.353	98.0065	ppb	2.2921	2.3	206.727
Sb 206.834	93.0563	ppb	1.9399	2.1	154.753
Se 196.026	207.142	ppb	1.6245	0.8	125.497
Sn 189.925	407.985	ppb	1.4103	0.3	413.786
Sr 216.596	198.403	ppb	0.3456	0.2	3057.79

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ti 334.941	200.680	ppb	0.3104	0.2	57468.8
Tl 190.794	77.5308	ppb	1.3444	1.7	96.8596
V 292.401	203.064	ppb	0.1310	0.1	5858.68
Zn 206.200	225.946	ppb	1.9571	0.9	374.952

680-94344-a-13-j (Samp) **9/25/2013, 9:13:10 PM** **Rack 3, Tube 4**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.1953	-0.1767u	-0.0481u
Al 308.215	78.0924	77.5939	81.1307
As 188.980	-0.5170u	1.2238	1.4978
B 249.678	3.8188	3.5019	3.4173
Ba 389.178	2.2874	1.6026	1.3872
Be 313.042	0.0367	0.0286	0.0329
Ca 370.602	1735	1733	1730
Cd 226.502	0.0962	0.0796	0.0901
Co 228.615	0.5255	0.2313	0.1818
Cr 267.716	0.4950	0.6473	0.6860
Cu 324.754	0.4383	0.4121	0.6502
Fe 271.441	28.0111	28.1611	29.3764
K 766.491	18.4508	18.2879	18.7947
Mg 279.078	1903.04	1902.92	1892.77
Mn 257.610	3.7669	3.7173	3.7356
Mo 202.032	1.0036	1.1770	0.9315
Na 330.237	-1887.89u	-1965.27u	-1979.66u
Ni 231.604	1.1324	1.7949	1.2813
Pb 220.353	4.7118	2.5782	2.6291
Sb 206.834	0.6097	-0.3301u	-1.4734u
Se 196.026	-7.6879u	1.1650	-3.3869u
Sn 189.925	19.6505	17.8076	17.2261
Sr 216.596	2.0498	2.0292	1.7299
Ti 334.941	5.3349	5.2796	5.2757
Tl 190.794	-0.4971u	0.7765	-2.9096u
V 292.401	0.0872	0.0125	-0.1217u
Zn 206.200	7177.39	7162.73	7160.86

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0099	ppb	0.1889	1917.8	-11.1087
Al 308.215	78.9390	ppb	1.9144	2.4	462.097
As 188.980	0.7348	ppb	1.0928	148.7	-7.1768
B 249.678	3.5794	ppb	0.2117	5.9	171.872
Ba 389.178	1.7591	ppb	0.4700	26.7	24.1605
Be 313.042	0.0327	ppb	0.0041	12.4	-203.405
Ca 370.602	1733	ppb	2.504	0.1	5316
Cd 226.502	0.0887	ppb	0.0084	9.5	11.5260
Co 228.615	0.3129	ppb	0.1858	59.4	0.1069
Cr 267.716	0.6094	ppb	0.1009	16.6	53.0938
Cu 324.754	0.5002	ppb	0.1306	26.1	160.261
Fe 271.441	28.5162	ppb	0.7487	2.6	64.4554
K 766.491	18.5111	ppb	0.2587	1.4	1199.58
Mg 279.078	1899.58	ppb	5.8978	0.3	5321.37
Mn 257.610	3.7400	ppb	0.0251	0.7	1057.04
Mo 202.032	1.0374	ppb	0.1262	12.1	12.6646

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Na 330.237	-1944.28	ppb	49.3581	2.5	-141.419
Ni 231.604	1.4029	ppb	0.3476	24.8	-0.0167
Pb 220.353	3.3064	ppb	1.2174	36.8	15.6262
Sb 206.834	-0.3979	ppb	1.0432	262.2	3.0532
Se 196.026	-3.3033	ppb	4.4270	134.0	-4.0330
Sn 189.925	18.2280	ppb	1.2657	6.9	7.4809
Sr 216.596	1.9363	ppb	0.1791	9.2	32.8660
Ti 334.941	5.2967	ppb	0.0332	0.6	1469.29
Tl 190.794	-0.8767	ppb	1.8721	213.5	-12.5491
V 292.401	-0.0073	ppb	0.1059	1446.5	-6.7052
Zn 206.200	7166.99	ppb	9.0550	0.1	11732.6

190-2064-b-1-a (Samp) **9/25/2013, 9:17:47 PM** **Rack 3, Tube 5**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	0.0033	0.0288	-0.0775u
Al 308.215	22.5558	21.5479	22.8958
As 188.980	2.0889	-0.1150u	-0.5385u
B 249.678	1.6077	0.8769	1.3238
Ba 389.178	0.2476	0.2633	-0.1116u
Be 313.042	0.0138	0.0151	0.0158
Ca 370.602	100.6	98.32	94.55
Cd 226.502	0.2031	0.2485	0.1764
Co 228.615	-0.1379u	-0.0926u	0.0569
Cr 267.716	0.4507	0.6268	0.5719
Cu 324.754	0.3148	0.2649	0.3825
Fe 271.441	15.1815	11.5601	8.4547
K 766.491	12.7261	13.1355	12.2911
Mg 279.078	23.4367	23.5216	23.2455
Mn 257.610	0.6143	0.6012	0.6239
Mo 202.032	0.0742	0.5979	0.8660
Na 330.237	203.085	93.6824	161.453
Ni 231.604	0.4211	0.8382	0.0680
Pb 220.353	3.9683	2.1930	1.7556
Sb 206.834	1.8662	-3.7153u	0.8788
Se 196.026	-2.1651u	-4.3973u	4.3871
Sn 189.925	19.5469	18.4450	18.8931
Sr 216.596	0.3642	0.2764	0.7727
Ti 334.941	5.4113	5.4398	5.3998
Tl 190.794	-1.8347u	-1.3779u	-1.2230u
V 292.401	0.3162	0.2459	0.1637
Zn 206.200	4.5584	3.6113	4.6226

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0151	ppb	0.0555	366.7	-11.4468
Al 308.215	22.3332	ppb	0.7010	3.1	120.729
As 188.980	0.4784	ppb	1.4107	294.9	-7.4099
B 249.678	1.2695	ppb	0.3684	29.0	128.090
Ba 389.178	0.1331	ppb	0.2121	159.3	-19.9995
Be 313.042	0.0149	ppb	0.0010	6.8	-238.495
Ca 370.602	97.83	ppb	3.065	3.1	312.0
Cd 226.502	0.2093	ppb	0.0365	17.4	17.9642
Co 228.615	-0.0579	ppb	0.1019	176.1	-4.9067

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Cr 267.716	0.5498	ppb	0.0901	16.4	49.8341
Cu 324.754	0.3208	ppb	0.0590	18.4	148.457
Fe 271.441	11.7321	ppb	3.3667	28.7	34.1552
K 766.491	12.7176	ppb	0.4223	3.3	951.581
Mg 279.078	23.4013	ppb	0.1414	0.6	89.8881
Mn 257.610	0.6131	ppb	0.0114	1.9	244.580
Mo 202.032	0.5127	ppb	0.4027	78.5	8.4516
Na 330.237	152.740	ppb	55.2192	36.2	47.1752
Ni 231.604	0.4424	ppb	0.3855	87.1	-3.6296
Pb 220.353	2.6390	ppb	1.1718	44.4	14.2823
Sb 206.834	-0.3234	ppb	2.9787	921.0	3.1843
Se 196.026	-0.7251	ppb	4.5658	629.7	-2.4516
Sn 189.925	18.9617	ppb	0.5541	2.9	8.2452
Sr 216.596	0.4711	ppb	0.2649	56.2	10.1159
Ti 334.941	5.4170	ppb	0.0206	0.4	1494.98
Tl 190.794	-1.4785	ppb	0.3180	21.5	-13.3948
V 292.401	0.2420	ppb	0.0763	31.5	0.6272
Zn 206.200	4.2641	ppb	0.5663	13.3	12.9608

CRI (Samp) **9/25/2013, 9:22:23 PM** **Rack 3, Tube 6**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	10.1329	10.0035	10.2122
Al 308.215	210.359	211.390	212.934
As 188.980	28.7734	20.5569	16.9751
B 249.678	100.055	100.210	101.904
Ba 389.178	10.6328	10.5886	11.2622
Be 313.042	4.2206	4.2234	4.2742
Ca 370.602	523.9	522.9	524.9
Cd 226.502	5.3012	5.1315	5.2643
Co 228.615	10.6138	9.9273	10.4290
Cr 267.716	10.3724	10.6093	10.8906
Cu 324.754	20.9169	20.6987	21.0177
Fe 271.441	54.8201	52.6615	59.9883
K 766.491	1022.60	1022.74	1035.98
Mg 279.078	532.432	532.238	538.290
Mn 257.610	10.7629	10.7818	10.9592
Mo 202.032	10.5561	10.4173	10.9816
Na 330.237	968.058	963.960	905.646
Ni 231.604	42.1228	42.9349	42.8632
Pb 220.353	11.7023	14.5719	11.5116
Sb 206.834	16.9061	17.4233	20.5510
Se 196.026	12.4324	19.3628	26.4617
Sn 189.925	53.1805	51.1421	51.4052
Sr 216.596	10.7431	10.6147	10.6862
Ti 334.941	9.9911	9.9262	10.0835
Tl 190.794	25.6931	24.2213	28.7727
V 292.401	10.0242	9.9300	10.0925
Zn 206.200	20.7508	19.7585	20.5265

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	10.1162	ppb	0.1053	1.0	850.184
Al 308.215	211.561	ppb	1.2959	0.6	1260.15

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	22.1018	ppb	6.0490	27.4	12.2138
B 249.678	100.723	ppb	1.0256	1.0	2014.89
Ba 389.178	10.8278	ppb	0.3768	3.5	238.344
Be 313.042	4.2394	ppb	0.0301	0.7	7841.87
Ca 370.602	523.9	ppb	1.019	0.2	1616
Cd 226.502	5.2323	ppb	0.0892	1.7	290.771
Co 228.615	10.3234	ppb	0.3552	3.4	135.865
Cr 267.716	10.6241	ppb	0.2594	2.4	625.402
Cu 324.754	20.8778	ppb	0.1631	0.8	1497.38
Fe 271.441	55.8233	ppb	3.7650	6.7	115.143
K 766.491	1027.11	ppb	7.6840	0.7	44374.2
Mg 279.078	534.320	ppb	3.4396	0.6	1514.27
Mn 257.610	10.8346	ppb	0.1083	1.0	2849.85
Mo 202.032	10.6517	ppb	0.2941	2.8	89.8492
Na 330.237	945.888	ppb	34.9106	3.7	82.8767
Ni 231.604	42.6403	ppb	0.4496	1.1	154.668
Pb 220.353	12.5953	ppb	1.7144	13.6	34.3096
Sb 206.834	18.2935	ppb	1.9721	10.8	33.2809
Se 196.026	19.4189	ppb	7.0148	36.1	9.9161
Sn 189.925	51.9093	ppb	1.1087	2.1	42.5916
Sr 216.596	10.6813	ppb	0.0643	0.6	165.950
Ti 334.941	10.0003	ppb	0.0790	0.8	2810.04
Tl 190.794	26.2290	ppb	2.3226	8.9	25.7006
V 292.401	10.0156	ppb	0.0816	0.8	282.757
Zn 206.200	20.3453	ppb	0.5204	2.6	39.2327

mb 680-295394/1-a (Samp) **9/25/2013, 9:26:59 PM** **Rack 3, Tube 7**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.1701	-0.2895u	-0.2099u
Al 308.215	-1.5931u	0.8850	-1.7284u
As 188.980	-1.1014u	4.1312	-0.3250u
B 249.678	2.7872	3.1911	2.4522
Ba 389.178	-0.0416u	0.1065	-0.3319u
Be 313.042	0.0027	-0.0030u	0.0090
Ca 370.602	-1.873u	-3.883u	-6.756u
Cd 226.502	0.0892	0.0186	0.0085
Co 228.615	-0.2349u	-0.0009u	-0.5053u
Cr 267.716	0.1664	0.0711	0.1795
Cu 324.754	-0.0177u	-0.1934u	-0.3246u
Fe 271.441	-1.1073u	-0.8109u	-3.6374u
K 766.491	-2.9820u	-2.9593u	-3.6608u
Mg 279.078	1.9936	0.0601	0.0619
Mn 257.610	-0.1139u	-0.1142u	-0.1143u
Mo 202.032	0.2455	0.5700	0.4086
Na 330.237	-4.3749u	-118.111u	-137.123u
Ni 231.604	0.3083	0.3337	-0.0871u
Pb 220.353	2.1571	1.3418	1.9587
Sb 206.834	0.6596	-2.6492u	-1.3807u
Se 196.026	-3.1294u	3.2346	0.0948
Sn 189.925	0.8319	2.9997	-2.4177u
Sr 216.596	0.8362	0.6186	0.4910
Ti 334.941	0.0066	-0.0533u	-0.0083u

Label	Replicates	Concentration	
Tl 190.794	-1.0885u	-0.1688u	-1.0365u
V 292.401	0.6702	0.0411	0.1788
Zn 206.200	0.0596	0.8246	0.9629

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1097	ppb	0.2456	223.8	-19.5179
Al 308.215	-0.8122	ppb	1.4713	181.2	-18.8254
As 188.980	0.9016	ppb	2.8237	313.2	-7.0258
B 249.678	2.8102	ppb	0.3700	13.2	157.371
Ba 389.178	-0.0890	ppb	0.2230	250.6	-25.4210
Be 313.042	0.0029	ppb	0.0060	208.1	-261.536
Ca 370.602	-4.170	ppb	2.454	58.8	-1.795
Cd 226.502	0.0388	ppb	0.0439	113.3	8.6292
Co 228.615	-0.2470	ppb	0.2525	102.2	-7.6054
Cr 267.716	0.1390	ppb	0.0592	42.5	26.3368
Cu 324.754	-0.1786	ppb	0.1540	86.2	115.688
Fe 271.441	-1.8518	ppb	1.5534	83.9	9.6439
K 766.491	-3.2007	ppb	0.3986	12.5	270.175
Mg 279.078	0.7052	ppb	1.1158	158.2	26.6224
Mn 257.610	-0.1141	ppb	0.0002	0.2	59.3005
Mo 202.032	0.4080	ppb	0.1622	39.8	7.6118
Na 330.237	-86.5363	ppb	71.7860	83.0	36.4048
Ni 231.604	0.1850	ppb	0.2359	127.5	-4.5954
Pb 220.353	1.8192	ppb	0.4252	23.4	12.6339
Sb 206.834	-1.1234	ppb	1.6694	148.6	1.8793
Se 196.026	0.0667	ppb	3.1821	4773.7	-1.9659
Sn 189.925	0.4713	ppb	2.7266	578.6	-11.0299
Sr 216.596	0.6486	ppb	0.1746	26.9	12.8083
Ti 334.941	-0.0183	ppb	0.0312	170.2	-61.9311
Tl 190.794	-0.7646	ppb	0.5166	67.6	-12.3869
V 292.401	0.2967	ppb	0.3307	111.5	2.1578
Zn 206.200	0.6157	ppb	0.4865	79.0	6.9928

llcs 680-295394/2-a (Samp) **9/25/2013, 9:31:36 PM** **Rack 3, Tube 8**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	9.6417	9.8319	9.8220
Al 308.215	204.526	206.050	204.560
As 188.980	25.1768	22.9710	25.6031
B 249.678	98.7261	99.3720	98.6257
Ba 389.178	10.8765	10.6308	10.2901
Be 313.042	4.0869	4.0827	4.0597
Ca 370.602	504.3	502.2	499.8
Cd 226.502	5.1206	5.0956	4.9398
Co 228.615	10.1799	10.3047	9.9905
Cr 267.716	10.4379	10.4846	10.4582
Cu 324.754	20.4540	20.2954	20.0087
Fe 271.441	47.5772	52.2908	49.3768
K 766.491	1028.14	1027.69	1024.88
Mg 279.078	524.025	528.794	521.888
Mn 257.610	10.3566	10.3921	10.3003
Mo 202.032	10.2203	9.8561	10.2152
Na 330.237	926.218	871.440	803.719

Label	Replicates Concentration		
Ni 231.604	41.8331	41.5667	41.2179
Pb 220.353	10.6279	11.8294	12.5836
Sb 206.834	19.8800	20.1742	15.8551
Se 196.026	17.4372	19.7416	24.9306
Sn 189.925	46.9064	50.1153	53.9210
Sr 216.596	10.0924	10.0455	10.2583
Ti 334.941	9.8625	9.7854	9.7091
Tl 190.794	27.3507	25.5567	25.3131
V 292.401	9.9952	9.9709	9.8646
Zn 206.200	19.2991	20.1772	19.7134

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	9.7652	ppb	0.1071	1.1	820.348
Al 308.215	205.045	ppb	0.8703	0.4	1220.86
As 188.980	24.5836	ppb	1.4128	5.7	14.4666
B 249.678	98.9079	ppb	0.4050	0.4	1980.47
Ba 389.178	10.5991	ppb	0.2945	2.8	232.813
Be 313.042	4.0764	ppb	0.0147	0.4	7530.17
Ca 370.602	502.1	ppb	2.258	0.4	1550
Cd 226.502	5.0520	ppb	0.0980	1.9	280.964
Co 228.615	10.1584	ppb	0.1582	1.6	133.637
Cr 267.716	10.4603	ppb	0.0234	0.2	616.035
Cu 324.754	20.2527	ppb	0.2257	1.1	1456.35
Fe 271.441	49.7483	ppb	2.3787	4.8	104.169
K 766.491	1026.90	ppb	1.7657	0.2	44365.3
Mg 279.078	524.902	ppb	3.5355	0.7	1488.02
Mn 257.610	10.3497	ppb	0.0463	0.4	2726.37
Mo 202.032	10.0972	ppb	0.2088	2.1	85.3968
Na 330.237	867.126	ppb	61.3631	7.1	79.3173
Ni 231.604	41.5392	ppb	0.3085	0.7	150.537
Pb 220.353	11.6803	ppb	0.9863	8.4	32.4677
Sb 206.834	18.6364	ppb	2.4132	12.9	33.8413
Se 196.026	20.7031	ppb	3.8382	18.5	10.7042
Sn 189.925	50.3142	ppb	3.5115	7.0	40.9288
Sr 216.596	10.1321	ppb	0.1119	1.1	157.549
Ti 334.941	9.7857	ppb	0.0767	0.8	2748.54
Tl 190.794	26.0735	ppb	1.1128	4.3	25.4817
V 292.401	9.9436	ppb	0.0695	0.7	280.766
Zn 206.200	19.7299	ppb	0.4393	2.2	38.2265

lcs 680-295394/4-a (Samp) **9/25/2013, 9:36:12 PM** **Rack 3, Tube 9**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	25.3304	25.0790	25.1999
Al 308.215	2113.56	2111.93	2124.03
As 188.980	45.9057	44.7762	48.8958
B 249.678	85.5349	86.8732	86.9603
Ba 389.178	43.2653	44.7129	44.1199
Be 313.042	22.1499	22.2062	22.2852
Ca 370.602	2145	2142	2154
Cd 226.502	21.9837	22.0937	22.1769
Co 228.615	22.0682	22.3579	22.6625
Cr 267.716	45.5163	44.9962	45.3539

Label	Replicates	Concentration	
Cu 324.754	45.2042	45.2806	45.4143
Fe 271.441	2164.15	2165.43	2172.96
K 766.491	2176.17	2174.78	2172.68
Mg 279.078	2209.50	2218.66	2220.05
Mn 257.610	228.320	228.970	229.515
Mo 202.032	44.1798	43.7003	44.4873
Na 330.237	2252.14	2203.95	2262.72
Ni 231.604	43.6768	44.1699	44.0211
Pb 220.353	22.6461	22.4034	24.4301
Sb 206.834	18.8557	19.4106	19.3101
Se 196.026	40.1615	42.0615	47.3990
Sn 189.925	87.5991	86.1101	85.2990
Sr 216.596	44.1541	44.0948	44.0470
Ti 334.941	42.8851	42.9709	43.0492
Tl 190.794	18.3622	16.9378	16.9758
V 292.401	44.0774	44.3570	44.0839
Zn 206.200	43.7629	45.9740	46.4047

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	25.2031	ppb	0.1257	0.5	2133.53
Al 308.215	2116.51	ppb	6.5674	0.3	12741.6
As 188.980	46.5259	ppb	2.1287	4.6	34.3651
B 249.678	86.4561	ppb	0.7990	0.9	1738.67
Ba 389.178	44.0327	ppb	0.7277	1.7	1043.62
Be 313.042	22.2138	ppb	0.0680	0.3	42224.6
Ca 370.602	2147	ppb	6.089	0.3	6447
Cd 226.502	22.0847	ppb	0.0969	0.4	1214.28
Co 228.615	22.3629	ppb	0.2972	1.3	299.321
Cr 267.716	45.2888	ppb	0.2661	0.6	2607.38
Cu 324.754	45.2997	ppb	0.1064	0.2	3101.17
Fe 271.441	2167.51	ppb	4.7627	0.2	3923.33
K 766.491	2174.54	ppb	1.7580	0.1	93491.8
Mg 279.078	2216.07	ppb	5.7366	0.3	6198.86
Mn 257.610	228.935	ppb	0.5979	0.3	58360.6
Mo 202.032	44.1225	ppb	0.3966	0.9	358.446
Na 330.237	2239.60	ppb	31.3252	1.4	140.511
Ni 231.604	43.9559	ppb	0.2529	0.6	159.631
Pb 220.353	23.1599	ppb	1.1067	4.8	55.6986
Sb 206.834	19.1921	ppb	0.2956	1.5	34.8631
Se 196.026	43.2073	ppb	3.7524	8.7	24.5930
Sn 189.925	86.3361	ppb	1.1666	1.4	78.4806
Sr 216.596	44.0986	ppb	0.0536	0.1	681.859
Ti 334.941	42.9684	ppb	0.0821	0.2	12261.0
Tl 190.794	17.4253	ppb	0.8116	4.7	13.0092
V 292.401	44.1728	ppb	0.1596	0.4	1269.47
Zn 206.200	45.3806	ppb	1.4174	3.1	80.0795

680-94498-e-1-d (Samp) **9/25/2013, 9:40:48 PM** **Rack 3, Tube 10**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	0.3581	0.1800	0.1045
Al 308.215	-1.2294u	-3.2017u	-1.5027u
As 188.980	1.0780	-2.5563u	-1.4125u

Label	Replicates Concentration		
B 249.678	-0.0833u	-0.6756u	-0.6108u
Ba 389.178	0.0231	0.8097	0.5746
Be 313.042	0.0072	0.0083	-0.0015u
Ca 370.602	0.3771	-4.828u	4.128
Cd 226.502	0.1473	0.1680	0.2230
Co 228.615	0.4149	0.3879	0.0248
Cr 267.716	0.1610	0.0155	0.0261
Cu 324.754	-0.3003u	-0.1445u	0.0814
Fe 271.441	-2.2843u	-1.6838u	-0.6190u
K 766.491	-2.2161u	-2.0439u	-3.4268u
Mg 279.078	-0.8392u	0.4654	0.3073
Mn 257.610	-0.1451u	-0.1980u	-0.1382u
Mo 202.032	0.8507	0.1390	0.5867
Na 330.237	116.658	-47.6744u	-124.486u
Ni 231.604	-0.0898u	1.6522	-0.6181u
Pb 220.353	2.5964	-0.9907u	2.4275
Sb 206.834	-0.2503u	-0.4225u	-0.8036u
Se 196.026	0.0479	1.4573	-2.3707u
Sn 189.925	-3.7722u	-1.2258u	-1.0592u
Sr 216.596	0.5095	0.1371	0.1778
Ti 334.941	-0.0246u	0.0309	0.0145
Tl 190.794	-0.6254u	-2.9636u	-2.1676u
V 292.401	0.1666	0.0335	0.1490
Zn 206.200	0.2018	0.2579	1.3085

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.2142	ppb	0.1302	60.8	8.0608
Al 308.215	-1.9779	ppb	1.0686	54.0	-25.8409
As 188.980	-0.9636	ppb	1.8583	192.8	-8.7188
B 249.678	-0.4566	ppb	0.3249	71.2	95.3854
Ba 389.178	0.4691	ppb	0.4038	86.1	-12.0156
Be 313.042	0.0047	ppb	0.0053	114.3	-258.136
Ca 370.602	-0.1079	ppb	4.498	4166.8	10.45
Cd 226.502	0.1794	ppb	0.0391	21.8	16.2754
Co 228.615	0.2759	ppb	0.2179	79.0	-0.5073
Cr 267.716	0.0675	ppb	0.0811	120.2	22.2507
Cu 324.754	-0.1211	ppb	0.1920	158.5	119.467
Fe 271.441	-1.5291	ppb	0.8434	55.2	10.2956
K 766.491	-2.5623	ppb	0.7536	29.4	297.503
Mg 279.078	-0.0222	ppb	0.7120	3214.4	24.5953
Mn 257.610	-0.1605	ppb	0.0327	20.4	47.5115
Mo 202.032	0.5255	ppb	0.3598	68.5	8.5555
Na 330.237	-18.5011	ppb	123.190	665.9	39.4792
Ni 231.604	0.3148	ppb	1.1880	377.4	-4.1098
Pb 220.353	1.3444	ppb	2.0240	150.5	11.6776
Sb 206.834	-0.4921	ppb	0.2831	57.5	2.8949
Se 196.026	-0.2885	ppb	1.9360	671.1	-2.1839
Sn 189.925	-2.0191	ppb	1.5205	75.3	-13.6260
Sr 216.596	0.2748	ppb	0.2043	74.3	7.0721
Ti 334.941	0.0069	ppb	0.0285	412.8	-54.7014
Tl 190.794	-1.9189	ppb	1.1888	62.0	-14.0125
V 292.401	0.1164	ppb	0.0723	62.1	-3.1119
Zn 206.200	0.5894	ppb	0.6234	105.8	6.9502

680-94498-e-1-e ms (Samp) **9/25/2013, 9:45:25 PM** **Rack 3, Tube 11**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	24.8459	25.0382	24.6917
Al 308.215	2093.53	2084.91	2072.15
As 188.980	39.1792	48.4120	43.8135
B 249.678	82.1257	81.6759	82.0590
Ba 389.178	43.3017	43.8767	43.6163
Be 313.042	21.9785	21.8949	21.8631
Ca 370.602	2121	2120	2106
Cd 226.502	21.7438	21.8635	21.7426
Co 228.615	21.4995	21.9175	22.0901
Cr 267.716	44.7560	44.8472	44.5560
Cu 324.754	45.1786	44.1498	44.2876
Fe 271.441	2149.48	2143.84	2137.73
K 766.491	2160.56	2148.36	2131.64
Mg 279.078	2193.72	2184.96	2183.06
Mn 257.610	226.678	225.786	225.480
Mo 202.032	44.4688	43.4412	43.8207
Na 330.237	2324.96	2223.32	2393.75
Ni 231.604	44.3209	43.4017	43.2307
Pb 220.353	23.9601	24.4987	23.3419
Sb 206.834	22.2699	24.1830	17.7841
Se 196.026	46.0966	46.8315	48.2897
Sn 189.925	87.0812	85.3065	81.8440
Sr 216.596	44.0546	43.7493	43.5387
Ti 334.941	42.5513	42.4771	42.2810
Tl 190.794	17.0324	15.0738	18.4311
V 292.401	43.5797	43.4625	43.4843
Zn 206.200	45.3525	44.3901	46.9108

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	24.8586	ppb	0.1736	0.7	2104.23
Al 308.215	2083.53	ppb	10.7531	0.5	12542.9
As 188.980	43.8016	ppb	4.6164	10.5	31.8925
B 249.678	81.9536	ppb	0.2427	0.3	1653.30
Ba 389.178	43.5982	ppb	0.2880	0.7	1033.08
Be 313.042	21.9122	ppb	0.0596	0.3	41647.7
Ca 370.602	2116	ppb	8.648	0.4	6354
Cd 226.502	21.7833	ppb	0.0695	0.3	1197.81
Co 228.615	21.8357	ppb	0.3037	1.4	292.156
Cr 267.716	44.7197	ppb	0.1490	0.3	2574.85
Cu 324.754	44.5387	ppb	0.5584	1.3	3051.24
Fe 271.441	2143.68	ppb	5.8794	0.3	3880.30
K 766.491	2146.86	ppb	14.5193	0.7	92306.8
Mg 279.078	2187.25	ppb	5.6846	0.3	6118.55
Mn 257.610	225.981	ppb	0.6227	0.3	57608.8
Mo 202.032	43.9103	ppb	0.5196	1.2	356.744
Na 330.237	2314.01	ppb	85.7405	3.7	143.899
Ni 231.604	43.6511	ppb	0.5863	1.3	158.488
Pb 220.353	23.9336	ppb	0.5789	2.4	57.2552
Sb 206.834	21.4123	ppb	3.2845	15.3	38.4435
Se 196.026	47.0726	ppb	1.1162	2.4	26.9645
Sn 189.925	84.7439	ppb	2.6635	3.1	76.8208
Sr 216.596	43.7808	ppb	0.2594	0.4	676.956

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ti 334.941	42.4365	ppb	0.1397	0.3	12108.5
Tl 190.794	16.8457	ppb	1.6864	10.0	12.1937
V 292.401	43.5088	ppb	0.0623	0.1	1250.22
Zn 206.200	45.5511	ppb	1.2720	2.8	80.3606

680-94498-e-1-f msd (Samp) **9/25/2013, 9:50:01 PM** **Rack 3, Tube 12**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	25.2167	25.3597	24.9311
Al 308.215	2120.53	2117.37	2106.26
As 188.980	47.0665	45.5303	44.9022
B 249.678	82.9608	83.2688	82.5115
Ba 389.178	43.4341	43.3173	42.7955
Be 313.042	21.9854	22.0088	21.9199
Ca 370.602	2138	2149	2125
Cd 226.502	21.8549	22.2516	21.7584
Co 228.615	22.3076	22.3795	21.9091
Cr 267.716	44.7765	44.9838	44.8818
Cu 324.754	44.9617	44.8465	44.6151
Fe 271.441	2158.52	2166.59	2141.43
K 766.491	2161.04	2169.38	2166.69
Mg 279.078	2201.05	2203.90	2188.01
Mn 257.610	228.176	228.419	226.857
Mo 202.032	43.9794	43.5049	43.1998
Na 330.237	2253.59	2152.40	2048.71
Ni 231.604	44.0424	44.3070	44.8892
Pb 220.353	24.2018	23.0848	23.0365
Sb 206.834	15.1457	20.6567	14.7858
Se 196.026	43.5365	41.0113	46.5539
Sn 189.925	86.1712	83.9525	86.4754
Sr 216.596	44.3330	44.2456	43.5022
Ti 334.941	42.8144	42.8646	42.6724
Tl 190.794	19.2337	16.5475	18.9821
V 292.401	43.7695	44.2438	44.1142
Zn 206.200	45.7213	47.0507	47.1371

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	25.1692	ppb	0.2182	0.9	2130.65
Al 308.215	2114.72	ppb	7.4944	0.4	12730.8
As 188.980	45.8330	ppb	1.1134	2.4	33.7365
B 249.678	82.9137	ppb	0.3808	0.5	1671.51
Ba 389.178	43.1823	ppb	0.3400	0.8	1023.14
Be 313.042	21.9714	ppb	0.0461	0.2	41761.0
Ca 370.602	2137	ppb	12.06	0.6	6419
Cd 226.502	21.9550	ppb	0.2614	1.2	1207.16
Co 228.615	22.1987	ppb	0.2534	1.1	297.101
Cr 267.716	44.8807	ppb	0.1036	0.2	2584.05
Cu 324.754	44.8078	ppb	0.1765	0.4	3068.87
Fe 271.441	2155.52	ppb	12.8450	0.6	3901.68
K 766.491	2165.70	ppb	4.2570	0.2	93113.5
Mg 279.078	2197.65	ppb	8.4687	0.4	6147.54
Mn 257.610	227.817	ppb	0.8403	0.4	58076.2
Mo 202.032	43.5614	ppb	0.3929	0.9	353.941

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Na 330.237	2151.57	ppb	102.443	4.8	136.521
Ni 231.604	44.4129	ppb	0.4332	1.0	161.346
Pb 220.353	23.4410	ppb	0.6593	2.8	56.2645
Sb 206.834	16.8627	ppb	3.2906	19.5	31.1006
Se 196.026	43.7006	ppb	2.7750	6.3	24.8952
Sn 189.925	85.5330	ppb	1.3772	1.6	77.6433
Sr 216.596	44.0269	ppb	0.4565	1.0	680.746
Ti 334.941	42.7838	ppb	0.0997	0.2	12208.0
Tl 190.794	18.2544	ppb	1.4836	8.1	14.1806
V 292.401	44.0425	ppb	0.2451	0.6	1265.81
Zn 206.200	46.6364	ppb	0.7937	1.7	82.1356

Cont Calib Verif (CCV) **9/25/2013, 9:54:37 PM** **Rack 3, Tube 13**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	494.821	493.571	492.143
Al 308.215	4874.55	4898.79	4890.18
As 188.980	498.636	488.464	496.479
B 249.678	496.542	499.467	497.274
Ba 389.178	4952.63	4966.20	4943.16
Be 313.042	514.838	512.716	509.384
Ca 370.602	5017	5067	5048
Cd 226.502	505.513	506.119	503.112
Co 228.615	512.169	514.125	510.922
Cr 267.716	5163.09	5155.79	5126.71
Cu 324.754	5154.83	5159.92	5148.70
Fe 271.441	4914.67	4933.60	4901.19
K 766.491	10347.9	10332.7	10253.3
Mg 279.078	5112.27	5099.84	5082.13
Mn 257.610	5135.16	5174.56	5122.44
Mo 202.032	511.484	511.618	510.241
Na 330.237	7579.03	7376.51	7085.57
Ni 231.604	2534.91	2531.57	2523.89
Pb 220.353	505.223	509.661	502.837
Sb 206.834	985.093	982.721	987.477
Se 196.026	5134.25	5119.32	5137.77
Sn 189.925	5114.01	5105.01	5058.87
Sr 216.596	2584.33	2587.78	2573.41
Ti 334.941	486.953	489.142	487.669
Tl 190.794	5126.49	5122.19	5104.52
V 292.401	5033.67	5039.92	5016.05
Zn 206.200	2570.35	2565.26	2561.71

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	493.511	ppb	1.3399	0.3	41912.0	98.70229
Al 308.215	4887.84	ppb	12.2922	0.3	28620.4	97.75681
As 188.980	494.526	ppb	5.3597	1.1	440.793	98.90530
B 249.678	497.761	ppb	1.5217	0.3	9534.88	99.55222
Ba 389.178	4953.99	ppb	11.5811	0.2	118977	99.07984
Be 313.042	512.313	ppb	2.7490	0.5	979632	102.46254
Ca 370.602	5044	ppb	25.32	0.5	15515	100.87997
Cd 226.502	504.915	ppb	1.5902	0.3	27432.6	100.98293
Co 228.615	512.405	ppb	1.6146	0.3	6965.68	102.48098

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Cr 267.716	5148.53	ppb	19.2472	0.4	294170	102.97063
Cu 324.754	5154.48	ppb	5.6165	0.1	338246	103.08964
Fe 271.441	4916.49	ppb	16.2814	0.3	8994.09	98.32977
K 766.491	10311.3	ppb	50.7909	0.5	441799	103.11321
Mg 279.078	5098.08	ppb	15.1437	0.3	14130.9	101.96163
Mn 257.610	5144.05	ppb	27.1718	0.5	1308905	102.88104
Mo 202.032	511.114	ppb	0.7596	0.1	4098.02	102.22285
Na 330.237	7347.04	ppb	248.046	3.4	337.122	97.96051
Ni 231.604	2530.12	ppb	5.6481	0.2	9486.37	101.20487
Pb 220.353	505.907	ppb	3.4631	0.7	1028.02	101.18135
Sb 206.834	985.097	ppb	2.3780	0.2	1667.36	98.50970
Se 196.026	5130.45	ppb	9.7955	0.2	3148.65	102.60896
Sn 189.925	5092.63	ppb	29.5797	0.6	5297.22	101.85260
Sr 216.596	2581.84	ppb	7.5028	0.3	39624.4	103.27350
Ti 334.941	487.921	ppb	1.1162	0.2	139720	97.58426
Tl 190.794	5117.73	ppb	11.6418	0.2	7205.29	102.35469
V 292.401	5029.88	ppb	12.3767	0.2	146007	100.59760
Zn 206.200	2565.77	ppb	4.3433	0.2	4183.43	102.63097

Cont Calib Blank (CCB) **9/25/2013, 9:59:13 PM** **Rack 3, Tube 14**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.4859	0.1593	-0.0941u
Al 308.215	-4.1893u	-2.3385u	-3.5959u
As 188.980	1.7860	2.8565	4.1530
B 249.678	1.6085	1.0758	1.1717
Ba 389.178	0.1946	0.5787	-0.3405u
Be 313.042	0.0139	0.0138	0.0107
Ca 370.602	-3.867u	-4.306u	4.511
Cd 226.502	0.0192	0.0129	0.0434
Co 228.615	0.1830	0.0300	-0.3342u
Cr 267.716	0.0720	0.3874	-0.1484u
Cu 324.754	0.1108	-0.1288u	-0.2267u
Fe 271.441	0.4748	-3.3351u	-1.6121u
K 766.491	-3.4384u	-3.8911u	-4.0205u
Mg 279.078	1.8971	-1.0330u	1.5687
Mn 257.610	-0.1350u	-0.1464u	-0.1591u
Mo 202.032	1.0207	0.7690	0.8916
Na 330.237	-89.9440u	-309.721u	3.3184
Ni 231.604	0.4123	0.6446	1.6377
Pb 220.353	1.2521	3.9619	1.4264
Sb 206.834	0.9226	-0.8135u	3.2393
Se 196.026	5.1823	-1.4440u	10.5886
Sn 189.925	1.3587	-3.2567u	1.5016
Sr 216.596	0.0961	0.1902	0.4444
Ti 334.941	0.1010	0.1070	0.0437
Tl 190.794	1.5460	2.7685	2.4789
V 292.401	-0.0049u	0.1422	0.2313
Zn 206.200	0.1908	1.2922	-0.2034u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.1837	ppb	0.2908	158.3	5.4574	0.18371
Al 308.215	-3.3746	ppb	0.9450	28.0	34.2283	-3.37456

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
As 188.980	2.9318	ppb	1.1853	40.4	-5.1834	2.93185
B 249.678	1.2853	ppb	0.2840	22.1	128.436	1.28530
Ba 389.178	0.1443	ppb	0.4617	320.0	-19.8168	0.14428
Be 313.042	0.0128	ppb	0.0018	13.9	-242.659	0.01279
Ca 370.602	-1.221	ppb	4.969	407.0	7.162	-1.22075
Cd 226.502	0.0252	ppb	0.0161	63.9	7.8969	0.02515
Co 228.615	-0.0404	ppb	0.2657	657.7	-4.8132	-0.04040
Cr 267.716	0.1037	ppb	0.2693	259.8	24.3166	0.10365
Cu 324.754	-0.0816	ppb	0.1736	212.9	122.075	-0.08157
Fe 271.441	-1.4908	ppb	1.9079	128.0	10.3200	-1.49082
K 766.491	-3.7833	ppb	0.3056	8.1	245.234	-3.78333
Mg 279.078	0.8109	ppb	1.6053	198.0	26.9183	0.81094
Mn 257.610	-0.1468	ppb	0.0121	8.2	50.9713	-0.14684
Mo 202.032	0.8938	ppb	0.1259	14.1	11.5131	0.89377
Na 330.237	-132.115	ppb	160.724	121.7	34.3365	-132.11540
Ni 231.604	0.8982	ppb	0.6508	72.5	-1.9199	0.89820
Pb 220.353	2.2135	ppb	1.5167	68.5	13.4270	2.21346
Sb 206.834	1.1161	ppb	2.0333	182.2	5.4886	1.11614
Se 196.026	4.7756	ppb	6.0266	126.2	0.9245	4.77563
Sn 189.925	-0.1321	ppb	2.7069	2048.6	-11.6590	-0.13213
Sr 216.596	0.2436	ppb	0.1802	74.0	6.5603	0.24356
Ti 334.941	0.0839	ppb	0.0349	41.6	-32.6527	0.08387
Tl 190.794	2.2645	ppb	0.6388	28.2	-8.1162	2.26448
V 292.401	0.1228	ppb	0.1193	97.1	-2.9866	0.12283
Zn 206.200	0.4265	ppb	0.7752	181.7	6.6835	0.42651

680-94492-a-1-b (Samp) **9/25/2013, 10:03:50 PM** **Rack 3, Tube 15**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.0286u	-0.0505u	0.1133u
Al 308.215	0.8799	-0.0239u	-1.0171u
As 188.980	0.0057	2.3022	1.2018
B 249.678	31.1828	30.8175	30.5203
Ba 389.178	39.6882	39.6433	38.5198
Be 313.042	-0.0027	0.0017	-0.0011
Ca 370.602	47014	46718	46897
Cd 226.502	-0.0606u	0.2037	0.0956
Co 228.615	-0.3079u	0.0742	-0.2019u
Cr 267.716	0.2065	0.4016	0.2549
Cu 324.754	0.2803	-0.0418u	0.1135
Fe 271.441	12.7641	20.2347	18.4244
K 766.491	2032.13	2012.19	2020.41
Mg 279.078	27335.9	26831.1	27171.4
Mn 257.610	-0.8280	-0.8098	-0.7174
Mo 202.032	0.1415	0.6306	0.4807
Na 330.237	18080.5	18088.8	18057.6
Ni 231.604	2.9196	1.9149	2.4055
Pb 220.353	1.0739	2.4054	3.8538
Sb 206.834	0.9237	-4.2921u	-0.6624u
Se 196.026	2.9628	-4.0255u	-1.1091u
Sn 189.925	-1.4011u	-1.4275u	0.3530
Sr 216.596	461.185	454.774	458.012
Ti 334.941	-0.2409	-0.2550	-0.2147

Label	Replicates	Concentration	
Tl 190.794	-1.0413u	-1.2522u	0.6373
V 292.401	0.1515	0.1552	0.1132
Zn 206.200	1.0646	0.4066	2.3514

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0305	ppb	0.0819	268.8	-31.3535
Al 308.215	-0.0537	ppb	0.9488	1766.7	-14.2336
As 188.980	1.1699	ppb	1.1485	98.2	-6.7826
B 249.678	30.8402	ppb	0.3318	1.1	689.131
Ba 389.178	39.2838	ppb	0.6620	1.7	993.777
Be 313.042	-0.0007	ppb	0.0022	312.3	-254.748
Ca 370.602	46876	ppb	149.0	0.3	143547
Cd 226.502	0.0796	ppb	0.1328	167.0	11.2913
Co 228.615	-0.1452	ppb	0.1973	135.9	-6.2162
Cr 267.716	0.2877	ppb	0.1016	35.3	35.1926
Cu 324.754	0.1173	ppb	0.1610	137.2	135.114
Fe 271.441	17.1411	ppb	3.8971	22.7	43.8909
K 766.491	2021.57	ppb	10.0197	0.5	86943.9
Mg 279.078	27112.8	ppb	257.451	0.9	75626.7
Mn 257.610	-0.7851	ppb	0.0593	7.6	133.153
Mo 202.032	0.4176	ppb	0.2506	60.0	7.6880
Na 330.237	18075.6	ppb	16.1580	0.1	859.371
Ni 231.604	2.4133	ppb	0.5024	20.8	3.7656
Pb 220.353	2.4444	ppb	1.3903	56.9	13.8944
Sb 206.834	-1.3436	ppb	2.6738	199.0	1.5242
Se 196.026	-0.7239	ppb	3.5100	484.9	-2.4510
Sn 189.925	-0.8252	ppb	1.0205	123.7	-12.3489
Sr 216.596	457.991	ppb	3.2056	0.7	7049.48
Ti 334.941	-0.2369	ppb	0.0204	8.6	-0.3292
Tl 190.794	-0.5521	ppb	1.0354	187.6	-12.0890
V 292.401	0.1400	ppb	0.0232	16.6	-2.2078
Zn 206.200	1.2742	ppb	0.9892	77.6	8.0699

680-94492-a-1-bSD^5 (Samp) **9/25/2013, 10:08:26 PM** **Rack 3, Tube 16**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	0.2360	0.2984	-0.1443u
Al 308.215	0.1457	-1.0688u	-0.0991u
As 188.980	-2.0412u	5.5220	-0.3814u
B 249.678	5.5440	6.1638	5.8593
Ba 389.178	6.9819	7.4857	7.4207
Be 313.042	0.0037	0.0025	0.0036
Ca 370.602	8575	8726	8634
Cd 226.502	0.1958	0.1008	0.0393
Co 228.615	0.2264	-0.0464u	-0.1314u
Cr 267.716	0.2308	0.1404	-0.0387u
Cu 324.754	0.1344	-0.1038u	-0.1039u
Fe 271.441	-0.8293u	4.4695	0.7042
K 766.491	355.791	362.260	356.516
Mg 279.078	4955.52	5060.03	4981.04
Mn 257.610	-0.3090u	-0.3375u	-0.3452u
Mo 202.032	0.3223	0.2402	0.5535
Na 330.237	3152.21	2964.37	3172.45

Label	Replicates	Concentration	
Ni 231.604	1.7156	1.3607	0.7209
Pb 220.353	2.3612	1.8409	0.5222
Sb 206.834	-2.5978u	-1.1397u	1.6721
Se 196.026	2.2021	0.8272	6.7159
Sn 189.925	-0.8884u	-1.5972u	-2.0287u
Sr 216.596	85.4160	86.8297	85.1606
Ti 334.941	-0.0426	0.0047	-0.0322
Tl 190.794	-2.1381u	-0.5961u	1.9071
V 292.401	-0.0833u	0.2311	0.2324
Zn 206.200	1.6127	0.4627	0.8820

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1300	ppb	0.2396	184.3	-3.5626
Al 308.215	-0.3407	ppb	0.6423	188.5	-15.9719
As 188.980	1.0331	ppb	3.9751	384.8	-6.9065
B 249.678	5.8557	ppb	0.3099	5.3	215.138
Ba 389.178	7.2961	ppb	0.2741	3.8	165.519
Be 313.042	0.0033	ppb	0.0007	21.5	-258.223
Ca 370.602	8645	ppb	75.74	0.9	26482
Cd 226.502	0.1120	ppb	0.0789	70.4	12.6969
Co 228.615	0.0162	ppb	0.1869	1154.2	-4.0247
Cr 267.716	0.1108	ppb	0.1371	123.7	24.7898
Cu 324.754	-0.0244	ppb	0.1376	563.2	125.804
Fe 271.441	1.4481	ppb	2.7266	188.3	15.6254
K 766.491	358.189	ppb	3.5441	1.0	15740.0
Mg 279.078	4998.86	ppb	54.4846	1.1	13963.6
Mn 257.610	-0.3306	ppb	0.0191	5.8	49.3366
Mo 202.032	0.3720	ppb	0.1625	43.7	7.3228
Na 330.237	3096.34	ppb	114.735	3.7	180.623
Ni 231.604	1.2657	ppb	0.5041	39.8	-0.5410
Pb 220.353	1.5748	ppb	0.9479	60.2	12.1422
Sb 206.834	-0.6885	ppb	2.1704	315.3	2.5831
Se 196.026	3.2484	ppb	3.0806	94.8	-0.0129
Sn 189.925	-1.5048	ppb	0.5758	38.3	-13.0839
Sr 216.596	85.8021	ppb	0.8991	1.0	1322.98
Ti 334.941	-0.0234	ppb	0.0249	106.6	-40.4518
Tl 190.794	-0.2757	ppb	2.0415	740.5	-11.6972
V 292.401	0.1267	ppb	0.1819	143.5	-2.7302
Zn 206.200	0.9858	ppb	0.5820	59.0	7.5986

680-94492-a-1-bPDS (Samp) **9/25/2013, 10:13:02 PM** **Rack 3, Tube 17**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	34.9119	34.6176	35.0185
Al 308.215	1899.75	1905.00	1893.93
As 188.980	196.932	194.568	197.021
B 249.678	492.142	493.528	492.602
Ba 389.178	231.998	231.091	232.139
Be 313.042	48.6985	48.7397	48.8610
Ca 370.602	48103	48230	47985
Cd 226.502	48.2283	48.2632	48.3220
Co 228.615	193.910	191.616	193.244
Cr 267.716	194.751	195.029	195.469

Label	Replicates Concentration		
Cu 324.754	197.285	199.003	200.325
Fe 271.441	1910.99	1915.34	1919.51
K 766.491	4126.52	4126.11	4134.35
Mg 279.078	28604.2	28667.1	28681.5
Mn 257.610	199.350	199.542	199.299
Mo 202.032	192.158	192.011	193.601
Na 330.237	20074.7	20060.7	19871.9
Ni 231.604	192.783	191.859	192.088
Pb 220.353	188.070	193.942	192.687
Sb 206.834	182.034	183.393	181.290
Se 196.026	196.923	196.666	189.062
Sn 189.925	192.828	192.831	190.147
Sr 216.596	639.562	641.142	638.203
Ti 334.941	190.192	190.736	190.619
Tl 190.794	187.263	186.640	189.241
V 292.401	192.802	193.056	193.078
Zn 206.200	202.629	204.317	201.355

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	34.8493	ppb	0.2077	0.6	2924.40
Al 308.215	1899.56	ppb	5.5400	0.3	11409.3
As 188.980	196.174	ppb	1.3913	0.7	170.130
B 249.678	492.757	ppb	0.7056	0.1	9447.96
Ba 389.178	231.742	ppb	0.5688	0.2	5623.88
Be 313.042	48.7664	ppb	0.0845	0.2	93010.3
Ca 370.602	48106	ppb	122.8	0.3	147272
Cd 226.502	48.2712	ppb	0.0474	0.1	2634.96
Co 228.615	192.923	ppb	1.1802	0.6	2614.93
Cr 267.716	195.083	ppb	0.3622	0.2	11165.1
Cu 324.754	198.871	ppb	1.5240	0.8	13179.7
Fe 271.441	1915.28	ppb	4.2580	0.2	3493.52
K 766.491	4128.99	ppb	4.6418	0.1	177155
Mg 279.078	28650.9	ppb	41.0822	0.1	79911.0
Mn 257.610	199.397	ppb	0.1281	0.1	51083.2
Mo 202.032	192.590	ppb	0.8786	0.5	1550.41
Na 330.237	20002.4	ppb	113.255	0.6	942.949
Ni 231.604	192.243	ppb	0.4816	0.3	715.489
Pb 220.353	191.566	ppb	3.0920	1.6	394.389
Sb 206.834	182.239	ppb	1.0667	0.6	297.910
Se 196.026	194.217	ppb	4.4662	2.3	117.273
Sn 189.925	191.936	ppb	1.5489	0.8	188.593
Sr 216.596	639.636	ppb	1.4706	0.2	9836.01
Ti 334.941	190.516	ppb	0.2859	0.2	54643.3
Tl 190.794	187.715	ppb	1.3581	0.7	253.844
V 292.401	192.979	ppb	0.1531	0.1	5568.01
Zn 206.200	202.767	ppb	1.4861	0.7	336.988

mb 680-295413/1-a (Samp) **9/25/2013, 10:17:38 PM** **Rack 3, Tube 18**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.1304u	-0.1966u	0.0906
Al 308.215	0.2857	-0.5732u	1.6526
As 188.980	-1.7208u	-1.1574u	-0.3576u

Label	Replicates Concentration		
B 249.678	3.8996	3.9009	3.6605
Ba 389.178	-0.3155u	0.0397	0.8601
Be 313.042	0.0029	0.0050	0.0018
Ca 370.602	-1.988u	-3.391u	-0.9838u
Cd 226.502	0.0276	0.0433	0.0333
Co 228.615	0.1201	0.1481	0.0883
Cr 267.716	0.1768	0.0529	-0.0294u
Cu 324.754	-0.4331u	-0.3661u	-0.0249u
Fe 271.441	2.8038	-1.1528u	-0.2828u
K 766.491	-3.5668u	-3.0840u	-3.4281u
Mg 279.078	1.2306	-2.1414u	1.9951
Mn 257.610	-0.2080u	-0.2218u	-0.2073u
Mo 202.032	1.0199	1.3407	0.3881
Na 330.237	-35.7556u	-29.7897u	-247.307u
Ni 231.604	0.9782	0.7146	1.3719
Pb 220.353	0.0379	0.7557	1.3928
Sb 206.834	1.3667	0.1940	3.4029
Se 196.026	-3.8363u	-1.8844u	2.0480
Sn 189.925	-0.4332u	0.7736	0.1691
Sr 216.596	0.7439	0.5172	-0.0662u
Ti 334.941	0.0541	0.0397	0.0514
Tl 190.794	0.5696	-0.6295u	-0.9240u
V 292.401	0.1190	0.2261	-0.0272u
Zn 206.200	0.4241	-0.6651u	0.1865

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0788	ppb	0.1504	190.8	-16.8839
Al 308.215	0.4550	ppb	1.1226	246.7	-11.1422
As 188.980	-1.0786	ppb	0.6850	63.5	-8.8233
B 249.678	3.8203	ppb	0.1384	3.6	176.526
Ba 389.178	0.1948	ppb	0.6029	309.6	-18.6014
Be 313.042	0.0032	ppb	0.0016	50.2	-260.992
Ca 370.602	-2.121	ppb	1.209	57.0	4.199
Cd 226.502	0.0347	ppb	0.0080	23.0	8.4259
Co 228.615	0.1188	ppb	0.0299	25.2	-2.6519
Cr 267.716	0.0667	ppb	0.1038	155.6	22.2096
Cu 324.754	-0.2747	ppb	0.2189	79.7	109.405
Fe 271.441	0.4561	ppb	2.0792	455.9	13.8523
K 766.491	-3.3596	ppb	0.2485	7.4	263.372
Mg 279.078	0.3614	ppb	2.2009	608.9	25.6656
Mn 257.610	-0.2124	ppb	0.0081	3.8	34.3060
Mo 202.032	0.9162	ppb	0.4847	52.9	11.6934
Na 330.237	-104.284	ppb	123.897	118.8	35.6001
Ni 231.604	1.0215	ppb	0.3308	32.4	-1.4576
Pb 220.353	0.7288	ppb	0.6778	93.0	10.4375
Sb 206.834	1.6546	ppb	1.6237	98.1	6.3579
Se 196.026	-1.2242	ppb	2.9972	244.8	-2.7583
Sn 189.925	0.1699	ppb	0.6034	355.2	-11.3441
Sr 216.596	0.3983	ppb	0.4179	104.9	8.9506
Ti 334.941	0.0484	ppb	0.0077	15.9	-42.8252
Tl 190.794	-0.3279	ppb	0.7911	241.2	-11.7705
V 292.401	0.1060	ppb	0.1271	120.0	-3.4791
Zn 206.200	-0.0182	ppb	0.5727	3155.4	5.9561

lcs 680-295413/2-a (Samp) **9/25/2013, 10:22:15 PM** **Rack 3, Tube 19**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	57.8143	57.6348	58.1629
Al 308.215	4921.93	4906.74	4920.90
As 188.980	109.361	102.865	103.860
B 249.678	196.714	197.206	197.221
Ba 389.178	101.338	100.515	100.870
Be 313.042	51.6054	51.4706	51.5200
Ca 370.602	4975	4943	4969
Cd 226.502	50.6683	50.5442	50.7556
Co 228.615	51.1001	51.2858	52.1981
Cr 267.716	104.899	104.242	104.652
Cu 324.754	105.185	104.841	102.861
Fe 271.441	4985.32	4969.53	4976.01
K 766.491	5079.82	5046.91	5046.46
Mg 279.078	5089.63	5073.80	5081.36
Mn 257.610	526.750	525.566	526.967
Mo 202.032	102.789	101.721	103.490
Na 330.237	5106.41	5106.47	4872.74
Ni 231.604	102.461	101.238	101.821
Pb 220.353	51.6158	50.5557	52.6955
Sb 206.834	47.9207	45.3753	48.5850
Se 196.026	108.100	107.452	97.9450
Sn 189.925	197.387	206.581	202.425
Sr 216.596	101.862	101.115	102.408
Ti 334.941	99.7794	99.2122	99.4669
Tl 190.794	37.8115	37.2530	36.5828
V 292.401	101.812	101.554	101.701
Zn 206.200	102.837	103.565	104.195

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	57.8707	ppb	0.2685	0.5	4912.10
Al 308.215	4916.52	ppb	8.4863	0.2	29616.7
As 188.980	105.362	ppb	3.4987	3.3	87.7419
B 249.678	197.047	ppb	0.2885	0.1	3829.50
Ba 389.178	100.908	ppb	0.4125	0.4	2421.74
Be 313.042	51.5320	ppb	0.0682	0.1	98306.1
Ca 370.602	4962	ppb	17.15	0.3	14892
Cd 226.502	50.6561	ppb	0.1062	0.2	2776.78
Co 228.615	51.5280	ppb	0.5877	1.1	695.189
Cr 267.716	104.598	ppb	0.3314	0.3	5997.83
Cu 324.754	104.296	ppb	1.2541	1.2	6974.12
Fe 271.441	4976.95	ppb	7.9361	0.2	8991.75
K 766.491	5057.73	ppb	19.1341	0.4	216911
Mg 279.078	5081.60	ppb	7.9170	0.2	14182.5
Mn 257.610	526.428	ppb	0.7544	0.1	134083
Mo 202.032	102.667	ppb	0.8909	0.9	828.306
Na 330.237	5028.54	ppb	134.927	2.7	265.212
Ni 231.604	101.840	ppb	0.6116	0.6	376.809
Pb 220.353	51.6224	ppb	1.0699	2.1	113.127
Sb 206.834	47.2937	ppb	1.6943	3.6	80.4537
Se 196.026	104.499	ppb	5.6854	5.4	62.3168
Sn 189.925	202.131	ppb	4.6039	2.3	199.192
Sr 216.596	101.795	ppb	0.6491	0.6	1570.19

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ti 334.941	99.4861	ppb	0.2841	0.3	28462.6
Tl 190.794	37.2158	ppb	0.6152	1.7	40.5867
V 292.401	101.689	ppb	0.1294	0.1	2930.52
Zn 206.200	103.532	ppb	0.6797	0.7	175.020

640-45126-k-2-e (Samp) **9/25/2013, 10:26:51 PM** **Rack 3, Tube 20**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.1496	0.1738	-0.5888u
Al 308.215	622.287	616.957	610.122
As 188.980	2.5606	-2.4603u	4.3619
B 249.678	67.8751	68.7766	67.2699
Ba 389.178	2.9598	3.3158	4.0167
Be 313.042	0.0171	0.0079	0.0107
Ca 370.602	8040	8048	7866
Cd 226.502	0.1742	0.0824	0.0747
Co 228.615	0.0713	-0.0122	-0.3156u
Cr 267.716	1.7011	1.6607	1.4758
Cu 324.754	0.8097	1.0120	1.0789
Fe 271.441	149.528	150.400	149.088
K 766.491	4967.41	4994.11	4884.94
Mg 279.078	3531.64	3536.16	3451.87
Mn 257.610	6.9291	6.8672	6.7117
Mo 202.032	1.0325	1.2830	1.4114
Na 330.237	17536.6	17772.2	17367.9
Ni 231.604	2.9424	1.1096	1.5511
Pb 220.353	2.6321	2.1248	1.1688
Sb 206.834	0.0904	3.4070	1.3150
Se 196.026	4.6490	-0.8447u	3.4504
Sn 189.925	1.7018	-1.5857u	0.5055
Sr 216.596	33.1895	33.5264	32.5244
Ti 334.941	19.1527	18.7971	19.3076
Tl 190.794	0.1387	-0.4246u	-1.7286u
V 292.401	4.8213	5.1466	4.9892
Zn 206.200	1.6120	2.1991	1.6375

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0885	ppb	0.4334	489.9	-19.3608
Al 308.215	616.455	ppb	6.0981	1.0	3702.26
As 188.980	1.4874	ppb	3.5355	237.7	-6.4880
B 249.678	67.9738	ppb	0.7582	1.1	1393.32
Ba 389.178	3.4308	ppb	0.5378	15.7	68.8776
Be 313.042	0.0119	ppb	0.0047	39.6	-243.967
Ca 370.602	7985	ppb	102.9	1.3	24459
Cd 226.502	0.1104	ppb	0.0554	50.2	13.0803
Co 228.615	-0.0855	ppb	0.2036	238.2	-4.9189
Cr 267.716	1.6125	ppb	0.1201	7.5	110.949
Cu 324.754	0.9669	ppb	0.1402	14.5	190.865
Fe 271.441	149.672	ppb	0.6679	0.4	282.821
K 766.491	4948.82	ppb	56.9085	1.1	212249
Mg 279.078	3506.56	ppb	47.4155	1.4	9802.07
Mn 257.610	6.8360	ppb	0.1120	1.6	1859.61
Mo 202.032	1.2423	ppb	0.1927	15.4	14.2936

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Na 330.237	17558.9	ppb	203.054	1.2	835.849
Ni 231.604	1.8677	ppb	0.9566	51.2	1.7224
Pb 220.353	1.9752	ppb	0.7430	37.6	12.9357
Sb 206.834	1.6041	ppb	1.6771	104.5	6.2969
Se 196.026	2.4182	ppb	2.8886	119.5	-0.5197
Sn 189.925	0.2072	ppb	1.6639	803.1	-11.2937
Sr 216.596	33.0801	ppb	0.5099	1.5	512.640
Ti 334.941	19.0858	ppb	0.2617	1.4	5424.98
Tl 190.794	-0.6715	ppb	0.9578	142.6	-12.2703
V 292.401	4.9857	ppb	0.1627	3.3	138.613
Zn 206.200	1.8162	ppb	0.3319	18.3	8.9529

640-45126-k-3-c (Samp) **9/25/2013, 10:31:27 PM** **Rack 3, Tube 21**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	0.0625u	0.1065	0.2117
Al 308.215	135.632	134.249	132.497
As 188.980	4.3923	5.8592	5.5200
B 249.678	139.935	136.317	136.493
Ba 389.178	1.9040	1.2330	1.3282
Be 313.042	-0.0001	0.0003	0.0042
Ca 370.602	37305	36657	36672
Cd 226.502	0.0626	-0.0115	0.0346
Co 228.615	0.4659	0.8602	0.8256
Cr 267.716	1.2065	1.0714	1.2190
Cu 324.754	0.0465	0.1895	0.0459
Fe 271.441	2312.45	2268.13	2265.09
K 766.491	6382.86	6220.06	6239.76
Mg 279.078	12750.3	12446.3	12462.6
Mn 257.610	97.2131	95.1760	95.3635
Mo 202.032	1.3278	1.1880	0.9861
Na 330.237	20654.6	20332.4	20220.9
Ni 231.604	2.9388	2.6329	2.3216
Pb 220.353	2.2560	2.4668	3.7368
Sb 206.834	-0.4890u	-0.6493u	-0.2676u
Se 196.026	0.4922	3.9828	3.4996
Sn 189.925	1.1112	-1.4794u	-0.9376u
Sr 216.596	131.182	127.617	127.910
Ti 334.941	0.8801	0.8699	0.8668
Tl 190.794	-1.1770u	-1.8506u	-2.1244u
V 292.401	2.2223	1.9205	1.9480
Zn 206.200	2.7825	2.8055	4.3700

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1269	ppb	0.0766	60.4	-5.7256
Al 308.215	134.126	ppb	1.5711	1.2	794.491
As 188.980	5.2572	ppb	0.7679	14.6	-3.1036
B 249.678	137.582	ppb	2.0400	1.5	2708.39
Ba 389.178	1.4884	ppb	0.3631	24.4	49.9544
Be 313.042	0.0015	ppb	0.0024	162.6	-254.278
Ca 370.602	36878	ppb	369.6	1.0	112762
Cd 226.502	0.0286	ppb	0.0374	131.1	17.6333
Co 228.615	0.7172	ppb	0.2183	30.4	5.5925

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Cr 267.716	1.1656	ppb	0.0818	7.0	86.5096
Cu 324.754	0.0940	ppb	0.0827	88.1	134.455
Fe 271.441	2281.89	ppb	26.5105	1.2	4126.08
K 766.491	6280.89	ppb	88.8531	1.4	269271
Mg 279.078	12553.1	ppb	171.013	1.4	35026.4
Mn 257.610	95.9175	ppb	1.1259	1.2	24612.1
Mo 202.032	1.1673	ppb	0.1718	14.7	13.5796
Na 330.237	20402.6	ppb	225.171	1.1	964.193
Ni 231.604	2.6311	ppb	0.3086	11.7	4.6469
Pb 220.353	2.8198	ppb	0.8010	28.4	14.8627
Sb 206.834	-0.4686	ppb	0.1917	40.9	3.0200
Se 196.026	2.6582	ppb	1.8913	71.1	-0.3362
Sn 189.925	-0.4353	ppb	1.3664	313.9	-11.9469
Sr 216.596	128.903	ppb	1.9795	1.5	1992.46
Ti 334.941	0.8723	ppb	0.0069	0.8	250.128
Tl 190.794	-1.7173	ppb	0.4876	28.4	-13.9935
V 292.401	2.0303	ppb	0.1669	8.2	52.4401
Zn 206.200	3.3193	ppb	0.9100	27.4	11.4379

640-45126-k-4-c (Samp) **9/25/2013, 10:36:03 PM** **Rack 3, Tube 22**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.0216u	0.2219	0.1750
Al 308.215	152.631	148.743	148.604
As 188.980	4.4644	5.5064	4.5633
B 249.678	21.6726	22.3864	22.2784
Ba 389.178	16.6466	16.7828	16.4837
Be 313.042	-0.0034	-0.0049u	-0.0037
Ca 370.602	25368	25269	25212
Cd 226.502	0.0515	0.0418	0.0307
Co 228.615	-0.2078u	0.2492	0.4647
Cr 267.716	1.1463	0.8802	0.8986
Cu 324.754	0.4540	0.8682	0.5532
Fe 271.441	2339.46	2341.87	2348.71
K 766.491	974.963	980.853	976.897
Mg 279.078	2591.78	2597.73	2599.88
Mn 257.610	58.1357	58.2022	58.2885
Mo 202.032	1.1866	1.2488	1.2869
Na 330.237	2353.15	2406.96	2487.96
Ni 231.604	2.8691	3.3187	2.4860
Pb 220.353	2.8634	1.6813	-0.3595u
Sb 206.834	1.4071	0.9965	0.3249
Se 196.026	0.9310	-3.9692u	2.7967
Sn 189.925	0.0437	-1.1062u	2.0837
Sr 216.596	101.725	101.543	101.695
Ti 334.941	1.6262	1.6938	1.7009
Tl 190.794	-1.0255u	-1.2145u	0.0012u
V 292.401	2.6924	2.6073	2.7376
Zn 206.200	74.6097	74.5981	73.2680

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1395	ppb	0.1048	75.1	-3.2570
Al 308.215	149.993	ppb	2.2859	1.5	890.082

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	4.8447	ppb	0.5751	11.9	-3.4786
B 249.678	22.1125	ppb	0.3848	1.7	517.437
Ba 389.178	16.6377	ppb	0.1497	0.9	386.745
Be 313.042	-0.0040	ppb	0.0008	20.0	-266.278
Ca 370.602	25283	ppb	79.08	0.3	77253
Cd 226.502	0.0414	ppb	0.0104	25.1	18.5400
Co 228.615	0.1687	ppb	0.3434	203.5	-1.8444
Cr 267.716	0.9750	ppb	0.1486	15.2	75.0831
Cu 324.754	0.6251	ppb	0.2163	34.6	169.321
Fe 271.441	2343.35	ppb	4.7988	0.2	4236.78
K 766.491	977.571	ppb	3.0023	0.3	42253.6
Mg 279.078	2596.46	ppb	4.1984	0.2	7263.96
Mn 257.610	58.2088	ppb	0.0766	0.1	14928.6
Mo 202.032	1.2408	ppb	0.0506	4.1	14.1649
Na 330.237	2416.02	ppb	67.8595	2.8	148.213
Ni 231.604	2.8913	ppb	0.4168	14.4	5.6267
Pb 220.353	1.3951	ppb	1.6304	116.9	11.9885
Sb 206.834	0.9095	ppb	0.5463	60.1	5.2456
Se 196.026	-0.0805	ppb	3.4945	4341.0	-2.0285
Sn 189.925	0.3404	ppb	1.6155	474.6	-11.1519
Sr 216.596	101.654	ppb	0.0974	0.1	1572.00
Ti 334.941	1.6736	ppb	0.0412	2.5	434.809
Tl 190.794	-0.7463	ppb	0.6542	87.7	-12.6073
V 292.401	2.6791	ppb	0.0662	2.5	71.3421
Zn 206.200	74.1586	ppb	0.7713	1.0	127.346

640-45126-k-5-c (Samp) **9/25/2013, 10:40:40 PM** **Rack 3, Tube 23**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	0.1393u	0.1977	-0.1528u
Al 308.215	51.1810	52.8163	52.2161
As 188.980	4.6690	1.9430	-0.1894u
B 249.678	24.8846	25.5100	24.9138
Ba 389.178	5.1534	5.6496	6.5118
Be 313.042	-0.0046	-0.0162u	-0.0103
Ca 370.602	75876	77633	75769
Cd 226.502	-0.0271	0.0304	0.0687
Co 228.615	0.1707	0.0640	-0.0031u
Cr 267.716	0.6771	0.6550	0.5486
Cu 324.754	0.4891	0.1281	0.8654
Fe 271.441	720.120	737.058	725.236
K 766.491	1675.80	1700.68	1668.88
Mg 279.078	8666.37	8835.97	8646.07
Mn 257.610	34.2329	34.9974	34.1886
Mo 202.032	2.3683	2.3078	1.6282
Na 330.237	3666.42	3977.21	3812.80
Ni 231.604	1.5317	1.3357	2.1417
Pb 220.353	-0.5301u	4.1042	-0.2782u
Sb 206.834	-1.4325u	2.0041	2.8411
Se 196.026	-2.1977u	1.8358	6.0952
Sn 189.925	-0.4965u	-3.3260u	0.0663
Sr 216.596	299.371	306.239	298.451
Ti 334.941	0.3184	0.3724	0.3749

Label	Replicates	Concentration	
Tl 190.794	-0.7088u	-2.6855u	-0.6425u
V 292.401	5.3691	5.4608	5.0479
Zn 206.200	3.5427	1.2164	4.3580

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0614	ppb	0.1878	305.9	-20.3104
Al 308.215	52.0712	ppb	0.8273	1.6	299.270
As 188.980	2.1409	ppb	2.4352	113.7	-5.9114
B 249.678	25.1028	ppb	0.3529	1.4	578.411
Ba 389.178	5.7716	ppb	0.6874	11.9	140.120
Be 313.042	-0.0104	ppb	0.0058	55.9	-260.730
Ca 370.602	76426	ppb	1047	1.4	233977
Cd 226.502	0.0240	ppb	0.0482	200.7	10.9941
Co 228.615	0.0772	ppb	0.0876	113.5	-3.2132
Cr 267.716	0.6269	ppb	0.0687	11.0	54.6184
Cu 324.754	0.4942	ppb	0.3687	74.6	160.104
Fe 271.441	727.471	ppb	8.6872	1.2	1324.28
K 766.491	1681.79	ppb	16.7237	1.0	72398.7
Mg 279.078	8716.13	ppb	104.275	1.2	24328.3
Mn 257.610	34.4730	ppb	0.4547	1.3	8940.81
Mo 202.032	2.1014	ppb	0.4109	19.6	21.1599
Na 330.237	3818.81	ppb	155.480	4.1	213.143
Ni 231.604	1.6697	ppb	0.4203	25.2	0.9958
Pb 220.353	1.0986	ppb	2.6059	237.2	11.2498
Sb 206.834	1.1376	ppb	2.2647	199.1	5.5317
Se 196.026	1.9111	ppb	4.1470	217.0	-0.8201
Sn 189.925	-1.2521	ppb	1.8180	145.2	-12.7837
Sr 216.596	301.353	ppb	4.2558	1.4	4647.13
Ti 334.941	0.3552	ppb	0.0319	9.0	85.2719
Tl 190.794	-1.3456	ppb	1.1609	86.3	-13.2906
V 292.401	5.2926	ppb	0.2168	4.1	147.311
Zn 206.200	3.0390	ppb	1.6302	53.6	10.9641

640-45080-k-2-c (Samp) **9/25/2013, 10:45:17 PM** **Rack 3, Tube 24**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	-0.1175u	-0.2235u	0.0219u
Al 308.215	246.497	245.556	253.538
As 188.980	0.6575	3.6787	3.9043
B 249.678	11.2367	11.5840	11.0777
Ba 389.178	0.0105	0.9174	0.8222
Be 313.042	-0.0031	0.0042	-0.0045
Ca 370.602	30129	30204	30980
Cd 226.502	0.0758	0.2162	0.1837
Co 228.615	0.5839	0.2784	-0.5832u
Cr 267.716	0.4745	0.6510	0.5405
Cu 324.754	0.6083	0.9308	0.8868
Fe 271.441	145.237	147.301	144.942
K 766.491	1243.93	1246.13	1275.97
Mg 279.078	3208.07	3203.41	3279.64
Mn 257.610	1.5018	1.5363	1.5437
Mo 202.032	0.9523	0.4771	1.1841
Na 330.237	2382.34	2595.50	2253.49

Label	Replicates Concentration		
Ni 231.604	0.6389	2.1648	1.5099
Pb 220.353	4.6548	-0.1747u	1.7732
Sb 206.834	-2.6016u	-2.0342u	0.0602
Se 196.026	3.8776	3.2652	0.4327
Sn 189.925	-2.3932u	-1.1290u	1.5058
Sr 216.596	77.0954	77.8814	79.7241
Ti 334.941	4.1991	4.1127	4.4072
Tl 190.794	-2.7286u	-1.2975u	-3.4240u
V 292.401	1.0150	1.3722	1.2361
Zn 206.200	2.7505	1.1982	1.4261

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1064	ppb	0.1231	115.7	-23.3012
Al 308.215	248.530	ppb	4.3621	1.8	1484.45
As 188.980	2.7468	ppb	1.8129	66.0	-5.3498
B 249.678	11.2994	ppb	0.2589	2.3	318.054
Ba 389.178	0.5834	ppb	0.4984	85.4	-0.2770
Be 313.042	-0.0011	ppb	0.0047	411.8	-258.781
Ca 370.602	30438	ppb	471.4	1.5	93204
Cd 226.502	0.1586	ppb	0.0735	46.4	15.7818
Co 228.615	0.0930	ppb	0.6053	650.6	-2.8788
Cr 267.716	0.5553	ppb	0.0892	16.1	50.2256
Cu 324.754	0.8086	ppb	0.1749	21.6	180.515
Fe 271.441	145.826	ppb	1.2853	0.9	275.878
K 766.491	1255.34	ppb	17.8950	1.4	54144.1
Mg 279.078	3230.37	ppb	42.7319	1.3	9032.19
Mn 257.610	1.5273	ppb	0.0223	1.5	506.844
Mo 202.032	0.8712	ppb	0.3604	41.4	11.3212
Na 330.237	2410.44	ppb	172.724	7.2	149.474
Ni 231.604	1.4379	ppb	0.7655	53.2	0.1089
Pb 220.353	2.0844	ppb	2.4298	116.6	13.1719
Sb 206.834	-1.5252	ppb	1.4020	91.9	1.2318
Se 196.026	2.5252	ppb	1.8378	72.8	-0.4557
Sn 189.925	-0.6722	ppb	1.9893	296.0	-12.2044
Sr 216.596	78.2337	ppb	1.3493	1.7	1210.05
Ti 334.941	4.2397	ppb	0.1514	3.6	1172.47
Tl 190.794	-2.4834	ppb	1.0842	43.7	-14.8226
V 292.401	1.2078	ppb	0.1803	14.9	28.6668
Zn 206.200	1.7916	ppb	0.8382	46.8	8.9168

Cont Calib Verif (CCV) **9/25/2013, 10:49:53 PM** **Rack 3, Tube 25**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	491.263	492.270	484.094
Al 308.215	4845.39	4874.29	4772.69
As 188.980	489.407	487.676	478.309
B 249.678	491.191	495.553	485.648
Ba 389.178	4900.14	4947.24	4838.54
Be 313.042	508.461	510.586	500.419
Ca 370.602	5010	5054	4925
Cd 226.502	497.001	501.509	491.194
Co 228.615	506.272	510.663	499.358
Cr 267.716	5079.43	5126.64	5021.58

Label	Replicates Concentration		
Cu 324.754	5077.82	5116.34	5068.54
Fe 271.441	4871.91	4902.81	4798.31
K 766.491	10229.7	10255.8	10068.1
Mg 279.078	5026.85	5072.87	4967.52
Mn 257.610	5096.40	5124.68	5022.59
Mo 202.032	501.431	505.333	495.938
Na 330.237	7183.70	7225.80	6971.53
Ni 231.604	2509.23	2518.41	2457.48
Pb 220.353	496.038	499.285	488.752
Sb 206.834	977.587	978.905	960.875
Se 196.026	5035.42	5100.08	4986.72
Sn 189.925	5006.81	5109.36	4956.48
Sr 216.596	2543.86	2568.30	2509.91
Ti 334.941	483.708	488.328	476.751
Tl 190.794	5043.41	5083.32	4985.99
V 292.401	4976.73	5006.30	4911.18
Zn 206.200	2529.93	2556.38	2499.55

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	489.209	ppb	4.4583	0.9	41547.5	97.84180
Al 308.215	4830.79	ppb	52.3531	1.1	28287.0	96.61579
As 188.980	485.131	ppb	5.9709	1.2	432.270	97.02616
B 249.678	490.797	ppb	4.9640	1.0	9402.93	98.15943
Ba 389.178	4895.31	ppb	54.5108	1.1	117567	97.90618
Be 313.042	506.489	ppb	5.3626	1.1	968494	101.29776
Ca 370.602	4996	ppb	65.67	1.3	15369	99.92527
Cd 226.502	496.568	ppb	5.1714	1.0	26979.3	99.31358
Co 228.615	505.431	ppb	5.6991	1.1	6870.98	101.08621
Cr 267.716	5075.88	ppb	52.6194	1.0	290019	101.51764
Cu 324.754	5087.57	ppb	25.3473	0.5	333857	101.75139
Fe 271.441	4857.67	ppb	53.6825	1.1	8886.48	97.15350
K 766.491	10184.5	ppb	101.649	1.0	436372	101.84536
Mg 279.078	5022.41	ppb	52.8190	1.1	13921.4	100.44823
Mn 257.610	5081.22	ppb	52.7101	1.0	1292920	101.62449
Mo 202.032	500.901	ppb	4.7197	0.9	4016.14	100.18014
Na 330.237	7127.01	ppb	136.286	1.9	327.711	95.02681
Ni 231.604	2495.04	ppb	32.8483	1.3	9354.76	99.80161
Pb 220.353	494.692	ppb	5.3937	1.1	1005.44	98.93835
Sb 206.834	972.456	ppb	10.0508	1.0	1646.02	97.24555
Se 196.026	5040.74	ppb	56.8656	1.1	3093.57	100.81481
Sn 189.925	5024.22	ppb	77.9142	1.6	5225.90	100.48434
Sr 216.596	2540.69	ppb	29.3235	1.2	38992.9	101.62757
Ti 334.941	482.929	ppb	5.8277	1.2	138290	96.58572
Tl 190.794	5037.57	ppb	48.9280	1.0	7092.27	100.75146
V 292.401	4964.74	ppb	48.6822	1.0	144117	99.29475
Zn 206.200	2528.62	ppb	28.4340	1.1	4122.92	101.14477

Cont Calib Blank (CCB) **9/25/2013, 10:54:30 PM** **Rack 3, Tube 26**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.3116	-0.1667u	-0.1760u
Al 308.215	-1.2550u	-2.4508u	-0.6784u
As 188.980	4.3818	4.0076	3.0910

Label	Replicates Concentration		
B 249.678	1.7556	1.1081	0.8665
Ba 389.178	0.0614	0.7074	-0.3244u
Be 313.042	0.0115	0.0055	0.0143
Ca 370.602	-0.2023u	-2.799u	0.4198
Cd 226.502	0.1785	-0.0005u	-0.0218u
Co 228.615	-0.2043u	-0.4146u	0.1758
Cr 267.716	-0.0092u	0.0882	0.0718
Cu 324.754	0.2216	-0.2842u	-0.0181u
Fe 271.441	0.9677	1.6496	-5.0739u
K 766.491	-3.9405u	-3.9081u	-3.8825u
Mg 279.078	0.3877	2.9521	0.0380
Mn 257.610	-0.1953u	-0.1910u	-0.2278u
Mo 202.032	1.0482	1.0926	0.9714
Na 330.237	-117.980u	-1.0829u	-172.639u
Ni 231.604	0.4654	0.5601	-0.8964u
Pb 220.353	0.9381	1.4888	1.6941
Sb 206.834	2.3110	0.9491	4.1296
Se 196.026	5.1780	2.7819	1.9257
Sn 189.925	1.6820	-0.2868u	1.4996
Sr 216.596	0.3964	0.2696	0.6745
Ti 334.941	0.1267	0.0618	0.0311
Tl 190.794	-0.0758u	1.2727	1.3822
V 292.401	0.1477	0.2646	0.1681
Zn 206.200	0.1353	-0.0960u	0.1840

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	-0.0104	ppb	0.2789	2692.8	-11.0510	-0.01036
Al 308.215	-1.4614	ppb	0.9040	61.9	-22.6987	-1.46140
As 188.980	3.8268	ppb	0.6641	17.4	-4.3712	3.82679
B 249.678	1.2434	ppb	0.4597	37.0	127.638	1.24339
Ba 389.178	0.1481	ppb	0.5213	351.9	-19.7213	0.14813
Be 313.042	0.0104	ppb	0.0045	42.8	-247.206	0.01043
Ca 370.602	-0.8606	ppb	1.708	198.4	8.164	-0.86065
Cd 226.502	0.0521	ppb	0.1100	211.3	9.3609	0.05205
Co 228.615	-0.1477	ppb	0.2992	202.6	-6.2738	-0.14769
Cr 267.716	0.0503	ppb	0.0521	103.7	21.2693	0.05029
Cu 324.754	-0.0269	ppb	0.2530	940.2	125.663	-0.02691
Fe 271.441	-0.8189	ppb	3.7007	451.9	11.5178	-0.81889
K 766.491	-3.9104	ppb	0.0290	0.7	239.796	-3.91037
Mg 279.078	1.1260	ppb	1.5911	141.3	27.7984	1.12597
Mn 257.610	-0.2047	ppb	0.0202	9.8	36.2511	-0.20472
Mo 202.032	1.0374	ppb	0.0613	5.9	12.6660	1.03737
Na 330.237	-97.2339	ppb	87.6394	90.1	35.9235	-97.23389
Ni 231.604	0.0431	ppb	0.8150	1892.8	-5.1281	0.04306
Pb 220.353	1.3737	ppb	0.3909	28.5	11.7360	1.37368
Sb 206.834	2.4633	ppb	1.5957	64.8	7.6644	2.46326
Se 196.026	3.2952	ppb	1.6858	51.2	0.0158	3.29520
Sn 189.925	0.9649	ppb	1.0878	112.7	-10.5153	0.96493
Sr 216.596	0.4469	ppb	0.2071	46.3	9.7052	0.44685
Ti 334.941	0.0732	ppb	0.0488	66.7	-35.7183	0.07321
Tl 190.794	0.8597	ppb	0.8120	94.5	-10.0972	0.85968
V 292.401	0.1935	ppb	0.0624	32.3	-0.9423	0.19348
Zn 206.200	0.0744	ppb	0.1496	201.0	6.1076	0.07442

640-45080-k-3-c (Samp) **9/25/2013, 10:59:06 PM** **Rack 3, Tube 27**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.1617	-0.1281u	0.2148
Al 308.215	0.3367	-0.8985u	1.5234
As 188.980	1.4662	2.2603	0.9800
B 249.678	9.6764	9.6405	9.5509
Ba 389.178	0.5458	0.9373	-0.3055u
Be 313.042	0.0075	0.0028	0.0061
Ca 370.602	58.52	64.98	66.80
Cd 226.502	0.1335	0.1330	0.0693
Co 228.615	-0.3210u	0.0661	-0.3838u
Cr 267.716	0.1450	-0.1287u	0.3177
Cu 324.754	0.6486	0.5875	0.5595
Fe 271.441	2.1206	0.6176	-0.2268u
K 766.491	38.9067	39.5966	39.7616
Mg 279.078	2.6793	3.1981	0.7048
Mn 257.610	-0.1504u	-0.1636u	-0.1790u
Mo 202.032	0.0221	0.3681	0.2657
Na 330.237	-118.039u	-125.321u	-38.1831u
Ni 231.604	0.9015	0.0752	0.0341
Pb 220.353	0.4252	2.5422	3.9747
Sb 206.834	0.6465	2.0796	0.7329
Se 196.026	7.9594	3.7952	3.5096
Sn 189.925	-0.8199u	1.6460	1.2961
Sr 216.596	0.3561	0.3881	0.3410
Ti 334.941	0.0317	0.0576	0.0409
Tl 190.794	-0.2825u	-1.2974u	-0.8084u
V 292.401	-0.0072u	0.1288	-0.1632u
Zn 206.200	2.2555	3.0936	4.3656

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0828	ppb	0.1846	223.0	-3.1329
Al 308.215	0.3205	ppb	1.2110	377.8	-11.9602
As 188.980	1.5688	ppb	0.6463	41.2	-6.4202
B 249.678	9.6226	ppb	0.0646	0.7	286.611
Ba 389.178	0.3925	ppb	0.6354	161.9	-13.8527
Be 313.042	0.0054	ppb	0.0024	43.9	-256.580
Ca 370.602	63.43	ppb	4.351	6.9	204.9
Cd 226.502	0.1119	ppb	0.0369	33.0	12.6160
Co 228.615	-0.2129	ppb	0.2436	114.4	-7.1319
Cr 267.716	0.1113	ppb	0.2251	202.2	24.7577
Cu 324.754	0.5985	ppb	0.0456	7.6	166.668
Fe 271.441	0.8371	ppb	1.1890	142.0	14.4912
K 766.491	39.4216	ppb	0.4535	1.2	2094.69
Mg 279.078	2.1941	ppb	1.3156	60.0	30.7752
Mn 257.610	-0.1643	ppb	0.0143	8.7	46.5424
Mo 202.032	0.2186	ppb	0.1778	81.3	6.0917
Na 330.237	-93.8474	ppb	48.3440	51.5	36.0321
Ni 231.604	0.3369	ppb	0.4894	145.3	-4.0253
Pb 220.353	2.3140	ppb	1.7857	77.2	13.6310
Sb 206.834	1.1530	ppb	0.8036	69.7	5.5636
Se 196.026	5.0881	ppb	2.4907	49.0	1.1162
Sn 189.925	0.7074	ppb	1.3342	188.6	-10.7838
Sr 216.596	0.3617	ppb	0.0240	6.6	8.4205

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ti 334.941	0.0434	ppb	0.0131	30.2	-44.2390
Tl 190.794	-0.7961	ppb	0.5075	63.8	-12.4316
V 292.401	-0.0139	ppb	0.1461	1053.4	-6.8320
Zn 206.200	3.2382	ppb	1.0624	32.8	11.2840

640-45080-k-4-c (Samp) **9/25/2013, 11:03:43 PM** **Rack 3, Tube 28**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	-0.4440u	0.0866	-0.0568u
Al 308.215	143.986	144.862	138.326
As 188.980	7.5483	4.5012	3.9737
B 249.678	93.2878	93.7314	90.9494
Ba 389.178	14.9973	14.5827	14.3071
Be 313.042	0.0095	0.0167	0.0137
Ca 370.602	46696	46807	45636
Cd 226.502	0.1289	0.2318	0.2727
Co 228.615	-0.2194u	0.0563	0.2689
Cr 267.716	1.5861	1.7701	1.7312
Cu 324.754	0.1843	-0.0143	-0.0352u
Fe 271.441	2545.70	2559.60	2491.58
K 766.491	942.945	952.298	930.683
Mg 279.078	9480.23	9497.67	9310.50
Mn 257.610	61.2927	61.5510	60.0425
Mo 202.032	0.7233	0.8702	0.7516
Na 330.237	11721.4	11508.6	11646.3
Ni 231.604	2.9413	3.3107	1.7355
Pb 220.353	1.2320	0.4962	1.7251
Sb 206.834	2.0302	-0.6527u	-1.4923u
Se 196.026	1.5089	3.1197	9.1941
Sn 189.925	-1.7418u	-4.3846u	-2.2867u
Sr 216.596	99.2775	100.248	97.5054
Ti 334.941	1.4014	1.3539	1.3219
Tl 190.794	-4.5025u	-5.5196u	-2.1047u
V 292.401	0.8930	1.3889	1.3352
Zn 206.200	1.9869	3.3358	2.3057

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1380	ppb	0.2745	198.9	-26.8885
Al 308.215	142.391	ppb	3.5478	2.5	844.479
As 188.980	5.3411	ppb	1.9296	36.1	-3.0307
B 249.678	92.6562	ppb	1.4947	1.6	1855.37
Ba 389.178	14.6290	ppb	0.3474	2.4	357.361
Be 313.042	0.0133	ppb	0.0036	26.9	-226.838
Ca 370.602	46380	ppb	646.1	1.4	141838
Cd 226.502	0.2111	ppb	0.0741	35.1	28.5598
Co 228.615	0.0353	ppb	0.2448	694.5	-3.6370
Cr 267.716	1.6958	ppb	0.0969	5.7	116.529
Cu 324.754	0.0449	ppb	0.1212	269.7	131.331
Fe 271.441	2532.29	ppb	35.9374	1.4	4577.32
K 766.491	941.976	ppb	10.8399	1.2	40729.9
Mg 279.078	9429.46	ppb	103.393	1.1	26317.2
Mn 257.610	60.9621	ppb	0.8068	1.3	15691.5
Mo 202.032	0.7817	ppb	0.0779	10	10.4717

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Na 330.237	11625.4	ppb	107.926	0.9	566.410
Ni 231.604	2.6625	ppb	0.8238	30.9	4.7740
Pb 220.353	1.1511	ppb	0.6185	53.7	11.5142
Sb 206.834	-0.0383	ppb	1.8399	4805.0	3.7375
Se 196.026	4.6076	ppb	4.0529	88.0	0.8507
Sn 189.925	-2.8044	ppb	1.3954	49.8	-14.4151
Sr 216.596	99.0102	ppb	1.3905	1.4	1534.71
Ti 334.941	1.3591	ppb	0.0400	2.9	375.752
Tl 190.794	-4.0423	ppb	1.7534	43.4	-17.2734
V 292.401	1.2057	ppb	0.2721	22.6	28.5027
Zn 206.200	2.5428	ppb	0.7050	27.7	10.1680

640-45080-k-5-c (Samp) **9/25/2013, 11:08:20 PM** **Rack 3, Tube 29**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.2326u	0.2821u	0.3045u
Al 308.215	73.8233	72.8403	74.5901
As 188.980	-1.4354u	3.4860	7.3440
B 249.678	1071.17	1069.48	1071.98
Ba 389.178	153.619	153.481	153.855
Be 313.042	-0.0136	-0.0189	-0.0184
Ca 370.602	172085	172693	172232
Cd 226.502	0.1146	0.0933	-0.0565
Co 228.615	0.1897	0.2402	0.5364
Cr 267.716	6.5391	6.6629	6.4266
Cu 324.754	-0.0165u	-0.0534u	-0.1748u
Fe 271.441	1379.78	1383.40	1377.72
K 766.491	28633.7	28479.4	28558.3
Mg 279.078	21796.1	21771.0	21740.1
Mn 257.610	393.305	392.633	392.900
Mo 202.032	0.8252	0.4915	0.4265
Na 330.237	82134.6	82218.1	82175.5
Ni 231.604	4.7794	6.0981	4.7233
Pb 220.353	3.0978	-0.3985u	0.1450
Sb 206.834	-1.4330u	0.1810	-1.6974u
Se 196.026	3.5220	-0.8108u	3.0498
Sn 189.925	-2.3448u	-0.2825u	2.1196
Sr 216.596	718.959	718.018	716.904
Ti 334.941	0.5121	0.5180	0.5378
Tl 190.794	-0.2448u	2.5808	-0.0471u
V 292.401	1.9632	1.2870	1.2428
Zn 206.200	74.0823	74.2298	71.7304

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.2731	ppb	0.0368	13.5	-21.9943
Al 308.215	73.7512	ppb	0.8771	1.2	430.542
As 188.980	3.1315	ppb	4.4004	140.5	-5.0206
B 249.678	1070.87	ppb	1.2771	0.1	20418.0
Ba 389.178	153.652	ppb	0.1887	0.1	3727.77
Be 313.042	-0.0169	ppb	0.0029	17.1	-249.410
Ca 370.602	172337	ppb	317.0	0.2	527620
Cd 226.502	0.0505	ppb	0.0933	184.7	14.7703
Co 228.615	0.3221	ppb	0.1873	58.1	0.2413

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Cr 267.716	6.5429	ppb	0.1182	1.8	396.238
Cu 324.754	-0.0816	ppb	0.0828	101.5	122.577
Fe 271.441	1380.30	ppb	2.8749	0.2	2500.98
K 766.491	28557.1	ppb	77.1676	0.3	1222839
Mg 279.078	21769.1	ppb	28.0728	0.1	60718.1
Mn 257.610	392.946	ppb	0.3383	0.1	100265
Mo 202.032	0.5811	ppb	0.2139	36.8	8.9231
Na 330.237	82176.1	ppb	41.7533	0.1	3762.65
Ni 231.604	5.2003	ppb	0.7781	15.0	14.2610
Pb 220.353	0.9481	ppb	1.8814	198.4	11.0965
Sb 206.834	-0.9831	ppb	1.0168	103.4	2.2437
Se 196.026	1.9203	ppb	2.3770	123.8	-0.7024
Sn 189.925	-0.1692	ppb	2.2344	1320.3	-11.5720
Sr 216.596	717.961	ppb	1.0289	0.1	11065.6
Ti 334.941	0.5227	ppb	0.0135	2.6	188.091
Tl 190.794	0.7630	ppb	1.5774	206.7	-10.6108
V 292.401	1.4977	ppb	0.4038	27.0	36.3739
Zn 206.200	73.3475	ppb	1.4024	1.9	125.986

640-45080-k-6-c (Samp) **9/25/2013, 11:12:56 PM** **Rack 3, Tube 30**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.0649u	0.0075u	-0.0817u
Al 308.215	166.746	164.607	163.898
As 188.980	9.5420	14.7607	11.5932
B 249.678	217.686	217.273	216.863
Ba 389.178	61.3345	61.5576	59.9227
Be 313.042	0.0042	0.0032	-0.0046
Ca 370.602	77678	77331	77305
Cd 226.502	0.0574	0.0435	0.2339
Co 228.615	0.3119	0.1146	-0.4766u
Cr 267.716	2.8786	2.7191	2.7279
Cu 324.754	-0.0688u	-0.0931u	-0.2893u
Fe 271.441	2766.55	2768.23	2747.62
K 766.491	10410.1	10450.7	10427.6
Mg 279.078	14691.7	14704.4	14649.1
Mn 257.610	25.9578	26.0239	25.9879
Mo 202.032	4.0727	3.9157	3.4105
Na 330.237	28332.9	28090.6	28009.1
Ni 231.604	2.3714	3.3638	2.8432
Pb 220.353	3.0389	2.8833	0.2390
Sb 206.834	-0.3069u	-0.8120u	-0.7718u
Se 196.026	3.0272	7.9360	2.3308
Sn 189.925	-1.5483u	-1.2594u	-2.3171u
Sr 216.596	290.826	290.242	288.593
Ti 334.941	0.2084	0.1825	0.2076
Tl 190.794	-1.1830u	-2.2356u	-0.1246u
V 292.401	1.1506	1.3201	1.5732
Zn 206.200	4.1583	3.2961	2.6558

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0463	ppb	0.0474	102.3	-29.1044
Al 308.215	165.084	ppb	1.4826	0.9	981.438

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	11.9653	ppb	2.6292	22.0	2.9773
B 249.678	217.274	ppb	0.4112	0.2	4219.12
Ba 389.178	60.9383	ppb	0.8866	1.5	1484.09
Be 313.042	0.0010	ppb	0.0048	501.0	-242.247
Ca 370.602	77438	ppb	208.2	0.3	236920
Cd 226.502	0.1116	ppb	0.1061	95.1	24.1117
Co 228.615	-0.0167	ppb	0.4103	2460.0	-4.4466
Cr 267.716	2.7752	ppb	0.0897	3.2	178.414
Cu 324.754	-0.1504	ppb	0.1209	80.4	118.711
Fe 271.441	2760.80	ppb	11.4432	0.4	4989.19
K 766.491	10429.5	ppb	20.3563	0.2	446858
Mg 279.078	14681.7	ppb	28.9703	0.2	40963.5
Mn 257.610	25.9898	ppb	0.0331	0.1	6842.23
Mo 202.032	3.7996	ppb	0.3460	9.1	34.6933
Na 330.237	28144.2	ppb	168.389	0.6	1314.87
Ni 231.604	2.8595	ppb	0.4964	17.4	5.5202
Pb 220.353	2.0537	ppb	1.5735	76.6	13.3384
Sb 206.834	-0.6302	ppb	0.2807	44.5	2.7449
Se 196.026	4.4314	ppb	3.0551	68.9	0.7329
Sn 189.925	-1.7082	ppb	0.5467	32.0	-13.2490
Sr 216.596	289.887	ppb	1.1580	0.4	4473.47
Ti 334.941	0.1995	ppb	0.0147	7.4	66.7947
Tl 190.794	-1.1811	ppb	1.0555	89.4	-13.2401
V 292.401	1.3480	ppb	0.2127	15.8	31.9800
Zn 206.200	3.3701	ppb	0.7540	22.4	11.5198

640-45080-u-7-b (Samp) **9/25/2013, 11:17:33 PM** **Rack 3, Tube 31**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.2801u	0.1270	-0.1223u
Al 308.215	411.386	420.939	420.102
As 188.980	-0.0869u	6.2531	-0.0154u
B 249.678	171.844	176.521	176.017
Ba 389.178	8.9716	10.6357	9.3927
Be 313.042	0.0375	0.0228	0.0282
Ca 370.602	3911	4008	3999
Cd 226.502	0.1569	0.0294	0.1116
Co 228.615	-0.0533u	0.1462	0.7106
Cr 267.716	1.6028	1.3540	1.6779
Cu 324.754	-0.0047u	0.0481	-0.0286u
Fe 271.441	663.666	675.437	680.372
K 766.491	6978.90	7122.84	7102.03
Mg 279.078	1435.69	1470.91	1466.02
Mn 257.610	3.1073	3.1844	3.1840
Mo 202.032	0.7879	0.3033	1.3132
Na 330.237	26879.6	27727.2	27484.0
Ni 231.604	1.5247	2.0965	1.9978
Pb 220.353	1.8400	2.5142	2.6183
Sb 206.834	-1.1606u	-0.7281u	-3.5974u
Se 196.026	6.0774	4.5957	2.1223
Sn 189.925	1.3578	-2.4320u	0.1551
Sr 216.596	20.3734	21.4100	21.1099
Ti 334.941	3.2802	3.8338	3.3207

Label	Replicates	Concentration	
Tl 190.794	1.3622	0.6496	-2.4488u
V 292.401	3.0862	3.3673	3.5332
Zn 206.200	1.5951	2.6874	2.2375

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0918	ppb	0.2052	223.6	-19.0257
Al 308.215	417.476	ppb	5.2905	1.3	2502.75
As 188.980	2.0503	ppb	3.6399	177.5	-5.9872
B 249.678	174.794	ppb	2.5673	1.5	3418.63
Ba 389.178	9.6667	ppb	0.8652	9.0	213.812
Be 313.042	0.0295	ppb	0.0074	25.2	-212.755
Ca 370.602	3973	ppb	53.69	1.4	12125
Cd 226.502	0.0993	ppb	0.0646	65.1	14.5399
Co 228.615	0.2678	ppb	0.3962	148.0	-0.4961
Cr 267.716	1.5449	ppb	0.1695	11.0	107.384
Cu 324.754	0.0049	ppb	0.0392	796.5	127.964
Fe 271.441	673.158	ppb	8.5831	1.3	1226.40
K 766.491	7067.92	ppb	77.7974	1.1	302961
Mg 279.078	1457.54	ppb	19.0804	1.3	4088.82
Mn 257.610	3.1586	ppb	0.0444	1.4	906.994
Mo 202.032	0.8014	ppb	0.5051	63.0	10.7278
Na 330.237	27363.6	ppb	436.442	1.6	1280.03
Ni 231.604	1.8730	ppb	0.3056	16.3	1.7567
Pb 220.353	2.3242	ppb	0.4225	18.2	13.6969
Sb 206.834	-1.8287	ppb	1.5469	84.6	0.7751
Se 196.026	4.2651	ppb	1.9982	46.8	0.6150
Sn 189.925	-0.3064	ppb	1.9366	632.1	-11.8273
Sr 216.596	20.9644	ppb	0.5334	2.5	326.471
Ti 334.941	3.4783	ppb	0.3086	8.9	944.431
Tl 190.794	-0.1457	ppb	2.0262	1390.6	-11.5732
V 292.401	3.3289	ppb	0.2260	6.8	90.1185
Zn 206.200	2.1733	ppb	0.5490	25.3	9.5433

640-45098-k-2-c (Samp) **9/25/2013, 11:22:10 PM** **Rack 3, Tube 32**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	-0.1014u	0.3505	-0.1893u
Al 308.215	1268.43	1265.65	1265.53
As 188.980	-1.7064u	4.6748	-0.7526u
B 249.678	60.6001	60.5520	60.3144
Ba 389.178	24.8942	25.2087	24.8736
Be 313.042	0.0355	0.0320	0.0238
Ca 370.602	7047	7015	7028
Cd 226.502	0.3824	0.1893	0.2544
Co 228.615	0.5896	0.2793	0.0000
Cr 267.716	1.9092	1.7930	1.8424
Cu 324.754	0.2702	-0.0841u	0.8161
Fe 271.441	239.633	238.463	236.071
K 766.491	3561.25	3556.70	3567.08
Mg 279.078	3171.79	3155.54	3177.49
Mn 257.610	6.7219	6.7342	6.7511
Mo 202.032	0.6732	0.4842	0.6538
Na 330.237	8159.73	8116.89	8174.50

Label	Replicates	Concentration	
Ni 231.604	1.9440	2.3687	2.6649
Pb 220.353	2.7788	2.1705	1.7574
Sb 206.834	0.9460	-0.8132u	-0.3457u
Se 196.026	5.2025	3.1083	0.4988
Sn 189.925	-0.8495u	1.5151	0.8627
Sr 216.596	42.2944	41.7353	41.9912
Ti 334.941	1.6161	1.7330	2.1516
Tl 190.794	-1.7542u	-1.4865u	1.2423
V 292.401	6.0415	6.0344	5.9495
Zn 206.200	5.3685	3.3864	4.2010

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0199	ppb	0.2896	1453.4	-10.5695
Al 308.215	1266.54	ppb	1.6382	0.1	7621.75
As 188.980	0.7386	ppb	3.4421	466.0	-7.1594
B 249.678	60.4888	ppb	0.1530	0.3	1251.08
Ba 389.178	24.9922	ppb	0.1878	0.8	585.857
Be 313.042	0.0304	ppb	0.0060	19.8	-207.667
Ca 370.602	7030	ppb	15.91	0.2	21521
Cd 226.502	0.2754	ppb	0.0983	35.7	22.4615
Co 228.615	0.2897	ppb	0.2949	101.8	-0.2560
Cr 267.716	1.8482	ppb	0.0583	3.2	124.214
Cu 324.754	0.3341	ppb	0.4535	135.7	149.347
Fe 271.441	238.056	ppb	1.8155	0.8	442.182
K 766.491	3561.68	ppb	5.2026	0.1	152870
Mg 279.078	3168.28	ppb	11.3885	0.4	8858.57
Mn 257.610	6.7357	ppb	0.0147	0.2	1831.34
Mo 202.032	0.6037	ppb	0.1040	17.2	9.1586
Na 330.237	8150.37	ppb	29.9238	0.4	409.525
Ni 231.604	2.3259	ppb	0.3624	15.6	3.4433
Pb 220.353	2.2356	ppb	0.5138	23.0	13.4654
Sb 206.834	-0.0710	ppb	0.9112	1283.9	3.6086
Se 196.026	2.9365	ppb	2.3565	80.2	-0.2012
Sn 189.925	0.5094	ppb	1.2213	239.7	-10.9830
Sr 216.596	42.0069	ppb	0.2799	0.7	649.815
Ti 334.941	1.8336	ppb	0.2816	15.4	482.657
Tl 190.794	-0.6661	ppb	1.6582	248.9	-12.2680
V 292.401	6.0085	ppb	0.0512	0.9	168.253
Zn 206.200	4.3186	ppb	0.9963	23.1	13.0474

640-45098-k-3-c (Samp) **9/25/2013, 11:26:47 PM** **Rack 3, Tube 33**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	0.2454	-0.0302u	-0.1391u
Al 308.215	480.120	470.552	481.642
As 188.980	8.7590	6.1564	-0.6276u
B 249.678	51.4900	50.0917	51.7610
Ba 389.178	6.3767	6.6540	6.1974
Be 313.042	0.0432	0.0569	0.0564
Ca 370.602	11460	11167	11454
Cd 226.502	0.2253	0.0587	0.1004
Co 228.615	0.5022	-0.2719u	0.9523
Cr 267.716	1.2622	1.0661	1.3454

Label	Replicates	Concentration	
Cu 324.754	0.4214	0.3288	0.7666
Fe 271.441	119.321	111.051	111.698
K 766.491	5285.84	5161.72	5282.46
Mg 279.078	4422.03	4358.78	4457.51
Mn 257.610	1.0004	0.9378	0.9755
Mo 202.032	1.1008	0.8737	1.1274
Na 330.237	14699.2	14378.2	14871.8
Ni 231.604	1.0626	1.3906	1.4708
Pb 220.353	3.1451	1.9326	1.8103
Sb 206.834	-3.3998u	1.3460	1.4370
Se 196.026	6.2969	4.7902	4.0525
Sn 189.925	-2.0948u	-1.7615u	-1.8319u
Sr 216.596	75.1688	74.2037	75.7080
Ti 334.941	4.4709	4.3308	4.7983
Tl 190.794	-2.5788u	-0.8255u	-0.1345u
V 292.401	5.1777	4.8699	4.6675
Zn 206.200	4.2331	2.3367	3.5628

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0254	ppb	0.1982	779.9	-11.8587
Al 308.215	477.438	ppb	6.0120	1.3	2864.04
As 188.980	4.7626	ppb	4.8460	101.8	-3.5167
B 249.678	51.1142	ppb	0.8959	1.8	1073.54
Ba 389.178	6.4093	ppb	0.2300	3.6	142.809
Be 313.042	0.0522	ppb	0.0078	14.9	-165.428
Ca 370.602	11360	ppb	167.8	1.5	34790
Cd 226.502	0.1281	ppb	0.0867	67.7	13.9366
Co 228.615	0.3942	ppb	0.6192	157.1	1.2179
Cr 267.716	1.2246	ppb	0.1434	11.7	88.6491
Cu 324.754	0.5056	ppb	0.2308	45.6	160.582
Fe 271.441	114.024	ppb	4.5994	4.0	218.627
K 766.491	5243.34	ppb	70.7063	1.3	224857
Mg 279.078	4412.77	ppb	50.0086	1.1	12329.2
Mn 257.610	0.9712	ppb	0.0315	3.2	375.578
Mo 202.032	1.0340	ppb	0.1395	13.5	12.6224
Na 330.237	14649.7	ppb	250.471	1.7	704.061
Ni 231.604	1.3080	ppb	0.2163	16.5	-0.3801
Pb 220.353	2.2960	ppb	0.7379	32.1	13.5896
Sb 206.834	-0.2056	ppb	2.7667	1345.7	3.3688
Se 196.026	5.0466	ppb	1.1439	22.7	1.0916
Sn 189.925	-1.8961	ppb	0.1757	9.3	-13.4856
Sr 216.596	75.0268	ppb	0.7621	1.0	1157.87
Ti 334.941	4.5333	ppb	0.2399	5.3	1261.19
Tl 190.794	-1.1796	ppb	1.2601	106.8	-12.9778
V 292.401	4.9050	ppb	0.2569	5.2	136.117
Zn 206.200	3.3775	ppb	0.9616	28.5	11.5087

640-45098-k-6-c (Samp) **9/25/2013, 11:31:23 PM** **Rack 3, Tube 34**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	0.0667	0.1138	-0.0822u
Al 308.215	1474.63	1460.61	1460.37
As 188.980	-0.6680u	0.4589	3.4239

Label	Replicates Concentration		
B 249.678	14.8766	15.0000	14.6712
Ba 389.178	3.5489	2.5248	3.3926
Be 313.042	0.0215	0.0188	0.0206
Ca 370.602	4528	4470	4465
Cd 226.502	0.0761	0.2258	0.0477
Co 228.615	0.2316	0.0403	-0.0972
Cr 267.716	3.2962	3.2790	3.4605
Cu 324.754	0.9873	0.8894	1.6234
Fe 271.441	786.765	783.174	775.826
K 766.491	884.937	882.892	881.374
Mg 279.078	1404.83	1399.70	1393.90
Mn 257.610	1.9339	1.9233	1.8833
Mo 202.032	0.9429	0.9381	0.4893
Na 330.237	2253.38	2089.84	2308.07
Ni 231.604	1.3690	2.2972	1.4585
Pb 220.353	3.5819	2.8299	1.4188
Sb 206.834	0.4152	3.3561	-1.5272u
Se 196.026	-2.4061u	-2.9554u	0.8591
Sn 189.925	2.2714	-0.0724u	-0.1769u
Sr 216.596	18.3411	18.4980	17.9327
Ti 334.941	102.839	103.741	102.240
Tl 190.794	-3.0539u	-0.7067u	-1.1719u
V 292.401	2.1227	2.4928	2.5682
Zn 206.200	2.9892	1.7197	1.1814

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0328	ppb	0.1023	312.2	-8.3002
Al 308.215	1465.20	ppb	8.1680	0.6	8820.20
As 188.980	1.0716	ppb	2.1136	197.2	-6.8623
B 249.678	14.8493	ppb	0.1661	1.1	383.730
Ba 389.178	3.1555	ppb	0.5517	17.5	57.4511
Be 313.042	0.0203	ppb	0.0014	6.8	-226.972
Ca 370.602	4487	ppb	35.00	0.8	13745
Cd 226.502	0.1165	ppb	0.0957	82.1	16.1173
Co 228.615	0.0582	ppb	0.1651	283.5	-0.7177
Cr 267.716	3.3452	ppb	0.1002	3.0	210.037
Cu 324.754	1.1667	ppb	0.3985	34.2	204.236
Fe 271.441	781.922	ppb	5.5757	0.7	1422.43
K 766.491	883.068	ppb	1.7882	0.2	38208.3
Mg 279.078	1399.48	ppb	5.4710	0.4	3926.57
Mn 257.610	1.9135	ppb	0.0267	1.4	590.168
Mo 202.032	0.7901	ppb	0.2605	33.0	10.6324
Na 330.237	2217.10	ppb	113.549	5.1	140.242
Ni 231.604	1.7082	ppb	0.5120	30.0	1.1423
Pb 220.353	2.6102	ppb	1.0981	42.1	14.1947
Sb 206.834	0.7480	ppb	2.4586	328.7	4.9706
Se 196.026	-1.5008	ppb	2.0621	137.4	-2.9241
Sn 189.925	0.6740	ppb	1.3843	205.4	-10.8153
Sr 216.596	18.2573	ppb	0.2918	1.6	285.094
Ti 334.941	102.940	ppb	0.7553	0.7	29434.4
Tl 190.794	-1.6442	ppb	1.2428	75.6	-13.6956
V 292.401	2.3945	ppb	0.2385	10.0	64.6683
Zn 206.200	1.9634	ppb	0.9282	47.3	9.1939

640-45098-k-7-c (Samp) **9/25/2013, 11:36:00 PM** **Rack 3, Tube 35**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.3770	-0.4798u	0.3797
Al 308.215	217.120	218.921	218.864
As 188.980	1.7799	0.6463	1.4727
B 249.678	10.5857	10.1387	10.0807
Ba 389.178	0.8504	0.3590	0.4977
Be 313.042	0.0038	0.0031	0.0044
Ca 370.602	11673	11985	11942
Cd 226.502	0.1468	0.1210	0.1093
Co 228.615	0.3716	0.0762	0.0626
Cr 267.716	0.6963	0.6045	0.6703
Cu 324.754	0.1762	0.4288	0.1146
Fe 271.441	166.259	170.561	172.322
K 766.491	452.497	459.882	457.145
Mg 279.078	3697.32	3769.94	3746.01
Mn 257.610	11.3353	11.6162	11.5527
Mo 202.032	1.5569	0.6181	0.7792
Na 330.237	2449.35	2441.34	2474.91
Ni 231.604	1.1181	1.6301	1.5524
Pb 220.353	1.4936	1.6894	2.4986
Sb 206.834	-0.5741u	2.4420	0.0562
Se 196.026	0.0463	-1.9383u	1.2576
Sn 189.925	-0.5601u	-1.7738u	0.1534
Sr 216.596	20.2995	20.4553	20.4666
Ti 334.941	2.1921	2.4633	2.2864
Tl 190.794	1.7379	-0.0039u	2.4969
V 292.401	3.2646	2.9993	3.1211
Zn 206.200	1.6776	1.6885	2.5694

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0923	ppb	0.4955	536.8	-3.3467
Al 308.215	218.302	ppb	1.0236	0.5	1301.86
As 188.980	1.2996	ppb	0.5863	45.1	-6.6641
B 249.678	10.2684	ppb	0.2764	2.7	298.432
Ba 389.178	0.5690	ppb	0.2533	44.5	0.7998
Be 313.042	0.0037	ppb	0.0007	17.4	-256.249
Ca 370.602	11866	ppb	169.3	1.4	36335
Cd 226.502	0.1257	ppb	0.0192	15.3	14.0971
Co 228.615	0.1701	ppb	0.1746	102.6	-1.8880
Cr 267.716	0.6570	ppb	0.0473	7.2	56.0656
Cu 324.754	0.2399	ppb	0.1665	69.4	143.192
Fe 271.441	169.714	ppb	3.1188	1.8	318.958
K 766.491	456.508	ppb	3.7332	0.8	19948.7
Mg 279.078	3737.76	ppb	37.0040	1.0	10446.8
Mn 257.610	11.5014	ppb	0.1473	1.3	3048.85
Mo 202.032	0.9847	ppb	0.5020	51.0	12.2279
Na 330.237	2455.20	ppb	17.5319	0.7	151.502
Ni 231.604	1.4335	ppb	0.2759	19.2	0.0929
Pb 220.353	1.8939	ppb	0.5328	28.1	12.7943
Sb 206.834	0.6414	ppb	1.5909	248.1	4.7328
Se 196.026	-0.2114	ppb	1.6135	763.1	-2.1323
Sn 189.925	-0.7268	ppb	0.9744	134.1	-12.2715
Sr 216.596	20.4072	ppb	0.0934	0.5	318.451

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ti 334.941	2.3140	ppb	0.1377	5.9	623.258
Tl 190.794	1.4103	ppb	1.2822	90.9	-9.3402
V 292.401	3.1283	ppb	0.1328	4.2	84.5001
Zn 206.200	1.9785	ppb	0.5118	25.9	9.2224

640-45098-k-8-c (Samp) **9/25/2013, 11:40:36 PM** **Rack 3, Tube 36**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	0.2448	-0.1216u	-0.1791u
Al 308.215	683.946	680.751	674.240
As 188.980	4.1222	0.8648	1.6448
B 249.678	18.6682	18.9005	19.3624
Ba 389.178	3.5283	3.0408	3.5615
Be 313.042	0.0139	0.0154	0.0093
Ca 370.602	253.3	257.3	253.6
Cd 226.502	0.1638	0.0318	0.0104
Co 228.615	0.5813	-0.4238u	0.8116
Cr 267.716	0.8284	0.8847	0.9368
Cu 324.754	0.1011	0.4929	-0.1569u
Fe 271.441	435.853	430.678	426.971
K 766.491	94.5839	95.4208	95.2482
Mg 279.078	592.502	598.823	597.395
Mn 257.610	0.9051	0.9308	0.9247
Mo 202.032	0.6578	-0.0543u	-0.3766u
Na 330.237	6086.89	6128.76	6242.54
Ni 231.604	1.4208	1.3506	2.2841
Pb 220.353	0.2427	2.8495	2.8279
Sb 206.834	1.3825	-0.6700u	1.3006
Se 196.026	2.5800	-0.4949u	1.9171
Sn 189.925	-2.2689u	-3.8496u	-0.9131u
Sr 216.596	5.6092	5.5848	5.6346
Ti 334.941	1.1273	1.1249	1.1122
Tl 190.794	-2.3034u	-1.7211u	-0.7013u
V 292.401	0.4540	0.7845	0.4960
Zn 206.200	0.9404	1.7532	2.3435

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0186	ppb	0.2300	1235.3	-12.0269
Al 308.215	679.646	ppb	4.9464	0.7	4083.94
As 188.980	2.2106	ppb	1.7008	76.9	-5.8342
B 249.678	18.9770	ppb	0.3533	1.9	462.963
Ba 389.178	3.3769	ppb	0.2915	8.6	60.0573
Be 313.042	0.0129	ppb	0.0032	24.6	-242.892
Ca 370.602	254.8	ppb	2.225	0.9	758.6
Cd 226.502	0.0687	ppb	0.0831	121.0	12.0176
Co 228.615	0.3231	ppb	0.6569	203.4	0.1980
Cr 267.716	0.8833	ppb	0.0542	6.1	69.1197
Cu 324.754	0.1457	ppb	0.3272	224.6	137.119
Fe 271.441	431.167	ppb	4.4614	1.0	790.213
K 766.491	95.0843	ppb	0.4419	0.5	4477.42
Mg 279.078	596.240	ppb	3.3148	0.6	1687.04
Mn 257.610	0.9202	ppb	0.0134	1.5	329.068
Mo 202.032	0.0757	ppb	0.5293	699.2	4.9185

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Na 330.237	6152.73	ppb	80.5491	1.3	318.994
Ni 231.604	1.6851	ppb	0.5199	30.9	1.0446
Pb 220.353	1.9734	ppb	1.4989	76.0	12.9663
Sb 206.834	0.6710	ppb	1.1621	173.2	4.8109
Se 196.026	1.3341	ppb	1.6183	121.3	-1.1858
Sn 189.925	-2.3439	ppb	1.4697	62.7	-13.9619
Sr 216.596	5.6095	ppb	0.0249	0.4	89.6148
Ti 334.941	1.1215	ppb	0.0081	0.7	266.924
Tl 190.794	-1.5753	ppb	0.8109	51.5	-13.5667
V 292.401	0.5782	ppb	0.1799	31.1	10.3352
Zn 206.200	1.6790	ppb	0.7045	42.0	8.7345

Cont Calib Verif (CCV) **9/25/2013, 11:45:13 PM** **Rack 3, Tube 37**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	482.835	497.592	498.881
Al 308.215	4797.82	4947.28	4921.89
As 188.980	480.240	496.526	494.860
B 249.678	486.079	502.669	500.384
Ba 389.178	4835.81	4990.54	4963.03
Be 313.042	501.335	517.579	515.176
Ca 370.602	4942	5102	5071
Cd 226.502	493.174	508.236	505.696
Co 228.615	500.479	516.323	515.288
Cr 267.716	5022.96	5181.29	5159.02
Cu 324.754	5068.49	5191.77	5202.62
Fe 271.441	4804.15	4963.48	4948.25
K 766.491	10094.0	10385.4	10321.2
Mg 279.078	4974.19	5130.97	5104.84
Mn 257.610	5048.23	5201.07	5175.42
Mo 202.032	495.726	511.853	509.959
Na 330.237	7021.18	7022.53	7166.45
Ni 231.604	2480.89	2543.61	2558.20
Pb 220.353	491.221	506.765	508.941
Sb 206.834	970.765	998.489	985.571
Se 196.026	5000.16	5177.90	5144.43
Sn 189.925	4980.88	5109.49	5146.81
Sr 216.596	2519.78	2598.77	2586.12
Ti 334.941	478.012	493.219	491.077
Tl 190.794	4993.41	5151.11	5124.98
V 292.401	4908.69	5070.97	5044.00
Zn 206.200	2516.97	2586.86	2579.42

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	493.103	ppb	8.9157	1.8	41878.2	98.62052
Al 308.215	4888.99	ppb	79.9749	1.6	28630.9	97.77989
As 188.980	490.542	ppb	8.9608	1.8	437.180	98.10838
B 249.678	496.377	ppb	8.9914	1.8	9508.67	99.27547
Ba 389.178	4929.79	ppb	82.5481	1.7	118396	98.59584
Be 313.042	511.363	ppb	8.7674	1.7	977818	102.27264
Ca 370.602	5038	ppb	84.93	1.7	15497	100.76558
Cd 226.502	502.369	ppb	8.0635	1.6	27294.4	100.47382
Co 228.615	510.697	ppb	8.8639	1.7	6942.55	102.13940

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Cr 267.716	5121.09	ppb	85.7123	1.7	292602	102.42180
Cu 324.754	5154.29	ppb	74.5075	1.4	338234	103.08588
Fe 271.441	4905.29	ppb	87.9214	1.8	8973.45	98.10589
K 766.491	10266.9	ppb	153.086	1.5	439897	102.66872
Mg 279.078	5070.00	ppb	83.9982	1.7	14053.0	101.39997
Mn 257.610	5141.58	ppb	81.8477	1.6	1308275	102.83151
Mo 202.032	505.846	ppb	8.8153	1.7	4055.76	101.16916
Na 330.237	7070.05	ppb	83.4840	1.2	324.680	94.26738
Ni 231.604	2527.57	ppb	41.0749	1.6	9476.79	101.10271
Pb 220.353	502.309	ppb	9.6642	1.9	1020.78	100.46184
Sb 206.834	984.942	ppb	13.8729	1.4	1666.85	98.49417
Se 196.026	5107.50	ppb	94.4518	1.8	3134.56	102.14990
Sn 189.925	5079.06	ppb	87.0498	1.7	5283.07	101.58115
Sr 216.596	2568.22	ppb	42.4284	1.7	39415.3	102.72887
Ti 334.941	487.436	ppb	8.2313	1.7	139581	97.48717
Tl 190.794	5089.83	ppb	84.5218	1.7	7165.95	101.79669
V 292.401	5007.89	ppb	86.9613	1.7	145370	100.15774
Zn 206.200	2561.08	ppb	38.3811	1.5	4175.86	102.44336

Cont Calib Blank (CCB) **9/25/2013, 11:49:50 PM** **Rack 3, Tube 38**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	0.0187	-0.0844u	0.1614
Al 308.215	-2.4102u	-2.0195u	-3.8468u
As 188.980	4.1630	1.0930	2.7493
B 249.678	1.5468	1.2741	1.2081
Ba 389.178	0.4482	1.0654	0.1430
Be 313.042	0.0018	0.0006	0.0117
Ca 370.602	-4.514u	1.554	-2.624u
Cd 226.502	0.1349	0.1467	0.1148
Co 228.615	0.2186	0.5815	-0.5956u
Cr 267.716	0.1129	-0.0862u	0.1910
Cu 324.754	-0.0852u	-0.3235u	-0.2907u
Fe 271.441	1.2822	3.4217	-4.1672u
K 766.491	-3.9858u	-3.3639u	-4.2893u
Mg 279.078	1.0185	1.2323	2.5789
Mn 257.610	-0.1927u	-0.2127u	-0.2302u
Mo 202.032	1.6182	0.9056	1.3666
Na 330.237	-21.4691u	18.6867	-63.7132u
Ni 231.604	1.2771	0.4692	1.0372
Pb 220.353	3.4055	0.7083	3.8932
Sb 206.834	4.5294	2.6872	-3.8078u
Se 196.026	0.1766	2.0004	4.8492
Sn 189.925	-0.9893u	-2.2286u	1.0880
Sr 216.596	0.6496	0.3112	-0.1807u
Ti 334.941	0.1003	0.0844	0.0878
Tl 190.794	0.9324	-0.0954u	0.8636
V 292.401	0.0823	0.0944	0.3534
Zn 206.200	-0.2729u	0.5315	-0.7894u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.0319	ppb	0.1234	387.3	-7.4525	0.03187
Al 308.215	-2.7588	ppb	0.9622	34.9	-30.5067	-2.75884

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
As 188.980	2.6684	ppb	1.5366	57.6	-5.4227	2.66844
B 249.678	1.3430	ppb	0.1796	13.4	129.527	1.34300
Ba 389.178	0.5522	ppb	0.4699	85.1	-10.0131	0.55220
Be 313.042	0.0047	ppb	0.0061	129.6	-258.207	0.00470
Ca 370.602	-1.861	ppb	3.105	166.8	5.089	-1.86112
Cd 226.502	0.1322	ppb	0.0161	12.2	13.7099	0.13215
Co 228.615	0.0682	ppb	0.6028	884.2	-3.3512	0.06818
Cr 267.716	0.0725	ppb	0.1429	197.0	22.5402	0.07255
Cu 324.754	-0.2331	ppb	0.1291	55.4	112.145	-0.23315
Fe 271.441	0.1789	ppb	3.9129	2187.1	13.3452	0.17891
K 766.491	-3.8797	ppb	0.4718	12.2	241.110	-3.87966
Mg 279.078	1.6099	ppb	0.8460	52.5	29.1475	1.60992
Mn 257.610	-0.2119	ppb	0.0188	8.9	34.4439	-0.21186
Mo 202.032	1.2968	ppb	0.3614	27.9	14.7493	1.29679
Na 330.237	-22.1652	ppb	41.2044	185.9	39.3325	-22.16521
Ni 231.604	0.9278	ppb	0.4149	44.7	-1.8091	0.92782
Pb 220.353	2.6690	ppb	1.7154	64.3	14.3437	2.66899
Sb 206.834	1.1362	ppb	4.3797	385.5	5.5115	1.13624
Se 196.026	2.3421	ppb	2.3549	100.5	-0.5693	2.34207
Sn 189.925	-0.7100	ppb	1.6758	236.0	-12.2613	-0.70995
Sr 216.596	0.2600	ppb	0.4175	160.6	6.8149	0.26004
Ti 334.941	0.0908	ppb	0.0084	9.2	-30.6676	0.09082
Tl 190.794	0.5669	ppb	0.5746	101.4	-10.5094	0.56688
V 292.401	0.1767	ppb	0.1531	86.7	-1.4916	0.17670
Zn 206.200	-0.1769	ppb	0.6656	376.2	5.6962	-0.17694

640-45127-a-1-b (Samp) **9/25/2013, 11:54:27 PM** **Rack 3, Tube 39**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.0373u	0.0006u	0.2478
Al 308.215	51.9876	49.6126	53.3722
As 188.980	13.1254	14.0443	14.4309
B 249.678	786.748	786.162	787.573
Ba 389.178	60.1925	59.7741	60.7434
Be 313.042	-0.0348	-0.0467	-0.0363
Ca 370.602	299355	296349	298383
Cd 226.502	0.0865	0.0812	0.0925
Co 228.615	8.8170	9.6950	8.6345
Cr 267.716	1.6196	1.6669	1.7808
Cu 324.754	-0.3376u	-0.5050u	-0.3676u
Fe 271.441	82.1178	80.9993	88.1199
K 766.491	6474.12	6470.56	6455.44
Mg 279.078	99889.2	99872.4	100098
Mn 257.610	56.5260	56.5583	56.4408
Mo 202.032	2.2496	2.8785	2.5696
Na 330.237	50460.0	50367.8	50535.0
Ni 231.604	24.0565	26.1231	24.8169
Pb 220.353	2.9726	2.0456	4.3022
Sb 206.834	2.4057	0.1360	-2.2094u
Se 196.026	1.8058	-1.3853u	-5.1909u
Sn 189.925	-0.5446u	-2.5526u	-2.5884u
Sr 216.596	284.903	285.119	285.271
Ti 334.941	-0.0837	-0.1563	-0.0022

Label	Replicates	Concentration	
Tl 190.794	0.6552	1.5653	-1.9850u
V 292.401	1.2939	1.9958	1.6129
Zn 206.200	1.5906	4.1855	3.1047

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0704	ppb	0.1548	219.9	-20.8866
Al 308.215	51.6575	ppb	1.9014	3.7	297.030
As 188.980	13.8669	ppb	0.6705	4.8	4.7402
B 249.678	786.828	ppb	0.7087	0.1	15032.1
Ba 389.178	60.2366	ppb	0.4862	0.8	1694.87
Be 313.042	-0.0393	ppb	0.0065	16.6	-244.449
Ca 370.602	298029	ppb	1534	0.5	912585
Cd 226.502	0.0867	ppb	0.0057	6.5	13.0541
Co 228.615	9.0489	ppb	0.5670	6.3	118.608
Cr 267.716	1.6891	ppb	0.0829	4.9	116.211
Cu 324.754	-0.4034	ppb	0.0893	22.1	101.031
Fe 271.441	83.7457	ppb	3.8292	4.6	165.205
K 766.491	6466.71	ppb	9.9136	0.2	277225
Mg 279.078	99953.3	ppb	125.878	0.1	278735
Mn 257.610	56.5084	ppb	0.0607	0.1	15368.5
Mo 202.032	2.5659	ppb	0.3145	12.3	24.9331
Na 330.237	50454.3	ppb	83.7383	0.2	2326.50
Ni 231.604	24.9988	ppb	1.0453	4.2	88.4812
Pb 220.353	3.1068	ppb	1.1342	36.5	15.2407
Sb 206.834	0.1107	ppb	2.3076	2083.7	3.8544
Se 196.026	-1.5901	ppb	3.5028	220.3	-2.9641
Sn 189.925	-1.8952	ppb	1.1697	61.7	-13.3151
Sr 216.596	285.098	ppb	0.1851	0.1	4429.03
Ti 334.941	-0.0808	ppb	0.0771	95.4	379.090
Tl 190.794	0.0785	ppb	1.8441	2348.5	-11.2076
V 292.401	1.6342	ppb	0.3514	21.5	41.5301
Zn 206.200	2.9603	ppb	1.3034	44.0	10.8237

640-45127-a-2-b (Samp) **9/25/2013, 11:59:04 PM** **Rack 3, Tube 40**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	-0.3171u	-0.0671u	-0.1107u
Al 308.215	26.6871	29.8566	27.1775
As 188.980	16.3601	18.8782	22.0393
B 249.678	126.432	126.930	126.439
Ba 389.178	47.3741	45.7218	45.6588
Be 313.042	-0.0277	-0.0361	-0.0388u
Ca 370.602	208114	207940	207050
Cd 226.502	0.0759	0.0977	0.1498
Co 228.615	3.5963	3.5484	3.0162
Cr 267.716	0.6312	0.2609	0.5122
Cu 324.754	-0.4673u	-0.0710u	-0.0406u
Fe 271.441	3421.00	3430.09	3433.72
K 766.491	1692.28	1696.39	1695.00
Mg 279.078	26620.6	26622.5	26591.8
Mn 257.610	1028.05	1028.34	1026.39
Mo 202.032	1.0453	1.3993	0.5861
Na 330.237	10213.9	10043.0	10153.5

Label	Replicates Concentration		
Ni 231.604	10.0604	10.1985	9.9935
Pb 220.353	2.7829	3.3395	1.6705
Sb 206.834	-1.6562u	0.6935	-2.5173u
Se 196.026	-4.6353u	1.4737	-1.8288u
Sn 189.925	0.2431	2.7740	-1.2128u
Sr 216.596	129.615	129.808	129.094
Ti 334.941	0.6023	0.6845	0.6385
Tl 190.794	0.1174u	-3.2873u	3.7786
V 292.401	1.3276	0.6516	1.0610
Zn 206.200	1.6654	1.6996	1.4389

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1650	ppb	0.1336	81.0	-26.4327
Al 308.215	27.9070	ppb	1.7061	6.1	154.085
As 188.980	19.0925	ppb	2.8457	14.9	9.4357
B 249.678	126.600	ppb	0.2860	0.2	2497.02
Ba 389.178	46.2516	ppb	0.9726	2.1	1164.79
Be 313.042	-0.0342	ppb	0.0058	17.0	-260.437
Ca 370.602	207701	ppb	570.8	0.3	635769
Cd 226.502	0.1078	ppb	0.0380	35.2	27.0229
Co 228.615	3.3870	ppb	0.3220	9.5	41.8847
Cr 267.716	0.4681	ppb	0.1890	40.4	51.5447
Cu 324.754	-0.1930	ppb	0.2381	123.4	116.083
Fe 271.441	3428.27	ppb	6.5546	0.2	6192.70
K 766.491	1694.56	ppb	2.0926	0.1	72945.3
Mg 279.078	26611.6	ppb	17.1993	0.1	74208.3
Mn 257.610	1027.59	ppb	1.0530	0.1	261783
Mo 202.032	1.0103	ppb	0.4077	40.4	12.2575
Na 330.237	10136.8	ppb	86.6456	0.9	498.728
Ni 231.604	10.0842	ppb	0.1046	1.0	32.6364
Pb 220.353	2.5977	ppb	0.8498	32.7	14.7564
Sb 206.834	-1.1600	ppb	1.6619	143.3	1.9374
Se 196.026	-1.6634	ppb	3.0579	183.8	-2.6998
Sn 189.925	0.6014	ppb	2.0174	335.4	-10.7784
Sr 216.596	129.506	ppb	0.3696	0.3	2028.41
Ti 334.941	0.6418	ppb	0.0412	6.4	250.118
Tl 190.794	0.2029	ppb	3.5337	1741.8	-11.9873
V 292.401	1.0134	ppb	0.3405	33.6	23.1556
Zn 206.200	1.6013	ppb	0.1417	8.8	8.6422

640-45134-h-2-c (Samp) **9/26/2013, 12:03:41 AM** **Rack 3, Tube 41**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.4865	0.0419	0.3076
Al 308.215	176.236	171.509	180.450
As 188.980	-2.3330u	-0.8997u	-0.4514u
B 249.678	23.4894	22.2077	23.1586
Ba 389.178	19.6828	19.3762	19.8035
Be 313.042	0.1401	0.1440	0.1424
Ca 370.602	6695	6569	6771
Cd 226.502	0.4940	0.5336	0.5931
Co 228.615	1.3015	0.7706	1.3456
Cr 267.716	1.2350	1.0835	1.0580

Label	Replicates	Concentration	
Cu 324.754	0.6062	0.2182	0.7249
Fe 271.441	31.2796	32.8596	34.7740
K 766.491	3238.82	3172.72	3252.21
Mg 279.078	2668.72	2614.55	2673.59
Mn 257.610	72.3705	71.0264	72.9890
Mo 202.032	1.6575	1.5101	1.3023
Na 330.237	11788.5	11480.8	11808.9
Ni 231.604	3.0917	3.4163	3.5552
Pb 220.353	-0.4963u	1.7708	0.8924
Sb 206.834	0.4149	-2.1212u	0.5013
Se 196.026	-3.2327u	4.0105	2.4548
Sn 189.925	-0.0324u	-1.5183u	-0.3037u
Sr 216.596	13.8280	13.4328	14.0526
Ti 334.941	1.3891	1.2526	1.2529
Tl 190.794	2.3458	0.4899	1.2299
V 292.401	1.0069	0.8979	0.5570
Zn 206.200	12.5021	13.1105	12.1970

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.2787	ppb	0.2237	80.3	13.1765
Al 308.215	176.065	ppb	4.4730	2.5	1047.57
As 188.980	-1.2280	ppb	0.9828	80.0	-8.9571
B 249.678	22.9519	ppb	0.6654	2.9	539.428
Ba 389.178	19.6208	ppb	0.2203	1.1	455.153
Be 313.042	0.1422	ppb	0.0020	1.4	5.6012
Ca 370.602	6678	ppb	102.0	1.5	20460
Cd 226.502	0.5402	ppb	0.0499	9.2	35.9621
Co 228.615	1.1392	ppb	0.3200	28.1	11.2291
Cr 267.716	1.1255	ppb	0.0957	8.5	83.3068
Cu 324.754	0.5165	ppb	0.2650	51.3	161.334
Fe 271.441	32.9710	ppb	1.7499	5.3	72.6031
K 766.491	3221.25	ppb	42.5566	1.3	138298
Mg 279.078	2652.29	ppb	32.7694	1.2	7418.77
Mn 257.610	72.1286	ppb	1.0034	1.4	18463.4
Mo 202.032	1.4900	ppb	0.1784	12.0	16.2973
Na 330.237	11692.7	ppb	183.843	1.6	569.989
Ni 231.604	3.3544	ppb	0.2379	7.1	7.2934
Pb 220.353	0.7223	ppb	1.1430	158.3	10.4401
Sb 206.834	-0.4017	ppb	1.4898	370.9	3.0409
Se 196.026	1.0776	ppb	3.8130	353.9	-1.3232
Sn 189.925	-0.6181	ppb	0.7913	128.0	-12.1571
Sr 216.596	13.7712	ppb	0.3138	2.3	215.461
Ti 334.941	1.2982	ppb	0.0788	6.1	326.580
Tl 190.794	1.3552	ppb	0.9343	68.9	-9.4436
V 292.401	0.8206	ppb	0.2347	28.6	17.1269
Zn 206.200	12.6032	ppb	0.4651	3.7	26.6032

680-94495-g-1-b (Samp) **9/26/2013, 12:08:18 AM** **Rack 3, Tube 42**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	-0.0020u	-0.0611u	-0.0919u
Al 308.215	140.786	137.940	135.754
As 188.980	2.1857	1.3722	0.2998

Label	Replicates Concentration		
B 249.678	42.3804	42.4614	41.4021
Ba 389.178	26.3178	26.5027	26.2911
Be 313.042	0.0251	0.0252	0.0256
Ca 370.602	11322	11264	10997
Cd 226.502	0.1482	0.0758	0.1582
Co 228.615	-0.1535u	-0.0543u	-0.0749u
Cr 267.716	0.3944	0.5452	0.3926
Cu 324.754	3.1209	3.1198	3.0323
Fe 271.441	78.8289	81.0308	77.0179
K 766.491	1894.31	1880.86	1849.66
Mg 279.078	1312.27	1299.45	1280.42
Mn 257.610	27.8883	27.6325	27.1945
Mo 202.032	1.6313	1.9066	1.9654
Na 330.237	43346.5	42807.3	42363.7
Ni 231.604	0.9167	1.0305	0.8514
Pb 220.353	2.6959	3.9862	0.4863
Sb 206.834	-1.2845u	-0.4816u	0.0647
Se 196.026	-6.3465u	-1.3745u	3.9093
Sn 189.925	-0.8525u	0.9342	-0.3548u
Sr 216.596	77.7518	77.5237	75.8214
Ti 334.941	4.0020	4.1033	3.9342
Tl 190.794	-2.8698u	1.1043	-2.2854u
V 292.401	1.3335	1.4839	1.6131
Zn 206.200	3.9630	2.0972	2.8261

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0517	ppb	0.0457	88.4	-18.3606
Al 308.215	138.160	ppb	2.5231	1.8	818.985
As 188.980	1.2859	ppb	0.9459	73.6	-6.6767
B 249.678	42.0813	ppb	0.5896	1.4	902.250
Ba 389.178	26.3705	ppb	0.1152	0.4	613.627
Be 313.042	0.0253	ppb	0.0003	1.1	-219.699
Ca 370.602	11194	ppb	173.4	1.5	34286
Cd 226.502	0.1274	ppb	0.0450	35.3	13.4711
Co 228.615	-0.0942	ppb	0.0524	55.6	-5.4648
Cr 267.716	0.4441	ppb	0.0876	19.7	44.7653
Cu 324.754	3.0910	ppb	0.0509	1.6	330.262
Fe 271.441	78.9592	ppb	2.0096	2.5	155.333
K 766.491	1874.95	ppb	22.9029	1.2	80667.2
Mg 279.078	1297.38	ppb	16.0243	1.2	3641.69
Mn 257.610	27.5718	ppb	0.3508	1.3	7115.01
Mo 202.032	1.8344	ppb	0.1784	9.7	19.0599
Na 330.237	42839.2	ppb	492.174	1.1	1981.43
Ni 231.604	0.9329	ppb	0.0906	9.7	-1.7873
Pb 220.353	2.3895	ppb	1.7700	74.1	13.7881
Sb 206.834	-0.5671	ppb	0.6786	119.7	2.7564
Se 196.026	-1.2706	ppb	5.1287	403.6	-2.7779
Sn 189.925	-0.0910	ppb	0.9221	1013.2	-11.5925
Sr 216.596	77.0323	ppb	1.0548	1.4	1188.63
Ti 334.941	4.0132	ppb	0.0851	2.1	1095.67
Tl 190.794	-1.3503	ppb	2.1457	158.9	-13.2373
V 292.401	1.4768	ppb	0.1400	9.5	35.9822
Zn 206.200	2.9621	ppb	0.9403	31.7	10.8316

680-94495-g-2-c (Samp) **9/26/2013, 12:12:55 AM** **Rack 3, Tube 43**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.0040u	0.0680u	-0.0236u
Al 308.215	15.0157	15.6834	15.5701
As 188.980	0.8154	-1.2505u	0.3451
B 249.678	44.2843	43.4286	43.4232
Ba 389.178	24.9006	25.3540	25.4355
Be 313.042	-0.0007	-0.0009	0.0033
Ca 370.602	36968	37035	36907
Cd 226.502	0.1133	0.1133	0.2381
Co 228.615	0.4265	0.2175	-0.1832u
Cr 267.716	0.1700	0.2473	0.0999
Cu 324.754	2.8372	3.0659	3.0473
Fe 271.441	21.1902	21.9545	19.2245
K 766.491	2497.29	2494.43	2483.92
Mg 279.078	4393.02	4373.15	4372.56
Mn 257.610	1.8584	1.8757	1.8076
Mo 202.032	2.0462	1.7484	1.9320
Na 330.237	21728.8	21410.5	21436.4
Ni 231.604	0.9545	1.5781	1.5296
Pb 220.353	1.2455	1.4914	0.1795
Sb 206.834	-1.1277u	1.7051	-3.3825u
Se 196.026	0.4969	0.5423	3.7543
Sn 189.925	-0.2113u	1.2957	0.0604
Sr 216.596	162.691	159.942	160.402
Ti 334.941	0.3588	0.3642	0.3621
Tl 190.794	-0.3766u	-0.9931u	-2.0100u
V 292.401	0.6843	0.6030	0.5601
Zn 206.200	2.5314	1.9808	2.3465

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0135	ppb	0.0482	358.1	-17.3083
Al 308.215	15.4231	ppb	0.3573	2.3	79.0687
As 188.980	-0.0300	ppb	1.0828	3610.8	-7.8720
B 249.678	43.7121	ppb	0.4956	1.1	933.345
Ba 389.178	25.2300	ppb	0.2882	1.1	594.520
Be 313.042	0.0006	ppb	0.0024	424.1	-255.566
Ca 370.602	36970	ppb	64.08	0.2	113214
Cd 226.502	0.1549	ppb	0.0721	46.5	14.9406
Co 228.615	0.1536	ppb	0.3098	201.7	-2.1981
Cr 267.716	0.1724	ppb	0.0737	42.8	28.6759
Cu 324.754	2.9834	ppb	0.1270	4.3	323.192
Fe 271.441	20.7897	ppb	1.4084	6.8	50.5114
K 766.491	2491.88	ppb	7.0353	0.3	107076
Mg 279.078	4379.58	ppb	11.6456	0.3	12236.7
Mn 257.610	1.8472	ppb	0.0354	1.9	598.166
Mo 202.032	1.9089	ppb	0.1502	7.9	19.6627
Na 330.237	21525.2	ppb	176.779	0.8	1015.67
Ni 231.604	1.3541	ppb	0.3469	25.6	-0.2094
Pb 220.353	0.9722	ppb	0.6974	71.7	10.9275
Sb 206.834	-0.9350	ppb	2.5493	272.6	2.1548
Se 196.026	1.5978	ppb	1.8677	116.9	-1.0253
Sn 189.925	0.3816	ppb	0.8032	210.5	-11.0947
Sr 216.596	161.012	ppb	1.4726	0.9	2483.20

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ti 334.941	0.3617	ppb	0.0027	0.7	65.5985
Tl 190.794	-1.1266	ppb	0.8248	73.2	-12.8996
V 292.401	0.6158	ppb	0.0630	10.2	11.0821
Zn 206.200	2.2862	ppb	0.2802	12.3	9.7262

680-94495-g-2-cSD^5 (Samp) **9/26/2013, 12:17:33 AM** **Rack 3, Tube 44**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.0648u	0.1023	0.0740
Al 308.215	0.8219	-0.9689u	0.0562
As 188.980	0.9976	3.2234	-1.8981u
B 249.678	8.8659	8.4879	8.8034
Ba 389.178	5.1440	5.0329	4.8994
Be 313.042	0.0029	0.0026	0.0027
Ca 370.602	7177	7170	7270
Cd 226.502	0.1481	0.0068	0.1607
Co 228.615	-0.3083u	-0.4592u	0.4887
Cr 267.716	0.1747	0.0408	0.0063
Cu 324.754	0.7023	0.7950	0.5441
Fe 271.441	2.9887	-2.5143u	5.1298
K 766.491	472.766	471.104	474.069
Mg 279.078	868.149	871.229	870.995
Mn 257.610	0.1751	0.2023	0.1985
Mo 202.032	0.7149	0.6711	0.8458
Na 330.237	4143.33	3983.21	4350.81
Ni 231.604	0.8682	1.4438	1.1315
Pb 220.353	-0.7416u	0.6268	1.7789
Sb 206.834	2.3191	-0.5144u	-2.3126u
Se 196.026	3.9261	3.7389	12.0516
Sn 189.925	-1.6553u	-0.4688u	0.4239
Sr 216.596	32.3082	31.9848	31.5450
Ti 334.941	0.0656	0.0945	0.0396
Tl 190.794	-0.0066u	0.1348	0.0850
V 292.401	0.0605	0.2810	0.2850
Zn 206.200	-0.7787u	-0.2507u	0.0904

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0372	ppb	0.0894	240.5	-8.6491
Al 308.215	-0.0303	ppb	0.8985	2969.2	-14.0881
As 188.980	0.7743	ppb	2.5681	331.7	-7.1416
B 249.678	8.7190	ppb	0.2026	2.3	269.467
Ba 389.178	5.0254	ppb	0.1225	2.4	99.7630
Be 313.042	0.0027	ppb	0.0002	5.8	-259.832
Ca 370.602	7206	ppb	56.13	0.8	22074
Cd 226.502	0.1052	ppb	0.0854	81.2	12.2398
Co 228.615	-0.0929	ppb	0.5093	548.0	-5.5211
Cr 267.716	0.0739	ppb	0.0889	120.3	22.7025
Cu 324.754	0.6805	ppb	0.1268	18.6	172.064
Fe 271.441	1.8681	ppb	3.9433	211.1	16.3683
K 766.491	472.646	ppb	1.4861	0.3	20639.6
Mg 279.078	870.124	ppb	1.7150	0.2	2450.92
Mn 257.610	0.1920	ppb	0.0147	7.7	145.072
Mo 202.032	0.7439	ppb	0.0909	12.1	10.3093

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Na 330.237	4159.12	ppb	184.306	4.4	228.791
Ni 231.604	1.1478	ppb	0.2882	25.1	-0.9830
Pb 220.353	0.5547	ppb	1.2618	227.5	10.0875
Sb 206.834	-0.1693	ppb	2.3350	1379.3	3.4133
Se 196.026	6.5722	ppb	4.7462	72.2	2.0273
Sn 189.925	-0.5667	ppb	1.0431	184.1	-12.1064
Sr 216.596	31.9460	ppb	0.3831	1.2	494.939
Ti 334.941	0.0666	ppb	0.0275	41.2	-33.9036
Tl 190.794	0.0711	ppb	0.0718	101.0	-11.2091
V 292.401	0.2088	ppb	0.1285	61.5	-0.4746
Zn 206.200	-0.3130	ppb	0.4379	139.9	5.4736

680-94495-g-2-c PDS (Samp) **9/26/2013, 12:22:10 AM** **Rack 3, Tube 45**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	48.5889	48.6383	50.0673
Al 308.215	1863.69	1868.81	1910.50
As 188.980	188.595	194.553	184.906
B 249.678	493.845	494.331	507.068
Ba 389.178	213.312	214.296	218.568
Be 313.042	48.3113	48.2886	49.6334
Ca 370.602	38009	38079	38913
Cd 226.502	47.2290	47.1886	48.2868
Co 228.615	188.419	188.343	194.192
Cr 267.716	190.444	190.835	195.724
Cu 324.754	198.173	197.889	204.220
Fe 271.441	1877.26	1873.74	1922.26
K 766.491	4469.13	4468.89	4579.01
Mg 279.078	6210.92	6198.88	6373.02
Mn 257.610	197.956	198.276	202.882
Mo 202.032	192.461	191.775	197.130
Na 330.237	23148.4	23139.5	23895.9
Ni 231.604	186.199	187.633	192.475
Pb 220.353	186.233	186.385	191.919
Sb 206.834	181.735	179.536	183.549
Se 196.026	185.257	201.945	199.966
Sn 189.925	193.886	193.269	199.991
Sr 216.596	347.391	347.073	355.987
Ti 334.941	187.148	188.038	192.320
Tl 190.794	183.755	183.492	185.485
V 292.401	188.869	189.291	193.857
Zn 206.200	189.886	190.196	198.555

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	49.0982	ppb	0.8397	1.7	4151.95
Al 308.215	1881.00	ppb	25.6770	1.4	11297.9
As 188.980	189.351	ppb	4.8675	2.6	163.937
B 249.678	498.415	ppb	7.4981	1.5	9555.36
Ba 389.178	215.392	ppb	2.7942	1.3	5170.37
Be 313.042	48.7444	ppb	0.7699	1.6	92965.1
Ca 370.602	38334	ppb	502.8	1.3	117349
Cd 226.502	47.5681	ppb	0.6227	1.3	2596.26
Co 228.615	190.318	ppb	3.3551	1.8	2579.44

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Cr 267.716	192.334	ppb	2.9420	1.5	11008.1
Cu 324.754	200.094	ppb	3.5758	1.8	13260.0
Fe 271.441	1891.09	ppb	27.0563	1.4	3449.53
K 766.491	4505.68	ppb	63.5099	1.4	193280
Mg 279.078	6260.94	ppb	97.2484	1.6	17478.3
Mn 257.610	199.705	ppb	2.7560	1.4	50959.9
Mo 202.032	193.789	ppb	2.9139	1.5	1560.04
Na 330.237	23394.6	ppb	434.135	1.9	1096.79
Ni 231.604	188.769	ppb	3.2886	1.7	702.460
Pb 220.353	188.179	ppb	3.2399	1.7	387.567
Sb 206.834	181.607	ppb	2.0095	1.1	296.824
Se 196.026	195.723	ppb	9.1175	4.7	118.197
Sn 189.925	195.716	ppb	3.7157	1.9	192.530
Sr 216.596	350.151	ppb	5.0570	1.4	5384.94
Ti 334.941	189.169	ppb	2.7653	1.5	54153.6
Tl 190.794	184.244	ppb	1.0829	0.6	248.940
V 292.401	190.672	ppb	2.7660	1.5	5500.47
Zn 206.200	192.879	ppb	4.9175	2.5	320.821

680-94495-e-2-b ms (Samp) **9/26/2013, 12:26:47 AM** **Rack 3, Tube 46**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	55.6088	56.1036	55.2505
Al 308.215	4781.29	4793.06	4780.33
As 188.980	97.4256	98.2957	97.2055
B 249.678	230.131	229.855	229.389
Ba 389.178	120.108	121.095	120.543
Be 313.042	49.2574	49.1878	49.1430
Ca 370.602	40284	40327	40229
Cd 226.502	48.4311	48.2927	48.0616
Co 228.615	48.7633	48.7398	49.3239
Cr 267.716	100.313	99.9621	100.219
Cu 324.754	104.400	102.655	103.106
Fe 271.441	4775.95	4771.32	4750.81
K 766.491	7626.83	7627.75	7615.75
Mg 279.078	9149.04	9140.34	9126.22
Mn 257.610	504.954	504.766	503.939
Mo 202.032	98.0920	98.8126	99.2906
Na 330.237	26108.7	25692.3	25962.5
Ni 231.604	97.8616	96.0478	96.4811
Pb 220.353	52.0822	48.6481	49.9524
Sb 206.834	44.3687	48.1140	45.4395
Se 196.026	101.525	97.9853	88.7817
Sn 189.925	191.719	192.209	193.743
Sr 216.596	252.805	250.503	250.282
Ti 334.941	94.7902	95.0359	94.8794
Tl 190.794	36.7717	37.4165	37.4000
V 292.401	98.0981	97.5465	97.5548
Zn 206.200	97.8776	100.188	98.3890

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	55.6543	ppb	0.4283	0.8	4715.67
Al 308.215	4784.90	ppb	7.0907	463	28823.6

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	97.6423	ppb	0.5765	0.6	80.7380
B 249.678	229.792	ppb	0.3751	0.2	4451.35
Ba 389.178	120.582	ppb	0.4947	0.4	2904.88
Be 313.042	49.1961	ppb	0.0577	0.1	93847.9
Ca 370.602	40280	ppb	49.17	0.1	123050
Cd 226.502	48.2618	ppb	0.1867	0.4	2645.81
Co 228.615	48.9423	ppb	0.3307	0.7	660.066
Cr 267.716	100.165	ppb	0.1815	0.2	5744.80
Cu 324.754	103.387	ppb	0.9056	0.9	6914.30
Fe 271.441	4766.03	ppb	13.3777	0.3	8611.18
K 766.491	7623.44	ppb	6.6805	0.1	326741
Mg 279.078	9138.53	ppb	11.5134	0.1	25495.4
Mn 257.610	504.553	ppb	0.5400	0.1	128554
Mo 202.032	98.7317	ppb	0.6034	0.6	796.726
Na 330.237	25921.2	ppb	211.263	0.8	1212.05
Ni 231.604	96.7969	ppb	0.9472	1.0	357.889
Pb 220.353	50.2276	ppb	1.7335	3.5	110.307
Sb 206.834	45.9741	ppb	1.9290	4.2	78.3018
Se 196.026	96.0973	ppb	6.5780	6.8	57.1517
Sn 189.925	192.557	ppb	1.0560	0.5	189.239
Sr 216.596	251.197	ppb	1.3975	0.6	3871.79
Ti 334.941	94.9018	ppb	0.1244	0.1	27166.8
Tl 190.794	37.1961	ppb	0.3676	1.0	40.5834
V 292.401	97.7331	ppb	0.3161	0.3	2816.19
Zn 206.200	98.8180	ppb	1.2133	1.2	167.322

680-94495-g-2-d msd (Samp) **9/26/2013, 12:31:24 AM** **Rack 3, Tube 47**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	56.0990	56.1233	56.8157
Al 308.215	4895.72	4888.76	4904.39
As 188.980	98.4412	106.111	107.370
B 249.678	232.349	233.123	233.843
Ba 389.178	122.802	122.816	123.095
Be 313.042	50.6690	50.6221	50.5340
Ca 370.602	39748	39571	39763
Cd 226.502	49.3604	49.2739	49.1468
Co 228.615	49.7221	50.3834	50.5882
Cr 267.716	102.288	102.155	101.987
Cu 324.754	104.220	106.639	105.633
Fe 271.441	4898.95	4895.44	4909.42
K 766.491	7629.63	7654.12	7622.36
Mg 279.078	9171.07	9169.47	9162.38
Mn 257.610	517.200	516.142	517.887
Mo 202.032	100.333	100.977	101.736
Na 330.237	25887.9	25752.5	25526.4
Ni 231.604	100.025	100.708	99.3399
Pb 220.353	50.6706	49.9633	50.7416
Sb 206.834	49.1960	46.5133	49.0280
Se 196.026	108.014	107.411	98.4763
Sn 189.925	193.001	196.002	195.186
Sr 216.596	249.816	249.404	250.665
Ti 334.941	97.5355	97.3181	97.5498

Label	Replicates Concentration		
Tl 190.794	37.3545	37.4598	41.9530
V 292.401	100.705	100.307	100.755
Zn 206.200	102.973	103.079	103.246

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	56.3460	ppb	0.4070	0.7	4774.62
Al 308.215	4896.29	ppb	7.8296	0.2	29494.9
As 188.980	103.974	ppb	4.8330	4.6	86.4839
B 249.678	233.105	ppb	0.7473	0.3	4513.86
Ba 389.178	122.905	ppb	0.1649	0.1	2960.94
Be 313.042	50.6083	ppb	0.0685	0.1	96549.3
Ca 370.602	39694	ppb	106.5	0.3	121248
Cd 226.502	49.2604	ppb	0.1074	0.2	2700.59
Co 228.615	50.2312	ppb	0.4526	0.9	677.579
Cr 267.716	102.143	ppb	0.1509	0.1	5857.93
Cu 324.754	105.497	ppb	1.2151	1.2	7052.86
Fe 271.441	4901.27	ppb	7.2759	0.1	8855.15
K 766.491	7635.37	ppb	16.6418	0.2	327251
Mg 279.078	9167.64	ppb	4.6282	0.1	25576.3
Mn 257.610	517.076	ppb	0.8793	0.2	131741
Mo 202.032	101.015	ppb	0.7026	0.7	815.051
Na 330.237	25722.3	ppb	182.651	0.7	1202.94
Ni 231.604	100.024	ppb	0.6841	0.7	369.998
Pb 220.353	50.4585	ppb	0.4303	0.9	110.778
Sb 206.834	48.2457	ppb	1.5027	3.1	81.9773
Se 196.026	104.634	ppb	5.3411	5.1	62.3960
Sn 189.925	194.729	ppb	1.5514	0.8	191.503
Sr 216.596	249.962	ppb	0.6430	0.3	3852.80
Ti 334.941	97.4678	ppb	0.1299	0.1	27901.9
Tl 190.794	38.9224	ppb	2.6251	6.7	43.0021
V 292.401	100.589	ppb	0.2453	0.2	2898.82
Zn 206.200	103.099	ppb	0.1376	0.1	174.320

CRI (Samp) **9/26/2013, 12:36:01 AM** **Rack 3, Tube 48**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	10.2633	10.0149	10.3949
Al 308.215	210.422	209.851	214.966
As 188.980	24.6066	23.8088	25.3213
B 249.678	100.974	100.020	102.681
Ba 389.178	10.9344	10.1854	10.5170
Be 313.042	4.1699	4.1401	4.2545
Ca 370.602	520.6	514.9	533.3
Cd 226.502	5.0602	5.0957	5.1644
Co 228.615	10.2421	9.8751	10.6555
Cr 267.716	10.4700	10.4025	10.7159
Cu 324.754	20.7597	20.3496	21.0398
Fe 271.441	49.6874	50.2594	52.1899
K 766.491	1022.74	1018.75	1045.24
Mg 279.078	529.493	526.043	539.752
Mn 257.610	10.5607	10.4152	10.7486
Mo 202.032	10.8859	11.2735	10.6067
Na 330.237	1031.34	1034.37	1030.27

Label	Replicates Concentration		
Ni 231.604	41.8857	42.2847	44.0722
Pb 220.353	10.2417	10.7206	10.5897
Sb 206.834	20.2353	20.3326	18.2433
Se 196.026	19.9294	24.6932	20.8478
Sn 189.925	50.6885	50.9730	50.2547
Sr 216.596	9.8350	10.3019	10.6145
Ti 334.941	9.9875	9.8949	10.2112
Tl 190.794	26.2640	26.7380	25.0790
V 292.401	10.4169	10.4781	10.5805
Zn 206.200	20.3905	19.0857	20.0906

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	10.2244	ppb	0.1930	1.9	859.438
Al 308.215	211.746	ppb	2.8026	1.3	1261.21
As 188.980	24.5789	ppb	0.7566	3.1	14.4621
B 249.678	101.225	ppb	1.3482	1.3	2024.44
Ba 389.178	10.5456	ppb	0.3753	3.6	231.552
Be 313.042	4.1882	ppb	0.0594	1.4	7743.77
Ca 370.602	522.9	ppb	9.462	1.8	1614
Cd 226.502	5.1068	ppb	0.0530	1.0	283.927
Co 228.615	10.2576	ppb	0.3905	3.8	134.962
Cr 267.716	10.5295	ppb	0.1650	1.6	619.988
Cu 324.754	20.7164	ppb	0.3471	1.7	1486.79
Fe 271.441	50.7122	ppb	1.3113	2.6	105.926
K 766.491	1028.91	ppb	14.2794	1.4	44451.4
Mg 279.078	531.763	ppb	7.1306	1.3	1507.14
Mn 257.610	10.5749	ppb	0.1672	1.6	2783.73
Mo 202.032	10.9220	ppb	0.3348	3.1	92.0196
Na 330.237	1031.99	ppb	2.1291	0.2	86.7895
Ni 231.604	42.7475	ppb	1.1644	2.7	155.070
Pb 220.353	10.5173	ppb	0.2475	2.4	30.1243
Sb 206.834	19.6037	ppb	1.1791	6.0	35.3909
Se 196.026	21.8235	ppb	2.5273	11.6	11.3919
Sn 189.925	50.6387	ppb	0.3617	0.7	41.2671
Sr 216.596	10.2505	ppb	0.3923	3.8	159.331
Ti 334.941	10.0312	ppb	0.1626	1.6	2818.89
Tl 190.794	26.0270	ppb	0.8545	3.3	25.4166
V 292.401	10.4918	ppb	0.0826	0.8	296.579
Zn 206.200	19.8556	ppb	0.6834	3.4	38.4318

Cont Calib Verif (CCV) **9/26/2013, 12:40:38 AM** **Rack 3, Tube 49**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	485.216	484.119	487.688
Al 308.215	4792.54	4817.11	4791.90
As 188.980	475.523	485.117	476.462
B 249.678	489.280	491.515	491.166
Ba 389.178	4824.64	4835.26	4832.41
Be 313.042	501.221	501.857	501.256
Ca 370.602	4940	4961	4934
Cd 226.502	493.602	494.496	495.170
Co 228.615	501.366	502.710	501.703
Cr 267.716	5030.73	5039.69	5034.12

Label	Replicates	Concentration	
Cu 324.754	5073.51	5032.90	5063.01
Fe 271.441	4809.25	4816.26	4800.81
K 766.491	10043.9	10085.2	10052.0
Mg 279.078	4990.80	4996.06	4983.25
Mn 257.610	5042.22	5056.76	5044.62
Mo 202.032	494.970	494.311	495.640
Na 330.237	6728.40	6858.52	7103.24
Ni 231.604	2476.57	2497.96	2478.85
Pb 220.353	490.111	494.136	497.817
Sb 206.834	966.632	970.389	966.379
Se 196.026	5011.59	5023.32	4998.98
Sn 189.925	5024.32	5002.62	5003.12
Sr 216.596	2522.45	2527.89	2521.07
Ti 334.941	477.912	479.179	477.292
Tl 190.794	4994.53	5005.24	5002.54
V 292.401	4910.27	4922.93	4910.11
Zn 206.200	2523.77	2526.84	2525.93

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	485.674	ppb	1.8280	0.4	41247.5	97.13484
Al 308.215	4800.52	ppb	14.3709	0.3	28112.9	96.01033
As 188.980	479.034	ppb	5.2889	1.1	426.739	95.80676
B 249.678	490.654	ppb	1.2026	0.2	9400.32	98.13074
Ba 389.178	4830.77	ppb	5.4975	0.1	116017	96.61536
Be 313.042	501.445	ppb	0.3576	0.1	958847	100.28896
Ca 370.602	4945	ppb	14.36	0.3	15209	98.89812
Cd 226.502	494.423	ppb	0.7862	0.2	26862.7	98.88454
Co 228.615	501.926	ppb	0.6990	0.1	6823.26	100.38526
Cr 267.716	5034.85	ppb	4.5260	0.1	287675	100.69695
Cu 324.754	5056.47	ppb	21.0773	0.4	331817	101.12943
Fe 271.441	4808.77	ppb	7.7389	0.2	8797.38	96.17546
K 766.491	10060.4	ppb	21.8508	0.2	431057	100.60367
Mg 279.078	4990.04	ppb	6.4391	0.1	13832.0	99.80074
Mn 257.610	5047.87	ppb	7.7947	0.2	1284433	100.95735
Mo 202.032	494.974	ppb	0.6643	0.1	3968.65	98.99474
Na 330.237	6896.72	ppb	190.319	2.8	317.334	91.95626
Ni 231.604	2484.46	ppb	11.7506	0.5	9315.06	99.37834
Pb 220.353	494.021	ppb	3.8546	0.8	1004.09	98.80429
Sb 206.834	967.800	ppb	2.2457	0.2	1637.98	96.77999
Se 196.026	5011.30	ppb	12.1705	0.2	3075.48	100.22594
Sn 189.925	5010.02	ppb	12.3862	0.2	5211.11	100.20041
Sr 216.596	2523.80	ppb	3.6029	0.1	38733.7	100.95212
Ti 334.941	478.128	ppb	0.9620	0.2	136914	95.62550
Tl 190.794	5000.77	ppb	5.5685	0.1	7040.36	100.01540
V 292.401	4914.43	ppb	7.3573	0.1	142656	98.28867
Zn 206.200	2525.51	ppb	1.5741	0.1	4118.01	101.02060

Cont Calib Blank (CCB) **9/26/2013, 12:45:15 AM** **Rack 3, Tube 50**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	0.0070	0.2769	0.4965
Al 308.215	-1.8826u	-4.8971u	-1.1975u
As 188.980	3.8915	2.7964	9.0996

Label	Replicates Concentration		
B 249.678	1.6011	1.6101	1.2685
Ba 389.178	0.3685	0.1678	1.1282
Be 313.042	0.0095	0.0115	0.0067
Ca 370.602	-3.452u	-4.396u	-4.109u
Cd 226.502	0.0165	0.1220	0.1301
Co 228.615	0.1347	0.1201	-0.3581u
Cr 267.716	-0.0191u	0.0486	-0.1665u
Cu 324.754	-0.1427u	0.1212	0.2471
Fe 271.441	2.4783	-0.5099u	-0.2575u
K 766.491	-3.8800u	-4.4337u	-4.1248u
Mg 279.078	1.1865	4.1361	2.3826
Mn 257.610	-0.2068u	-0.2134u	-0.2273u
Mo 202.032	1.1589	0.5924	1.1888
Na 330.237	25.6382	-66.5750u	-14.4805u
Ni 231.604	0.6610	0.9044	0.0904
Pb 220.353	3.6522	2.8258	1.4192
Sb 206.834	5.9372	2.1307	2.1407
Se 196.026	-1.5653u	5.3382	0.3890
Sn 189.925	-0.7397u	0.7553	0.5463
Sr 216.596	0.3200	0.3030	0.4175
Ti 334.941	0.0995	0.1035	0.0687
Tl 190.794	3.2957	-0.6440u	-0.2225u
V 292.401	-0.0016u	0.0234	0.2158
Zn 206.200	-0.2541u	-1.6588u	-0.7030u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.2601	ppb	0.2452	94.3	11.9581	0.26013
Al 308.215	-2.6590	ppb	1.9682	74.0	-29.9029	-2.65904
As 188.980	5.2625	ppb	3.3678	64.0	-3.0682	5.26251
B 249.678	1.4932	ppb	0.1947	13.0	132.379	1.49323
Ba 389.178	0.5548	ppb	0.5066	91.3	-9.9511	0.55484
Be 313.042	0.0092	ppb	0.0024	26.3	-249.473	0.00924
Ca 370.602	-3.986	ppb	0.4838	12.1	-1.373	-3.98559
Cd 226.502	0.0895	ppb	0.0634	70.8	11.3944	0.08953
Co 228.615	-0.0345	ppb	0.2804	813.9	-4.7371	-0.03445
Cr 267.716	-0.0457	ppb	0.1100	240.8	15.7859	-0.04567
Cu 324.754	0.0752	ppb	0.1990	264.6	132.365	0.07520
Fe 271.441	0.5703	ppb	1.6572	290.6	14.0364	0.57030
K 766.491	-4.1462	ppb	0.2774	6.7	229.702	-4.14617
Mg 279.078	2.5684	ppb	1.4835	57.8	31.8208	2.56838
Mn 257.610	-0.2158	ppb	0.0105	4.9	33.4316	-0.21585
Mo 202.032	0.9800	ppb	0.3360	34.3	12.2058	0.98004
Na 330.237	-18.4725	ppb	46.2360	250.3	39.4976	-18.47252
Ni 231.604	0.5519	ppb	0.4178	75.7	-3.2192	0.55191
Pb 220.353	2.6324	ppb	1.1289	42.9	14.2705	2.63239
Sb 206.834	3.4029	ppb	2.1948	64.5	9.1809	3.40286
Se 196.026	1.3873	ppb	3.5583	256.5	-1.1553	1.38727
Sn 189.925	0.1873	ppb	0.8096	432.2	-11.3259	0.18733
Sr 216.596	0.3468	ppb	0.0618	17.8	8.1563	0.34685
Ti 334.941	0.0906	ppb	0.0190	21.0	-30.7371	0.09056
Tl 190.794	0.8098	ppb	2.1632	267.1	-10.1672	0.80976
V 292.401	0.0792	ppb	0.1189	150.2	-4.2697	0.07919
Zn 206.200	-0.8720	ppb	0.7174	82.3	4.5595	-0.87198

mb 680-295402/1-a (Samp) **9/26/2013, 12:49:53 AM** **Rack 3, Tube 51**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.0815u	-0.2378u	-0.0355u
Al 308.215	0.7890	-0.4680u	-2.7972u
As 188.980	1.5207	0.2887	1.5424
B 249.678	3.1495	3.3922	3.2819
Ba 389.178	0.5224	-0.0887u	-0.1970u
Be 313.042	0.0118	0.0136	0.0081
Ca 370.602	6.821	2.450	2.577
Cd 226.502	0.0641	0.1661	0.0862
Co 228.615	0.1062	0.5564	0.5696
Cr 267.716	0.1080	-0.1271u	0.0212
Cu 324.754	-0.4360u	0.0550	-0.3562u
Fe 271.441	-3.9378u	-6.1068u	-1.7523u
K 766.491	-4.1015u	-4.0628u	-4.2713u
Mg 279.078	2.7706	3.2641	0.8151
Mn 257.610	-0.2393u	-0.2088u	-0.1992u
Mo 202.032	0.4418	0.6479	0.1934
Na 330.237	16.6181	-146.199u	-21.5205u
Ni 231.604	1.2381	1.5916	0.8343
Pb 220.353	1.2701	2.5894	1.6565
Sb 206.834	-0.1951u	1.4813	0.5316
Se 196.026	-0.3616u	3.7700	1.8659
Sn 189.925	-2.0617u	-0.5543u	-1.1049u
Sr 216.596	-0.0933u	0.1555	0.1663
Ti 334.941	0.0169	0.0304	-0.0097u
Tl 190.794	-0.2467u	-1.1112u	-1.7178u
V 292.401	-0.1632u	-0.0928u	-0.2107u
Zn 206.200	0.7237	0.3041	0.8654

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1183	ppb	0.1060	89.7	-20.2221
Al 308.215	-0.8254	ppb	1.8196	220.4	-18.8619
As 188.980	1.1172	ppb	0.7176	64.2	-6.8301
B 249.678	3.2746	ppb	0.1215	3.7	166.180
Ba 389.178	0.0789	ppb	0.3879	491.8	-21.3873
Be 313.042	0.0112	ppb	0.0028	25.0	-245.700
Ca 370.602	3.949	ppb	2.488	63.0	23.03
Cd 226.502	0.1054	ppb	0.0537	50.9	12.2499
Co 228.615	0.4108	ppb	0.2638	64.2	1.3280
Cr 267.716	0.0007	ppb	0.1189	17391.2	18.4371
Cu 324.754	-0.2457	ppb	0.2635	107.2	111.289
Fe 271.441	-3.9323	ppb	2.1772	55.4	5.9782
K 766.491	-4.1452	ppb	0.1109	2.7	229.743
Mg 279.078	2.2833	ppb	1.2952	56.7	31.0241
Mn 257.610	-0.2157	ppb	0.0209	9.7	33.4515
Mo 202.032	0.4277	ppb	0.2276	53.2	7.7710
Na 330.237	-50.3671	ppb	85.1552	169.1	38.0401
Ni 231.604	1.2213	ppb	0.3789	31.0	-0.7088
Pb 220.353	1.8387	ppb	0.6783	36.9	12.6728
Sb 206.834	0.6060	ppb	0.8407	138.7	4.6717
Se 196.026	1.7581	ppb	2.0679	117.6	-0.9277
Sn 189.925	-1.2403	ppb	0.7628	61.5	-12.8141
Sr 216.596	0.0762	ppb	0.1468	192.9	4.0054

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ti 334.941	0.0126	ppb	0.0204	162.4	-53.0811
Tl 190.794	-1.0252	ppb	0.7393	72.1	-12.7520
V 292.401	-0.1555	ppb	0.0593	38.1	-10.9969
Zn 206.200	0.6311	ppb	0.2919	46.3	7.0186

lcs 680-295402/2-a (Samp) **9/26/2013, 12:54:30 AM** **Rack 3, Tube 52**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	57.6722	56.2059	56.9527
Al 308.215	4879.92	4887.84	4885.10
As 188.980	103.263	103.696	98.6650
B 249.678	196.246	196.704	196.912
Ba 389.178	98.8680	99.2371	98.7141
Be 313.042	51.6532	51.7240	51.7153
Ca 370.602	4881	4904	4892
Cd 226.502	49.7087	49.6237	49.7124
Co 228.615	50.7333	50.9103	50.1374
Cr 267.716	102.711	102.840	102.455
Cu 324.754	102.519	101.387	102.858
Fe 271.441	4866.09	4875.83	4881.46
K 766.491	4908.43	4908.64	4909.57
Mg 279.078	5012.10	4999.83	5006.86
Mn 257.610	517.450	517.986	517.368
Mo 202.032	99.7065	99.7745	101.257
Na 330.237	5088.17	5281.24	4981.51
Ni 231.604	99.8811	100.260	100.563
Pb 220.353	49.0371	51.8203	50.0106
Sb 206.834	51.1733	43.9372	48.0822
Se 196.026	105.477	100.084	96.0329
Sn 189.925	199.491	198.115	202.245
Sr 216.596	99.6067	99.9069	99.0140
Ti 334.941	97.4191	97.7815	97.6472
Tl 190.794	40.7174	37.4627	40.9235
V 292.401	99.6461	99.9631	99.6839
Zn 206.200	100.964	100.926	102.091

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	56.9436	ppb	0.7332	1.3	4833.30
Al 308.215	4884.28	ppb	4.0241	0.1	29422.5
As 188.980	101.875	ppb	2.7880	2.7	84.5783
B 249.678	196.620	ppb	0.3407	0.2	3821.72
Ba 389.178	98.9397	ppb	0.2687	0.3	2374.12
Be 313.042	51.6975	ppb	0.0386	0.1	98623.2
Ca 370.602	4892	ppb	11.70	0.2	14685
Cd 226.502	49.6816	ppb	0.0502	0.1	2723.39
Co 228.615	50.5936	ppb	0.4049	0.8	682.504
Cr 267.716	102.668	ppb	0.1960	0.2	5887.53
Cu 324.754	102.254	ppb	0.7704	0.8	6840.07
Fe 271.441	4874.46	ppb	7.7781	0.2	8806.87
K 766.491	4908.88	ppb	0.6057	0.0	210540
Mg 279.078	5006.26	ppb	6.1543	0.1	13972.6
Mn 257.610	517.602	ppb	0.3356	0.1	131837
Mo 202.032	100.246	ppb	0.8759	0.9	808.875

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Na 330.237	5116.97	ppb	151.929	3.0	269.289
Ni 231.604	100.235	ppb	0.3417	0.3	370.786
Pb 220.353	50.2893	ppb	1.4124	2.8	110.437
Sb 206.834	47.7309	ppb	3.6308	7.6	81.1866
Se 196.026	100.531	ppb	4.7377	4.7	59.8773
Sn 189.925	199.951	ppb	2.1032	1.1	196.919
Sr 216.596	99.5092	ppb	0.4544	0.5	1534.98
Ti 334.941	97.6159	ppb	0.1832	0.2	27926.6
Tl 190.794	39.7012	ppb	1.9414	4.9	44.1050
V 292.401	99.7644	ppb	0.1731	0.2	2875.05
Zn 206.200	101.327	ppb	0.6617	0.7	171.418

680-94491-e-1-a (Samp) **9/26/2013, 12:59:07 AM** **Rack 3, Tube 53**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.1554u	0.0427u	0.0730u
Al 308.215	7.3221	6.4650	6.4537
As 188.980	5.3326	0.9994	1.4036
B 249.678	26.1786	26.1521	26.2475
Ba 389.178	111.047	110.516	109.649
Be 313.042	0.0011	0.0086	0.0128
Ca 370.602	33038	32894	32989
Cd 226.502	0.0107	-0.0992u	0.2484
Co 228.615	0.1995	0.2259	-0.5121u
Cr 267.716	0.3130	0.0570	0.3772
Cu 324.754	76.7570	77.0230	77.8326
Fe 271.441	44.2994	46.8944	45.0419
K 766.491	12287.5	12291.5	12257.8
Mg 279.078	7602.12	7611.15	7607.82
Mn 257.610	16.3851	16.4132	16.3797
Mo 202.032	1.0145	0.7015	0.6391
Na 330.237	65162.8	64918.7	65023.8
Ni 231.604	1.0183	1.9785	2.5506
Pb 220.353	1.0671	2.1288	1.9004
Sb 206.834	0.0654	-0.1224u	-1.4679u
Se 196.026	7.0093	-10.1726u	1.9891
Sn 189.925	0.0251	2.3197	0.9442
Sr 216.596	482.743	483.566	484.770
Ti 334.941	0.1973	0.1417	0.1281
Tl 190.794	-0.3159u	0.6123	-0.1917u
V 292.401	-0.2301u	-0.3153u	-0.3570u
Zn 206.200	35.8903	36.0319	35.8493

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0903	ppb	0.0584	64.6	-27.1111
Al 308.215	6.7469	ppb	0.4981	7.4	26.8615
As 188.980	2.5785	ppb	2.3937	92.8	-5.5046
B 249.678	26.1928	ppb	0.0492	0.2	600.923
Ba 389.178	110.404	ppb	0.7057	0.6	2648.70
Be 313.042	0.0075	ppb	0.0059	78.6	-248.792
Ca 370.602	32973	ppb	73.25	0.2	100974
Cd 226.502	0.0533	ppb	0.1777	333.2	9.2647
Co 228.615	-0.0289	ppb	0.4187	1447.1	-4.6380

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Cr 267.716	0.2491	ppb	0.1694	68.0	33.9961
Cu 324.754	77.2042	ppb	0.5602	0.7	5192.49
Fe 271.441	45.4119	ppb	1.3365	2.9	94.8590
K 766.491	12278.9	ppb	18.4084	0.1	526027
Mg 279.078	7607.03	ppb	4.5647	0.1	21235.9
Mn 257.610	16.3927	ppb	0.0180	0.1	4327.69
Mo 202.032	0.7850	ppb	0.2011	25.6	10.6383
Na 330.237	65035.1	ppb	122.464	0.2	2986.78
Ni 231.604	1.8491	ppb	0.7743	41.9	1.6492
Pb 220.353	1.6987	ppb	0.5588	32.9	12.3986
Sb 206.834	-0.5083	ppb	0.8363	164.5	2.8690
Se 196.026	-0.3914	ppb	8.8348	2257.0	-2.2418
Sn 189.925	1.0963	ppb	1.1548	105.3	-10.3340
Sr 216.596	483.693	ppb	1.0190	0.2	7442.57
Ti 334.941	0.1557	ppb	0.0366	23.5	18.3959
Tl 190.794	0.0349	ppb	0.5039	1441.9	-11.2746
V 292.401	-0.3008	ppb	0.0647	21.5	-15.7054
Zn 206.200	35.9238	ppb	0.0958	0.3	64.7638

680-94491-e-1-aSD^5 (Samp) **9/26/2013, 1:03:44 AM** **Rack 3, Tube 54**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.1539u	0.1902	-0.0585u
Al 308.215	-1.4381u	0.3077	-0.3130u
As 188.980	1.7695	3.4116	4.5245
B 249.678	5.6639	5.7248	5.5061
Ba 389.178	24.2234	24.8676	23.0532
Be 313.042	0.0090	0.0022	0.0054
Ca 370.602	7282	7306	7013
Cd 226.502	0.0425	0.1630	0.1214
Co 228.615	-0.1602u	-0.1953u	-0.0026u
Cr 267.716	-0.0294u	0.3096	0.0044
Cu 324.754	16.8249	16.9531	16.2950
Fe 271.441	13.0238	9.6715	10.0825
K 766.491	2514.56	2528.43	2434.76
Mg 279.078	1705.56	1705.87	1634.59
Mn 257.610	3.5604	3.5805	3.4437
Mo 202.032	0.7676	0.1642	0.6842
Na 330.237	13784.6	13719.0	12914.4
Ni 231.604	1.2665	-0.0626u	-0.1585u
Pb 220.353	1.3946	2.4600	2.5040
Sb 206.834	-1.7879u	0.0427	-0.7092u
Se 196.026	0.3023	3.8605	-3.8999u
Sn 189.925	0.4466	-1.4424u	-1.0784u
Sr 216.596	109.602	110.185	104.358
Ti 334.941	0.0205	0.0282	0.0130
Tl 190.794	2.3613	-0.4392u	0.7761
V 292.401	-0.2052u	0.0240	0.0325
Zn 206.200	8.5205	8.3935	8.9008

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0074	ppb	0.1777	2392.9	-16.2573
Al 308.215	-0.4811	ppb	0.8850	183.9	-16.7725

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	3.2352	ppb	1.3860	42.8	-4.9081
B 249.678	5.6316	ppb	0.1129	2.0	210.880
Ba 389.178	24.0481	ppb	0.9198	3.8	558.788
Be 313.042	0.0055	ppb	0.0034	61.0	-255.563
Ca 370.602	7200	ppb	162.5	2.3	22058
Cd 226.502	0.1090	ppb	0.0612	56.2	12.4154
Co 228.615	-0.1194	ppb	0.1027	86.0	-5.8726
Cr 267.716	0.0949	ppb	0.1868	196.9	24.1022
Cu 324.754	16.6910	ppb	0.3489	2.1	1222.45
Fe 271.441	10.9259	ppb	1.8284	16.7	32.6892
K 766.491	2492.58	ppb	50.5556	2.0	107106
Mg 279.078	1682.01	ppb	41.0633	2.4	4714.73
Mn 257.610	3.5282	ppb	0.0739	2.1	1001.16
Mo 202.032	0.5387	ppb	0.3269	60.7	8.6613
Na 330.237	13472.7	ppb	484.604	3.6	650.703
Ni 231.604	0.3485	ppb	0.7965	228.6	-3.9820
Pb 220.353	2.1195	ppb	0.6282	29.6	13.2403
Sb 206.834	-0.8181	ppb	0.9201	112.5	2.3688
Se 196.026	0.0876	ppb	3.8846	4432.9	-1.9519
Sn 189.925	-0.6914	ppb	1.0022	145.0	-12.2325
Sr 216.596	108.048	ppb	3.2091	3.0	1664.72
Ti 334.941	0.0205	ppb	0.0076	37.1	-44.0076
Tl 190.794	0.8994	ppb	1.4043	156.1	-10.0442
V 292.401	-0.0496	ppb	0.1348	271.9	-8.0264
Zn 206.200	8.6049	ppb	0.2640	3.1	20.0651

680-94491-e-1-a PDS (Samp) **9/26/2013, 1:08:21 AM** **Rack 3, Tube 55**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	45.6897	45.6522	46.0258
Al 308.215	1863.91	1869.31	1867.19
As 188.980	190.837	186.015	187.592
B 249.678	481.154	482.017	483.063
Ba 389.178	297.450	298.086	297.984
Be 313.042	49.3205	49.1549	49.1509
Ca 370.602	34752	34892	34877
Cd 226.502	46.9156	47.0668	46.8598
Co 228.615	189.646	190.279	188.835
Cr 267.716	191.036	190.852	190.640
Cu 324.754	275.645	274.225	274.323
Fe 271.441	1879.48	1888.97	1886.51
K 766.491	13914.9	13901.4	13923.5
Mg 279.078	9585.87	9558.63	9544.65
Mn 257.610	212.274	212.296	212.394
Mo 202.032	190.475	189.888	191.181
Na 330.237	67652.2	67201.3	67461.3
Ni 231.604	189.510	188.222	188.873
Pb 220.353	186.235	184.349	184.265
Sb 206.834	180.422	176.863	178.150
Se 196.026	185.865	182.986	187.834
Sn 189.925	192.044	186.741	193.218
Sr 216.596	675.860	676.455	673.994
Ti 334.941	186.280	186.512	186.691

Label	Replicates Concentration		
Tl 190.794	177.840	178.161	186.143
V 292.401	188.731	188.781	188.691
Zn 206.200	223.866	227.019	229.020

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	45.7892	ppb	0.2057	0.4	3853.95
Al 308.215	1866.80	ppb	2.7227	0.1	11212.5
As 188.980	188.148	ppb	2.4585	1.3	162.846
B 249.678	482.078	ppb	0.9556	0.2	9245.46
Ba 389.178	297.840	ppb	0.3417	0.1	7159.21
Be 313.042	49.2088	ppb	0.0968	0.2	93847.5
Ca 370.602	34841	ppb	77.16	0.2	106653
Cd 226.502	46.9474	ppb	0.1071	0.2	2562.27
Co 228.615	189.587	ppb	0.7236	0.4	2569.55
Cr 267.716	190.843	ppb	0.1979	0.1	10923.8
Cu 324.754	274.731	ppb	0.7929	0.3	18156.5
Fe 271.441	1884.98	ppb	4.9260	0.3	3438.41
K 766.491	13913.2	ppb	11.1461	0.1	595985
Mg 279.078	9563.05	ppb	20.9606	0.2	26685.7
Mn 257.610	212.321	ppb	0.0642	0.0	54199.2
Mo 202.032	190.515	ppb	0.6476	0.3	1533.75
Na 330.237	67438.2	ppb	226.355	0.3	3092.11
Ni 231.604	188.868	ppb	0.6443	0.3	702.835
Pb 220.353	184.950	ppb	1.1143	0.6	381.075
Sb 206.834	178.478	ppb	1.8019	1.0	291.819
Se 196.026	185.562	ppb	2.4383	1.3	111.963
Sn 189.925	190.667	ppb	3.4509	1.8	187.283
Sr 216.596	675.437	ppb	1.2840	0.2	10384.4
Ti 334.941	186.494	ppb	0.2060	0.1	53399.6
Tl 190.794	180.714	ppb	4.7037	2.6	243.954
V 292.401	188.734	ppb	0.0447	0.0	5444.40
Zn 206.200	226.635	ppb	2.5981	1.1	376.058

680-94491-e-1-b ms (Samp) **9/26/2013, 1:12:58 AM** **Rack 3, Tube 56**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	57.5518	57.4641	57.9549
Al 308.215	4992.87	4990.97	4995.00
As 188.980	104.895	98.8631	104.787
B 249.678	222.547	222.782	223.709
Ba 389.178	212.490	213.231	214.086
Be 313.042	52.6697	52.7715	52.7067
Ca 370.602	38653	38541	38607
Cd 226.502	49.6474	49.8396	49.9285
Co 228.615	50.4964	50.7071	50.5716
Cr 267.716	104.693	104.795	104.897
Cu 324.754	186.077	184.267	186.024
Fe 271.441	4977.25	4986.49	5002.33
K 766.491	17751.6	17729.6	17668.2
Mg 279.078	12876.2	12903.0	12915.9
Mn 257.610	539.215	539.846	539.579
Mo 202.032	103.637	102.914	102.169
Na 330.237	73061.4	72935.7	73072.3

Label	Replicates	Concentration	
Ni 231.604	101.975	101.191	101.416
Pb 220.353	50.0311	48.8459	50.3230
Sb 206.834	53.7870	51.0493	49.0556
Se 196.026	98.6181	99.9986	104.442
Sn 189.925	195.088	196.756	202.969
Sr 216.596	597.112	599.536	599.570
Ti 334.941	99.0504	98.9366	98.7519
Tl 190.794	40.8986	37.1359	36.2703
V 292.401	102.503	102.044	102.352
Zn 206.200	135.564	137.564	138.061

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	57.6569	ppb	0.2617	0.5	4868.41
Al 308.215	4992.95	ppb	2.0151	0.0	30077.5
As 188.980	102.848	ppb	3.4517	3.4	85.4618
B 249.678	223.012	ppb	0.6143	0.3	4322.13
Ba 389.178	213.269	ppb	0.7986	0.4	5141.13
Be 313.042	52.7160	ppb	0.0515	0.1	100575
Ca 370.602	38600	ppb	56.23	0.1	117892
Cd 226.502	49.8052	ppb	0.1437	0.3	2730.30
Co 228.615	50.5917	ppb	0.1068	0.2	682.475
Cr 267.716	104.795	ppb	0.1025	0.1	6010.50
Cu 324.754	185.456	ppb	1.0299	0.6	12298.7
Fe 271.441	4988.69	ppb	12.6809	0.3	9012.79
K 766.491	17716.5	ppb	43.2573	0.2	758788
Mg 279.078	12898.4	ppb	20.2743	0.2	35978.6
Mn 257.610	539.546	ppb	0.3166	0.1	137491
Mo 202.032	102.907	ppb	0.7339	0.7	830.230
Na 330.237	73023.1	ppb	75.9279	0.1	3345.78
Ni 231.604	101.527	ppb	0.4038	0.4	375.639
Pb 220.353	49.7333	ppb	0.7823	1.6	109.325
Sb 206.834	51.2973	ppb	2.3754	4.6	86.9394
Se 196.026	101.019	ppb	3.0429	3.0	60.1852
Sn 189.925	198.271	ppb	4.1533	2.1	195.214
Sr 216.596	598.739	ppb	1.4092	0.2	9213.77
Ti 334.941	98.9130	ppb	0.1507	0.2	28329.5
Tl 190.794	38.1016	ppb	2.4607	6.5	41.8215
V 292.401	102.299	ppb	0.2338	0.2	2947.80
Zn 206.200	137.063	ppb	1.3218	1.0	229.882

680-94491-e-1-c msd (Samp) **9/26/2013, 1:17:36 AM** **Rack 3, Tube 57**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	56.8346	56.9347	56.4226
Al 308.215	4930.86	4933.13	4928.38
As 188.980	105.622	101.360	102.915
B 249.678	218.743	220.170	219.128
Ba 389.178	206.743	207.870	207.962
Be 313.042	51.9506	52.0511	52.0707
Ca 370.602	37084	37173	37134
Cd 226.502	49.1133	49.4651	49.4821
Co 228.615	51.1949	49.9532	49.8848
Cr 267.716	104.384	104.236	103.511

Label	Replicates	Concentration	
Cu 324.754	181.047	180.965	181.326
Fe 271.441	4931.38	4940.14	4947.22
K 766.491	16907.2	16901.0	16925.4
Mg 279.078	12485.0	12521.3	12484.7
Mn 257.610	533.106	534.215	533.147
Mo 202.032	100.852	101.113	101.081
Na 330.237	69686.7	69797.8	69614.7
Ni 231.604	100.371	101.262	101.379
Pb 220.353	52.1820	49.7240	51.9632
Sb 206.834	50.2758	46.9132	52.1672
Se 196.026	103.505	101.518	104.281
Sn 189.925	198.857	197.442	196.107
Sr 216.596	576.797	577.151	574.507
Ti 334.941	97.4989	98.0015	97.7150
Tl 190.794	35.8234	38.1183	36.6992
V 292.401	100.718	100.398	100.370
Zn 206.200	136.652	135.317	134.829

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	56.7306	ppb	0.2714	0.5	4790.80
Al 308.215	4930.79	ppb	2.3740	0.0	29702.8
As 188.980	103.299	ppb	2.1572	2.1	85.8713
B 249.678	219.347	ppb	0.7383	0.3	4252.73
Ba 389.178	207.525	ppb	0.6787	0.3	5002.01
Be 313.042	52.0241	ppb	0.0644	0.1	99251.9
Ca 370.602	37130	ppb	44.92	0.1	113394
Cd 226.502	49.3535	ppb	0.2082	0.4	2705.57
Co 228.615	50.3443	ppb	0.7374	1.5	679.144
Cr 267.716	104.043	ppb	0.4672	0.4	5967.45
Cu 324.754	181.113	ppb	0.1895	0.1	12013.7
Fe 271.441	4939.58	ppb	7.9368	0.2	8924.22
K 766.491	16911.2	ppb	12.6719	0.1	724318
Mg 279.078	12497.0	ppb	21.0280	0.2	34859.6
Mn 257.610	533.489	ppb	0.6288	0.1	135946
Mo 202.032	101.016	ppb	0.1425	0.1	815.050
Na 330.237	69699.7	ppb	92.2482	0.1	3195.25
Ni 231.604	101.004	ppb	0.5515	0.5	373.676
Pb 220.353	51.2898	ppb	1.3604	2.7	112.459
Sb 206.834	49.7854	ppb	2.6611	5.3	84.5201
Se 196.026	103.101	ppb	1.4252	1.4	61.4605
Sn 189.925	197.469	ppb	1.3755	0.7	194.375
Sr 216.596	576.152	ppb	1.4353	0.2	8866.33
Ti 334.941	97.7385	ppb	0.2521	0.3	27991.4
Tl 190.794	36.8803	ppb	1.1581	3.1	40.1084
V 292.401	100.495	ppb	0.1936	0.2	2895.74
Zn 206.200	135.599	ppb	0.9435	0.7	227.489

680-94481-a-1-b (Samp) **9/26/2013, 1:22:13 AM** **Rack 3, Tube 58**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	0.9650u	0.9920u	0.9769u
Al 308.215	2387.72	2398.49	2405.79
As 188.980	3.8078	2.2216	2.0483

Label	Replicates Concentration		
B 249.678	1218.05	1222.59	1222.59
Ba 389.178	11.7007	12.4219	12.0599
Be 313.042	0.0270	0.0224	0.0292
Ca 370.602	89341	89888	90067
Cd 226.502	0.5083	0.6183	0.5258
Co 228.615	0.5028	-0.3422u	0.2967
Cr 267.716	15.3012	15.6164	15.4233
Cu 324.754	1.1635	0.8459	0.9341
Fe 271.441	46.6599	45.3268	48.3106
K 766.491	7282.24	7278.78	7249.82
Mg 279.078	9153.51	9129.88	9097.93
Mn 257.610	223.403	224.149	223.915
Mo 202.032	4.7047	4.2274	3.7492
Na 330.237	616751x	616243x	612174x
Ni 231.604	5.3935	5.0999	4.4399
Pb 220.353	0.3118	1.0427	-0.8067u
Sb 206.834	3.5111	2.6198	2.5628
Se 196.026	12.9326	14.1179	17.3291
Sn 189.925	-2.7660u	1.1733	0.2438
Sr 216.596	2791.24	2797.08	2789.92
Ti 334.941	0.0765	0.0223	0.0561
Tl 190.794	-5.4836u	-6.4595u	-6.6748u
V 292.401	1.1739	0.8756	1.1322
Zn 206.200	20.8436	23.3354	20.4003

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.9780b	ppb	0.0135	1.4	-68.0294
Al 308.215	2397.33b	ppb	9.0866	0.4	14441.0
As 188.980	2.6926b	ppb	0.9697	36.0	-5.3685
B 249.678	1221.08b	ppb	2.6163	0.2	23271.1
Ba 389.178	12.0608b	ppb	0.3606	3.0	291.152
Be 313.042	0.0262b	ppb	0.0035	13.4	-251.388
Ca 370.602	89765b	ppb	377.9	0.4	274879
Cd 226.502	0.5508b	ppb	0.0591	10.7	32.2180
Co 228.615	0.1524b	ppb	0.4406	289.0	-2.2380
Cr 267.716	15.4469b	ppb	0.1589	1.0	914.119
Cu 324.754	0.9812b	ppb	0.1639	16.7	191.926
Fe 271.441	46.7657b	ppb	1.4947	3.2	97.3681
K 766.491	7270.28b	ppb	17.8028	0.2	311623
Mg 279.078	9127.10b	ppb	27.8947	0.3	25469.2
Mn 257.610	223.823b	ppb	0.3815	0.2	57113.5
Mo 202.032	4.2271b	ppb	0.4777	11.3	38.2769
Na 330.237	615056xb	ppb	2508.88	0.4	27910.0
Ni 231.604	4.9778b	ppb	0.4884	9.8	13.3887
Pb 220.353	0.1826b	ppb	0.9314	510.1	9.3426
Sb 206.834	2.8979b	ppb	0.5318	18.4	8.5215
Se 196.026	14.7932b	ppb	2.2747	15.4	7.1421
Sn 189.925	-0.4496b	ppb	2.0592	458.0	-11.6905
Sr 216.596	2792.75b	ppb	3.8075	0.1	42943.3
Ti 334.941	0.0516b	ppb	0.0274	53.1	-44.4571
Tl 190.794	-6.2059b	ppb	0.6348	10.2	-20.2098
V 292.401	1.0606b	ppb	0.1616	15.2	18.2045
Zn 206.200	21.5264b	ppb	1.5822	7.4	41.1449

680-94263-c-1-b (Samp) **9/26/2013, 1:26:50 AM** **Rack 3, Tube 59**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.9651	0.5878u	0.7466
Al 308.215	17925.6	17842.6	17894.7
As 188.980	12.7689	8.1773	9.3375
B 249.678	32.2659	31.7128	31.3739
Ba 389.178	215.181	215.193	214.265
Be 313.042	1.2658	1.2706	1.2661
Ca 370.602	345115	342378	343039
Cd 226.502	-0.9129	-0.9073	-0.9627
Co 228.615	240.352	241.224	238.868
Cr 267.716	52.4974	52.6252	52.4947
Cu 324.754	445.474	446.188	444.130
Fe 271.441	113005	112853	112864
K 766.491	9754.34	9757.36	9761.34
Mg 279.078	418604	419655	418422
Mn 257.610	22008.5	21972.0	22037.5
Mo 202.032	4.5674	4.3431	4.6649
Na 330.237	305575x	305278x	305827x
Ni 231.604	57.1162	57.2352	56.7876
Pb 220.353	6.4938	2.7185	5.1035
Sb 206.834	-0.4163	2.2214	1.9628
Se 196.026	-17.0871u	-2.4641	-10.1377
Sn 189.925	-4.8696u	3.4266	3.2063
Sr 216.596	3175.18	3174.60	3174.47
Ti 334.941	1159.42	1155.10	1156.71
Tl 190.794	16.9935	13.4631u	13.3765u
V 292.401	92.5394	92.8809	93.3617
Zn 206.200	111.729	110.897	113.093

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.7665b	ppb	0.1894	24.7	-0.9534
Al 308.215	17887.7b	ppb	41.9495	0.2	107815
As 188.980	10.0946b	ppb	2.3876	23.7	-0.0412
B 249.678	31.7842b	ppb	0.4503	1.4	410.176
Ba 389.178	214.880b	ppb	0.5326	0.2	6435.69
Be 313.042	1.2675b	ppb	0.0027	0.2	2221.72
Ca 370.602	343511b	ppb	1429	0.4	1044431
Cd 226.502	-0.9276b	ppb	0.0305	3.3	431.491
Co 228.615	240.148b	ppb	1.1913	0.5	3292.13
Cr 267.716	52.5391b	ppb	0.0746	0.1	3172.74
Cu 324.754	445.264b	ppb	1.0449	0.2	29381.9
Fe 271.441	112908b	ppb	84.6109	0.1	203555
K 766.491	9757.68b	ppb	3.5136	0.0	418100
Mg 279.078	418893b	ppb	665.453	0.2	1167631
Mn 257.610	22006.0b	ppb	32.8342	0.1	5602978
Mo 202.032	4.5251b	ppb	0.1650	3.6	34.2387
Na 330.237	305560xb	ppb	274.666	0.1	13851.2
Ni 231.604	57.0463b	ppb	0.2319	0.4	211.362
Pb 220.353	4.7719b	ppb	1.9094	40.0	32.6896
Sb 206.834	1.2560b	ppb	1.4540	115.8	10.5817
Se 196.026	-9.8963b	ppb	7.3145	73.9	-0.8640
Sn 189.925	0.5878b	ppb	4.7275	804.3	-10.6020
Sr 216.596	3174.75b	ppb	0.3785	478	48993.8

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ti 334.941	1157.08b	ppb	2.1841	0.2	333282
Tl 190.794	14.6110b	ppb	2.0638	14.1	-14.2453
V 292.401	92.9273b	ppb	0.4131	0.4	2716.64
Zn 206.200	111.906b	ppb	1.1085	1.0	190.136

CRI (Samp) **9/26/2013, 1:31:27 AM** **Rack 3, Tube 60**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	10.0217	9.7018	10.2713
Al 308.215	210.064	209.846	213.438
As 188.980	20.8662	26.9106	24.0173
B 249.678	102.409	101.473	102.558
Ba 389.178	10.4638	10.3609	10.4074
Be 313.042	4.2178	4.1863	4.2568
Ca 370.602	526.2	526.1	543.0
Cd 226.502	5.0880	5.0687	5.1566
Co 228.615	10.0364	10.2333	10.1738
Cr 267.716	10.5639	10.3567	10.5527
Cu 324.754	21.2523	20.6926	20.7731
Fe 271.441	45.4740	52.6627	57.8078
K 766.491	1035.17	1022.94	1037.68
Mg 279.078	543.811	538.070	557.601
Mn 257.610	11.0881	11.0280	11.9616
Mo 202.032	10.7397	10.2297	10.1147
Na 330.237	863.433	942.592	1047.97
Ni 231.604	42.3441	42.1935	42.7693
Pb 220.353	10.8305	10.7400	9.6233
Sb 206.834	18.8340	20.6439	20.3956
Se 196.026	20.6212	17.1443	15.1234
Sn 189.925	51.2414	53.3259	49.5342
Sr 216.596	10.7731	10.0395	10.8515
Ti 334.941	10.2395	10.1928	10.2677
Tl 190.794	24.3167	25.7617	25.5843
V 292.401	10.4072	10.2467	10.0267
Zn 206.200	19.0233	20.0538	21.0412

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	9.9983	ppb	0.2855	2.9	840.169
Al 308.215	211.116	ppb	2.0142	1.0	1257.43
As 188.980	23.9314	ppb	3.0231	12.6	13.8745
B 249.678	102.147	ppb	0.5883	0.6	2041.91
Ba 389.178	10.4107	ppb	0.0515	0.5	228.355
Be 313.042	4.2203	ppb	0.0353	0.8	7805.32
Ca 370.602	531.7	ppb	9.728	1.8	1641
Cd 226.502	5.1044	ppb	0.0462	0.9	283.820
Co 228.615	10.1478	ppb	0.1010	1.0	133.495
Cr 267.716	10.4911	ppb	0.1165	1.1	617.802
Cu 324.754	20.9060	ppb	0.3026	1.4	1499.22
Fe 271.441	51.9815	ppb	6.1950	11.9	108.195
K 766.491	1031.93	ppb	7.8876	0.8	44580.6
Mg 279.078	546.494	ppb	10.0381	1.8	1548.20
Mn 257.610	11.3592	ppb	0.5225	4.6	2983.43
Mo 202.032	10.3614	ppb	0.3327	4.9	87.5176

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Na 330.237	951.333	ppb	92.5797	9.7	83.1247
Ni 231.604	42.4356	ppb	0.2986	0.7	153.900
Pb 220.353	10.3979	ppb	0.6723	6.5	29.8851
Sb 206.834	19.9578	ppb	0.9812	4.9	35.9739
Se 196.026	17.6296	ppb	2.7808	15.8	8.8180
Sn 189.925	51.3672	ppb	1.8990	3.7	42.0264
Sr 216.596	10.5547	ppb	0.4479	4.2	164.021
Ti 334.941	10.2334	ppb	0.0378	0.4	2876.88
Tl 190.794	25.2209	ppb	0.7881	3.1	24.2789
V 292.401	10.2269	ppb	0.1911	1.9	288.966
Zn 206.200	20.0395	ppb	1.0090	5.0	38.7329

Cont Calib Verif (CCV) **9/26/2013, 1:36:04 AM** **Rack 4, Tube 1**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	481.694	491.407	480.204
Al 308.215	4778.89	4864.66	4779.46
As 188.980	483.626	493.954	489.784
B 249.678	493.072	501.931	492.612
Ba 389.178	4822.36	4890.54	4806.55
Be 313.042	506.454	512.967	504.244
Ca 370.602	4932	5018	4931
Cd 226.502	496.819	503.771	495.057
Co 228.615	504.959	509.494	501.832
Cr 267.716	5072.14	5139.14	5048.18
Cu 324.754	5031.56	5155.43	5033.70
Fe 271.441	4834.25	4896.56	4812.56
K 766.491	10122.0	10269.6	10131.4
Mg 279.078	5031.87	5102.02	5008.34
Mn 257.610	5053.46	5148.13	5057.48
Mo 202.032	497.909	505.275	497.055
Na 330.237	6953.74	7168.79	7299.21
Ni 231.604	2484.54	2535.33	2474.82
Pb 220.353	496.431	502.231	490.492
Sb 206.834	972.501	984.081	969.721
Se 196.026	5028.66	5101.20	5018.83
Sn 189.925	4988.75	5068.57	4981.85
Sr 216.596	2538.50	2572.27	2524.92
Ti 334.941	476.039	484.483	475.727
Tl 190.794	5005.09	5085.54	5006.84
V 292.401	4936.80	5011.14	4918.93
Zn 206.200	2526.82	2572.04	2521.98

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	484.435	ppb	6.0841	1.3	41141.1	96.88701
Al 308.215	4807.67	ppb	49.3545	1.0	28149.4	96.15343
As 188.980	489.121	ppb	5.1958	1.1	435.893	97.82430
B 249.678	495.872	ppb	5.2524	1.1	9499.21	99.17436
Ba 389.178	4839.82	ppb	44.6359	0.9	116235	96.79636
Be 313.042	507.888	ppb	4.5350	0.9	971172	101.57764
Ca 370.602	4960	ppb	49.99	1.0	15257	99.20382
Cd 226.502	498.549	ppb	4.6076	0.9	27086.8	99.70979
Co 228.615	505.428	ppb	3.8522	1.0	6870.92	101.08568

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Cr 267.716	5086.49	ppb	47.1470	0.9	290626	101.72974
Cu 324.754	5073.56	ppb	70.9059	1.4	332938	101.47123
Fe 271.441	4847.79	ppb	43.6056	0.9	8868.62	96.95588
K 766.491	10174.3	ppb	82.6507	0.8	435935	101.74317
Mg 279.078	5047.41	ppb	48.7364	1.0	13990.8	100.94827
Mn 257.610	5086.36	ppb	53.5354	1.1	1294226	101.72716
Mo 202.032	500.079	ppb	4.5196	0.9	4009.57	100.01587
Na 330.237	7140.58	ppb	174.452	2.4	328.109	95.20776
Ni 231.604	2498.23	ppb	32.4932	1.3	9366.72	99.92916
Pb 220.353	496.385	ppb	5.8695	1.2	1008.85	99.27692
Sb 206.834	975.435	ppb	7.6161	0.8	1651.03	97.54346
Se 196.026	5049.57	ppb	44.9883	0.9	3098.99	100.99134
Sn 189.925	5013.06	ppb	48.1996	1.0	5214.27	100.26118
Sr 216.596	2545.23	ppb	24.3852	1.0	39062.5	101.80919
Ti 334.941	478.750	ppb	4.9676	1.0	137093	95.74993
Tl 190.794	5032.49	ppb	45.9522	0.9	7085.08	100.64981
V 292.401	4955.62	ppb	48.9016	1.0	143851	99.11246
Zn 206.200	2540.28	ppb	27.6142	1.1	4141.96	101.61122

Cont Calib Blank (CCB) **9/26/2013, 1:40:42 AM** **Rack 4, Tube 2**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	-0.0382u	0.3586	-0.1681u
Al 308.215	-3.1591u	-2.1382u	-3.2886u
As 188.980	-0.7076u	2.3011	1.9554
B 249.678	1.7613	1.5560	1.4616
Ba 389.178	0.2192	0.5491	0.5737
Be 313.042	0.0111	0.0006	0.0061
Ca 370.602	-5.892u	-0.7202u	-2.063u
Cd 226.502	0.0107	0.1922	0.1328
Co 228.615	-0.1849u	-0.0878u	0.6870
Cr 267.716	-0.0136u	0.0397	0.3600
Cu 324.754	0.4017	-0.2136u	0.5653
Fe 271.441	-4.1944u	-3.9203u	1.1628
K 766.491	-4.3571u	-4.6895u	-3.9647u
Mg 279.078	2.5614	1.1860	0.1009
Mn 257.610	-0.2003u	-0.2567u	-0.2138u
Mo 202.032	1.6644	0.9386	1.3951
Na 330.237	-24.7479u	-151.270u	66.1268
Ni 231.604	0.6041	0.8700	0.5830
Pb 220.353	3.2112	1.4799	2.0752
Sb 206.834	3.9144	1.3931	0.3313
Se 196.026	-1.8328u	-3.0693u	3.1643
Sn 189.925	-1.0528u	0.7969	-4.1429u
Sr 216.596	0.2653	0.3388	0.2285
Ti 334.941	0.1629	0.0525	0.1325
Tl 190.794	2.6728	-0.3715u	0.8345
V 292.401	0.1381	-0.0417u	0.0533
Zn 206.200	-0.1043u	-0.5478u	-0.7826u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.0508	ppb	0.2744	540.5	-5.8487	0.05077
Al 308.215	-2.8620	ppb	0.6301	22.01	-31.1150	-2.86195

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
As 188.980	1.1830	ppb	1.6464	139.2	-6.7709	1.18296
B 249.678	1.5930	ppb	0.1532	9.6	134.271	1.59298
Ba 389.178	0.4473	ppb	0.1980	44.3	-12.5342	0.44734
Be 313.042	0.0059	ppb	0.0053	89.3	-255.863	0.00592
Ca 370.602	-2.892	ppb	2.684	92.8	1.990	-2.89174
Cd 226.502	0.1119	ppb	0.0925	82.7	12.6090	0.11190
Co 228.615	0.1381	ppb	0.4778	346.0	-2.3989	0.13811
Cr 267.716	0.1287	ppb	0.2021	157.1	25.7476	0.12869
Cu 324.754	0.2511	ppb	0.4107	163.5	143.916	0.25112
Fe 271.441	-2.3173	ppb	3.0170	130.2	8.8550	-2.31732
K 766.491	-4.3371	ppb	0.3628	8.4	221.528	-4.33711
Mg 279.078	1.2828	ppb	1.2331	96.1	28.2355	1.28278
Mn 257.610	-0.2236	ppb	0.0294	13.2	31.4456	-0.22361
Mo 202.032	1.3327	ppb	0.3669	27.5	15.0378	1.33269
Na 330.237	-36.6303	ppb	109.184	298.1	38.6762	-36.63034
Ni 231.604	0.6857	ppb	0.1600	23.3	-2.7177	0.68570
Pb 220.353	2.2554	ppb	0.8796	39.0	13.5109	2.25544
Sb 206.834	1.8796	ppb	1.8404	97.9	6.7150	1.87959
Se 196.026	-0.5793	ppb	3.3005	569.8	-2.3624	-0.57927
Sn 189.925	-1.4663	ppb	2.4957	170.2	-13.0497	-1.46627
Sr 216.596	0.2775	ppb	0.0562	20.2	7.0793	0.27752
Ti 334.941	0.1159	ppb	0.0570	49.2	-23.4653	0.11595
Tl 190.794	1.0452	ppb	1.5330	146.7	-9.8347	1.04524
V 292.401	0.0499	ppb	0.0900	180.3	-5.1753	0.04990
Zn 206.200	-0.4782	ppb	0.3445	72.0	5.2030	-0.47823

Blank (Blk) **9/30/2013, 10:36:36 AM** **Rack S, Tube 1**

Label	Replicates	Concentration	
Ag 328.068	0.0536	0.1306	-0.1842
Al 308.215	-0.9652	1.4064	-0.4412
As 188.980	0.0705	-2.3640	2.2935
B 249.678	0.2336	-0.0632	-0.1704
Ba 389.178	-0.3458	0.3501	-0.0043
Be 313.042	-0.0014	-0.0013	0.0027
Ca 370.602	-0.4848	-1.573	2.057
Cd 226.502	-0.0480	-0.0448	0.0928
Co 228.615	-0.1219	0.1863	-0.0644
Cr 267.716	-0.0764	0.0323	0.0441
Cu 324.754	-0.0665	0.2409	-0.1744
Fe 271.441	-1.7614	1.9745	-0.2130
K 766.491	-0.3175	0.0569	0.2606
Mg 279.078	-0.3805	2.1885	-1.8081
Mn 257.610	-0.0445	0.0216	0.0229
Mo 202.032	0.1388	-0.3531	0.2143
Na 330.237	-60.4374	128.341	-67.9034
Ni 231.604	0.0783	0.1075	-0.1858
Pb 220.353	1.5967	-0.3946	-1.2021
Sb 206.834	0.5191	-0.4044	-0.1148
Se 196.026	2.9673	1.4189	-4.3862
Sn 189.925	0.1882	-0.7353	0.5471
Sr 216.596	-0.2197	0.2570	-0.0373
Ti 334.941	0.0547	-0.0502	-0.0046
Tl 190.794	0.4001	0.3003	-0.7004
V 292.401	-0.0422	-0.0749	0.1171
Zn 206.200	0.2068	0.0393	-0.2460

Label	Sol'n Conc.	Units	SD(Int)	%RSD(Int)	Int. (c/s)
Ag 328.068	0.0000	ppb	15.223	71.5	-21.2837
Al 308.215	0.0000	ppb	7.496	17.6	-42.7068
As 188.980	0.0000	ppb	2.259	28.6	-7.9108
B 249.678	0.0000	ppb	4.188	4.1	102.606
Ba 389.178	0.0000	ppb	9.056	47.8	-18.9465
Be 313.042	0.0000	ppb	5.160	1.9	-273.644
Ca 370.602	0.0000	ppb	5.897	127.5	-4.626
Cd 226.502	0.0000	ppb	4.812	29.5	16.3173
Co 228.615	0.0000	ppb	2.449	33.9	-7.2236
Cr 267.716	0.0000	ppb	4.240	21.3	19.9469
Cu 324.754	0.0000	ppb	14.956	11.9	125.744
Fe 271.441	0.0000	ppb	3.747	24.1	15.5405
K 766.491	0.0000	ppb	12.612	5.2	241.404
Mg 279.078	0.0000	ppb	6.343	19.2	33.0529
Mn 257.610	0.0000	ppb	10.498	28.3	37.0981
Mo 202.032	0.0000	ppb	2.700	34.4	7.8494
Na 330.237	0.0000	ppb	7.031	15.7	44.7078
Ni 231.604	0.0000	ppb	0.658	21.2	-3.1076
Pb 220.353	0.0000	ppb	3.106	23.6	13.1562
Sb 206.834	0.0000	ppb	0.787	205.4	0.3833
Se 196.026	0.0000	ppb	1.956	156.3	1.2517
Sn 189.925	0.0000	ppb	0.761	5.7	-13.2443
Sr 216.596	0.0000	ppb	4.101	40.6	10.0967
Ti 334.941	0.0000	ppb	15.594	42.2	-73.5713

Label	Sol'n Conc.	Units	SD(Int)	%RSD(Int)	Int. (c/s)
Tl 190.794	0.0000	ppb	0.921	7.0	-13.1136
V 292.401	0.0000	ppb	3.252	84.0	-3.8690
Zn 206.200	0.0000	ppb	0.421	6.5	6.4831

HIGH STD (Std) **9/30/2013, 10:41:11 AM** **Rack S, Tube 2**

Label	Replicates	Concentration	
Ag 328.068	992.990	1022.60	984.410
Al 308.215	9881.63	10231.4	9886.93
As 188.980	983.857	1030.66	985.479
B 249.678	987.432	1022.38	990.186
Ba 389.178	9901.79	10215.0	9883.19
Be 313.042	988.202	1021.01	990.788
Ca 370.602	9897	10232	9872
Cd 226.502	990.461	1020.88	988.663
Co 228.615	991.661	1021.27	987.073
Cr 267.716	9909.23	10204.0	9886.80
Cu 324.754	9930.79	10226.6	9842.65
Fe 271.441	9897.49	10227.4	9875.14
K 766.491	19828.9	20407.1	19764.0
Mg 279.078	9903.46	10199.2	9897.36
Mn 257.610	9875.61	10222.9	9901.52
Mo 202.032	991.192	1020.47	988.343
Na 330.237	14941.0	15216.4	14842.6
Ni 231.604	4942.02	5110.71	4947.27
Pb 220.353	991.005	1019.12	989.871
Sb 206.834	1977.69	2046.21	1976.10
Se 196.026	9887.25	10241.3	9871.41
Sn 189.925	9843.32	10282.0	9874.72
Sr 216.596	4943.76	5110.32	4945.92
Ti 334.941	989.244	1022.61	988.151
Tl 190.794	9906.05	10216.1	9877.86
V 292.401	9903.27	10221.3	9875.39
Zn 206.200	4949.83	5102.55	4947.62

Label	Sol'n Conc.	Units	SD(Int)	%RSD(Int)	Int. (c/s)
Ag 328.068	1000.00	ppb	1858.712	2.0	92742.3
Al 308.215	10000.0	ppb	1206.126	2.0	60128.7
As 188.980	1000.00	ppb	25.767	2.7	961.954
B 249.678	1000.00	ppb	388.850	1.9	20112.8
Ba 389.178	10000.0	ppb	4852.009	1.9	260228
Be 313.042	1000.00	ppb	40045.094	1.8	2194996
Ca 370.602	10000	ppb	636.230	2.0	31650
Cd 226.502	1000.00	ppb	1083.781	1.8	59888.8
Co 228.615	1000.00	ppb	277.422	1.9	14941.2
Cr 267.716	10000.0	ppb	11305.106	1.8	638729
Cu 324.754	10000.0	ppb	13956.811	2.0	694142
Fe 271.441	10000.0	ppb	393.691	2.0	19977.8
K 766.491	20000.0	ppb	15228.605	1.8	860427
Mg 279.078	10000.0	ppb	540.355	1.7	31353.2
Mn 257.610	10000.0	ppb	52725.801	1.9	2725655
Mo 202.032	1000.00	ppb	155.802	1.8	8770.30
Na 330.237	15000.0	ppb	12.250	1.2	993.096
Ni 231.604	5000.00	ppb	390.817	4.9	20369.1

Label	Sol'n Conc.	Units	SD(Int)	%RSD(Int)	Int. (c/s)
Pb 220.353	1000.00	ppb	35.726	1.6	2169.05
Sb 206.834	2000.00	ppb	66.728	2.0	3334.49
Se 196.026	10000.0	ppb	105.533	2.1	5046.93
Sn 189.925	10000.0	ppb	281.349	2.4	11485.3
Sr 216.596	5000.00	ppb	1629.028	1.9	85261.2
Ti 334.941	1000.00	ppb	5807.644	2.0	296465
Tl 190.794	10000.0	ppb	283.882	1.9	15113.3
V 292.401	10000.0	ppb	6085.250	1.9	316614
Zn 206.200	5000.00	ppb	163.300	1.8	9199.25

Ag 328.068 Calibration (ppb) **9/30/2013, 10:41:11 AM** **Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-21.2837	0.0000	0.0000	-	-
HIGH STD		92742.3	1000.00	1000.00	0.0000	0.0

Curve Type: Linear Equation: y = 92.8 x + -21.3

Al 308.215 Calibration (ppb) **9/30/2013, 10:41:11 AM** **Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-42.7068	0.0000	0.0000	-	-
HIGH STD		60128.7	10000.0	10000.0	0.0000	0.0

Curve Type: Linear Equation: y = 6.0 x + -42.7

As 188.980 Calibration (ppb) **9/30/2013, 10:41:11 AM** **Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-7.9108	0.0000	0.0000	-	-
HIGH STD		961.954	1000.00	1000.000	-0.0001	0.0

Curve Type: Linear Equation: y = 1.0 x + -7.9

B 249.678 Calibration (ppb) **9/30/2013, 10:41:11 AM** **Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		102.606	0.0000	0.0000	-	-
HIGH STD		20112.8	1000.00	1000.00	0.0000	0.0

Curve Type: Linear Equation: y = 20.0 x + 102.6

Ba 389.178 Calibration (ppb) **9/30/2013, 10:41:11 AM** **Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-18.9465	0.0000	0.0000	-	-
HIGH STD		260228	10000.0	10000.0	0.0000	0.0

Curve Type: Linear Equation: y = 26.0 x + -18.9

Be 313.042 Calibration (ppb) **9/30/2013, 10:41:11 AM** **Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-273.644	0.0000	0.0000	-	-
HIGH STD		2194996	1000.00	1000.00	0.0002	0.0

Curve Type: Linear Equation: y = 2195.3 x + -273.6

Ca 370.602 Calibration (ppb) **9/30/2013, 10:41:11 AM** **Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-4.626	0.0000	0.0000	-	-
HIGH STD		31650	10000	10000	0.0000	0.0

Curve Type: Linear Equation: y = 3.2 x + -4.6

Cd 226.502 Calibration (ppb) **9/30/2013, 10:41:11 AM** **Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		16.3173	0.0000	0.0000	-	-
HIGH STD		59888.8	1000.00	1000.00	0.0000	0.0

Curve Type: Linear Equation: y = 59.9 x + 16.3

Co 228.615 Calibration (ppb) **9/30/2013, 10:41:11 AM** **Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-7.2236	0.0000	0.0000	-	-
HIGH STD		14941.2	1000.00	1000.000	-0.0002	0.0

Curve Type: Linear Equation: y = 14.9 x + -7.2

Cr 267.716 Calibration (ppb) **9/30/2013, 10:41:11 AM** **Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		19.9469	0.0000	0.0000	-	-
HIGH STD		638729	10000.0	10000.0	0.0010	0.0

Curve Type: Linear Equation: y = 63.9 x + 19.9

Cu 324.754 Calibration (ppb) **9/30/2013, 10:41:11 AM** **Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		125.744	0.0000	0.0000	-	-
HIGH STD		694142	10000.0	10000.0	0.0010	0.0

Curve Type: Linear Equation: y = 69.4 x + 125.7

Fe 271.441 Calibration (ppb) **9/30/2013, 10:41:11 AM** **Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		15.5405	0.0000	0.0000	-	-
HIGH STD		19977.8	10000.0	10000.0	0.0000	0.0

Curve Type: Linear Equation: y = 2.0 x + 15.5

K 766.491 Calibration (ppb) 9/30/2013, 10:41:11 AM Correlation Coefficient: 1.000000

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		241.404	0.0000	0.0000	-	-
HIGH STD		860427	20000.0	20000.0	-0.0020	0.0

Curve Type: Linear Equation: y = 43.0 x + 241.4

Mg 279.078 Calibration (ppb) 9/30/2013, 10:41:11 AM Correlation Coefficient: 1.000000

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		33.0529	0.0000	0.0000	-	-
HIGH STD		31353.2	10000.0	10000.0	0.0010	0.0

Curve Type: Linear Equation: y = 3.1 x + 33.1

Mn 257.610 Calibration (ppb) 9/30/2013, 10:41:11 AM Correlation Coefficient: 1.000000

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		37.0981	0.0000	0.0000	-	-
HIGH STD		2725655	10000.0	10000.0	0.0000	0.0

Curve Type: Linear Equation: y = 272.6 x + 37.1

Mo 202.032 Calibration (ppb) 9/30/2013, 10:41:11 AM Correlation Coefficient: 1.000000

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		7.8494	0.0000	0.0000	-	-
HIGH STD		8770.30	1000.00	1000.00	0.0001	0.0

Curve Type: Linear Equation: y = 8.8 x + 7.8

Na 330.237 Calibration (ppb) 9/30/2013, 10:41:11 AM Correlation Coefficient: 1.000000

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		44.7078	0.0000	0.0000	-	-
HIGH STD		993.096	15000.0	15000.0	0.0010	0.0

Curve Type: Linear Equation: y = 0.1 x + 44.7

Ni 231.604 Calibration (ppb) 9/30/2013, 10:41:11 AM Correlation Coefficient: 1.000000

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-3.1076	0.0000	0.0000	-	-
HIGH STD		20369.1	5000.00	5000.00	-0.0010	0.0

Curve Type: Linear Equation: y = 4.1 x + -3.1

Pb 220.353 Calibration (ppb) **9/30/2013, 10:41:11 AM** **Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		13.1562	0.0000	0.0000	-	-
HIGH STD		2169.05	1000.00	1000.00	0.0001	0.0

Curve Type: Linear Equation: y = 2.2 x + 13.2

Sb 206.834 Calibration (ppb) **9/30/2013, 10:41:11 AM** **Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		0.3833	0.0000	0.0000	-	-
HIGH STD		3334.49	2000.00	2000.00	0.0000	0.0

Curve Type: Linear Equation: y = 1.7 x + 0.4

Se 196.026 Calibration (ppb) **9/30/2013, 10:41:11 AM** **Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		1.2517	0.0000	0.0000	-	-
HIGH STD		5046.93	10000.0	10000.00	-0.0010	0.0

Curve Type: Linear Equation: y = 0.5 x + 1.3

Sn 189.925 Calibration (ppb) **9/30/2013, 10:41:11 AM** **Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-13.2443	0.0000	0.0000	-	-
HIGH STD		11485.3	10000.0	10000.0	0.0000	0.0

Curve Type: Linear Equation: y = 1.1 x + -13.2

Sr 216.596 Calibration (ppb) **9/30/2013, 10:41:11 AM** **Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		10.0967	0.0000	0.0000	-	-
HIGH STD		85261.2	5000.00	5000.00	0.0005	0.0

Curve Type: Linear Equation: y = 17.1 x + 10.1

Ti 334.941 Calibration (ppb) **9/30/2013, 10:41:11 AM** **Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-73.5713	0.0000	0.0000	-	-
HIGH STD		296465	1000.00	1000.00	0.0000	0.0

Curve Type: Linear Equation: y = 296.5 x + -73.6

Tl 190.794 Calibration (ppb) **9/30/2013, 10:41:11 AM** **Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-13.1136	0.0000	0.0000	-	-
HIGH STD		15113.3	10000.0	10000.0	0.0000	0.0

Curve Type: Linear Equation: y = 1.5 x + -13.1

V 292.401 Calibration (ppb) 9/30/2013, 10:41:11 AM Correlation Coefficient: 1.000000

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-3.8690	0.0000	0.0000	-	-
HIGH STD		316614	10000.0	10000.00	-0.0010	0.0

Curve Type: Linear Equation: y = 31.7 x + -3.9

Zn 206.200 Calibration (ppb) 9/30/2013, 10:41:11 AM Correlation Coefficient: 1.000000

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		6.4831	0.0000	0.0000	-	-
HIGH STD		9199.25	5000.00	5000.00	0.0000	0.0

Curve Type: Linear Equation: y = 1.8 x + 6.5

Lab Control Sample (LCS) 9/30/2013, 10:45:44 AM Rack S, Tube 2
Weight: 1 Volume: 1 Dilution: 1

Label	Replicates	Concentration		
Ag 328.068	995.252	999.661	998.887	
Al 308.215	9857.77	9821.28	9876.31	
As 188.980	989.561	978.765	997.503	
B 249.678	988.031	988.427	995.059	
Ba 389.178	9933.02	9929.76	9933.49	
Be 313.042	990.004	991.839	992.428	
Ca 370.602	9901	9859	9915	
Cd 226.502	986.223	989.079	991.791	
Co 228.615	988.515	990.133	992.229	
Cr 267.716	9864.37	9873.25	9886.60	
Cu 324.754	9908.16	9941.03	9907.30	
Fe 271.441	9907.79	9911.33	9947.47	
K 766.491	19849.4	19901.6	19907.2	
Mg 279.078	9852.61	9877.49	9898.31	
Mn 257.610	9890.81	9892.37	9942.02	
Mo 202.032	987.314	988.356	990.592	
Na 330.237	14078.6	14201.9	14253.3	
Ni 231.604	4930.36	4934.97	4958.17	
Pb 220.353	982.521	981.834	984.168	
Sb 206.834	1996.23	2000.06	2017.14	
Se 196.026	9863.55	9789.98	9922.35	
Sn 189.925	9875.09	9925.28	9971.77	
Sr 216.596	4929.75	4939.85	4950.98	
Ti 334.941	990.836	988.386	990.632	
Tl 190.794	9861.14	9879.57	9915.72	
V 292.401	9888.54	9894.03	9913.35	
Zn 206.200	4923.86	4931.93	4936.93	

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	997.933	ppb	2.3543	0.2	92405.3	99.79334
Al 308.215	9851.79	ppb	27.9989	0.3	57590.5	98.51787

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
As 188.980	988.610	ppb	9.4051	1.0	950.494	98.86098
B 249.678	990.506	ppb	3.9479	0.4	19895.0	19.81012*
Ba 389.178	9932.09	ppb	2.0292	0.0	258535	99.32091
Be 313.042	991.424	ppb	1.2644	0.1	2175568	99.14236
Ca 370.602	9892	ppb	29.37	0.3	31420	98.91502
Cd 226.502	989.031	ppb	2.7845	0.3	59278.4	98.90312
Co 228.615	990.293	ppb	1.8622	0.2	14822.4	99.02925
Cr 267.716	9874.74	ppb	11.1906	0.1	630653	98.74742
Cu 324.754	9918.83	ppb	19.2330	0.2	688413	99.18829
Fe 271.441	9922.20	ppb	21.9589	0.2	20079.5	99.22198
K 766.491	19886.1	ppb	31.8509	0.2	855528	99.43039
Mg 279.078	9876.14	ppb	22.8763	0.2	30727.7	98.76138
Mn 257.610	9908.40	ppb	29.1278	0.3	2700816	99.08398
Mo 202.032	988.754	ppb	1.6750	0.2	8648.58	98.87543
Na 330.237	14177.9	ppb	89.8042	0.6	843.732	94.51939
Ni 231.604	4941.17	ppb	14.9052	0.3	20126.5	98.82334
Pb 220.353	982.841	ppb	1.1994	0.1	2132.68	98.28410
Sb 206.834	2004.48	ppb	11.1348	0.6	3482.75	100.22380
Se 196.026	9858.63	ppb	66.3242	0.7	4978.13	98.58626
Sn 189.925	9924.05	ppb	48.3511	0.5	11398.0	99.24049
Sr 216.596	4940.19	ppb	10.6184	0.2	84104.3	98.80385
Ti 334.941	989.951	ppb	1.3595	0.1	293533	98.99513
Tl 190.794	9885.47	ppb	27.7654	0.3	14943.3	98.85474
V 292.401	9898.64	ppb	13.0286	0.1	312624	98.98643
Zn 206.200	4930.91	ppb	6.5971	0.1	9027.69	98.61817

Initial Calib Verif (ICV) **9/30/2013, 10:50:19 AM** **Rack S, Tube 3**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	971.019	1002.05	983.306
Al 308.215	949.986	971.463	949.637
As 188.980	988.312	1014.64	978.309
B 249.678	955.512	984.099	961.221
Ba 389.178	1018.50	1048.75	1025.35
Be 313.042	998.807	1029.36x	1005.86x
Ca 370.602	979.2	1007	985.9
Cd 226.502	1001.95x	1029.50x	1004.75x
Co 228.615	966.601	1003.18	978.572
Cr 267.716	1018.99	1049.49	1025.35
Cu 324.754	1020.18	1054.34	1032.10
Fe 271.441	967.866	995.960	973.615
K 766.491	10027.1	10345.3	10153.8
Mg 279.078	1003.85	1034.99	1007.56
Mn 257.610	1031.66	1060.97	1035.12
Mo 202.032	1009.52x	1039.29x	1013.56x
Na 330.237	8921.68	9176.76	9023.23
Ni 231.604	1000.97	1029.27	1003.86
Pb 220.353	1012.94	1037.99	1011.69
Sb 206.834	984.457	1002.43	982.579
Se 196.026	1003.58	1019.55	983.448
Sn 189.925	4926.93	5071.94	4972.94
Sr 216.596	4900.45	5039.91	4918.27
Ti 334.941	976.792	1004.70	982.013

Label	Replicates	Concentration	
Tl 190.794	1024.20	1049.39	1017.38
V 292.401	986.985	1016.05	994.508
Zn 206.200	1002.61	1036.10	1003.22

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	985.457b	ppb	15.6259	1.6	91130.9	98.54573
Al 308.215	957.029b	ppb	12.5020	1.3	5561.25	95.70287
As 188.980	993.755b	ppb	18.7694	1.9	955.469	99.37548
B 249.678	966.944b	ppb	15.1285	1.6	19448.4	96.69438
Ba 389.178	1030.87b	ppb	15.8649	1.5	26821.9	103.08661
Be 313.042	1011.34xb	ppb	15.9955	1.6	2219662	101.13400
Ca 370.602	990.6b	ppb	14.43	1.5	3617	99.06309
Cd 226.502	1012.06xb	ppb	15.1625	1.5	60615.9	101.20631
Co 228.615	982.784b	ppb	18.6491	1.9	14675.8	98.27842
Cr 267.716	1031.28b	ppb	16.0898	1.6	65872.2	103.12795
Cu 324.754	1035.54b	ppb	17.3371	1.7	72019.4	103.55373
Fe 271.441	979.147b	ppb	14.8415	1.5	2130.20	97.91471
K 766.491	10175.4b	ppb	160.213	1.6	437878	101.75405
Mg 279.078	1015.47b	ppb	17.0121	1.7	3188.59	101.54683
Mn 257.610	1042.58b	ppb	16.0139	1.5	284219	104.25841
Mo 202.032	1020.79xb	ppb	16.1477	1.6	8950.12	102.07877
Na 330.237	9040.55b	ppb	128.421	1.4	593.082	90.40555Q
Ni 231.604	1011.36b	ppb	15.5757	1.5	4114.48	101.13644
Pb 220.353	1020.87b	ppb	14.8333	1.5	2211.54	102.08745
Sb 206.834	989.823b	ppb	10.9605	1.1	1659.14	98.98226
Se 196.026	1002.19b	ppb	18.0912	1.8	507.192	100.21931
Sn 189.925	4990.60b	ppb	74.1006	1.5	5725.23	99.81204
Sr 216.596	4952.88b	ppb	75.8997	1.5	84411.4	99.05758
Ti 334.941	987.834b	ppb	14.8348	1.5	292861	98.78339
Tl 190.794	1030.32b	ppb	16.8636	1.6	1548.98	103.03214
V 292.401	999.180b	ppb	15.0842	1.5	31388.1	99.91801
Zn 206.200	1013.98b	ppb	19.1602	1.9	1866.09	101.39781

Initial Calib Blank (ICB) **9/30/2013, 10:54:53 AM** **Rack S, Tube 1**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	0.2387	0.1840	-0.1805u
Al 308.215	-0.2145u	-0.0245u	2.1952
As 188.980	4.4000	5.4698	2.6809
B 249.678	3.8609	3.7187	2.7603
Ba 389.178	1.0545	-0.7839u	1.1233
Be 313.042	0.0115	0.0161	0.0159
Ca 370.602	2.969	4.962	1.338
Cd 226.502	-0.0390u	0.0216	-0.0380u
Co 228.615	-0.0266u	0.0279	0.2855
Cr 267.716	-0.1093u	0.3033	0.1410
Cu 324.754	-0.1187u	0.2812	-0.0845u
Fe 271.441	-0.9007u	0.5063	0.6904
K 766.491	1.2371	0.9250	0.9900
Mg 279.078	-0.2213u	1.8012	0.1224
Mn 257.610	0.0789	0.1138	0.1210
Mo 202.032	0.1424	0.6331	0.2607
Na 330.237	113.819	-19.1602u	-13.1291u

Label	Replicates Concentration		
Ni 231.604	0.8086	-0.3039u	0.7537
Pb 220.353	-0.0064u	0.0866	0.3198
Sb 206.834	1.6301	3.6159	3.0908
Se 196.026	4.0040	-8.1331u	7.5448
Sn 189.925	2.5495	0.2835	-0.0272u
Sr 216.596	0.2412	0.2100	0.2368
Ti 334.941	0.2979	0.2169	0.2075
Tl 190.794	-0.7548u	3.0730	2.4671
V 292.401	0.2273	0.0430	0.1714
Zn 206.200	-0.2764u	1.0319	-0.2316u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.0807	ppb	0.2279	282.3	-13.8067	0.08072
Al 308.215	0.6521	ppb	1.3398	205.5	-38.7928	0.65206
As 188.980	4.1836	ppb	1.4070	33.6	-3.8534	4.18355
B 249.678	3.4466	ppb	0.5986	17.4	171.576	3.44664
Ba 389.178	0.4646	ppb	1.0818	232.8	-6.8541	0.46461
Be 313.042	0.0145	ppb	0.0026	18.0	-241.905	0.01449
Ca 370.602	3.090	ppb	1.815	58.7	5.336	3.08975
Cd 226.502	-0.0185	ppb	0.0347	187.9	15.2087	-0.01846
Co 228.615	0.0956	ppb	0.1667	174.4	-5.7992	0.09561
Cr 267.716	0.1117	ppb	0.2079	186.1	27.0807	0.11169
Cu 324.754	0.0260	ppb	0.2216	852.5	127.558	0.02600
Fe 271.441	0.0987	ppb	0.8703	882.1	15.7530	0.09867
K 766.491	1.0507	ppb	0.1647	15.7	286.593	1.05067
Mg 279.078	0.5674	ppb	1.0822	190.7	34.8267	0.56744
Mn 257.610	0.1046	ppb	0.0225	21.5	65.5968	0.10457
Mo 202.032	0.3454	ppb	0.2561	74.1	10.8758	0.34541
Na 330.237	27.1764	ppb	75.0950	276.3	46.4202	27.17638
Ni 231.604	0.4195	ppb	0.6270	149.5	-1.3989	0.41947
Pb 220.353	0.1333	ppb	0.1681	126.0	13.4429	0.13335
Sb 206.834	2.7789	ppb	1.0290	37.0	5.0117	2.77893
Se 196.026	1.1386	ppb	8.2224	722.2	1.8262	1.13857
Sn 189.925	0.9353	ppb	1.4066	150.4	-12.1688	0.93528
Sr 216.596	0.2293	ppb	0.0169	7.4	13.9857	0.22934
Ti 334.941	0.2408	ppb	0.0497	20.6	-2.1749	0.24078
Tl 190.794	1.5951	ppb	2.0575	129.0	-10.7005	1.59513
V 292.401	0.1473	ppb	0.0945	64.2	0.7313	0.14726
Zn 206.200	0.1746	ppb	0.7428	425.3	6.8036	0.17464

CRI (CRI) **9/30/2013, 10:59:48 AM** **Rack S, Tube 4**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	10.0831	10.3450	10.4795
Al 308.215	216.736	221.558	220.907
As 188.980	25.6194	22.8363	24.9471
B 249.678	101.406	103.671	103.635
Ba 389.178	11.0039	11.5024	10.6519
Be 313.042	4.2487	4.3027	4.2842
Ca 370.602	534.1	545.8	539.9
Cd 226.502	5.2150	5.2844	5.4146
Co 228.615	10.6280	10.6911	10.6882
Cr 267.716	10.7488	10.9869	10.9411

Label	Replicates Concentration		
Cu 324.754	21.1328	21.7267	21.5310
Fe 271.441	56.3828	53.1875	56.9615
K 766.491	1041.90	1057.60	1053.89
Mg 279.078	538.796	547.671	542.195
Mn 257.610	10.8692	11.0989	11.0625
Mo 202.032	11.1812	10.7598	11.0085
Na 330.237	855.534	1051.00	860.149
Ni 231.604	43.3078	44.2251	43.5320
Pb 220.353	9.4357	10.5223	9.8389
Sb 206.834	22.7243	24.0869	20.1970
Se 196.026	23.2470	22.8877	20.2937
Sn 189.925	52.3528	54.2605	53.3778
Sr 216.596	10.2214	10.5604	10.2572
Ti 334.941	10.3279	10.5966	10.5144
Tl 190.794	27.2963	30.9005	25.4771
V 292.401	10.4332	10.7046	10.6351
Zn 206.200	20.1791	19.7028	19.8649

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	10.3025	ppb	0.2016	2.0	933.979	103.02532
Al 308.215	219.734	ppb	2.6164	1.2	1277.82	109.86679
As 188.980	24.4676	ppb	1.4522	5.9	15.8174	122.33800R
B 249.678	102.904	ppb	1.2975	1.3	2161.59	102.90398
Ba 389.178	11.0527	ppb	0.4273	3.9	270.470	110.52721
Be 313.042	4.2785	ppb	0.0274	0.6	9116.46	106.96304
Ca 370.602	539.9	ppb	5.883	1.1	1706	107.98574
Cd 226.502	5.3047	ppb	0.1014	1.9	334.176	106.09337
Co 228.615	10.6691	ppb	0.0356	0.3	152.176	106.69112
Cr 267.716	10.8923	ppb	0.1264	1.2	715.577	108.92287
Cu 324.754	21.4635	ppb	0.3027	1.4	1615.64	107.31757
Fe 271.441	55.5106	ppb	2.0326	3.7	128.087	111.02116
K 766.491	1051.13	ppb	8.2056	0.8	45449.7	105.11283
Mg 279.078	542.887	ppb	4.4781	0.8	1733.05	108.57748
Mn 257.610	11.0102	ppb	0.1235	1.1	3043.47	110.10181
Mo 202.032	10.9831	ppb	0.2118	1.9	104.061	109.83134
Na 330.237	922.228	ppb	111.544	12.1	102.581	92.22279
Ni 231.604	43.6883	ppb	0.4782	1.1	174.865	109.22080
Pb 220.353	9.9323	ppb	0.5493	5.5	34.5414	99.32296
Sb 206.834	22.3361	ppb	1.9738	8.8	37.6239	111.68044
Se 196.026	22.1428	ppb	1.6114	7.3	12.4272	110.71410
Sn 189.925	53.3303	ppb	0.9548	1.8	48.0787	106.66070
Sr 216.596	10.3464	ppb	0.1863	1.8	185.276	103.46352
Ti 334.941	10.4796	ppb	0.1377	1.3	3036.58	104.79629
Tl 190.794	27.8913	ppb	2.7603	9.9	29.1107	111.56528
V 292.401	10.5910	ppb	0.1410	1.3	328.850	105.90959
Zn 206.200	19.9156	ppb	0.2422	1.2	43.0504	99.57811

Interf Check A (ICSA) **9/30/2013, 11:05:23 AM** **Rack S, Tube 5**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.2972u	0.3798	0.0448u
Al 308.215	534113	535519	535558
As 188.980	4.1046	-7.6369u	-7.9237u

Label	Replicates	Concentration	
B 249.678	8.2646u	8.7294u	9.2252u
Ba 389.178	-5.1552	-4.6989	-4.8285
Be 313.042	-0.1045u	-0.0999	-0.1007
Ca 370.602	489780	489657	492443
Cd 226.502	1.9187	1.8604	1.5444
Co 228.615	1.5734	1.0567	0.6248
Cr 267.716	0.5430	0.5155	0.2346
Cu 324.754	0.7301	-0.0413	0.8832
Fe 271.441	182929	182549	182515
K 766.491	2.4716	2.3384	2.6261
Mg 279.078	509717	509151	508914
Mn 257.610	0.7633	0.6649	0.6768
Mo 202.032	1.3986	1.4176	0.9343u
Na 330.237	-637.513u	-457.672u	-562.993u
Ni 231.604	7.0228	6.7352	7.2722
Pb 220.353	1.2173	1.2967	2.8601
Sb 206.834	4.3146	4.4835	3.1811
Se 196.026	-7.2758u	14.9837	-9.2158u
Sn 189.925	0.3030	-1.6644u	-6.2446u
Sr 216.596	6.7967	6.2915	5.9072
Ti 334.941	1.7952	1.7968	1.7756
Tl 190.794	-3.0275u	-10.7735u	-7.5452u
V 292.401	3.9226	3.5753	4.1255
Zn 206.200	13.7958	13.0710	12.7826

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.0425	ppb	0.3385	797.1	-26.9544	0.04247
Al 308.215	535063	ppb	823.524	0.2	3219506	-
As 188.980	-3.8187	ppb	6.8633	179.7	-6.6680	-3.81866
B 249.678	8.7397	ppb	0.4804	5.5	-229.812	8.73974
Ba 389.178	-4.8942	ppb	0.2352	4.8	1644.16	-4.89420
Be 313.042	-0.1017	ppb	0.0025	2.4	-274.584	-0.10169
Ca 370.602	490627	ppb	1575	0.3	1538594	-
Cd 226.502	1.7745	ppb	0.2014	11.4	972.573	1.77450
Co 228.615	1.0850	ppb	0.4749	43.8	17.3494	1.08498
Cr 267.716	0.4310	ppb	0.1707	39.6	111.307	0.43103
Cu 324.754	0.5240	ppb	0.4955	94.6	236.922	0.52398
Fe 271.441	182664	ppb	229.992	0.1	364655	-
K 766.491	2.4787	ppb	0.1440	5.8	348.010	2.47867
Mg 279.078	509261	ppb	412.754	0.1	1594874	-
Mn 257.610	0.7017	ppb	0.0537	7.7	5734.14	0.70166
Mo 202.032	1.2502	ppb	0.2737	21.9	7.7653	1.25017
Na 330.237	-552.726	ppb	90.3590	16.3	-57.7442	-552.72583
Ni 231.604	7.0100	ppb	0.2687	3.8	31.5994	7.01005
Pb 220.353	1.7914	ppb	0.9264	51.7	21.8615	1.79136
Sb 206.834	3.9931	ppb	0.7082	17.7	13.9505	3.99308
Se 196.026	-0.5027	ppb	13.4466	2675.1	1.6384	-0.50265
Sn 189.925	-2.5353	ppb	3.3596	132.5	-15.8892	-2.53531
Sr 216.596	6.3318	ppb	0.4461	7.0	450.680	6.33181
Ti 334.941	1.7892	ppb	0.0118	0.7	2947.66	1.78918
Tl 190.794	-7.1154	ppb	3.8908	54.7	-41.5593	-7.11542
V 292.401	3.8745	ppb	0.2782	7.2	121.924	3.87447
Zn 206.200	13.2165	ppb	0.5221	4.0	33.0898	13.21646

Interf Check AB (ICSAB) **9/30/2013, 11:09:59 AM** **Rack S, Tube 6**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	220.503	221.201	220.897
Al 308.215	535791	535591	535912
As 188.980	97.4846	107.208	104.281
B 249.678	10.1076u	9.4436u	9.7889u
Ba 389.178	516.765	515.065	516.802
Be 313.042	486.208	483.221	485.523
Ca 370.602	487173	488058	488735
Cd 226.502	951.917	951.539	956.136
Co 228.615	476.317	474.066	476.654
Cr 267.716	506.541	505.839	506.330
Cu 324.754	570.396	566.069	570.210
Fe 271.441	187303	186732	187170
K 766.491	4.8099	4.2946	4.7619
Mg 279.078	521339	519991	522727
Mn 257.610	512.116	510.759	512.589
Mo 202.032	1170.34x	1170.92x	1174.10x
Na 330.237	-275.913u	-267.918u	-325.240u
Ni 231.604	945.946	943.903	951.493
Pb 220.353	48.3659	51.8593	48.5834
Sb 206.834	616.660	615.381	608.981
Se 196.026	48.7661	43.8377	56.9899
Sn 189.925	1089.43	1086.83	1092.84
Sr 216.596	4.5440	4.0177	4.4913
Ti 334.941	2.3771	2.3193	2.3956
Tl 190.794	88.4956	83.5763	90.8720
V 292.401	497.746	498.412	498.355
Zn 206.200	954.680	951.371	956.635

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	220.867b	ppb	0.3499	0.2	20464.3	110.43350
Al 308.215	535765b	ppb	162.189	0.0	3223687	107.15295
As 188.980	102.991b	ppb	4.9886	4.8	96.6050	102.99146
B 249.678	9.7800b	ppb	0.3321	3.4	-221.171	-
Ba 389.178	516.210b	ppb	0.9926	0.2	15254.2	103.24209
Be 313.042	484.984b	ppb	1.5646	0.3	1064393	96.99681
Ca 370.602	487989b	ppb	783.3	0.2	1529916	97.59771
Cd 226.502	953.197b	ppb	2.5518	0.3	57957.0	95.31971
Co 228.615	475.679b	ppb	1.4074	0.3	7071.14	95.13583
Cr 267.716	506.237b	ppb	0.3606	0.1	32403.7	101.24732
Cu 324.754	568.891b	ppb	2.4460	0.4	39722.2	113.77830
Fe 271.441	187068b	ppb	298.726	0.2	373524	93.53398
K 766.491	4.6222b	ppb	0.2847	6.2	440.200	-
Mg 279.078	521352b	ppb	1367.97	0.3	1632728	104.27048
Mn 257.610	511.822b	ppb	0.9500	0.2	145171	102.36435
Mo 202.032	1171.79xb	ppb	2.0239	0.2	10263.2	117.17899
Na 330.237	-289.690b	ppb	31.0453	10.7	-59.8356	-
Ni 231.604	947.114b	ppb	3.9277	0.4	3860.62	94.71143
Pb 220.353	49.6029b	ppb	1.9572	3.9	122.897	99.20574
Sb 206.834	613.674b	ppb	4.1142	0.7	1020.07	102.27902
Se 196.026	49.8646b	ppb	6.6446	13.3	27.1961	99.72913
Sn 189.925	1089.70b	ppb	3.0138	0.3	1240.03	108.96968
Sr 216.596	4.3510b	ppb	0.2899	4.6	375.708	-

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ti 334.941	2.3640b	ppb	0.0398	1.7	3174.29	-
Tl 190.794	87.6480b	ppb	3.7209	4.2	102.687	87.64796
V 292.401	498.171b	ppb	0.3695	0.1	15514.1	99.63425
Zn 206.200	954.229b	ppb	2.6606	0.3	1760.96	95.42287

LRA1 (Samp) **9/30/2013, 11:14:36 AM** **Rack S, Tube 7**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.6256	-1.0036	-1.4530
Al 308.215	159.034	159.073	156.567
As 188.980	21276.7x	21251.7x	21118.2x
B 249.678	5199.19x	5196.26x	5196.85x
Ba 389.178	-1.0615u	-0.5607u	-1.3694u
Be 313.042	0.1358	0.1375	0.1332
Ca 370.602	783.2	766.3	786.6
Cd 226.502	-0.8931u	-0.9423u	-0.9747u
Co 228.615	10750.2	10713.9	10737.2
Cr 267.716	-2.3540	-2.2325	-2.2896
Cu 324.754	-7.5851u	-7.1059u	-7.3215u
Fe 271.441	-30.5945	-34.1777	-25.8472
K 766.491	11.2113	11.4932	11.8733
Mg 279.078	58.8905u	59.6581u	57.6315u
Mn 257.610	29405.5x	29333.8x	29344.7x
Mo 202.032	0.5275	1.0152	-0.1645u
Na 330.237	-5450.22u	-5445.25u	-5504.54u
Ni 231.604	10762.5x	10725.2x	10714.6x
Pb 220.353	21698.2x	21606.5x	21591.3x
Sb 206.834	14.1059	13.0560	11.7654
Se 196.026	-1.0060	-12.9423	-6.1783
Sn 189.925	0.2131	1.1613	-0.6849u
Sr 216.596	-12.9345u	-13.3477u	-11.9870u
Ti 334.941	33592.8x	33518.8x	33534.4x
Tl 190.794	26.6647	32.2509	28.1369
V 292.401	-2.4254	-3.0375	-2.7255
Zn 206.200	2.5174	1.8361	1.0567

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.0274b	ppb	0.4142	40.3	51.7150
Al 308.215	158.225b	ppb	1.4355	0.9	452.888
As 188.980	21215.5xb	ppb	85.2381	0.4	20568.3
B 249.678	5197.44xb	ppb	1.5505	0.0	104102
Ba 389.178	-0.9972b	ppb	0.4081	40.9	-44.0277
Be 313.042	0.1355b	ppb	0.0022	1.6	2.2627
Ca 370.602	778.7b	ppb	10.88	1.4	21220
Cd 226.502	-0.9367b	ppb	0.0411	4.4	-35.5348
Co 228.615	10733.8b	ppb	18.3915	0.2	161421
Cr 267.716	-2.2921b	ppb	0.0608	2.7	127.290
Cu 324.754	-7.3375b	ppb	0.2400	3.3	-383.623
Fe 271.441	-30.2064b	ppb	4.1788	13.8	1579.64
K 766.491	11.5259b	ppb	0.3322	2.9	737.126
Mg 279.078	58.7267b	ppb	1.0231	1.7	-479.812
Mn 257.610	29361.3xb	ppb	38.6738	0.1	8002814
Mo 202.032	0.4594b	ppb	0.5928	12.9	11.7869

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Na 330.237	-5466.67b	ppb	32.8877	0.6	-451.016
Ni 231.604	10734.1xb	ppb	25.1509	0.2	43697.3
Pb 220.353	21632.0xb	ppb	57.8297	0.3	46629.7
Sb 206.834	12.9758b	ppb	1.1723	9.0	22.0525
Se 196.026	-6.7089b	ppb	5.9858	89.2	5.2564
Sn 189.925	0.2298b	ppb	0.9232	401.7	-12.9810
Sr 216.596	-12.7564b	ppb	0.6977	5.5	-493.619
Ti 334.941	33548.7xb	ppb	39.0078	0.1	9948392
Tl 190.794	29.0175b	ppb	2.8954	10.0	57.8017
V 292.401	-2.7295b	ppb	0.3061	11.2	518.456
Zn 206.200	1.8034b	ppb	0.7309	40.5	9.8011

LRA2 (Samp) **9/30/2013, 11:19:13 AM** **Rack S, Tube 8**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	-0.6164u	-1.2293u	-1.6543u
Al 308.215	843273x	844817x	842495x
As 188.980	41.4651	29.8530	21.3342
B 249.678	50.4607u	47.6093u	46.3720u
Ba 389.178	-0.6689	-1.4179	0.2749
Be 313.042	-0.0298	-0.0333	-0.0325
Ca 370.602	795302	792366	792875
Cd 226.502	12.8257	12.5681	13.3994
Co 228.615	6.6832	5.9596	7.1052
Cr 267.716	8.8367	8.8827	8.8745
Cu 324.754	-1.7732	-2.3400	-1.2385
Fe 271.441	963552	965189	971407
K 766.491	346.648	347.616	349.843
Mg 279.078	827905	828560	829325
Mn 257.610	9.6736	9.5426	9.7908
Mo 202.032	4.7057u	4.6314u	4.3192u
Na 330.237	-1689.05u	-1896.13u	-1898.15u
Ni 231.604	12.7972	11.7206	13.0891
Pb 220.353	-1.1902	9.6111	5.6787
Sb 206.834	7.3276	3.8034	-1.8502
Se 196.026	2.5515	12.4678	9.4698
Sn 189.925	0.5153	-0.9712u	-2.5907u
Sr 216.596	35.5050	35.3813	34.7015
Ti 334.941	9.8629	9.3317	8.9754
Tl 190.794	-28.2138u	-34.2298u	-27.1844u
V 292.401	14.9916	15.5357	14.4198
Zn 206.200	2.5710	5.1134	-4.4158

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.1666b	ppb	0.5218	44.7	-152.332
Al 308.215	843528xb	ppb	1182.20	0.1	5075582
As 188.980	30.8841b	ppb	10.1050	32.7	19.7496
B 249.678	48.1474b	ppb	2.0968	4.4	-1617.74
Ba 389.178	-0.6040b	ppb	0.8483	140.5	3940.99
Be 313.042	-0.0319b	ppb	0.0018	5.7	-1.7413
Ca 370.602	793514b	ppb	1569	0.2	2435372
Cd 226.502	12.9311b	ppb	0.4255	3.3	5249.59
Co 228.615	6.5827b	ppb	0.5794	4.8	134.632

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Cr 267.716	8.8646b	ppb	0.0245	0.3	899.363
Cu 324.754	-1.7839b	ppb	0.5508	30.9	397.709
Fe 271.441	966716b	ppb	4144.63	0.4	1929801
K 766.491	348.036b	ppb	1.6382	0.5	15210.2
Mg 279.078	828596b	ppb	710.764	0.1	2595114
Mn 257.610	9.6690b	ppb	0.1242	1.3	13783.3
Mo 202.032	4.5521b	ppb	0.2051	4.5	-10.6479
Na 330.237	-1827.78b	ppb	120.142	6.6	-426.553
Ni 231.604	12.5356b	ppb	0.7207	5.7	79.4095
Pb 220.353	4.6999b	ppb	5.4667	116.3	92.4146
Sb 206.834	3.0936b	ppb	4.6299	149.7	42.2536
Se 196.026	8.1630b	ppb	5.0857	62.3	8.7429
Sn 189.925	-1.0155b	ppb	1.5535	153.0	-14.0001
Sr 216.596	35.1959b	ppb	0.4326	1.2	2087.46
Ti 334.941	9.3900b	ppb	0.4467	4.8	6843.17
Tl 190.794	-29.8760b	ppb	3.8055	12.7	-151.810
V 292.401	14.9824b	ppb	0.5580	3.7	475.517
Zn 206.200	1.0895b	ppb	4.9343	452.9	20.6659

K NA ZN (Samp) **9/30/2013, 11:23:51 AM** **Rack S, Tube 9**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	-0.1076u	0.3346	-0.0982u
Al 308.215	42.4561	43.4468	46.2018
As 188.980	5.6979	8.0937	4.6671
B 249.678	6.4030	5.7940	5.5486
Ba 389.178	1.6318	0.5333	1.2073
Be 313.042	0.0146	0.0170	0.0190
Ca 370.602	41.06	44.16	44.41
Cd 226.502	0.0723	-0.0037u	-0.0773u
Co 228.615	0.4414	0.0795	0.3148
Cr 267.716	-0.0466u	0.0375	0.0395
Cu 324.754	-0.1978u	-0.0185u	-0.0797u
Fe 271.441	36.5163	41.2797	41.9130
K 766.491	43588.7x	43401.0x	43684.6x
Mg 279.078	33.4320	34.5901	32.3866
Mn 257.610	0.5096	0.5685	0.5686
Mo 202.032	-0.0171u	-0.6164u	0.1858
Na 330.237	101658x	101083x	101764x
Ni 231.604	0.1627	0.6988	0.8066
Pb 220.353	0.3550	0.5911	2.4796
Sb 206.834	5.3264	2.6980	1.9315
Se 196.026	5.3071	1.5056	4.3890
Sn 189.925	0.4314	0.3046	0.1421
Sr 216.596	0.0945	0.1348	0.3494
Ti 334.941	1.2238	1.2857	1.1992
Tl 190.794	-0.0519u	-0.4912u	-0.4111u
V 292.401	0.1667	0.3492	-0.0506u
Zn 206.200	32025.6x	31737.7x	32048.2x

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0429b	ppb	0.2526	588.3	-17.3023
Al 308.215	44.0349b	ppb	1.9408	4.4	222.211

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	6.1529b	ppb	1.7580	28.6	-1.9431
B 249.678	5.9152b	ppb	0.4399	7.4	221.018
Ba 389.178	1.1242b	ppb	0.5539	49.3	10.4684
Be 313.042	0.0169b	ppb	0.0022	13.0	-249.980
Ca 370.602	43.21b	ppb	1.865	4.3	129.8
Cd 226.502	-0.0029b	ppb	0.0748	2606.5	15.4313
Co 228.615	0.2785b	ppb	0.1836	65.9	-2.9745
Cr 267.716	0.0101b	ppb	0.0491	485.2	22.2225
Cu 324.754	-0.0987b	ppb	0.0912	92.4	118.901
Fe 271.441	39.9030b	ppb	2.9500	7.4	95.2393
K 766.491	43558.1xb	ppb	144.242	0.3	1873644
Mg 279.078	33.4696b	ppb	1.1023	3.3	137.858
Mn 257.610	0.5489b	ppb	0.0340	6.2	186.515
Mo 202.032	-0.1492b	ppb	0.4171	279.5	6.5393
Na 330.237	101502xb	ppb	366.563	0.4	5880.49
Ni 231.604	0.5560b	ppb	0.3448	62.0	-0.7945
Pb 220.353	1.1419b	ppb	1.1645	102.0	15.6201
Sb 206.834	3.3186b	ppb	1.7805	53.7	5.9230
Se 196.026	3.7339b	ppb	1.9836	53.1	3.1360
Sn 189.925	0.2927b	ppb	0.1450	49.6	-12.8590
Sr 216.596	0.1929b	ppb	0.1370	71.0	13.4377
Ti 334.941	1.2362b	ppb	0.0446	3.6	285.003
Tl 190.794	-0.3180b	ppb	0.2339	73.6	-13.5973
V 292.401	0.1551b	ppb	0.2001	129.1	0.2020
Zn 206.200	31937.2xb	ppb	173.130	0.5	58724.7

Cont Calib Verif (CCV) **9/30/2013, 11:29:49 AM** **Rack 1, Tube 1**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	490.605	490.696	490.891
Al 308.215	4853.08	4856.55	4850.73
As 188.980	489.121	484.710	490.774
B 249.678	489.256	488.109	489.084
Ba 389.178	5041.23	5034.91	5049.88
Be 313.042	501.225	499.671	502.498
Ca 370.602	5061	5082	5090
Cd 226.502	505.088	500.504	503.377
Co 228.615	502.848	502.322	503.661
Cr 267.716	5136.58	5125.87	5136.35
Cu 324.754	5198.09	5177.69	5182.75
Fe 271.441	4862.89	4868.48	4886.82
K 766.491	10167.1	10205.1	10220.9
Mg 279.078	5020.46	5010.00	5011.92
Mn 257.610	5112.16	5120.16	5125.27
Mo 202.032	512.189	510.200	510.699
Na 330.237	6884.55	7082.82	7181.00
Ni 231.604	2524.37	2516.88	2515.36
Pb 220.353	509.204	504.309	502.919
Sb 206.834	998.338	1007.79	1007.70
Se 196.026	5050.30	5078.46	5070.34
Sn 189.925	5099.39	5062.01	5056.56
Sr 216.596	2600.66	2590.16	2596.56
Ti 334.941	488.819	490.136	490.333

Label	Replicates Concentration		
Tl 190.794	5068.49	5069.13	5076.49
V 292.401	5000.45	5005.06	5022.26
Zn 206.200	2541.47	2526.79	2528.64

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	490.731	ppb	0.1461	0.0	45423.4	98.14611
Al 308.215	4853.45	ppb	2.9295	0.1	28328.5	97.06908
As 188.980	488.202	ppb	3.1349	0.6	465.366	97.64036
B 249.678	488.816	ppb	0.6186	0.1	9870.23	97.76320
Ba 389.178	5042.00	ppb	7.5158	0.1	131235	100.84010
Be 313.042	501.131	ppb	1.4156	0.3	1099539	100.22626
Ca 370.602	5078	ppb	14.79	0.3	16133	101.55126
Cd 226.502	502.990	ppb	2.3162	0.5	30154.3	100.59795
Co 228.615	502.944	ppb	0.6748	0.1	7524.13	100.58878
Cr 267.716	5132.93	ppb	6.1175	0.1	327827	102.65869
Cu 324.754	5186.18	ppb	10.6233	0.2	360007	103.72352
Fe 271.441	4872.73	ppb	12.5156	0.3	9873.27	97.45455
K 766.491	10197.7	ppb	27.6488	0.3	438836	101.97661
Mg 279.078	5014.13	ppb	5.5660	0.1	15615.0	100.28256
Mn 257.610	5119.20	ppb	6.6086	0.1	1395399	102.38396
Mo 202.032	511.029	ppb	1.0346	0.2	4474.00	102.20584
Na 330.237	7049.46	ppb	151.016	2.1	440.639	93.99277
Ni 231.604	2518.87	ppb	4.8194	0.2	10258.4	100.75482
Pb 220.353	505.477	ppb	3.3012	0.7	1103.24	101.09548
Sb 206.834	1004.61	ppb	5.4319	0.5	1748.18	100.46103
Se 196.026	5066.37	ppb	14.4926	0.3	2558.88	101.32732
Sn 189.925	5072.65	ppb	23.3120	0.5	5819.58	101.45303
Sr 216.596	2595.79	ppb	5.2890	0.2	44198.7	103.83175
Ti 334.941	489.763	ppb	0.8229	0.2	145184	97.95255
Tl 190.794	5071.37	ppb	4.4413	0.1	7659.64	101.42740
V 292.401	5009.26	ppb	11.4938	0.2	158193	100.18513
Zn 206.200	2532.30	ppb	7.9950	0.3	4639.10	101.29198

Cont Calib Blank (CCB) **9/30/2013, 11:34:23 AM** **Rack 1, Tube 2**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.1123	0.3440	0.0518
Al 308.215	-1.4501u	-1.7129u	-0.5465u
As 188.980	-0.0063u	3.1637	3.2132
B 249.678	2.8287	2.4636	2.1551
Ba 389.178	0.3429	0.7474	0.4617
Be 313.042	0.0062	0.0091	0.0105
Ca 370.602	1.593	-2.871u	1.430
Cd 226.502	0.0609	-0.0101u	0.0191
Co 228.615	0.1604	-0.1430u	0.0180
Cr 267.716	0.2259	0.2067	0.1493
Cu 324.754	0.0701	0.0889	-0.2925u
Fe 271.441	2.2639	-3.5395u	2.6286
K 766.491	1.4810	1.6329	1.4092
Mg 279.078	-0.4741u	1.9618	-1.2768u
Mn 257.610	0.0785	0.1166	0.1161
Mo 202.032	-0.0037u	0.1903	0.0591
Na 330.237	-111.115u	-36.7917u	13.2342

Label	Replicates Concentration		
Ni 231.604	0.6917	0.0959	-0.1348u
Pb 220.353	1.1062	-1.3218u	1.0740
Sb 206.834	4.0994	-0.9640u	3.9478
Se 196.026	-1.2215u	3.3997	-0.4145u
Sn 189.925	-0.6503u	3.0763	-0.4248u
Sr 216.596	-0.0308u	-0.4422u	0.0698
Ti 334.941	0.3141	0.2978	0.2616
Tl 190.794	0.4348	-0.4901u	2.2905
V 292.401	0.4218	0.0001u	-0.0645u
Zn 206.200	-0.4655u	0.4196	0.2806

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.1694	ppb	0.1542	91.0	-5.5569	0.16938
Al 308.215	-1.2365	ppb	0.6118	49.5	-50.1583	-1.23648
As 188.980	2.1235	ppb	1.8447	86.9	-5.8513	2.12353
B 249.678	2.4825	ppb	0.3372	13.6	152.278	2.48245
Ba 389.178	0.5173	ppb	0.2079	40.2	-5.4807	0.51735
Be 313.042	0.0086	ppb	0.0022	25.7	-254.787	0.00860
Ca 370.602	0.0504	ppb	2.532	5019.0	-4.374	0.05044
Cd 226.502	0.0233	ppb	0.0357	153.4	17.7144	0.02327
Co 228.615	0.0118	ppb	0.1518	1285.0	-7.0422	0.01182
Cr 267.716	0.1940	ppb	0.0399	20.6	32.3346	0.19398
Cu 324.754	-0.0445	ppb	0.2150	483.1	122.658	-0.04451
Fe 271.441	0.4510	ppb	3.4607	767.3	16.4443	0.45101
K 766.491	1.5077	ppb	0.1142	7.6	306.249	1.50768
Mg 279.078	0.0703	ppb	1.6865	2399.4	33.2715	0.07029
Mn 257.610	0.1037	ppb	0.0218	21.0	65.3764	0.10374
Mo 202.032	0.0819	ppb	0.0990	120.9	8.5667	0.08189
Na 330.237	-44.8909	ppb	62.5690	139.4	41.8549	-44.89088
Ni 231.604	0.2176	ppb	0.4265	196.0	-2.2211	0.21759
Pb 220.353	0.2861	ppb	1.3926	486.7	13.7729	0.28612
Sb 206.834	2.3611	ppb	2.8806	122.0	4.3205	2.36107
Se 196.026	0.5879	ppb	2.4683	419.8	1.5484	0.58790
Sn 189.925	0.6671	ppb	2.0895	313.2	-12.4773	0.66708
Sr 216.596	-0.1344	ppb	0.2713	201.8	7.8005	-0.13441
Ti 334.941	0.2912	ppb	0.0269	9.2	12.7754	0.29116
Tl 190.794	0.7451	ppb	1.4160	190.0	-11.9867	0.74507
V 292.401	0.1191	ppb	0.2641	221.7	-0.1214	0.11915
Zn 206.200	0.0783	ppb	0.4760	608.1	6.6261	0.07827

mb 680-295845/1-a (Samp) **9/30/2013, 11:38:57 AM** **Rack 1, Tube 3**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.3098	0.4145	0.2211
Al 308.215	5.6039	3.8322	3.7967
As 188.980	0.7012	-1.0394u	-0.5572u
B 249.678	1.8660	2.4270	2.5331
Ba 389.178	0.6834	0.6011	-0.0282u
Be 313.042	0.0017	0.0026	0.0070
Ca 370.602	14.73	19.48	19.09
Cd 226.502	0.0768	-0.0137u	0.0425
Co 228.615	0.1283	0.2822	-0.5457u
Cr 267.716	1.3660	1.4150	1.3536

Label	Replicates Concentration		
Cu 324.754	0.1042	-0.1219u	0.4269
Fe 271.441	27.9501	16.8282	22.3026
K 766.491	9.5460	8.7460	9.5727
Mg 279.078	17.7161	19.2800	20.8555
Mn 257.610	0.3200	0.3147	0.3462
Mo 202.032	0.0198	-0.3904u	0.1442
Na 330.237	4.8317	-109.708u	61.6573
Ni 231.604	-0.0715u	0.0247	0.1565
Pb 220.353	0.8933	2.0044	4.4860
Sb 206.834	1.5886	0.3929	0.2081
Se 196.026	3.0405	5.2164	4.3767
Sn 189.925	10.8245	10.8698	10.8390
Sr 216.596	0.5844	-0.1257u	0.0368
Ti 334.941	0.3498	0.3719	0.3451
Tl 190.794	-0.3460u	-1.3981u	0.8574
V 292.401	0.2111	0.2556	0.0439
Zn 206.200	0.6792	0.8156	0.6109

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.3151	ppb	0.0968	30.7	7.9493
Al 308.215	4.4109	ppb	1.0333	23.4	-16.2015
As 188.980	-0.2985	ppb	0.8987	301.1	-8.2004
B 249.678	2.2754	ppb	0.3585	15.8	148.074
Ba 389.178	0.4188	ppb	0.3893	93.0	-7.9581
Be 313.042	0.0038	ppb	0.0028	73.9	-265.286
Ca 370.602	17.77	ppb	2.638	14.8	50.04
Cd 226.502	0.0352	ppb	0.0457	129.9	18.5265
Co 228.615	-0.0451	ppb	0.4404	976.8	-7.8826
Cr 267.716	1.3782	ppb	0.0325	2.4	107.981
Cu 324.754	0.1364	ppb	0.2758	202.2	135.211
Fe 271.441	22.3603	ppb	5.5611	24.9	60.1748
K 766.491	9.2882	ppb	0.4698	5.1	640.885
Mg 279.078	19.2839	ppb	1.5697	8.1	93.4465
Mn 257.610	0.3270	ppb	0.0169	5.2	126.468
Mo 202.032	-0.0755	ppb	0.2798	370.6	7.1863
Na 330.237	-14.4064	ppb	87.2875	605.9	43.7673
Ni 231.604	0.0365	ppb	0.1145	313.3	-2.9579
Pb 220.353	2.4613	ppb	1.8394	74.7	18.4646
Sb 206.834	0.7299	ppb	0.7494	102.7	1.6283
Se 196.026	4.2112	ppb	1.0974	26.1	3.3767
Sn 189.925	10.8445	ppb	0.0231	0.2	-0.7747
Sr 216.596	0.1652	ppb	0.3721	225.3	12.9480
Ti 334.941	0.3556	ppb	0.0143	4.0	31.9728
Tl 190.794	-0.2956	ppb	1.1286	381.8	-13.5630
V 292.401	0.1702	ppb	0.1116	65.6	1.4835
Zn 206.200	0.7019	ppb	0.1042	14.8	7.7676

lcs 680-295845/2-a (Samp) **9/30/2013, 11:43:32 AM** **Rack 1, Tube 4**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	59.2181	58.6699	59.3931
Al 308.215	4763.52	4703.37	4755.36
As 188.980	99.3502	97.6547	97.5273

Label	Replicates Concentration		
B 249.678	181.751	178.899	181.493
Ba 389.178	100.485	99.2649	100.603
Be 313.042	48.5967	48.0647	48.6328
Ca 370.602	4869	4813	4870
Cd 226.502	49.0407	48.5775	49.0102
Co 228.615	49.8292	49.3114	50.5503
Cr 267.716	101.552	99.6963	100.858
Cu 324.754	102.764	100.345	101.421
Fe 271.441	4780.65	4727.28	4784.52
K 766.491	4857.13	4790.46	4848.60
Mg 279.078	4810.63	4756.58	4817.56
Mn 257.610	526.865	519.903	526.412
Mo 202.032	100.906	98.3084	99.8372
Na 330.237	4341.45	4387.91	4167.80
Ni 231.604	97.4642	97.7213	97.9213
Pb 220.353	51.0069	48.8661	50.5827
Sb 206.834	51.9169	45.1871	49.3796
Se 196.026	108.317	100.888	105.287
Sn 189.925	207.227	206.365	206.867
Sr 216.596	99.2820	97.9003	99.0071
Ti 334.941	97.6053	96.3894	97.5314
Tl 190.794	38.7421	36.7792	37.8090
V 292.401	98.5709	96.6957	98.1302
Zn 206.200	97.9109	98.4126	98.2826

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	59.0937	ppb	0.3773	0.6	5458.58
Al 308.215	4740.75	ppb	32.6279	0.7	28469.8
As 188.980	98.1774	ppb	1.0177	1.0	87.2641
B 249.678	180.715	ppb	1.5776	0.9	3705.50
Ba 389.178	100.118	ppb	0.7408	0.7	2609.06
Be 313.042	48.4314	ppb	0.3181	0.7	106025
Ca 370.602	4850	ppb	32.39	0.7	15040
Cd 226.502	48.8761	ppb	0.2590	0.5	2964.65
Co 228.615	49.8970	ppb	0.6222	1.2	738.380
Cr 267.716	100.702	ppb	0.9376	0.9	6454.93
Cu 324.754	101.510	ppb	1.2119	1.2	7175.09
Fe 271.441	4764.15	ppb	31.9927	0.7	9534.57
K 766.491	4832.06	ppb	36.2819	0.8	208065
Mg 279.078	4794.92	ppb	33.3854	0.7	15037.7
Mn 257.610	524.394	ppb	3.8954	0.7	143028
Mo 202.032	99.6837	ppb	1.3054	1.3	880.813
Na 330.237	4299.05	ppb	116.019	2.7	312.536
Ni 231.604	97.7023	ppb	0.2291	0.2	394.968
Pb 220.353	50.1519	ppb	1.1336	2.3	121.492
Sb 206.834	48.8279	ppb	3.3986	7.0	82.0579
Se 196.026	104.831	ppb	3.7359	3.6	54.2944
Sn 189.925	206.819	ppb	0.4329	0.2	224.573
Sr 216.596	98.7298	ppb	0.7314	0.7	1696.27
Ti 334.941	97.1754	ppb	0.6817	0.7	28766.0
Tl 190.794	37.7767	ppb	0.9818	2.6	43.4273
V 292.401	97.7989	ppb	0.9805	1.0	3068.90
Zn 206.200	98.2020	ppb	0.2604	0.3	186.637

320-4282-d-1-a (Samp) **9/30/2013, 11:48:06 AM** **Rack 1, Tube 5**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	-0.3582u	-0.1368u	-0.3298u
Al 308.215	24010.1	23981.4	24017.2
As 188.980	24.7085	25.6732	23.6002
B 249.678	8.5981u	8.4096u	7.7404u
Ba 389.178	418.121	416.831	415.392
Be 313.042	0.6549	0.6515	0.6550
Ca 370.602	6397	6424	6414
Cd 226.502	0.7559	0.7012	0.6697
Co 228.615	34.1504	34.8178	34.6199
Cr 267.716	193.580	193.167	192.586
Cu 324.754	75.1324	74.2225	74.9359
Fe 271.441	66677.9	66685.7	66476.0
K 766.491	1936.57	1930.98	1925.40
Mg 279.078	12825.6	12839.8	12791.3
Mn 257.610	906.885	906.805	905.740
Mo 202.032	3.2310	3.2745	3.5260
Na 330.237	76.1771u	114.186u	72.0878u
Ni 231.604	119.062	119.197	120.522
Pb 220.353	80.0609	79.0842	79.7348
Sb 206.834	0.5175	5.5971	0.2981
Se 196.026	0.5848	7.3553	0.8989
Sn 189.925	13.3891	12.6244	9.5446
Sr 216.596	45.6853	45.0781	45.6774
Ti 334.941	1843.79	1841.12	1844.19
Tl 190.794	-2.7284u	-0.3900u	2.3340u
V 292.401	170.133	170.567	169.871
Zn 206.200	372.143	374.419	373.555

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.2749	ppb	0.1205	43.8	-43.5343
Al 308.215	24002.9	ppb	18.9507	0.1	144356
As 188.980	24.6606	ppb	1.0373	4.2	15.3410
B 249.678	8.2494	ppb	0.4508	5.5	82.5767
Ba 389.178	416.781	ppb	1.3652	0.3	10971.6
Be 313.042	0.6538	ppb	0.0020	0.3	1156.00
Ca 370.602	6412	ppb	13.79	0.2	16038
Cd 226.502	0.7090	ppb	0.0436	6.2	365.420
Co 228.615	34.5294	ppb	0.3428	1.0	566.331
Cr 267.716	193.111	ppb	0.4992	0.3	12383.0
Cu 324.754	74.7636	ppb	0.4788	0.6	5339.50
Fe 271.441	66613.2	ppb	118.880	0.2	132998
K 766.491	1930.98	ppb	5.5881	0.3	83291.6
Mg 279.078	12818.9	ppb	24.9387	0.2	40168.3
Mn 257.610	906.476	ppb	0.6393	0.1	247446
Mo 202.032	3.3438	ppb	0.1593	4.8	32.7344
Na 330.237	87.4835	ppb	23.2150	26.5	10.6461
Ni 231.604	119.594	ppb	0.8067	0.7	486.197
Pb 220.353	79.6266	ppb	0.4973	0.6	189.304
Sb 206.834	2.1376	ppb	2.9980	140.3	9.2539
Se 196.026	2.9463	ppb	3.8215	129.7	3.1978
Sn 189.925	11.8527	ppb	2.0351	17.2	0.3855
Sr 216.596	45.4802	ppb	0.3483	0.8	876.530

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ti 334.941	1843.03	ppb	1.6653	0.1	546527
Tl 190.794	-0.2615	ppb	2.5337	969.0	-20.2986
V 292.401	170.190	ppb	0.3514	0.2	5405.80
Zn 206.200	373.372	ppb	1.1486	0.3	692.917

320-4282-d-1-aSD^5 (Samp) **9/30/2013, 11:52:41 AM** **Rack 1, Tube 6**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.1815u	-0.3655u	0.4231
Al 308.215	5351.59	5139.95	5051.55
As 188.980	5.2713	4.6662	6.7514
B 249.678	2.4319	1.4701u	2.4318
Ba 389.178	94.4440	91.0525	88.6076
Be 313.042	0.1355	0.1411	0.1337
Ca 370.602	1437	1395	1379
Cd 226.502	0.1323	0.1949	0.1160
Co 228.615	7.6570	7.4982	6.9920
Cr 267.716	43.3937	41.6824	40.8204
Cu 324.754	17.0850	16.0581	16.1052
Fe 271.441	14989.8	14466.0	14255.3
K 766.491	424.147	406.582	400.698
Mg 279.078	2872.40	2768.10	2730.32
Mn 257.610	203.671	195.456	192.504
Mo 202.032	0.6266	0.5824	0.8513
Na 330.237	73.0512u	-52.1057u	-16.9844u
Ni 231.604	26.8828	26.4481	24.9241
Pb 220.353	17.9861	18.4041	16.1085
Sb 206.834	1.0812	1.8174	-1.2882u
Se 196.026	3.1422	6.1709	1.7379
Sn 189.925	4.2444	3.7484	4.9184
Sr 216.596	10.3820	9.9142	9.2970
Ti 334.941	419.566	403.000	396.865
Tl 190.794	-0.0557u	-0.5304u	-1.2335u
V 292.401	38.1445	36.5900	35.5866
Zn 206.200	83.7562	79.5637	78.7204

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0413	ppb	0.4125	998.8	-24.4155
Al 308.215	5181.03	ppb	154.180	3.0	31125.8
As 188.980	5.5630	ppb	1.0727	19.3	-2.6615
B 249.678	2.1112	ppb	0.5553	26.3	104.371
Ba 389.178	91.3680	ppb	2.9310	3.2	2390.33
Be 313.042	0.1368	ppb	0.0038	2.8	25.3657
Ca 370.602	1404	ppb	30.15	2.1	3510
Cd 226.502	0.1477	ppb	0.0416	28.2	92.2260
Co 228.615	7.3824	ppb	0.3473	4.7	115.787
Cr 267.716	41.9655	ppb	1.3098	3.1	2706.65
Cu 324.754	16.4161	ppb	0.5798	3.5	1270.53
Fe 271.441	14570.4	ppb	378.194	2.6	29102.9
K 766.491	410.475	ppb	12.1999	3.0	17895.7
Mg 279.078	2790.28	ppb	73.5891	2.6	8769.28
Mn 257.610	197.210	ppb	5.7865	2.9	53862.9
Mo 202.032	0.6867	ppb	0.1442	21.0	12.9023

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Na 330.237	1.3204	ppb	64.5551	4889.2	36.1406
Ni 231.604	26.0850	ppb	1.0286	3.9	103.618
Pb 220.353	17.4996	ppb	1.2227	7.0	51.8618
Sb 206.834	0.5368	ppb	1.6228	302.3	2.4371
Se 196.026	3.6837	ppb	2.2655	61.5	3.2107
Sn 189.925	4.3037	ppb	0.5872	13.6	-8.2954
Sr 216.596	9.8644	ppb	0.5442	5.5	198.183
Ti 334.941	406.477	ppb	11.7436	2.9	120478
Tl 190.794	-0.6065	ppb	0.5926	97.7	-15.5163
V 292.401	36.7737	ppb	1.2888	3.5	1165.17
Zn 206.200	80.6801	ppb	2.6971	3.3	154.812

320-4282-d-1-a PDS (Samp) **9/30/2013, 11:57:16 AM** **Rack 1, Tube 7**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	32.1665	30.6211	30.5150
Al 308.215	26106.1	25267.8	25253.2
As 188.980	213.792	209.811	203.208
B 249.678	462.253	448.919	449.239
Ba 389.178	621.785	601.931	604.483
Be 313.042	49.2915	47.7350	47.9559
Ca 370.602	8268	8030	8040
Cd 226.502	50.2533	48.1675	48.3651
Co 228.615	231.876	225.488	225.051
Cr 267.716	395.069	382.400	384.251
Cu 324.754	279.465	271.194	275.452
Fe 271.441	68817.3	66645.4	66808.6
K 766.491	3985.11	3865.44	3863.94
Mg 279.078	14850.3	14396.9	14431.2
Mn 257.610	1116.07	1079.70	1081.70
Mo 202.032	204.855	197.272	199.158
Na 330.237	1872.91	1757.18	1735.80
Ni 231.604	315.939	306.132	308.424
Pb 220.353	274.405	262.920	263.094
Sb 206.834	182.797	183.326	181.975
Se 196.026	205.034	197.221	187.371
Sn 189.925	213.881	203.856	203.974
Sr 216.596	243.574	235.720	236.546
Ti 334.941	2049.51	1980.35	1984.28
Tl 190.794	191.365	182.993	185.919
V 292.401	364.633	353.089	354.086
Zn 206.200	576.839	552.647	553.273

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	31.1009	ppb	0.9244	3.0	2858.78
Al 308.215	25542.4	ppb	488.261	1.9	153590
As 188.980	208.937	ppb	5.3460	2.6	193.994
B 249.678	453.470	ppb	7.6075	1.7	8989.30
Ba 389.178	609.400	ppb	10.8015	1.8	15992.5
Be 313.042	48.3275	ppb	0.8421	1.7	105770
Ca 370.602	8113	ppb	134.8	1.7	21451
Cd 226.502	48.9286	ppb	1.1514	2.4	3256.19
Co 228.615	227.472	ppb	3.8206	1.7	3448.75

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Cr 267.716	387.240	ppb	6.8432	1.8	24781.0
Cu 324.754	275.370	ppb	4.1365	1.5	19267.2
Fe 271.441	67423.8	ppb	1209.60	1.8	134648
K 766.491	3904.83	ppb	69.5255	1.8	168185
Mg 279.078	14559.5	ppb	252.437	1.7	45615.0
Mn 257.610	1092.49	ppb	20.4484	1.9	298166
Mo 202.032	200.428	ppb	3.9476	2.0	1759.20
Na 330.237	1788.63	ppb	73.7643	4.1	113.823
Ni 231.604	310.165	ppb	5.1302	1.7	1262.07
Pb 220.353	266.806	ppb	6.5813	2.5	592.400
Sb 206.834	182.699	ppb	0.6808	0.4	309.709
Se 196.026	196.542	ppb	8.8511	4.5	100.929
Sn 189.925	207.237	ppb	5.7541	2.8	225.051
Sr 216.596	238.613	ppb	4.3159	1.8	4161.79
Ti 334.941	2004.71	ppb	38.8443	1.9	594480
Tl 190.794	186.759	ppb	4.2484	2.3	263.251
V 292.401	357.270	ppb	6.3965	1.8	11281.9
Zn 206.200	560.920	ppb	13.7899	2.5	1036.86

320-4282-d-1-b ms (Samp) **9/30/2013, 12:01:52 PM** **Rack 1, Tube 8**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	61.3563	61.1055	61.4250
Al 308.215	34034.1	34192.8	34173.6
As 188.980	128.504	126.803	130.144
B 249.678	185.205	184.807	185.348
Ba 389.178	760.767	761.968	761.088
Be 313.042	50.5612	50.5253	50.4284
Ca 370.602	15876	15936	15952
Cd 226.502	50.7908	50.7121	51.0761
Co 228.615	88.4256	87.8108	88.2705
Cr 267.716	284.706	284.612	284.602
Cu 324.754	203.508	203.159	203.361
Fe 271.441	79216.1	79394.2	79211.2
K 766.491	7252.50	7233.03	7213.20
Mg 279.078	18013.2	18005.7	17986.7
Mn 257.610	1606.29	1611.25	1608.95
Mo 202.032	102.872	103.720	102.543
Na 330.237	4425.90	4723.08	4370.09
Ni 231.604	211.535	209.245	211.610
Pb 220.353	103.275	104.856	105.957
Sb 206.834	41.6708	42.5025	39.3935
Se 196.026	94.1645	109.036	87.4074
Sn 189.925	204.673	207.076	204.718
Sr 216.596	159.602	160.117	159.947
Ti 334.941	2154.38	2161.68	2158.95
Tl 190.794	36.4795	38.2823	40.5613
V 292.401	285.653	285.397	283.986
Zn 206.200	533.788	535.357	535.188

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	61.2956	ppb	0.1682	0.3	5666.30
Al 308.215	34133.5	ppb	86.6517	0.3	205297

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	128.484	ppb	1.6709	1.3	115.953
B 249.678	185.120	ppb	0.2805	0.2	3586.69
Ba 389.178	761.274	ppb	0.6219	0.1	19973.1
Be 313.042	50.5050	ppb	0.0687	0.1	110573
Ca 370.602	15921	ppb	40.15	0.3	45331
Cd 226.502	50.8597	ppb	0.1915	0.4	3426.26
Co 228.615	88.1690	ppb	0.3198	0.4	1374.63
Cr 267.716	284.640	ppb	0.0576	0.0	18236.0
Cu 324.754	203.343	ppb	0.1752	0.1	14270.5
Fe 271.441	79273.8	ppb	104.269	0.1	158281
K 766.491	7232.91	ppb	19.6509	0.3	311324
Mg 279.078	18001.9	ppb	13.6701	0.1	56383.8
Mn 257.610	1608.83	ppb	2.4787	0.2	438971
Mo 202.032	103.045	ppb	0.6070	0.6	905.335
Na 330.237	4506.36	ppb	189.755	4.2	281.039
Ni 231.604	210.797	ppb	1.3441	0.6	858.035
Pb 220.353	104.696	ppb	1.3482	1.3	244.052
Sb 206.834	41.1889	ppb	1.6095	3.9	74.8147
Se 196.026	96.8692	ppb	11.0649	11.4	50.8094
Sn 189.925	205.489	ppb	1.3747	0.7	223.046
Sr 216.596	159.889	ppb	0.2626	0.2	2841.96
Ti 334.941	2158.33	ppb	3.6852	0.2	640053
Tl 190.794	38.4411	ppb	2.0455	5.3	36.7861
V 292.401	285.012	ppb	0.8978	0.3	9022.11
Zn 206.200	534.778	ppb	0.8612	0.2	989.415

320-4282-d-1-c msd (Samp) **9/30/2013, 12:06:28 PM** **Rack 1, Tube 9**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	61.8045	60.9343	60.5377
Al 308.215	30345.2	30054.8	29423.3
As 188.980	124.963	122.977	117.915
B 249.678	186.059	186.387	181.945
Ba 389.178	659.229	656.427	641.704
Be 313.042	49.8260	49.6364	48.4595
Ca 370.602	13246	13167	12897
Cd 226.502	50.3585	50.1914	49.0744
Co 228.615	92.4495	90.9369	89.4149
Cr 267.716	325.631	324.861	317.069
Cu 324.754	189.275	186.497	184.298
Fe 271.441	78372.0	77915.0	76217.6
K 766.491	7195.48	7151.61	6976.39
Mg 279.078	18258.8	18189.6	17816.4
Mn 257.610	1551.50	1539.77	1508.12
Mo 202.032	101.729	100.811	99.0614
Na 330.237	4305.25	4400.98	4433.42
Ni 231.604	217.000	214.499	210.538
Pb 220.353	127.203	124.855	124.967
Sb 206.834	43.9795	39.3411	45.1366
Se 196.026	104.761	94.3261	92.7064
Sn 189.925	206.043	205.829	195.686
Sr 216.596	157.723	157.633	153.001
Ti 334.941	2310.89	2287.54	2235.53

Label	Replicates Concentration		
Tl 190.794	37.8046	38.9801	38.3413
V 292.401	294.402	292.761	286.599
Zn 206.200	637.581	633.992	623.226

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	61.0922	ppb	0.6480	1.1	5647.25
Al 308.215	29941.1	ppb	471.380	1.6	180069
As 188.980	121.952	ppb	3.6340	3.0	109.585
B 249.678	184.797	ppb	2.4751	1.3	3585.09
Ba 389.178	652.453	ppb	9.4140	1.4	17138.5
Be 313.042	49.3073	ppb	0.7403	1.5	107943
Ca 370.602	13103	ppb	182.7	1.4	36613
Cd 226.502	49.8748	ppb	0.6981	1.4	3359.25
Co 228.615	90.9338	ppb	1.5173	1.7	1419.73
Cr 267.716	322.520	ppb	4.7371	1.5	20654.7
Cu 324.754	186.690	ppb	2.4941	1.3	13113.9
Fe 271.441	77501.5	ppb	1135.14	1.5	154744
K 766.491	7107.83	ppb	115.921	1.6	305944
Mg 279.078	18088.2	ppb	237.957	1.3	56657.3
Mn 257.610	1533.13	ppb	22.4364	1.5	418334
Mo 202.032	100.534	ppb	1.3551	1.3	883.422
Na 330.237	4379.88	ppb	66.6368	1.5	271.384
Ni 231.604	214.012	ppb	3.2583	1.5	871.068
Pb 220.353	125.675	ppb	1.3242	1.1	289.110
Sb 206.834	42.8190	ppb	3.0671	7.2	78.0515
Se 196.026	97.2644	ppb	6.5424	6.7	50.9839
Sn 189.925	202.519	ppb	5.9186	2.9	219.630
Sr 216.596	156.119	ppb	2.7007	1.7	2774.75
Ti 334.941	2277.99	ppb	38.5781	1.7	675534
Tl 190.794	38.3753	ppb	0.5885	1.5	36.9281
V 292.401	291.254	ppb	4.1141	1.4	9220.15
Zn 206.200	631.600	ppb	7.4703	1.2	1167.23

320-4282-d-2-a (Samp) **9/30/2013, 12:11:04 PM** **Rack 1, Tube 10**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.7985u	-1.2885u	-0.3671u
Al 308.215	65077.7	65034.3	64706.8
As 188.980	26.3955	25.7059	30.5765
B 249.678	10.1052u	9.8931u	10.6067u
Ba 389.178	477.443	477.071	474.421
Be 313.042	1.7635	1.7684	1.7594
Ca 370.602	21269	21239	21125
Cd 226.502	-0.9231	-0.9114	-0.8274
Co 228.615	43.7756	43.4445	43.4225
Cr 267.716	199.226	198.550	197.956
Cu 324.754	140.873	139.393	140.149
Fe 271.441	153789	153716	153177
K 766.491	2464.95	2471.84	2449.07
Mg 279.078	23176.4	23147.1	23043.9
Mn 257.610	1307.52	1306.07	1301.41
Mo 202.032	3.2847	1.6266	2.5705
Na 330.237	3386.79	3472.19	3221.09

Label	Replicates Concentration		
Ni 231.604	174.498	174.407	171.216
Pb 220.353	260.618	256.733	256.819
Sb 206.834	2.0488	2.2908	2.6678
Se 196.026	5.9629	-1.7858u	2.7468
Sn 189.925	10.3047	11.3830	12.8861
Sr 216.596	173.805	173.798	172.537
Ti 334.941	2974.74	2984.78	2972.30
Tl 190.794	3.6121u	-0.4212u	-1.2517u
V 292.401	273.942	274.413	272.199
Zn 206.200	2682.95	2670.89	2664.31

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.8181	ppb	0.4610	56.4	-98.6399
Al 308.215	64939.6	ppb	202.743	0.3	390660
As 188.980	27.5593	ppb	2.6356	9.6	17.4202
B 249.678	10.2017	ppb	0.3665	3.6	-119.935
Ba 389.178	476.312	ppb	1.6477	0.3	12689.6
Be 313.042	1.7637	ppb	0.0045	0.3	3595.20
Ca 370.602	21211	ppb	76.14	0.4	56619
Cd 226.502	-0.8873	ppb	0.0522	5.9	669.901
Co 228.615	43.5476	ppb	0.1978	0.5	737.801
Cr 267.716	198.577	ppb	0.6353	0.3	12763.7
Cu 324.754	140.138	ppb	0.7404	0.5	9910.76
Fe 271.441	153561	ppb	334.562	0.2	306568
K 766.491	2461.96	ppb	11.6770	0.5	106128
Mg 279.078	23122.4	ppb	69.6057	0.3	72436.1
Mn 257.610	1305.00	ppb	3.1933	0.2	356448
Mo 202.032	2.4939	ppb	0.8317	33.3	19.7971
Na 330.237	3360.02	ppb	127.671	3.8	138.776
Ni 231.604	173.374	ppb	1.8690	1.1	708.101
Pb 220.353	258.057	ppb	2.2186	0.9	580.328
Sb 206.834	2.3358	ppb	0.3120	13.4	12.9993
Se 196.026	2.3080	ppb	3.8930	168.7	3.2779
Sn 189.925	11.5246	ppb	1.2965	11.3	0.0144
Sr 216.596	173.380	ppb	0.7303	0.4	3179.82
Ti 334.941	2977.27	ppb	6.6168	0.2	882935
Tl 190.794	0.6464	ppb	2.6017	402.5	-27.4920
V 292.401	273.518	ppb	1.1662	0.4	8697.50
Zn 206.200	2672.72	ppb	9.4535	0.4	4921.46

320-4282-d-3-a (Samp) **9/30/2013, 12:15:41 PM** **Rack 1, Tube 11**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.3090	-0.5244u	-0.5262u
Al 308.215	26467.6	26477.3	26511.0
As 188.980	205.733	208.344	207.024
B 249.678	16.9665u	17.6265u	17.7459u
Ba 389.178	254.793	253.899	255.646
Be 313.042	0.6575	0.6632	0.6557
Ca 370.602	12479	12481	12478
Cd 226.502	0.5739	0.4297	0.2589
Co 228.615	129.228	129.317	129.392
Cr 267.716	5760.20	5743.77	5748.70

Label	Replicates	Concentration	
Cu 324.754	359.449	361.437	358.390
Fe 271.441	173093	172723	172726
K 766.491	3116.68	3104.97	3115.53
Mg 279.078	218159	217604	218330
Mn 257.610	2671.56	2671.02	2665.20
Mo 202.032	17.1219	17.6873	18.0960
Na 330.237	936.777u	915.396u	963.807u
Ni 231.604	4784.98	4777.32	4755.22
Pb 220.353	1403.43	1403.19	1406.72
Sb 206.834	53.9989	55.2042	56.4997
Se 196.026	-9.1221u	0.4577	1.3342
Sn 189.925	29.7989	27.2555	29.4622
Sr 216.596	59.2953	59.1132	59.9987
Ti 334.941	1360.08	1359.82	1361.91
Tl 190.794	2.0193u	3.2712u	2.7835u
V 292.401	169.223	169.339	168.934
Zn 206.200	7576.57	7553.38	7539.31

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.2472	ppb	0.4817	194.8	-35.9451
Al 308.215	26485.3	ppb	22.7804	0.1	159292
As 188.980	207.034	ppb	1.3060	0.6	190.620
B 249.678	17.4463	ppb	0.4198	2.4	-28.6793
Ba 389.178	254.779	ppb	0.8738	0.3	7528.14
Be 313.042	0.6588	ppb	0.0039	0.6	1154.97
Ca 370.602	12480	ppb	1.330	0.0	26619
Cd 226.502	0.4208	ppb	0.1577	37.5	841.132
Co 228.615	129.312	ppb	0.0824	0.1	1996.36
Cr 267.716	5750.89	ppb	8.4306	0.1	367406
Cu 324.754	359.759	ppb	1.5467	0.4	25162.9
Fe 271.441	172847	ppb	212.892	0.1	345093
K 766.491	3112.39	ppb	6.4555	0.2	134103
Mg 279.078	218031	ppb	379.420	0.2	682882
Mn 257.610	2669.26	ppb	3.5255	0.1	730231
Mo 202.032	17.6351	ppb	0.4891	2.8	151.568
Na 330.237	938.660	ppb	24.2602	2.6	-102.350
Ni 231.604	4772.51	ppb	15.4550	0.3	19447.3
Pb 220.353	1404.45	ppb	1.9723	0.1	3055.90
Sb 206.834	55.2343	ppb	1.2507	2.3	183.052
Se 196.026	-2.4434	ppb	5.8005	237.4	1.2898
Sn 189.925	28.8389	ppb	1.3816	4.8	19.9152
Sr 216.596	59.4691	ppb	0.4676	0.8	1140.01
Ti 334.941	1360.60	ppb	1.1427	0.1	404464
Tl 190.794	2.6913	ppb	0.6310	23.4	-26.9519
V 292.401	169.165	ppb	0.2088	0.1	5023.25
Zn 206.200	7556.42	ppb	18.8140	0.2	13875.5

320-4282-d-4-a (Samp) **9/30/2013, 12:20:17 PM** **Rack 1, Tube 12**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	0.3064	0.1911	-0.0072u
Al 308.215	31432.8	32186.0	31661.8
As 188.980	31.9919	35.5045	34.0147

Label	Replicates Concentration		
B 249.678	7.6166u	7.6650u	6.7219u
Ba 389.178	208.873	213.508	209.006
Be 313.042	0.6070	0.6118	0.6020
Ca 370.602	19827	20268	19937
Cd 226.502	-0.2657	-0.2209	-0.3599
Co 228.615	32.3084	32.8483	31.8311
Cr 267.716	163.718	165.881	162.804
Cu 324.754	165.878	168.663	165.053
Fe 271.441	56711.2	57786.9	56606.9
K 766.491	2350.14	2391.98	2333.25
Mg 279.078	24586.6	25030.9	24499.6
Mn 257.610	855.398	873.062	855.874
Mo 202.032	1.1449	1.3522	0.7628
Na 330.237	2606.93	2797.47	2717.74
Ni 231.604	172.797	175.706	171.037
Pb 220.353	35.6049	39.6746	37.9557
Sb 206.834	-0.5584	5.9918	6.1939
Se 196.026	-5.3808u	2.4657	-1.1711u
Sn 189.925	10.3099	10.6263	12.4975
Sr 216.596	140.410	143.500	139.727
Ti 334.941	1715.96	1753.28	1719.56
Tl 190.794	-0.2201u	3.4817u	-2.7874u
V 292.401	154.540	157.246	153.404
Zn 206.200	112.416	116.571	111.588

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1634	ppb	0.1586	97.0	-8.6208
Al 308.215	31760.2	ppb	386.094	1.2	191035
As 188.980	33.8370	ppb	1.7630	5.2	24.4949
B 249.678	7.3345	ppb	0.5311	7.2	90.7988
Ba 389.178	210.462	ppb	2.6387	1.3	5621.99
Be 313.042	0.6070	ppb	0.0049	0.8	1059.77
Ca 370.602	20010	ppb	229.6	1.1	59770
Cd 226.502	-0.2822	ppb	0.0709	25.1	262.382
Co 228.615	32.3293	ppb	0.5089	1.6	529.305
Cr 267.716	164.135	ppb	1.5803	1.0	10529.0
Cu 324.754	166.531	ppb	1.8916	1.1	11704.6
Fe 271.441	57035.0	ppb	653.250	1.1	113877
K 766.491	2358.45	ppb	30.2337	1.3	101677
Mg 279.078	24705.7	ppb	284.982	1.2	77393.6
Mn 257.610	861.445	ppb	10.0638	1.2	235256
Mo 202.032	1.0866	ppb	0.2990	27.5	13.5670
Na 330.237	2707.38	ppb	95.6938	3.5	185.123
Ni 231.604	173.180	ppb	2.3582	1.4	704.237
Pb 220.353	37.7451	ppb	2.0430	5.4	98.0560
Sb 206.834	3.8757	ppb	3.8414	99.1	11.4110
Se 196.026	-1.3621	ppb	3.9268	288.3	0.9785
Sn 189.925	11.1446	ppb	1.1823	10.6	-0.4192
Sr 216.596	141.212	ppb	2.0101	1.4	2496.19
Ti 334.941	1729.60	ppb	20.5905	1.2	512945
Tl 190.794	0.1581	ppb	3.1516	1994.0	-18.7265
V 292.401	155.063	ppb	1.9738	1.3	4926.84
Zn 206.200	113.525	ppb	2.6706	2.4	215.184

Cont Calib Verif (CCV) **9/30/2013, 12:24:53 PM** **Rack 1, Tube 13**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	487.347	486.381	485.703
Al 308.215	4956.06	4900.34	4909.39
As 188.980	486.563	485.634	480.807
B 249.678	486.781	483.796	484.652
Ba 389.178	5068.55	5061.40	5059.72
Be 313.042	496.870	499.118	499.297
Ca 370.602	5164	5118	5115
Cd 226.502	502.417	498.053	498.768
Co 228.615	502.551	499.900	501.376
Cr 267.716	5102.67	5105.59	5104.40
Cu 324.754	5178.89	5095.81	5140.53
Fe 271.441	4855.82	4838.11	4852.20
K 766.491	10199.5	10149.9	10156.9
Mg 279.078	4962.32	4962.29	4959.33
Mn 257.610	5151.56	5111.72	5134.73
Mo 202.032	512.322	511.264	511.231
Na 330.237	7031.42	7053.03	7072.40
Ni 231.604	2509.25	2501.99	2500.84
Pb 220.353	507.065	506.752	503.439
Sb 206.834	1004.93	1001.19	1002.63
Se 196.026	5098.25	5074.69	5079.03
Sn 189.925	5070.67	5097.87	5049.36
Sr 216.596	2582.09	2574.92	2577.06
Ti 334.941	497.887	494.635	493.793
Tl 190.794	5135.12	5086.31	5109.18
V 292.401	5000.23	4991.31	4999.01
Zn 206.200	2520.88	2505.41	2507.89

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	486.477	ppb	0.8265	0.2	45031.3	97.29534
Al 308.215	4921.93	ppb	29.9004	0.6	28742.3	98.43858
As 188.980	484.334	ppb	3.0903	0.6	461.617	96.86690
B 249.678	485.076	ppb	1.5372	0.3	9795.43	97.01524
Ba 389.178	5063.22	ppb	4.6880	0.1	131787	101.26440
Be 313.042	498.429	ppb	1.3526	0.3	1093608	99.68571
Ca 370.602	5132	ppb	27.31	0.5	16308	102.64261
Cd 226.502	499.746	ppb	2.3405	0.5	29960.0	99.94920
Co 228.615	501.276	ppb	1.3284	0.3	7499.34	100.25513
Cr 267.716	5104.22	ppb	1.4713	0.0	325993	102.08443
Cu 324.754	5138.41	ppb	41.5825	0.8	356692	102.76823
Fe 271.441	4848.71	ppb	9.3581	0.2	9824.91	96.97421
K 766.491	10168.8	ppb	26.8411	0.3	437594	101.68782
Mg 279.078	4961.31	ppb	1.7156	0.0	15450.0	99.22629
Mn 257.610	5132.67	ppb	19.9990	0.4	1399070	102.65336
Mo 202.032	511.606	ppb	0.6210	0.1	4479.08	102.32111
Na 330.237	7052.28	ppb	20.4989	0.3	441.402	94.03043
Ni 231.604	2504.03	ppb	4.5591	0.2	10197.9	100.16100
Pb 220.353	505.752	ppb	2.0091	0.4	1103.83	101.15038
Sb 206.834	1002.92	ppb	1.8864	0.2	1744.98	100.29182
Se 196.026	5083.99	ppb	12.5411	0.2	2567.77	101.67979
Sn 189.925	5072.64	ppb	24.3143	0.5	5819.56	101.45271
Sr 216.596	2578.02	ppb	3.6808	0.1	43896.3	103.12080

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ti 334.941	495.438	ppb	2.1619	0.4	146867	99.08764
Tl 190.794	5110.20	ppb	24.4204	0.5	7718.38	102.20406
V 292.401	4996.85	ppb	4.8367	0.1	157803	99.93703
Zn 206.200	2511.39	ppb	8.3122	0.3	4600.79	100.45570

Cont Calib Blank (CCB) **9/30/2013, 12:29:26 PM** **Rack 1, Tube 14**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	-0.0115u	0.3021	-0.1523u
Al 308.215	-0.0472u	-1.7607u	-3.2775u
As 188.980	3.1475	1.0302	-1.1459u
B 249.678	1.0071	1.0101	0.7413
Ba 389.178	0.1619	0.9707	0.1343
Be 313.042	0.0067	0.0126	0.0189
Ca 370.602	-0.6973u	4.139	-1.936u
Cd 226.502	0.1293	-0.0960u	-0.0675u
Co 228.615	0.3415	-0.2107u	0.4736
Cr 267.716	0.2265	0.2526	0.1299
Cu 324.754	0.2289	0.2562	-0.1662u
Fe 271.441	6.4865	5.1990	4.8721
K 766.491	1.2444	0.8634	1.4123
Mg 279.078	-0.4413u	-0.6500u	2.4759
Mn 257.610	0.1198	0.1598	0.1878
Mo 202.032	0.6413	0.2425	0.4527
Na 330.237	110.271	-60.9803u	-10.5872u
Ni 231.604	0.9292	-0.0129u	0.5538
Pb 220.353	-0.0725u	0.1492	-0.5378u
Sb 206.834	2.9600	3.0126	2.7419
Se 196.026	1.7224	0.1279	-3.5018u
Sn 189.925	3.2696	-0.6218u	1.5644
Sr 216.596	0.0080	0.2503	0.3513
Ti 334.941	0.2470	0.2539	0.2694
Tl 190.794	-0.7382u	0.7626	-0.7454u
V 292.401	-0.0528u	0.3398	0.2971
Zn 206.200	-0.6098u	0.0314	-0.1915u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.0461	ppb	0.2326	504.4	-17.0044	0.04611
Al 308.215	-1.6951	ppb	1.6161	95.3	-52.9272	-1.69514
As 188.980	1.0106	ppb	2.1467	212.4	-6.9308	1.01057
B 249.678	0.9195	ppb	0.1543	16.8	121.002	0.91953
Ba 389.178	0.4223	ppb	0.4751	112.5	-7.9516	0.42231
Be 313.042	0.0128	ppb	0.0061	48.0	-245.718	0.01275
Ca 370.602	0.5019	ppb	3.210	639.5	-3.015	0.50189
Cd 226.502	-0.0114	ppb	0.1227	1076.2	15.6421	-0.01140
Co 228.615	0.2015	ppb	0.3630	180.2	-4.2176	0.20146
Cr 267.716	0.2030	ppb	0.0646	31.8	32.9134	0.20302
Cu 324.754	0.1063	ppb	0.2364	222.4	133.133	0.10629
Fe 271.441	5.5192	ppb	0.8535	15.5	26.5921	5.51921
K 766.491	1.1734	ppb	0.2813	24.0	291.870	1.17336
Mg 279.078	0.4616	ppb	1.7476	378.6	34.4954	0.46155
Mn 257.610	0.1558	ppb	0.0342	21.9	79.5638	0.15579
Mo 202.032	0.4455	ppb	0.1995	44.8	11.7525	0.44550

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Na 330.237	12.9011	ppb	88.0087	682.2	45.5198	12.90109
Ni 231.604	0.4900	ppb	0.4742	96.8	-1.1117	0.49002
Pb 220.353	-0.1537	ppb	0.3506	228.1	12.8242	-0.15371
Sb 206.834	2.9048	ppb	0.1436	4.9	5.2216	2.90485
Se 196.026	-0.5505	ppb	2.6773	486.3	0.9740	-0.55052
Sn 189.925	1.4041	ppb	1.9507	138.9	-11.6298	1.40407
Sr 216.596	0.2032	ppb	0.1764	86.8	13.5482	0.20318
Ti 334.941	0.2568	ppb	0.0115	4.5	2.5824	0.25681
Tl 190.794	-0.2403	ppb	0.8686	361.4	-13.4766	-0.24032
V 292.401	0.1947	ppb	0.2154	110.6	2.2185	0.19470
Zn 206.200	-0.2566	ppb	0.3255	126.8	6.0103	-0.25664

mb 680-295755/1-a (Samp) **9/30/2013, 12:34:00 PM** **Rack 1, Tube 15**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	-0.0130u	0.0546	0.3160
Al 308.215	-1.7948u	1.0893	-1.1491u
As 188.980	1.5616	2.1984	0.2281
B 249.678	2.5939	2.5026	2.9172
Ba 389.178	-0.5774u	-0.2192u	0.7956
Be 313.042	0.0017	0.0058	-0.0073u
Ca 370.602	3.243	6.196	6.529
Cd 226.502	0.0369	-0.0842u	-0.0596u
Co 228.615	0.2559	-0.4045u	0.0432
Cr 267.716	0.0550	0.0234	-0.0564u
Cu 324.754	-0.2638u	-0.1136u	0.2531
Fe 271.441	0.6843	-0.4271u	1.9522
K 766.491	-0.0156u	0.2389	-0.1688u
Mg 279.078	0.8094	0.0700	0.2457
Mn 257.610	-0.0326u	0.0371	-0.0221u
Mo 202.032	-0.2118u	0.3101	-0.2516u
Na 330.237	17.7055	57.4766	-29.6780u
Ni 231.604	1.3809	0.2848	1.7067
Pb 220.353	2.7481	2.8706	-0.0942u
Sb 206.834	2.2212	1.6390	0.0465
Se 196.026	6.5170	8.0904	3.6819
Sn 189.925	1.7850	0.1262	1.9490
Sr 216.596	0.1679	-0.3542u	0.3816
Ti 334.941	0.1159	0.1987	0.1485
Tl 190.794	0.0351	-1.6063u	1.2851
V 292.401	-0.2034u	0.1951	-0.0957u
Zn 206.200	-0.1317u	-0.5822u	0.0549

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1192	ppb	0.1738	145.8	-10.2256
Al 308.215	-0.6182	ppb	1.5136	244.8	-46.4219
As 188.980	1.3294	ppb	1.0055	75.6	-6.6214
B 249.678	2.6712	ppb	0.2179	8.2	156.059
Ba 389.178	-0.0003	ppb	0.7122	206011.0	-18.9581
Be 313.042	0.0001	ppb	0.0067	12542.1	-273.504
Ca 370.602	5.323	ppb	1.809	34.0	12.34
Cd 226.502	-0.0357	ppb	0.0640	179.4	14.1802
Co 228.615	-0.0351	ppb	0.3371	960.6	-7.7412

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Cr 267.716	0.0073	ppb	0.0574	785.0	20.4146
Cu 324.754	-0.0414	ppb	0.2659	641.7	122.866
Fe 271.441	0.7365	ppb	1.1905	161.7	17.0073
K 766.491	0.0181	ppb	0.2060	1135.2	242.185
Mg 279.078	0.3751	ppb	0.3863	103.0	34.2273
Mn 257.610	-0.0059	ppb	0.0376	639.0	35.4888
Mo 202.032	-0.0511	ppb	0.3135	613.4	7.4018
Na 330.237	15.1680	ppb	43.6327	287.7	45.6688
Ni 231.604	1.1242	ppb	0.7449	66.3	1.4727
Pb 220.353	1.8415	ppb	1.6775	91.1	17.1263
Sb 206.834	1.3022	ppb	1.1258	86.4	2.5559
Se 196.026	6.0965	ppb	2.2341	36.6	4.3278
Sn 189.925	1.2867	ppb	1.0084	78.4	-11.7648
Sr 216.596	0.0651	ppb	0.3785	581.4	11.1895
Ti 334.941	0.1543	ppb	0.0417	27.0	-27.8029
Tl 190.794	-0.0954	ppb	1.4501	1520.5	-13.2579
V 292.401	-0.0347	ppb	0.2061	594.3	-4.9465
Zn 206.200	-0.2197	ppb	0.3276	149.1	6.0791

lcs 680-295755/2-a (Samp) **9/30/2013, 12:38:34 PM** **Rack 1, Tube 16**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	57.8417	57.7013	58.5741
Al 308.215	5082.31	5120.48	5088.65
As 188.980	103.612	101.716	102.493
B 249.678	195.082	197.329	196.484
Ba 389.178	105.917	106.168	106.275
Be 313.042	51.4302	51.6225	51.3376
Ca 370.602	5168	5204	5175
Cd 226.502	51.2106	51.5107	51.1542
Co 228.615	52.5239	52.4088	52.1861
Cr 267.716	105.491	106.108	105.345
Cu 324.754	105.990	107.238	105.692
Fe 271.441	5021.24	5047.73	5008.46
K 766.491	5051.93	5065.77	5014.93
Mg 279.078	5036.98	5068.44	5049.94
Mn 257.610	536.862	539.977	537.209
Mo 202.032	104.787	105.142	105.291
Na 330.237	4381.92	4669.83	4561.65
Ni 231.604	101.780	103.348	102.826
Pb 220.353	47.1709	55.8746	53.2319
Sb 206.834	49.1498	49.2619	50.8935
Se 196.026	107.342	101.379	111.065
Sn 189.925	207.351	207.011	205.957
Sr 216.596	103.471	103.909	104.321
Ti 334.941	103.082	103.513	102.900
Tl 190.794	41.5070	39.5293	39.5406
V 292.401	103.367	104.286	103.671
Zn 206.200	101.150	104.026	104.363

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	58.0390	ppb	0.4687	0.8	5360.63
Al 308.215	5097.15	ppb	20.4534	0.4	30613.4

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	102.607	ppb	0.9529	0.9	91.5583
B 249.678	196.298	ppb	1.1350	0.6	4016.62
Ba 389.178	106.120	ppb	0.1835	0.2	2766.49
Be 313.042	51.4634	ppb	0.1453	0.3	112680
Ca 370.602	5182	ppb	19.03	0.4	16072
Cd 226.502	51.2919	ppb	0.1916	0.4	3110.47
Co 228.615	52.3729	ppb	0.1717	0.3	775.408
Cr 267.716	105.648	ppb	0.4051	0.4	6770.90
Cu 324.754	106.306	ppb	0.8202	0.8	7508.18
Fe 271.441	5025.81	ppb	20.0314	0.4	10057.3
K 766.491	5044.21	ppb	26.2860	0.5	217189
Mg 279.078	5051.79	ppb	15.8092	0.3	15841.9
Mn 257.610	538.016	ppb	1.7071	0.3	146745
Mo 202.032	105.074	ppb	0.2591	0.2	928.012
Na 330.237	4537.80	ppb	145.431	3.2	327.438
Ni 231.604	102.651	ppb	0.7985	0.8	415.134
Pb 220.353	52.0925	ppb	4.4624	8.6	125.683
Sb 206.834	49.7684	ppb	0.9760	2.0	83.6527
Se 196.026	106.595	ppb	4.8859	4.6	55.1883
Sn 189.925	206.773	ppb	0.7269	0.4	224.520
Sr 216.596	103.900	ppb	0.4250	0.4	1784.62
Ti 334.941	103.165	ppb	0.3150	0.3	30543.4
Tl 190.794	40.1923	ppb	1.1386	2.8	47.0614
V 292.401	103.775	ppb	0.4684	0.5	3257.01
Zn 206.200	103.180	ppb	1.7656	1.7	195.770

680-94483-g-1-e (Samp) **9/30/2013, 12:43:08 PM** **Rack 1, Tube 17**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.5765u	-0.5970u	-0.1372u
Al 308.215	7701.74	7697.90	7626.30
As 188.980	23.9259	21.3418	24.3768
B 249.678	158.563	159.800	158.446
Ba 389.178	22.8826	22.6141	23.3930
Be 313.042	1.1909	1.1897	1.1891
Ca 370.602	41081	41034	40731
Cd 226.502	4.4485	4.4043	4.3879
Co 228.615	15.3700	15.7052	14.8661
Cr 267.716	347.480	348.627	347.575
Cu 324.754	295.525	294.289	295.275
Fe 271.441	23227.1	23268.5	23147.1
K 766.491	39212.7	39456.1	39250.3
Mg 279.078	2020.67	2030.05	2030.33
Mn 257.610	640.288	640.814	636.457
Mo 202.032	28.7029	28.3398	29.2570
Na 330.237	14728627x	14603759x	14511319x
Ni 231.604	4403.18	4389.57	4381.87
Pb 220.353	18.5504	13.9260	19.6549
Sb 206.834	11.6874	12.9285	10.2880
Se 196.026	11.7503	10.6718	18.1525
Sn 189.925	8.5887	8.8431	8.3268
Sr 216.596	79.0243	78.7760	79.5141
Ti 334.941	7.4293	7.1935	7.2089

Label	Replicates Concentration		
Tl 190.794	-9.8779u	-7.3113u	-10.3743u
V 292.401	31.3891	31.4131	31.3213
Zn 206.200	1064.71	1067.25	1061.99

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.4369b	ppb	0.2597	59.4	-61.9618
Al 308.215	7675.31b	ppb	42.4901	0.6	46137.2
As 188.980	23.2148b	ppb	1.6377	7.1	14.3491
B 249.678	158.936b	ppb	0.7504	0.5	3218.56
Ba 389.178	22.9632b	ppb	0.3957	1.7	621.753
Be 313.042	1.1899b	ppb	0.0010	0.1	247.863
Ca 370.602	40949b	ppb	190.0	0.5	127797
Cd 226.502	4.4136b	ppb	0.0314	0.7	247.838
Co 228.615	15.3138b	ppb	0.4224	2.8	223.303
Cr 267.716	347.894b	ppb	0.6363	0.2	22619.5
Cu 324.754	295.030b	ppb	0.6536	0.2	20611.5
Fe 271.441	23214.2b	ppb	61.7385	0.3	46359.8
K 766.491	39306.4b	ppb	131.056	0.3	1690780
Mg 279.078	2027.02b	ppb	5.4993	0.3	6369.64
Mn 257.610	639.186b	ppb	2.3781	0.4	174250
Mo 202.032	28.7666b	ppb	0.4619	1.6	258.453
Na 330.237	14614568xb	ppb	109057	0.7	924036
Ni 231.604	4391.54b	ppb	10.7904	0.2	17890.7
Pb 220.353	17.3771b	ppb	3.0393	17.5	52.6902
Sb 206.834	11.6346b	ppb	1.3210	11.4	25.2528
Se 196.026	13.5248b	ppb	4.0438	29.9	8.3169
Sn 189.925	8.5862b	ppb	0.2581	3.0	4.2959
Sr 216.596	79.1048b	ppb	0.3756	0.5	1279.96
Ti 334.941	7.2772b	ppb	0.1320	1.8	813.360
Tl 190.794	-9.1878b	ppb	1.6439	17.9	-29.6381
V 292.401	31.3745b	ppb	0.0476	0.2	820.182
Zn 206.200	1064.65b	ppb	2.6311	0.2	1962.59

680-94483-g-1-eSD^5 (Samp) **9/30/2013, 12:47:43 PM** **Rack 1, Tube 18**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.2101u	-0.0015u	-0.2510u
Al 308.215	1299.52	1290.26	1287.17
As 188.980	1.2750	6.5191	3.6472
B 249.678	28.8241	28.1799	29.0440
Ba 389.178	5.9473	4.4839	5.7235
Be 313.042	0.2533	0.2453	0.2400
Ca 370.602	8674	8598	8542
Cd 226.502	0.7858	0.7470	0.8474
Co 228.615	3.7815	3.4400	2.3277
Cr 267.716	71.7584	71.1404	70.8298
Cu 324.754	50.8164	50.3220	50.1410
Fe 271.441	4935.30	4878.68	4854.38
K 766.491	4477.98	4455.54	4440.40
Mg 279.078	475.200	472.037	469.373
Mn 257.610	133.741	132.529	131.685
Mo 202.032	5.5654	5.7989	6.1552
Na 330.237	3064125x	3042752x	3027869x

Label	Replicates Concentration		
Ni 231.604	967.842	961.196	952.989
Pb 220.353	4.9137	5.7598	3.9079
Sb 206.834	3.7373	4.9503	3.6122
Se 196.026	5.2841	1.0189	8.5155
Sn 189.925	-1.9972u	-1.8219u	0.3148
Sr 216.596	17.1558	16.1749	17.0247
Ti 334.941	1.0864	1.0374	1.0405
Tl 190.794	-2.2047u	-3.5457u	-5.3346u
V 292.401	6.6703	6.6583	6.3190
Zn 206.200	226.707	226.250	224.300

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1542b	ppb	0.1338	86.8	-35.6042
Al 308.215	1292.32b	ppb	6.4280	0.5	7732.61
As 188.980	3.8138b	ppb	2.6261	68.9	-4.2701
B 249.678	28.6827b	ppb	0.4491	1.6	662.991
Ba 389.178	5.3849b	ppb	0.7883	14.6	130.394
Be 313.042	0.2462b	ppb	0.0067	2.7	-167.868
Ca 370.602	8605b	ppb	66.52	0.8	26850
Cd 226.502	0.7934b	ppb	0.0506	6.4	57.2612
Co 228.615	3.1831b	ppb	0.7602	23.9	40.6844
Cr 267.716	71.2429b	ppb	0.4727	0.7	4649.21
Cu 324.754	50.4265b	ppb	0.3496	0.7	3627.57
Fe 271.441	4889.45b	ppb	41.5231	0.8	9776.70
K 766.491	4457.98b	ppb	18.9090	0.4	191976
Mg 279.078	472.203b	ppb	2.9173	0.6	1509.64
Mn 257.610	132.652b	ppb	1.0338	0.8	36192.6
Mo 202.032	5.8398b	ppb	0.2970	5.1	58.7129
Na 330.237	3044915xb	ppb	18224.9	0.6	192556
Ni 231.604	960.676b	ppb	7.4397	0.8	3911.26
Pb 220.353	4.8605b	ppb	0.9271	19.1	24.0774
Sb 206.834	4.0999b	ppb	0.7391	18.0	8.3407
Se 196.026	4.9395b	ppb	3.7601	76.1	3.7942
Sn 189.925	-1.1681b	ppb	1.2872	110.2	-12.9923
Sr 216.596	16.7851b	ppb	0.5325	3.2	278.737
Ti 334.941	1.0548b	ppb	0.0274	2.6	-24.9810
Tl 190.794	-3.6950b	ppb	1.5703	42.5	-19.2541
V 292.401	6.5492b	ppb	0.1995	3.0	168.355
Zn 206.200	225.752b	ppb	1.2785	0.6	421.275

680-94483-g-1-e PDS (Samp) **9/30/2013, 12:52:18 PM** **Rack 1, Tube 19**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	65.7868	66.3195	67.0935
Al 308.215	10212.1	10284.0	10313.8
As 188.980	275.451	276.518	280.580
B 249.678	698.546	698.711	699.681
Ba 389.178	212.831	214.036	212.878
Be 313.042	47.8341	47.6669	47.6534
Ca 370.602	42355	42467	42427
Cd 226.502	48.9782	49.0520	48.6653
Co 228.615	189.645	188.685	189.771
Cr 267.716	535.657	534.473	533.221

Label	Replicates Concentration		
Cu 324.754	552.296	552.693	554.112
Fe 271.441	25006.5	24971.9	24958.2
K 766.491	47583.8	47701.8	47999.5
Mg 279.078	3562.14	3549.49	3535.03
Mn 257.610	831.085	831.615	830.959
Mo 202.032	219.373	218.493	218.276
Na 330.237	14777425x	14830619x	14846538x
Ni 231.604	4570.11	4528.82	4542.12
Pb 220.353	183.639	185.306	180.488
Sb 206.834	238.578	235.131	242.812
Se 196.026	335.378	320.550	309.429
Sn 189.925	181.592	182.851	180.231
Sr 216.596	261.394	259.989	258.886
Ti 334.941	194.009	194.580	194.748
Tl 190.794	147.553	152.039	151.752
V 292.401	218.896	217.858	218.156
Zn 206.200	1250.82	1253.61	1254.51

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	66.3999b	ppb	0.6571	1.0	6130.48
Al 308.215	10270.0b	ppb	52.2743	0.5	61721.0
As 188.980	277.516b	ppb	2.7059	1.0	260.920
B 249.678	698.980b	ppb	0.6129	0.1	14020.0
Ba 389.178	213.249b	ppb	0.6824	0.3	5582.69
Be 313.042	47.7181b	ppb	0.1006	0.2	102318
Ca 370.602	42416b	ppb	56.70	0.1	132410
Cd 226.502	48.8985b	ppb	0.2053	0.4	2917.46
Co 228.615	189.367b	ppb	0.5940	0.3	2824.48
Cr 267.716	534.450b	ppb	1.2180	0.2	34539.5
Cu 324.754	553.034b	ppb	0.9545	0.2	38522.8
Fe 271.441	24978.9b	ppb	24.8955	0.1	49910.9
K 766.491	47761.7b	ppb	214.222	0.4	2054438
Mg 279.078	3548.89b	ppb	13.5604	0.4	11130.9
Mn 257.610	831.220b	ppb	0.3481	0.0	226610
Mo 202.032	218.714b	ppb	0.5810	0.3	1922.33
Na 330.237	14818194xb	ppb	36193.1	0.2	936905
Ni 231.604	4547.02b	ppb	21.0789	0.5	18523.6
Pb 220.353	183.144b	ppb	2.4471	1.3	409.690
Sb 206.834	238.840b	ppb	3.8473	1.6	403.512
Se 196.026	321.785b	ppb	13.0186	4.0	163.910
Sn 189.925	181.558b	ppb	1.3099	0.7	203.297
Sr 216.596	260.090b	ppb	1.2568	0.5	4360.44
Ti 334.941	194.445b	ppb	0.3876	0.2	56305.4
Tl 190.794	150.448b	ppb	2.5112	1.7	212.312
V 292.401	218.303b	ppb	0.5348	0.2	6691.85
Zn 206.200	1252.98b	ppb	1.9224	0.2	2308.02

680-94483-g-1-f ms (Samp) **9/30/2013, 12:56:54 PM** **Rack 1, Tube 20**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	81.6968	81.7971	81.2211
Al 308.215	14323.0	14291.4	14278.2
As 188.980	168.739	164.749	166.769

Label	Replicates	Concentration	
B 249.678	389.694	391.502	389.313
Ba 389.178	125.601	126.141	127.250
Be 313.042	51.5725	51.7818	51.7174
Ca 370.602	45741	45627	45953
Cd 226.502	52.0878	52.1706	52.5050
Co 228.615	63.0790	62.7087	63.4058
Cr 267.716	450.715	451.215	451.771
Cu 324.754	428.188	429.276	427.225
Fe 271.441	27954.9	27968.5	28058.1
K 766.491	59207.7x	59298.5x	58519.0x
Mg 279.078	6148.97	6166.81	6178.90
Mn 257.610	1155.89	1157.05	1161.09
Mo 202.032	129.280	130.135	130.080
Na 330.237	14504692x	14588158x	14517059x
Ni 231.604	4508.37	4489.83	4496.88
Pb 220.353	61.6976	63.1994	62.7839
Sb 206.834	71.1899	71.3864	73.6525
Se 196.026	180.059	187.094	180.495
Sn 189.925	196.440	190.355	200.807
Sr 216.596	176.762	178.379	177.572
Ti 334.941	107.100	106.770	107.176
Tl 190.794	22.1142	21.3126	31.0855
V 292.401	132.077	132.448	133.676
Zn 206.200	1176.29	1177.40	1182.48

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	81.5717b	ppb	0.3077	0.4	7543.57
Al 308.215	14297.5b	ppb	23.0188	0.2	85970.1
As 188.980	166.752b	ppb	1.9951	1.2	153.544
B 249.678	390.170b	ppb	1.1695	0.3	7832.37
Ba 389.178	126.331b	ppb	0.8404	0.7	3332.43
Be 313.042	51.6906b	ppb	0.1072	0.2	111099
Ca 370.602	45774b	ppb	165.3	0.4	142761
Cd 226.502	52.2545b	ppb	0.2209	0.4	3134.95
Co 228.615	63.0645b	ppb	0.3487	0.6	936.887
Cr 267.716	451.234b	ppb	0.5283	0.1	29221.1
Cu 324.754	428.230b	ppb	1.0261	0.2	29860.2
Fe 271.441	27993.8b	ppb	56.0814	0.2	55909.4
K 766.491	59008.4xb	ppb	426.226	0.7	2538152
Mg 279.078	6164.90b	ppb	15.0570	0.2	19315.7
Mn 257.610	1158.01b	ppb	2.7307	0.2	315718
Mo 202.032	129.832b	ppb	0.4785	0.4	1143.51
Na 330.237	14536636xb	ppb	45045.5	0.3	919104
Ni 231.604	4498.36b	ppb	9.3597	0.2	18325.9
Pb 220.353	62.5603b	ppb	0.7755	1.2	150.268
Sb 206.834	72.0763b	ppb	1.3686	1.9	126.317
Se 196.026	182.549b	ppb	3.9417	2.2	93.7487
Sn 189.925	195.867b	ppb	5.2494	2.7	219.607
Sr 216.596	177.571b	ppb	0.8086	0.5	2961.35
Ti 334.941	107.015b	ppb	0.2158	0.2	30416.6
Tl 190.794	24.8374b	ppb	5.4258	21.8	21.2221
V 292.401	132.734b	ppb	0.8369	0.6	4005.99
Zn 206.200	1178.72b	ppb	3.3047	0.3	2171.92

680-94483-g-1-g msd (Samp) **9/30/2013, 1:01:29 PM** **Rack 1, Tube 21**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	80.0777	80.1502	80.2282
Al 308.215	14175.9	14102.2	14078.7
As 188.980	156.618	168.613	163.803
B 249.678	384.962	384.385	383.763
Ba 389.178	123.586	124.815	125.300
Be 313.042	51.0918	51.2235	51.2884
Ca 370.602	45487	45579	45261
Cd 226.502	51.8680	51.9954	51.9473
Co 228.615	60.4383	63.3824	62.1881
Cr 267.716	445.319	445.641	444.866
Cu 324.754	421.249	419.919	421.722
Fe 271.441	27670.5	27689.9	27675.9
K 766.491	57972.0x	57472.6x	57760.3x
Mg 279.078	6111.94	6128.20	6110.49
Mn 257.610	1146.42	1147.83	1144.00
Mo 202.032	129.045	129.995	129.022
Na 330.237	14382320x	14380256x	14366564x
Ni 231.604	4425.36	4460.02	4432.71
Pb 220.353	62.7300	63.8582	63.8631
Sb 206.834	70.6700	70.9751	72.9030
Se 196.026	178.306	199.585	189.815
Sn 189.925	195.287	193.173	194.730
Sr 216.596	176.279	176.025	175.500
Ti 334.941	106.218	106.429	106.120
Tl 190.794	19.9517	24.0198	20.4698
V 292.401	131.304	130.834	131.694
Zn 206.200	1158.64	1171.78	1156.17

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	80.1520b	ppb	0.0753	0.1	7411.89
Al 308.215	14118.9b	ppb	50.6886	0.4	84895.8
As 188.980	163.012b	ppb	6.0367	3.7	149.917
B 249.678	384.370b	ppb	0.6000	0.2	7717.20
Ba 389.178	124.567b	ppb	0.8839	0.7	3285.90
Be 313.042	51.2012b	ppb	0.1002	0.2	110049
Ca 370.602	45443b	ppb	163.9	0.4	141737
Cd 226.502	51.9369b	ppb	0.0643	0.1	3116.05
Co 228.615	62.0029b	ppb	1.4808	2.4	920.972
Cr 267.716	445.275b	ppb	0.3895	0.1	28836.1
Cu 324.754	420.963b	ppb	0.9351	0.2	29355.8
Fe 271.441	27678.8b	ppb	9.9981	0.0	55280.3
K 766.491	57734.9xb	ppb	250.686	0.4	2483380
Mg 279.078	6116.88b	ppb	9.8310	0.2	19165.6
Mn 257.610	1146.08b	ppb	1.9393	0.2	312466
Mo 202.032	129.354b	ppb	0.5554	0.4	1139.35
Na 330.237	14376379xb	ppb	8563.32	0.1	908972
Ni 231.604	4439.36b	ppb	18.2627	0.4	18085.5
Pb 220.353	63.4838b	ppb	0.6528	1.0	152.234
Sb 206.834	71.5160b	ppb	1.2108	1.7	125.292
Se 196.026	189.235b	ppb	10.6513	5.6	97.1179
Sn 189.925	194.396b	ppb	1.0955	0.6	217.829
Sr 216.596	175.935b	ppb	0.3977	0.2	2934.45

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ti 334.941	106.256b	ppb	0.1580	0.1	30205.7
Tl 190.794	21.4804b	ppb	2.2143	10.3	16.1789
V 292.401	131.277b	ppb	0.4306	0.3	3961.99
Zn 206.200	1162.20b	ppb	8.3877	0.7	2141.55

680-94597-a-5-a (Samp) **9/30/2013, 1:06:05 PM** **Rack 1, Tube 22**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.2945	-0.0284u	0.2670
Al 308.215	314.308	314.694	317.375
As 188.980	2.3451	0.9978	-1.3198u
B 249.678	17.2297	17.2525	17.3092
Ba 389.178	28.5196	27.0228	27.6259
Be 313.042	0.0225	0.0221	0.0271
Ca 370.602	5405	5428	5393
Cd 226.502	0.0991	0.0401	0.0614
Co 228.615	0.6652	0.1837	0.5549
Cr 267.716	1.0014	0.7648	0.9686
Cu 324.754	4.1957	4.4959	4.3779
Fe 271.441	281.822	287.808	282.454
K 766.491	4814.02	4830.47	4808.40
Mg 279.078	617.609	617.886	618.888
Mn 257.610	21.2186	21.2363	21.2098
Mo 202.032	1.6462	1.3290	1.3370
Na 330.237	2279.15	2225.60	2142.65
Ni 231.604	1.9740	2.1562	1.6834
Pb 220.353	0.2336	2.6722	2.8247
Sb 206.834	-0.4386u	-0.6720u	-1.0239u
Se 196.026	1.3522	-6.0023u	5.5112
Sn 189.925	1.7924	-1.0231u	-0.1656u
Sr 216.596	12.2213	12.4250	12.5303
Ti 334.941	7.2861	7.2076	7.1636
Tl 190.794	-1.8029u	-0.1920u	-2.5677u
V 292.401	1.1819	0.8054	0.9221
Zn 206.200	255.268	255.735	253.703

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1777	ppb	0.1790	100.7	-5.3792
Al 308.215	315.459	ppb	1.6700	0.5	1855.35
As 188.980	0.6744	ppb	1.8537	274.9	-7.2571
B 249.678	17.2638	ppb	0.0409	0.2	447.286
Ba 389.178	27.7228	ppb	0.7531	2.7	704.811
Be 313.042	0.0239	ppb	0.0028	11.7	-219.907
Ca 370.602	5409	ppb	17.77	0.3	17098
Cd 226.502	0.0669	ppb	0.0299	44.7	21.6185
Co 228.615	0.4679	ppb	0.2523	53.9	-0.0505
Cr 267.716	0.9116	ppb	0.1282	14.1	78.4370
Cu 324.754	4.3565	ppb	0.1512	3.5	428.247
Fe 271.441	284.028	ppb	3.2885	1.2	582.612
K 766.491	4817.63	ppb	11.4659	0.2	207444
Mg 279.078	618.128	ppb	0.6729	0.1	1968.48
Mn 257.610	21.2216	ppb	0.0135	0.1	5828.22
Mo 202.032	1.4374	ppb	0.1809	12.4	20.4251

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Na 330.237	2215.80	ppb	68.7728	3.1	180.030
Ni 231.604	1.9379	ppb	0.2385	12.3	4.7962
Pb 220.353	1.9102	ppb	1.4540	76.1	17.2915
Sb 206.834	-0.7115	ppb	0.2946	41.4	-0.8083
Se 196.026	0.2870	ppb	5.8302	2031.2	1.4028
Sn 189.925	0.2012	ppb	1.4431	717.1	-13.0087
Sr 216.596	12.3922	ppb	0.1571	1.3	222.551
Ti 334.941	7.2191	ppb	0.0620	0.9	2070.00
Tl 190.794	-1.5209	ppb	1.2127	79.7	-15.4545
V 292.401	0.9698	ppb	0.1928	19.9	26.6222
Zn 206.200	254.902	ppb	1.0642	0.4	475.134

680-94597-a-6-a (Samp) **9/30/2013, 1:10:41 PM** **Rack 1, Tube 23**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	-0.1116u	0.1275	0.1932
Al 308.215	298.302	298.550	298.316
As 188.980	2.1628	0.6409	1.3658
B 249.678	17.4233	17.7965	17.5679
Ba 389.178	14.6116	15.2235	15.0402
Be 313.042	0.0351	0.0349	0.0344
Ca 370.602	4239	4265	4267
Cd 226.502	0.0805	-0.0231u	-0.1293u
Co 228.615	0.1382	0.2422	0.3350
Cr 267.716	0.4368	0.3363	0.4517
Cu 324.754	3.3663	3.1696	3.4549
Fe 271.441	235.099	239.704	240.615
K 766.491	1638.93	1635.34	1636.33
Mg 279.078	1329.93	1330.25	1325.39
Mn 257.610	4.0979	4.1191	4.0870
Mo 202.032	2.1681	2.3035	1.8254
Na 330.237	652.954	729.399	667.340
Ni 231.604	0.9030	1.8305	1.2318
Pb 220.353	2.5899	1.2636	3.2736
Sb 206.834	1.2149	3.1661	2.1518
Se 196.026	-2.9577u	1.1494	5.2684
Sn 189.925	0.5142	0.4921	1.0346
Sr 216.596	7.3744	7.6712	7.4654
Ti 334.941	8.9434	8.9828	8.8531
Tl 190.794	-0.1567u	-2.6625u	-2.1947u
V 292.401	1.5510	1.2983	1.3572
Zn 206.200	43.1812	43.6087	43.8682

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0697	ppb	0.1604	230.1	-15.2172
Al 308.215	298.389	ppb	0.1394	0.0	1752.60
As 188.980	1.3898	ppb	0.7612	54.8	-6.5629
B 249.678	17.5959	ppb	0.1881	1.1	454.049
Ba 389.178	14.9585	ppb	0.3140	2.1	374.644
Be 313.042	0.0348	ppb	0.0004	1.0	-196.117
Ca 370.602	4257	ppb	15.53	0.4	13456
Cd 226.502	-0.0240	ppb	0.1049	437.8	15.9963
Co 228.615	0.2385	ppb	0.0985	41.3	-3.4591

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Cr 267.716	0.4083	ppb	0.0628	15.4	46.1473
Cu 324.754	3.3302	ppb	0.1460	4.4	357.024
Fe 271.441	238.473	ppb	2.9567	1.2	491.641
K 766.491	1636.87	ppb	1.8534	0.1	70642.0
Mg 279.078	1328.52	ppb	2.7150	0.2	4193.85
Mn 257.610	4.1013	ppb	0.0164	0.4	1168.58
Mo 202.032	2.0990	ppb	0.2464	11.7	26.2242
Na 330.237	683.231	ppb	40.6244	5.9	86.9845
Ni 231.604	1.3218	ppb	0.4702	35.6	2.2848
Pb 220.353	2.3757	ppb	1.0220	43.0	18.2843
Sb 206.834	2.1776	ppb	0.9758	44.8	3.9861
Se 196.026	1.1534	ppb	4.1131	356.6	1.8355
Sn 189.925	0.6803	ppb	0.3070	45.1	-12.4593
Sr 216.596	7.5037	ppb	0.1521	2.0	138.970
Ti 334.941	8.9264	ppb	0.0665	0.7	2579.80
Tl 190.794	-1.6713	ppb	1.3324	79.7	-15.6667
V 292.401	1.4021	ppb	0.1322	9.4	40.2796
Zn 206.200	43.5527	ppb	0.3469	0.8	86.5582

680-94612-c-1-a (Samp) **9/30/2013, 1:15:17 PM** **Rack 1, Tube 24**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	1.3917u	1.4057u	1.1891u
Al 308.215	28.0532	24.9046	26.9786
As 188.980	2.7441	5.0015	5.3777
B 249.678	368.011	370.451	370.462
Ba 389.178	1.8129	1.1945	1.6543
Be 313.042	-0.0069	-0.0126u	-0.0090
Ca 370.602	198673	198660	197607
Cd 226.502	0.2825	0.1592	0.1695
Co 228.615	-0.3026u	0.6894	0.8123
Cr 267.716	0.6574	0.3030	0.3474
Cu 324.754	8.5605	8.1826	8.0983
Fe 271.441	107.429	108.879	111.260
K 766.491	18833.5	18792.2	18711.5
Mg 279.078	1494.01	1492.73	1496.80
Mn 257.610	8.0034	7.9620	8.0124
Mo 202.032	15.1960	14.9760	14.7947
Na 330.237	350996x	348699x	348516x
Ni 231.604	741.077	741.035	745.460
Pb 220.353	3.2885	3.2181	2.2619
Sb 206.834	5.3698	5.3369	2.5116
Se 196.026	-1.2966u	3.6466	1.3413
Sn 189.925	8.5587	6.1546	7.1759
Sr 216.596	3599.05	3591.63	3607.11
Ti 334.941	0.5122	0.5216	0.5464
Tl 190.794	-1.6479u	0.0051u	-4.2978u
V 292.401	1.4378	1.4759	1.3130
Zn 206.200	63.4452	64.2345	63.4813

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	1.3288b	ppb	0.1212	9.1	-96.1894
Al 308.215	26.6455b	ppb	1.6005	5.6	118.175

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	4.3744b	ppb	1.4244	32.6	-3.6755
B 249.678	369.641b	ppb	1.4117	0.4	7498.98
Ba 389.178	1.5539b	ppb	0.3212	20.7	26.1478
Be 313.042	-0.0095b	ppb	0.0029	30.5	-269.238
Ca 370.602	198314b	ppb	611.6	0.3	627735
Cd 226.502	0.2037b	ppb	0.0684	33.6	25.6989
Co 228.615	0.3997b	ppb	0.6113	152.9	-1.7569
Cr 267.716	0.4360b	ppb	0.1931	44.3	56.6497
Cu 324.754	8.2805b	ppb	0.2462	3.0	701.015
Fe 271.441	109.190b	ppb	1.9342	1.8	233.596
K 766.491	18779.1b	ppb	62.0436	0.3	807917
Mg 279.078	1494.51b	ppb	2.0815	0.1	4713.72
Mn 257.610	7.9926b	ppb	0.0269	0.3	2230.97
Mo 202.032	14.9889b	ppb	0.2009	1.3	139.180
Na 330.237	349404xb	ppb	1381.70	0.4	22134.9
Ni 231.604	742.524b	ppb	2.5430	0.3	3022.27
Pb 220.353	2.9229b	ppb	0.5735	19.6	19.4427
Sb 206.834	4.4061b	ppb	1.6407	37.2	7.4286
Se 196.026	1.2304b	ppb	2.4735	201.0	1.8749
Sn 189.925	7.2964b	ppb	1.2066	16.5	-4.5583
Sr 216.596	3599.26b	ppb	7.7460	0.2	61390.0
Ti 334.941	0.5267b	ppb	0.0177	3.4	59.1679
Tl 190.794	-1.9802b	ppb	2.1706	109.6	-16.1320
V 292.401	1.4089b	ppb	0.0852	6.1	34.4495
Zn 206.200	63.7203b	ppb	0.4457	0.7	123.635

Cont Calib Verif (CCV) **9/30/2013, 1:19:52 PM** **Rack 1, Tube 25**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	487.572	488.790	490.921
Al 308.215	4899.01	4910.35	4884.44
As 188.980	486.420	486.110	480.209
B 249.678	484.992	485.925	485.285
Ba 389.178	5003.41	5008.66	5007.57
Be 313.042	493.957	495.609	494.108
Ca 370.602	5086	5086	5055
Cd 226.502	495.358	493.399	494.115
Co 228.615	497.443	496.188	494.874
Cr 267.716	5052.71	5058.28	5054.02
Cu 324.754	5136.22	5134.27	5170.71
Fe 271.441	4809.87	4810.08	4804.35
K 766.491	10246.4	10241.0	10216.6
Mg 279.078	4918.92	4917.51	4920.72
Mn 257.610	5066.88	5085.71	5053.35
Mo 202.032	507.826	506.419	506.724
Na 330.237	6930.25	7037.56	6945.88
Ni 231.604	2486.04	2480.71	2476.20
Pb 220.353	498.890	499.353	500.908
Sb 206.834	1007.48	1008.60	998.398
Se 196.026	5131.31	5137.09	5117.68
Sn 189.925	4989.82	5024.20	5014.11
Sr 216.596	2545.40	2543.37	2541.80
Ti 334.941	490.546	491.616	490.391

Label	Replicates Concentration		
Tl 190.794	5027.61	5059.76	5035.06
V 292.401	4969.60	4975.51	4963.42
Zn 206.200	2475.58	2477.60	2468.31

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	489.094	ppb	1.6953	0.3	45275.2	97.81886
Al 308.215	4897.93	ppb	12.9895	0.3	28602.8	97.95868
As 188.980	484.246	ppb	3.4999	0.7	461.533	96.84923
B 249.678	485.400	ppb	0.4768	0.1	9802.06	97.08009
Ba 389.178	5006.55	ppb	2.7730	0.1	130312	100.13092
Be 313.042	494.558	ppb	0.9132	0.2	1085113	98.91162
Ca 370.602	5075	ppb	18.05	0.4	16126	101.50690
Cd 226.502	494.291	ppb	0.9913	0.2	29633.2	98.85815
Co 228.615	496.168	ppb	1.2848	0.3	7422.76	99.23368
Cr 267.716	5055.01	ppb	2.9131	0.1	322850	101.10013
Cu 324.754	5147.07	ppb	20.4970	0.4	357293	102.94136
Fe 271.441	4808.10	ppb	3.2514	0.1	9742.72	96.16203
K 766.491	10234.7	ppb	15.8977	0.2	440427	102.34662
Mg 279.078	4919.05	ppb	1.6095	0.0	15319.0	98.38097
Mn 257.610	5068.65	ppb	16.2564	0.3	1381620	101.37293
Mo 202.032	506.989	ppb	0.7402	0.1	4438.70	101.39789
Na 330.237	6971.23	ppb	57.9756	0.8	436.973	92.94973
Ni 231.604	2480.99	ppb	4.9261	0.2	10104.1	99.23948
Pb 220.353	499.717	ppb	1.0572	0.2	1090.81	99.94337
Sb 206.834	1004.83	ppb	5.5951	0.6	1747.45	100.48265
Se 196.026	5128.69	ppb	9.9678	0.2	2590.31	102.57388
Sn 189.925	5009.38	ppb	17.6747	0.4	5746.82	100.18750
Sr 216.596	2543.52	ppb	1.8041	0.1	43308.8	101.74094
Ti 334.941	490.851	ppb	0.6672	0.1	145506	98.17023
Tl 190.794	5040.81	ppb	16.8287	0.3	7613.42	100.81619
V 292.401	4969.51	ppb	6.0479	0.1	156941	99.39021
Zn 206.200	2473.83	ppb	4.8847	0.2	4531.95	98.95324

Cont Calib Blank (CCB) **9/30/2013, 1:24:26 PM** **Rack 1, Tube 26**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.0686	0.1512	-0.0133u
Al 308.215	-1.3465u	-0.2727u	-1.7208u
As 188.980	-0.3093u	2.3311	0.3861
B 249.678	2.1570	1.7989	1.9193
Ba 389.178	0.6335	0.2613	1.3366
Be 313.042	0.0013	0.0188	0.0057
Ca 370.602	-1.254u	1.263	5.302
Cd 226.502	0.0089	-0.1159u	0.0440
Co 228.615	0.5110	0.2392	0.3951
Cr 267.716	-0.0056u	-0.0819u	0.1426
Cu 324.754	0.2031	-0.0861u	0.5348
Fe 271.441	-2.9302u	-1.3697u	-0.8672u
K 766.491	0.4154	0.8089	0.7962
Mg 279.078	-0.0420u	-4.9728u	1.1393
Mn 257.610	0.0748	0.0796	0.1081
Mo 202.032	-0.1769u	-0.1415u	-0.3718u
Na 330.237	94.1733	38.9713	11.4642

Label	Replicates Concentration		
Ni 231.604	1.6880	0.1646	1.4802
Pb 220.353	-0.2056u	2.0666	1.0295
Sb 206.834	4.6692	-0.0345u	0.1999
Se 196.026	5.7777	10.6697	0.2974
Sn 189.925	0.7136	0.4523	2.1848
Sr 216.596	-0.1140u	0.0301	-0.1611u
Ti 334.941	0.0584	0.1438	0.0757
Tl 190.794	1.9606	3.1873	1.2179
V 292.401	0.4604	0.0751	0.1140
Zn 206.200	-1.0622u	-0.5297u	-1.3757u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.0688	ppb	0.0823	119.5	-14.8849	0.06884
Al 308.215	-1.1133	ppb	0.7517	67.5	-49.4660	-1.11334
As 188.980	0.8026	ppb	1.3686	170.5	-7.1322	0.80265
B 249.678	1.9584	ppb	0.1822	9.3	141.805	1.95837
Ba 389.178	0.7438	ppb	0.5461	73.4	0.3983	0.74377
Be 313.042	0.0086	ppb	0.0091	105.6	-254.716	0.00861
Ca 370.602	1.770	ppb	3.307	186.8	1.361	1.77028
Cd 226.502	-0.0210	ppb	0.0840	400.6	15.0421	-0.02098
Co 228.615	0.3818	ppb	0.1364	35.7	-1.5078	0.38178
Cr 267.716	0.0184	ppb	0.1142	621.8	21.1170	0.01836
Cu 324.754	0.2173	ppb	0.3107	143.0	140.811	0.21727
Fe 271.441	-1.7224	ppb	1.0757	62.5	12.1612	-1.72239
K 766.491	0.6735	ppb	0.2236	33.2	270.371	0.67349
Mg 279.078	-1.2918	ppb	3.2421	251.0	29.0041	-1.29181
Mn 257.610	0.0875	ppb	0.0180	20.6	60.9202	0.08750
Mo 202.032	-0.2301	ppb	0.1240	53.9	5.8332	-0.23006
Na 330.237	48.2029	ppb	42.1203	87.4	47.7634	48.20293
Ni 231.604	1.1109	ppb	0.8261	74.4	1.4174	1.11092
Pb 220.353	0.9635	ppb	1.1375	118.1	15.2332	0.96349
Sb 206.834	1.6115	ppb	2.6506	164.5	3.0741	1.61151
Se 196.026	5.5816	ppb	5.1889	93.0	4.0680	5.58162
Sn 189.925	1.1169	ppb	0.9340	83.6	-11.9600	1.11688
Sr 216.596	-0.0817	ppb	0.0996	122.0	8.6835	-0.08167
Ti 334.941	0.0926	ppb	0.0452	48.7	-46.1073	0.09265
Tl 190.794	2.1219	ppb	0.9946	46.9	-9.9016	2.12191
V 292.401	0.2165	ppb	0.2121	98.0	3.0252	0.21652
Zn 206.200	-0.9892	ppb	0.4277	43.2	4.6642	-0.98920

mb 680-295846/1-a (Samp) **9/30/2013, 1:29:00 PM** **Rack 1, Tube 27**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.2886	-0.0287u	0.5601
Al 308.215	-0.8711u	-1.2662u	-0.2811u
As 188.980	2.6103	-0.1630u	4.1623
B 249.678	3.3172	2.8817	2.6708
Ba 389.178	0.8050	0.5312	0.0705
Be 313.042	0.0032	0.0137	0.0106
Ca 370.602	5.968	-1.168u	0.7829
Cd 226.502	-0.1115u	-0.1533u	-0.0579u
Co 228.615	-0.2131u	0.0205	0.0364
Cr 267.716	0.1028	0.1611	0.0593

Label	Replicates Concentration		
Cu 324.754	0.0805	0.4162	0.4139
Fe 271.441	3.5355	0.2999	-4.1150u
K 766.491	0.7722	1.0006	1.4195
Mg 279.078	-0.2355u	-0.7286u	0.1132
Mn 257.610	0.1377	0.0974	0.1165
Mo 202.032	0.2365	0.4223	0.2101
Na 330.237	1.4223	-64.0182u	40.5530
Ni 231.604	0.1243	0.4941	0.7314
Pb 220.353	0.7207	-0.4478u	1.5004
Sb 206.834	0.3990	0.7314	-1.4696u
Se 196.026	8.0654	2.6647	5.4459
Sn 189.925	-0.9828u	2.9576	0.3378
Sr 216.596	0.1979	-0.0759u	-0.1518u
Ti 334.941	0.0474	0.0197	0.0721
Tl 190.794	0.2676	1.5983	-0.4637u
V 292.401	0.1936	-0.1093u	-0.3597u
Zn 206.200	0.5058	1.0584	0.0307

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.2733	ppb	0.2947	107.8	4.0671
Al 308.215	-0.8062	ppb	0.4958	61.5	-47.5228
As 188.980	2.2032	ppb	2.1912	99.5	-5.7741
B 249.678	2.9566	ppb	0.3296	11.1	161.767
Ba 389.178	0.4689	ppb	0.3712	79.2	-6.7412
Be 313.042	0.0091	ppb	0.0054	58.9	-253.614
Ca 370.602	1.861	ppb	3.688	198.2	1.277
Cd 226.502	-0.1076	ppb	0.0478	44.5	9.8785
Co 228.615	-0.0521	ppb	0.1397	268.3	-8.0099
Cr 267.716	0.1078	ppb	0.0511	47.4	26.8327
Cu 324.754	0.3035	ppb	0.1932	63.6	146.821
Fe 271.441	-0.0932	ppb	3.8404	4120.4	15.3468
K 766.491	1.0641	ppb	0.3283	30.9	287.170
Mg 279.078	-0.2836	ppb	0.4229	149.1	32.1621
Mn 257.610	0.1172	ppb	0.0202	17.2	69.0492
Mo 202.032	0.2896	ppb	0.1157	39.9	10.3876
Na 330.237	-7.3477	ppb	52.8343	719.1	44.2250
Ni 231.604	0.4499	ppb	0.3060	68.0	-1.2743
Pb 220.353	0.5911	ppb	0.9805	165.9	14.4301
Sb 206.834	-0.1130	ppb	1.1865	1049.6	0.1908
Se 196.026	5.3920	ppb	2.7007	50.1	3.9724
Sn 189.925	0.7708	ppb	2.0056	260.2	-12.3579
Sr 216.596	-0.0099	ppb	0.1839	1849.7	9.9114
Ti 334.941	0.0464	ppb	0.0262	56.5	-59.8036
Tl 190.794	0.4674	ppb	1.0454	223.7	-12.4072
V 292.401	-0.0918	ppb	0.2771	301.8	-6.8315
Zn 206.200	0.5316	ppb	0.5143	96.7	7.4600

lcs 680-295846/2-a (Samp) **9/30/2013, 1:33:34 PM** **Rack 1, Tube 28**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	61.9329	61.6587	61.4267
Al 308.215	5295.85	5313.36	5287.24
As 188.980	107.869	109.970	112.377

Label	Replicates	Concentration	
B 249.678	203.363	204.273	202.790
Ba 389.178	108.723	109.953	108.611
Be 313.042	51.6899	51.8839	51.8192
Ca 370.602	5289	5307	5274
Cd 226.502	52.8777	52.6432	52.6227
Co 228.615	53.6307	53.7915	53.4651
Cr 267.716	107.776	107.783	107.653
Cu 324.754	109.903	110.289	109.888
Fe 271.441	5122.55	5139.26	5120.04
K 766.491	5472.00	5492.31	5459.68
Mg 279.078	5187.97	5205.48	5206.40
Mn 257.610	547.795	549.660	547.220
Mo 202.032	106.265	105.730	107.116
Na 330.237	4748.20	4660.54	4780.33
Ni 231.604	105.828	105.627	105.800
Pb 220.353	53.7019	53.9313	51.3921
Sb 206.834	55.3875	51.9616	52.4687
Se 196.026	116.652	109.145	108.945
Sn 189.925	211.397	210.544	207.291
Sr 216.596	104.714	105.118	105.322
Ti 334.941	105.728	106.268	105.515
Tl 190.794	40.2295	40.6208	41.6929
V 292.401	105.869	106.142	105.844
Zn 206.200	104.224	106.575	104.540

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	61.6728	ppb	0.2534	0.4	5697.73
Al 308.215	5298.81	ppb	13.3112	0.3	31826.6
As 188.980	110.072	ppb	2.2559	2.0	98.7987
B 249.678	203.475	ppb	0.7481	0.4	4159.96
Ba 389.178	109.096	ppb	0.7447	0.7	2844.57
Be 313.042	51.7977	ppb	0.0988	0.2	113414
Ca 370.602	5290	ppb	16.22	0.3	16407
Cd 226.502	52.7146	ppb	0.1417	0.3	3196.10
Co 228.615	53.6291	ppb	0.1632	0.3	794.211
Cr 267.716	107.737	ppb	0.0734	0.1	6904.39
Cu 324.754	110.027	ppb	0.2273	0.2	7766.44
Fe 271.441	5127.29	ppb	10.4479	0.2	10260.1
K 766.491	5474.66	ppb	16.4810	0.3	235703
Mg 279.078	5199.95	ppb	10.3841	0.2	16305.6
Mn 257.610	548.225	ppb	1.2757	0.2	149529
Mo 202.032	106.370	ppb	0.6993	0.7	939.365
Na 330.237	4729.69	ppb	62.0010	1.3	339.486
Ni 231.604	105.752	ppb	0.1086	0.1	427.765
Pb 220.353	53.0084	ppb	1.4045	2.6	127.661
Sb 206.834	53.2726	ppb	1.8490	3.5	89.5063
Se 196.026	111.581	ppb	4.3934	3.9	57.7065
Sn 189.925	209.744	ppb	2.1669	1.0	227.936
Sr 216.596	105.052	ppb	0.3098	0.3	1804.28
Ti 334.941	105.837	ppb	0.3881	0.4	31336.6
Tl 190.794	40.8477	ppb	0.7576	1.9	48.0428
V 292.401	105.952	ppb	0.1652	0.2	3325.59
Zn 206.200	105.113	ppb	1.2761	1.2	199.316

680-94604-a-1-a (Samp) **9/30/2013, 1:38:08 PM** **Rack 1, Tube 29**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.0818u	0.2588	0.4937
Al 308.215	266.087	268.442	266.614
As 188.980	3.6646	-0.3459u	5.9647
B 249.678	139.097	140.353	140.068
Ba 389.178	20.5378	21.0444	21.3820
Be 313.042	0.0110	0.0169	0.0098
Ca 370.602	47842	47782	47688
Cd 226.502	-0.1090u	-0.0267u	0.0705
Co 228.615	0.1807	0.5354	-0.2004u
Cr 267.716	0.5448	0.6032	0.6185
Cu 324.754	4.1420	4.5336	4.2663
Fe 271.441	203.618	199.772	203.409
K 766.491	12193.3	12194.7	12209.6
Mg 279.078	23312.1	23347.3	23308.2
Mn 257.610	26.6547	26.5904	26.6868
Mo 202.032	1.0389	1.5920	0.8146
Na 330.237	133588x	134193x	133817x
Ni 231.604	2.7623	2.6281	3.7192
Pb 220.353	1.0417	-0.1481u	-1.7846u
Sb 206.834	3.3052	0.5385	1.3370
Se 196.026	1.7715	5.5031	-1.5004u
Sn 189.925	6.0485	7.4683	8.7225
Sr 216.596	417.345	418.425	418.185
Ti 334.941	0.4770	0.4223	0.4279
Tl 190.794	0.1894	0.2932	2.0880
V 292.401	1.3698	1.4451	1.3214
Zn 206.200	27.1094	28.6727	28.6459

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.2781b	ppb	0.2066	74.3	-18.7515
Al 308.215	267.048b	ppb	1.2358	0.5	1563.98
As 188.980	3.0944b	ppb	3.1937	103.2	-4.9092
B 249.678	139.839b	ppb	0.6581	0.5	2900.31
Ba 389.178	20.9881b	ppb	0.4249	2.0	596.388
Be 313.042	0.0126b	ppb	0.0038	30.3	-248.249
Ca 370.602	47771b	ppb	77.56	0.2	151196
Cd 226.502	-0.0217b	ppb	0.0899	414.1	15.1298
Co 228.615	0.1719b	ppb	0.3680	214.1	-4.6570
Cr 267.716	0.5888b	ppb	0.0389	6.6	61.1307
Cu 324.754	4.3140b	ppb	0.2001	4.6	425.247
Fe 271.441	202.266b	ppb	2.1627	1.1	419.352
K 766.491	12199.2b	ppb	9.0492	0.1	524921
Mg 279.078	23322.5b	ppb	21.5668	0.1	73078.9
Mn 257.610	26.6440b	ppb	0.0491	0.2	7524.87
Mo 202.032	1.1485b	ppb	0.4001	34.8	17.8979
Na 330.237	133866xb	ppb	305.268	0.2	8507.93
Ni 231.604	3.0365b	ppb	0.5950	19.6	9.2704
Pb 220.353	-0.2970b	ppb	1.4190	477.8	12.5331
Sb 206.834	1.7269b	ppb	1.4240	82.5	3.2567
Se 196.026	1.9247b	ppb	3.5042	182.1	2.2304
Sn 189.925	7.4131b	ppb	1.3379	18.0	-4.6232
Sr 216.596	417.985b	ppb	0.5672	532	7144.58

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ti 334.941	0.4424b	ppb	0.0301	6.8	157.926
Tl 190.794	0.8568b	ppb	1.0674	124.6	-11.8548
V 292.401	1.3788b	ppb	0.0623	4.5	38.5677
Zn 206.200	28.1427b	ppb	0.8950	3.2	58.2245

640-45143-s-1-a (Samp) **9/30/2013, 1:42:43 PM** **Rack 1, Tube 30**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.2786	-0.0020u	0.3469
Al 308.215	36.3785	37.4527	37.7751
As 188.980	-0.1354u	2.6554	3.0259
B 249.678	32.1691	31.5972	32.0666
Ba 389.178	35.3339	34.1641	34.7155
Be 313.042	-0.0012	-0.0070u	-0.0056
Ca 370.602	40583	39927	40631
Cd 226.502	0.0705	0.0667	0.0488
Co 228.615	0.1074	-0.1126u	-0.1887u
Cr 267.716	0.7118	0.5319	0.6237
Cu 324.754	3.7244	3.4703	3.6854
Fe 271.441	22.0344	16.9138	23.5928
K 766.491	3138.06	3063.45	3122.70
Mg 279.078	7991.69	7822.51	7973.66
Mn 257.610	7.6805	7.4219	7.6443
Mo 202.032	1.7434	0.9165	1.1469
Na 330.237	2880.83	2698.87	2785.72
Ni 231.604	1.5700	1.2368	0.2792
Pb 220.353	2.0461	0.0940	0.4662
Sb 206.834	2.6887	1.8240	0.9610
Se 196.026	5.8429	-0.2819u	0.5263
Sn 189.925	-1.4948u	0.1229	-1.8203u
Sr 216.596	83.5579	82.4345	84.2417
Ti 334.941	0.4903	0.5522	0.5174
Tl 190.794	-0.5370u	0.0044u	-0.4939u
V 292.401	1.4259	1.1486	0.9236
Zn 206.200	29.2628	30.5045	29.9011

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.2078	ppb	0.1849	89.0	-6.7183
Al 308.215	37.2021	ppb	0.7313	2.0	181.012
As 188.980	1.8486	ppb	1.7282	93.5	-6.1181
B 249.678	31.9443	ppb	0.3049	1.0	741.778
Ba 389.178	34.7378	ppb	0.5852	1.7	908.539
Be 313.042	-0.0046	ppb	0.0031	66.5	-269.121
Ca 370.602	40380	ppb	393.6	1.0	127815
Cd 226.502	0.0620	ppb	0.0116	18.7	20.2491
Co 228.615	-0.0646	ppb	0.1538	238.0	-8.2083
Cr 267.716	0.6225	ppb	0.0900	14.5	59.8092
Cu 324.754	3.6267	ppb	0.1368	3.8	377.481
Fe 271.441	20.8470	ppb	3.4943	16.8	57.1585
K 766.491	3108.07	ppb	39.3979	1.3	133917
Mg 279.078	7929.29	ppb	92.9111	1.2	24867.5
Mn 257.610	7.5822	ppb	0.1401	1.8	2180.98
Mo 202.032	1.2689	ppb	0.4268	33.6	18.9645

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Na 330.237	2788.48	ppb	91.0102	3.3	220.457
Ni 231.604	1.0286	ppb	0.6701	65.1	1.0844
Pb 220.353	0.8687	ppb	1.0365	119.3	15.0296
Sb 206.834	1.8246	ppb	0.8638	47.3	3.4081
Se 196.026	2.0291	ppb	3.3275	164.0	2.2776
Sn 189.925	-1.0641	ppb	1.0408	97.8	-14.4436
Sr 216.596	83.4114	ppb	0.9124	1.1	1438.57
Ti 334.941	0.5200	ppb	0.0310	6.0	118.483
Tl 190.794	-0.3422	ppb	0.3009	87.9	-13.6386
V 292.401	1.1660	ppb	0.2516	21.6	32.8738
Zn 206.200	29.8895	ppb	0.6210	2.1	61.4338

640-45143-s-1-aSD^5 (Samp) **9/30/2013, 1:47:17 PM** **Rack 1, Tube 31**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	0.0092u	0.1420	0.2768
Al 308.215	6.7736	6.8266	7.5680
As 188.980	1.8929	2.4070	0.6884
B 249.678	6.4396	6.5145	6.4998
Ba 389.178	6.4983	6.0070	6.0206
Be 313.042	0.0082	0.0081	0.0042
Ca 370.602	7861	7749	7822
Cd 226.502	0.0218	0.0719	-0.0377u
Co 228.615	-0.4258u	0.2530	0.2883
Cr 267.716	-0.0495u	0.0035	0.1261
Cu 324.754	0.8454	0.7242	0.5044
Fe 271.441	0.2726	10.8740	5.4621
K 766.491	583.511	575.530	577.240
Mg 279.078	1547.66	1529.18	1537.65
Mn 257.610	1.5272	1.5003	1.5339
Mo 202.032	-0.2158u	-0.0602u	0.1884
Na 330.237	470.065	562.799	489.763
Ni 231.604	-0.6714u	-0.2926u	-1.4039u
Pb 220.353	1.8121	1.7680	0.6217
Sb 206.834	-1.1183u	1.7706	-0.3950u
Se 196.026	-0.7285u	-2.5321u	-0.9675u
Sn 189.925	1.6684	0.4765	1.5100
Sr 216.596	16.4195	15.5507	15.7908
Ti 334.941	0.2176	0.1310	0.2006
Tl 190.794	0.1454	1.0100	0.7249
V 292.401	-0.0751u	0.2006	0.2375
Zn 206.200	6.0016	5.5375	5.4406

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1426	ppb	0.1338	93.8	-8.9517
Al 308.215	7.0561	ppb	0.4442	6.3	-0.2713
As 188.980	1.6628	ppb	0.8821	53.1	-6.2980
B 249.678	6.4846	ppb	0.0397	0.6	232.358
Ba 389.178	6.1753	ppb	0.2798	4.5	146.304
Be 313.042	0.0068	ppb	0.0023	33.1	-255.774
Ca 370.602	7810	ppb	56.86	0.7	24719
Cd 226.502	0.0186	ppb	0.0549	294.3	17.4736
Co 228.615	0.0385	ppb	0.4025	1045.4	-6.6426

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Cr 267.716	0.0267	ppb	0.0901	337.6	21.6718
Cu 324.754	0.6913	ppb	0.1728	25.0	173.724
Fe 271.441	5.5362	ppb	5.3011	95.8	26.5991
K 766.491	578.760	ppb	4.2021	0.7	25133.5
Mg 279.078	1538.16	ppb	9.2482	0.6	4850.56
Mn 257.610	1.5205	ppb	0.0178	1.2	466.491
Mo 202.032	-0.0292	ppb	0.2039	698.1	7.5930
Na 330.237	507.543	ppb	48.8568	9.6	76.6847
Ni 231.604	-0.7893	ppb	0.5650	71.6	-6.3236
Pb 220.353	1.4006	ppb	0.6749	48.2	16.1762
Sb 206.834	0.0858	ppb	1.5032	1752.6	0.5263
Se 196.026	-1.4094	ppb	0.9796	69.5	0.5410
Sn 189.925	1.2183	ppb	0.6473	53.1	-11.8387
Sr 216.596	15.9203	ppb	0.4486	2.8	282.790
Ti 334.941	0.1831	ppb	0.0459	25.1	-11.9415
Tl 190.794	0.6268	ppb	0.4406	70.3	-12.1666
V 292.401	0.1210	ppb	0.1708	141.2	-0.0162
Zn 206.200	5.6599	ppb	0.2999	5.3	16.8890

640-45143-s-1-a PDS (Samp) **9/30/2013, 1:55:08 PM** **Rack 1, Tube 32**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	26.5862	26.4611	26.3737
Al 308.215	1975.14	1968.88	1979.98
As 188.980	195.691	189.000	197.922
B 249.678	490.883	491.338	494.999
Ba 389.178	233.876	232.098	234.004
Be 313.042	48.0205	48.1285	48.2826
Ca 370.602	41414	41151	41358
Cd 226.502	48.2609	48.5186	48.8511
Co 228.615	192.271	195.004	195.810
Cr 267.716	195.698	195.577	196.749
Cu 324.754	207.385	206.310	207.406
Fe 271.441	1907.55	1917.81	1923.90
K 766.491	5273.84	5262.54	5284.11
Mg 279.078	9910.61	9872.77	9956.95
Mn 257.610	209.147	209.218	210.097
Mo 202.032	198.381	198.307	199.450
Na 330.237	4579.98	4617.98	4647.15
Ni 231.604	191.798	192.243	193.698
Pb 220.353	193.156	192.645	194.976
Sb 206.834	190.028	187.623	187.921
Se 196.026	205.623	206.287	205.376
Sn 189.925	194.662	196.114	195.413
Sr 216.596	278.507	278.359	280.419
Ti 334.941	195.722	195.310	195.518
Tl 190.794	192.301	188.369	191.893
V 292.401	195.132	194.924	194.389
Zn 206.200	219.979	220.002	222.094

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	26.4737	ppb	0.1068	0.4	2421.46
Al 308.215	1974.67	ppb	5.5652	0.3	11808.8

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	194.204	ppb	4.6430	2.4	180.358
B 249.678	492.407	ppb	2.2566	0.5	9950.42
Ba 389.178	233.326	ppb	1.0654	0.5	6087.17
Be 313.042	48.1439	ppb	0.1318	0.3	105386
Ca 370.602	41307	ppb	138.5	0.3	130711
Cd 226.502	48.5435	ppb	0.2959	0.6	2931.78
Co 228.615	194.361	ppb	1.8545	1.0	2897.46
Cr 267.716	196.008	ppb	0.6448	0.3	12538.5
Cu 324.754	207.034	ppb	0.6265	0.3	14499.9
Fe 271.441	1916.42	ppb	8.2635	0.4	3872.77
K 766.491	5273.50	ppb	10.7893	0.2	227051
Mg 279.078	9913.45	ppb	42.1624	0.4	31076.9
Mn 257.610	209.487	ppb	0.5289	0.3	57237.8
Mo 202.032	198.713	ppb	0.6395	0.3	1748.50
Na 330.237	4615.04	ppb	33.6812	0.7	330.909
Ni 231.604	192.580	ppb	0.9941	0.5	780.979
Pb 220.353	193.592	ppb	1.2253	0.6	430.148
Sb 206.834	188.524	ppb	1.3110	0.7	314.142
Se 196.026	205.762	ppb	0.4709	0.2	105.132
Sn 189.925	195.396	ppb	0.7260	0.4	211.460
Sr 216.596	279.095	ppb	1.1490	0.4	4768.86
Ti 334.941	195.517	ppb	0.2058	0.1	57952.2
Tl 190.794	190.855	ppb	2.1623	1.1	276.122
V 292.401	194.815	ppb	0.3833	0.2	6117.39
Zn 206.200	220.691	ppb	1.2143	0.6	411.374

640-45143-s-1-b ms (Samp) **9/30/2013, 1:59:44 PM** **Rack 1, Tube 33**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	60.6476	59.1412	60.3585
Al 308.215	5209.83	5197.41	5200.76
As 188.980	106.858	103.349	105.391
B 249.678	228.824	228.717	229.402
Ba 389.178	139.477	139.637	138.697
Be 313.042	50.3853	50.3437	50.5690
Ca 370.602	45131	45126	45064
Cd 226.502	50.5817	50.9392	50.8892
Co 228.615	51.5351	51.4153	50.9252
Cr 267.716	104.732	104.655	105.228
Cu 324.754	110.824	110.537	111.636
Fe 271.441	4996.07	4996.43	5018.15
K 766.491	8791.02	8780.01	8834.94
Mg 279.078	13131.5	13113.9	13135.3
Mn 257.610	537.658	537.254	538.050
Mo 202.032	104.551	104.143	104.741
Na 330.237	7504.19	7650.07	7613.76
Ni 231.604	102.954	101.402	101.934
Pb 220.353	50.7964	52.2848	51.5271
Sb 206.834	53.2277	49.5381	52.5384
Se 196.026	105.735	105.122	115.749
Sn 189.925	201.349	202.358	202.590
Sr 216.596	186.273	185.476	185.679
Ti 334.941	102.123	102.252	102.603

Label	Replicates Concentration		
Tl 190.794	39.6561	41.6593	39.8326
V 292.401	104.083	104.292	104.968
Zn 206.200	131.127	132.164	131.099

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	60.0491	ppb	0.7995	1.3	5542.29
Al 308.215	5202.67	ppb	6.4277	0.1	31248.3
As 188.980	105.200	ppb	1.7623	1.7	94.0753
B 249.678	228.981	ppb	0.3685	0.2	4670.70
Ba 389.178	139.270	ppb	0.5028	0.4	3653.04
Be 313.042	50.4327	ppb	0.1199	0.2	110433
Ca 370.602	45107	ppb	37.04	0.1	142453
Cd 226.502	50.8034	ppb	0.1936	0.4	3081.23
Co 228.615	51.2919	ppb	0.3231	0.6	759.221
Cr 267.716	104.872	ppb	0.3108	0.3	6721.36
Cu 324.754	110.999	ppb	0.5700	0.5	7833.82
Fe 271.441	5003.55	ppb	12.6467	0.3	10012.7
K 766.491	8801.99	ppb	29.0660	0.3	378809
Mg 279.078	13126.9	ppb	11.3801	0.1	41133.2
Mn 257.610	537.654	ppb	0.3978	0.1	146725
Mo 202.032	104.478	ppb	0.3055	0.3	922.797
Na 330.237	7589.34	ppb	75.9481	1.0	519.880
Ni 231.604	102.097	ppb	0.7884	0.8	412.876
Pb 220.353	51.5361	ppb	0.7442	1.4	124.479
Sb 206.834	51.7681	ppb	1.9617	3.8	86.9564
Se 196.026	108.869	ppb	5.9663	5.5	56.3355
Sn 189.925	202.099	ppb	0.6599	0.3	219.170
Sr 216.596	185.810	ppb	0.4143	0.2	3187.55
Ti 334.941	102.326	ppb	0.2481	0.2	30333.3
Tl 190.794	40.3827	ppb	1.1091	2.7	47.3469
V 292.401	104.448	ppb	0.4628	0.4	3278.41
Zn 206.200	131.463	ppb	0.6071	0.5	247.774

640-45143-s-1-c msd (Samp) **9/30/2013, 2:04:20 PM** **Rack 1, Tube 34**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	58.7852	59.5773	59.0464
Al 308.215	5229.45	5240.52	5230.88
As 188.980	105.364	109.027	105.440
B 249.678	225.457	225.677	225.472
Ba 389.178	137.379	137.678	137.542
Be 313.042	49.7517	49.9073	49.9444
Ca 370.602	43562	43627	43548
Cd 226.502	50.3175	50.7601	50.5191
Co 228.615	51.3529	51.3855	51.8216
Cr 267.716	103.766	104.071	104.103
Cu 324.754	109.237	110.179	109.545
Fe 271.441	4966.00	4972.59	4976.03
K 766.491	8496.79	8525.46	8523.18
Mg 279.078	12668.2	12694.5	12692.0
Mn 257.610	536.113	536.553	536.468
Mo 202.032	104.148	103.835	103.440
Na 330.237	7269.72	7366.70	7290.62

Label	Replicates Concentration		
Ni 231.604	102.589	104.592	102.345
Pb 220.353	52.5592	52.3718	51.7256
Sb 206.834	49.2776	51.5830	48.1403
Se 196.026	100.505	105.193	101.043
Sn 189.925	204.162	202.339	202.779
Sr 216.596	181.073	181.763	181.410
Ti 334.941	102.075	102.332	102.429
Tl 190.794	41.4494	41.4899	37.6760
V 292.401	103.193	103.553	103.835
Zn 206.200	128.989	128.788	127.435

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	59.1363	ppb	0.4036	0.7	5457.93
Al 308.215	5233.62	ppb	6.0238	0.1	31434.6
As 188.980	106.611	ppb	2.0933	2.0	95.4443
B 249.678	225.535	ppb	0.1227	0.1	4601.84
Ba 389.178	137.533	ppb	0.1494	0.1	3606.49
Be 313.042	49.8678	ppb	0.1023	0.2	109192
Ca 370.602	43579	ppb	41.98	0.1	137618
Cd 226.502	50.5322	ppb	0.2216	0.4	3064.84
Co 228.615	51.5200	ppb	0.2617	0.5	762.648
Cr 267.716	103.980	ppb	0.1861	0.2	6664.38
Cu 324.754	109.654	ppb	0.4805	0.4	7740.42
Fe 271.441	4971.54	ppb	5.1004	0.1	9948.87
K 766.491	8515.14	ppb	15.9355	0.2	366472
Mg 279.078	12684.9	ppb	14.5580	0.1	39748.9
Mn 257.610	536.378	ppb	0.2334	0.0	146372
Mo 202.032	103.808	ppb	0.3547	0.3	916.923
Na 330.237	7309.01	ppb	51.0434	0.7	502.213
Ni 231.604	103.176	ppb	1.2327	1.2	417.270
Pb 220.353	52.2189	ppb	0.4373	0.8	125.951
Sb 206.834	49.6669	ppb	1.7541	3.5	83.4587
Se 196.026	102.247	ppb	2.5655	2.5	52.9935
Sn 189.925	203.094	ppb	0.9511	0.5	220.312
Sr 216.596	181.415	ppb	0.3448	0.2	3112.26
Ti 334.941	102.279	ppb	0.1828	0.2	30317.2
Tl 190.794	40.2051	ppb	2.1904	5.4	47.0852
V 292.401	103.527	ppb	0.3217	0.3	3249.54
Zn 206.200	128.404	ppb	0.8452	0.7	242.153

mb 680-295852/1-a (Samp) **9/30/2013, 2:08:56 PM** **Rack 1, Tube 35**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.4682	-0.1096u	0.1216
Al 308.215	-1.5429u	-0.9127u	1.3963
As 188.980	0.0844	-2.6641u	-0.5002u
B 249.678	3.7452	3.1843	2.8362
Ba 389.178	0.5563	-0.0537u	0.5681
Be 313.042	0.0026	0.0076	0.0059
Ca 370.602	8.009	5.678	4.888
Cd 226.502	0.0723	0.0291	0.0071
Co 228.615	-0.0082u	0.2516	0.2035
Cr 267.716	0.1178	-0.0709u	-0.0768u

Label	Replicates	Concentration	
Cu 324.754	0.3230	0.0039	0.2724
Fe 271.441	-0.1253u	3.4463	-0.5552u
K 766.491	0.0256	-0.1053u	-0.5647u
Mg 279.078	0.7371	-3.1216u	-0.8313u
Mn 257.610	-0.0199u	0.0295	-0.0353u
Mo 202.032	0.3516	0.1824	0.6630
Na 330.237	-71.2805u	-149.311u	63.9147
Ni 231.604	0.6035	0.3278	-0.7865u
Pb 220.353	0.9600	2.1006	0.7856
Sb 206.834	3.9372	2.6970	3.3526
Se 196.026	6.0966	4.0490	2.9275
Sn 189.925	1.6564	-2.6044u	0.4731
Sr 216.596	0.0370	-0.2080u	0.0765
Ti 334.941	0.0889	0.0633	0.0692
Tl 190.794	1.8404	0.4336	-0.8733u
V 292.401	-0.0818u	-0.0714u	-0.3046u
Zn 206.200	-0.1927u	-0.0259u	1.0467

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1601	ppb	0.2908	181.7	-6.4348
Al 308.215	-0.3531	ppb	1.5474	438.2	-44.7927
As 188.980	-1.0266	ppb	1.4479	141.0	-8.9066
B 249.678	3.2552	ppb	0.4586	14.1	167.741
Ba 389.178	0.3569	ppb	0.3556	99.7	-9.6588
Be 313.042	0.0054	ppb	0.0026	47.6	-261.950
Ca 370.602	6.192	ppb	1.623	26.2	14.94
Cd 226.502	0.0361	ppb	0.0332	91.8	18.4856
Co 228.615	0.1490	ppb	0.1382	92.8	-5.0089
Cr 267.716	-0.0100	ppb	0.1107	1109.6	19.3106
Cu 324.754	0.1998	ppb	0.1715	85.8	139.628
Fe 271.441	0.9219	ppb	2.1967	238.3	17.4040
K 766.491	-0.2148	ppb	0.3100	144.3	232.167
Mg 279.078	-1.0719	ppb	1.9406	181.0	29.6955
Mn 257.610	-0.0086	ppb	0.0338	394.5	34.7548
Mo 202.032	0.3990	ppb	0.2437	61.1	11.3459
Na 330.237	-52.2255	ppb	107.882	206.6	41.3990
Ni 231.604	0.0483	ppb	0.7360	1523.6	-2.9113
Pb 220.353	1.2821	ppb	0.7142	55.7	15.9195
Sb 206.834	3.3289	ppb	0.6204	18.6	5.9236
Se 196.026	4.3577	ppb	1.6069	36.9	3.4505
Sn 189.925	-0.1583	ppb	2.1995	1389.3	-13.4263
Sr 216.596	-0.0315	ppb	0.1541	489.0	9.5548
Ti 334.941	0.0738	ppb	0.0134	18.1	-51.6911
Tl 190.794	0.4669	ppb	1.3571	290.7	-12.4071
V 292.401	-0.1526	ppb	0.1317	86.3	-8.7744
Zn 206.200	0.2760	ppb	0.6726	243.7	6.9906

lcs 680-295852/2-a (Samp) **9/30/2013, 2:13:32 PM** **Rack 1, Tube 36**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	60.1850	61.3128	59.7354
Al 308.215	5262.85	5234.26	5245.16
As 188.980	109.304	108.497	106.246

Label	Replicates Concentration		
B 249.678	203.872	204.659	203.845
Ba 389.178	107.843	107.240	107.945
Be 313.042	52.5249	52.8028	52.6940
Ca 370.602	5229	5225	5215
Cd 226.502	52.0115	52.3892	52.2903
Co 228.615	52.9513	53.1779	53.1970
Cr 267.716	106.559	107.276	107.103
Cu 324.754	110.338	110.343	110.259
Fe 271.441	5093.47	5111.57	5118.15
K 766.491	5297.59	5309.25	5316.29
Mg 279.078	5150.52	5174.35	5175.87
Mn 257.610	545.238	545.878	545.395
Mo 202.032	106.386	106.370	106.258
Na 330.237	4738.45	4833.79	4710.13
Ni 231.604	104.747	104.403	104.670
Pb 220.353	53.6217	50.0873	51.0004
Sb 206.834	51.0147	51.0324	51.8294
Se 196.026	101.962	100.968	98.0921
Sn 189.925	207.241	207.785	206.122
Sr 216.596	104.572	104.083	104.940
Ti 334.941	105.382	105.127	105.094
Tl 190.794	43.8353	40.0845	39.7348
V 292.401	105.473	105.853	105.481
Zn 206.200	104.186	104.395	104.395

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	60.4110	ppb	0.8127	1.3	5580.68
Al 308.215	5247.42	ppb	14.4282	0.3	31517.4
As 188.980	108.016	ppb	1.5848	1.5	96.8046
B 249.678	204.125	ppb	0.4626	0.2	4173.04
Ba 389.178	107.676	ppb	0.3807	0.4	2807.48
Be 313.042	52.6739	ppb	0.1400	0.3	115337
Ca 370.602	5223	ppb	7.307	0.1	16197
Cd 226.502	52.2303	ppb	0.1959	0.4	3167.01
Co 228.615	53.1087	ppb	0.1367	0.3	786.400
Cr 267.716	106.980	ppb	0.3742	0.3	6855.99
Cu 324.754	110.313	ppb	0.0470	0.0	7786.33
Fe 271.441	5107.73	ppb	12.7812	0.3	10221.0
K 766.491	5307.71	ppb	9.4408	0.2	228522
Mg 279.078	5166.91	ppb	14.2165	0.3	16202.2
Mn 257.610	545.504	ppb	0.3335	0.1	148787
Mo 202.032	106.338	ppb	0.0695	0.1	939.081
Na 330.237	4760.79	ppb	64.7832	1.4	341.468
Ni 231.604	104.607	ppb	0.1805	0.2	423.101
Pb 220.353	51.5698	ppb	1.8347	3.6	124.557
Sb 206.834	51.2922	ppb	0.4653	0.9	86.1953
Se 196.026	100.341	ppb	2.0097	2.0	52.0347
Sn 189.925	207.049	ppb	0.8480	0.4	224.837
Sr 216.596	104.532	ppb	0.4296	0.4	1795.40
Ti 334.941	105.201	ppb	0.1573	0.1	31147.8
Tl 190.794	41.2182	ppb	2.2732	5.5	48.6038
V 292.401	105.602	ppb	0.2170	0.2	3314.48
Zn 206.200	104.325	ppb	0.1209	0.1	197.871

Cont Calib Verif (CCV) **9/30/2013, 2:18:07 PM** **Rack 1, Tube 37**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	502.267	502.016	501.266
Al 308.215	5044.82	5021.85	5040.47
As 188.980	497.564	498.644	491.545
B 249.678	498.837	498.808	499.789
Ba 389.178	5117.00	5103.87	5112.03
Be 313.042	504.641	502.641	504.370
Ca 370.602	5179	5164	5181
Cd 226.502	508.163	502.669	505.837
Co 228.615	507.266	506.698	507.364
Cr 267.716	5160.97	5142.77	5159.39
Cu 324.754	5264.15	5263.38	5310.30
Fe 271.441	4916.43	4906.85	4908.79
K 766.491	10519.5	10529.4	10589.6
Mg 279.078	5029.05	5011.71	5016.48
Mn 257.610	5180.42	5184.32	5198.71
Mo 202.032	519.585	515.176	516.447
Na 330.237	7144.84	7130.79	7429.55
Ni 231.604	2548.51	2527.52	2533.13
Pb 220.353	510.196	504.831	508.068
Sb 206.834	1027.51	1030.96	1037.75
Se 196.026	5268.34	5230.10	5246.53
Sn 189.925	5144.13	5097.51	5089.31
Sr 216.596	2600.60	2587.57	2592.93
Ti 334.941	502.822	501.765	503.529
Tl 190.794	5133.16	5120.23	5163.61
V 292.401	5082.80	5081.25	5096.25
Zn 206.200	2533.41	2521.19	2510.89

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	501.850	ppb	0.5208	0.1	46457.4	100.36992
Al 308.215	5035.72	ppb	12.2028	0.2	29412.5	100.71435
As 188.980	495.917	ppb	3.8251	0.8	472.848	99.18346
B 249.678	499.144	ppb	0.5583	0.1	10076.8	99.82887
Ba 389.178	5110.97	ppb	6.6316	0.1	133030	102.21935
Be 313.042	503.884	ppb	1.0852	0.2	1105578	100.77678
Ca 370.602	5175	ppb	9.503	0.2	16442	103.49290
Cd 226.502	505.556	ppb	2.7576	0.5	30308.1	101.11123
Co 228.615	507.109	ppb	0.3600	0.1	7586.56	101.42189
Cr 267.716	5154.38	ppb	10.0837	0.2	329196	103.08761
Cu 324.754	5279.28	ppb	26.8711	0.5	366467	105.58553
Fe 271.441	4910.69	ppb	5.0638	0.1	9950.39	98.21378
K 766.491	10546.2	ppb	37.9479	0.4	453825	105.46175
Mg 279.078	5019.08	ppb	8.9576	0.2	15629.6	100.38158
Mn 257.610	5187.82	ppb	9.6333	0.2	1414102	103.75632
Mo 202.032	517.070	ppb	2.2693	0.4	4526.75	103.41390
Na 330.237	7235.06	ppb	168.581	2.3	452.673	96.46747
Ni 231.604	2536.39	ppb	10.8658	0.4	10329.8	101.45545
Pb 220.353	507.698	ppb	2.7015	0.5	1108.03	101.53964
Sb 206.834	1032.07	ppb	5.2088	0.5	1794.28	103.20741
Se 196.026	5248.32	ppb	19.1811	0.4	2650.70	104.96645
Sn 189.925	5110.32	ppb	29.5662	0.6	5862.89	102.20634
Sr 216.596	2593.70	ppb	6.5450	0.3	44162.8	103.74802

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ti 334.941	502.705	ppb	0.8882	0.2	149022	100.54105
Tl 190.794	5139.00	ppb	22.2720	0.4	7761.99	102.78002
V 292.401	5086.77	ppb	8.2485	0.2	160645	101.73531
Zn 206.200	2521.83	ppb	11.2729	0.4	4619.75	100.87322

Cont Calib Blank (CCB) **9/30/2013, 2:22:41 PM** **Rack 1, Tube 38**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.0507	-0.0089u	-0.1077u
Al 308.215	-0.6738u	-1.6937u	-1.3827u
As 188.980	0.6890	-0.0985u	-1.4084u
B 249.678	1.8238	1.8870	1.2708
Ba 389.178	0.3908	0.8272	0.4873
Be 313.042	0.0109	0.0102	0.0112
Ca 370.602	2.732	0.9467	0.4819
Cd 226.502	-0.0531u	-0.0266u	-0.0251u
Co 228.615	0.1721	0.2450	0.3060
Cr 267.716	-0.0423u	-0.0279u	0.0328
Cu 324.754	0.3349	0.0344	0.1107
Fe 271.441	3.0771	-1.8381u	5.2635
K 766.491	-0.1437u	0.9844	0.7989
Mg 279.078	-0.5944u	-0.0848u	-0.3650u
Mn 257.610	0.1171	0.1504	0.0936
Mo 202.032	0.3039	-0.1288u	0.4092
Na 330.237	-69.4056u	-16.9110u	5.1572
Ni 231.604	0.0890	-0.0893u	-0.2225u
Pb 220.353	0.9035	-0.5645u	1.0896
Sb 206.834	1.8660	2.5004	3.3021
Se 196.026	1.9500	8.5540	3.5721
Sn 189.925	0.1456	0.7590	2.0864
Sr 216.596	-0.0717u	0.2754	0.0685
Ti 334.941	0.1626	0.0918	0.1273
Tl 190.794	0.1430	0.2284	-0.0829u
V 292.401	-0.1844u	0.0671	0.1672
Zn 206.200	0.0009	-0.4869u	0.4501

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	-0.0220	ppb	0.0800	364.4	-23.3225	-0.02196
Al 308.215	-1.2500	ppb	0.5227	41.8	-50.2284	-1.25005
As 188.980	-0.2726	ppb	1.0595	388.6	-8.1753	-0.27263
B 249.678	1.6605	ppb	0.3390	20.4	135.827	1.66053
Ba 389.178	0.5684	ppb	0.2292	40.3	-4.1510	0.56844
Be 313.042	0.0108	ppb	0.0005	4.9	-250.056	0.01076
Ca 370.602	1.387	ppb	1.188	85.7	-0.3602	1.38692
Cd 226.502	-0.0349	ppb	0.0158	45.1	14.2365	-0.03495
Co 228.615	0.2410	ppb	0.0670	27.8	-3.6264	0.24101
Cr 267.716	-0.0125	ppb	0.0399	319.9	19.1519	-0.01246
Cu 324.754	0.1600	ppb	0.1562	97.6	136.857	0.15998
Fe 271.441	2.1675	ppb	3.6371	167.8	19.9045	2.16749
K 766.491	0.5465	ppb	0.6049	110.7	264.911	0.54654
Mg 279.078	-0.3481	ppb	0.2552	73.3	31.9611	-0.34807
Mn 257.610	0.1204	ppb	0.0285	23.7	69.9050	0.12037
Mo 202.032	0.1948	ppb	0.2852	146.2	9.5558	0.19477

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Na 330.237	-27.0532	ppb	38.3021	141.6	42.9862	-27.05318
Ni 231.604	-0.0743	ppb	0.1563	210.4	-3.4110	-0.07428
Pb 220.353	0.4762	ppb	0.9061	190.3	14.1825	0.47618
Sb 206.834	2.5562	ppb	0.7197	28.2	4.6395	2.55620
Se 196.026	4.6920	ppb	3.4415	73.3	3.6192	4.69202
Sn 189.925	0.9970	ppb	0.9921	99.5	-12.0979	0.99699
Sr 216.596	0.0907	ppb	0.1746	192.5	11.6453	0.09073
Ti 334.941	0.1272	ppb	0.0354	27.8	-35.8481	0.12722
Tl 190.794	0.0962	ppb	0.1609	167.3	-12.9675	0.09616
V 292.401	0.0166	ppb	0.1812	1089.4	-3.3832	0.01663
Zn 206.200	-0.0120	ppb	0.4687	3920.1	6.4612	-0.01196

640-45155-a-17-a (Samp) **9/30/2013, 2:27:15 PM** **Rack 1, Tube 39**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	1.3430u	1.2932u	1.4410u
Al 308.215	80.4001	79.2011	79.3816
As 188.980	14.0790	11.8896	15.3182
B 249.678	263.901	264.997	269.293
Ba 389.178	297.971	298.858	299.696
Be 313.042	0.0231	0.0319	0.0245
Ca 370.602	466820	467717	473170
Cd 226.502	0.7793	0.5481	0.8687
Co 228.615	1.6966	2.3540	1.9318
Cr 267.716	3.6481	3.4583	3.6218
Cu 324.754	117.711	118.892	120.319
Fe 271.441	305.505	315.437	319.233
K 766.491	1049019o	1058097o	1077006o
Mg 279.078	23108.9	23233.4	23401.7
Mn 257.610	51.1185	51.4996	51.7710
Mo 202.032	10.6981	10.6652	10.3458
Na 330.237	204305x	204718x	205930x
Ni 231.604	14.2728	15.5296	13.9199
Pb 220.353	3.4300	4.6351	2.9929
Sb 206.834	3.5024	3.5949	4.1475
Se 196.026	1.1504	5.6765	5.0028
Sn 189.925	-0.2869	-1.5103u	-2.0850u
Sr 216.596	3214.39	3241.08	3261.94
Ti 334.941	2.0075	1.9416	2.0036
Tl 190.794	-2.4372u	-1.0011u	-5.1529u
V 292.401	25.4177	25.7663	25.9433
Zn 206.200	570.869	580.084	577.719

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	1.3591b	ppb	0.0752	5.5	-74.7505
Al 308.215	79.6609b	ppb	0.6464	0.8	432.784
As 188.980	13.7623b	ppb	1.7361	12.6	5.4289
B 249.678	266.063b	ppb	2.8496	1.1	5429.27
Ba 389.178	298.842b	ppb	0.8628	0.3	7827.58
Be 313.042	0.0265b	ppb	0.0047	17.9	-121.808
Ca 370.602	469236b	ppb	3437	0.7	1485306
Cd 226.502	0.7321b	ppb	0.1654	22.6	60.1185
Co 228.615	1.9942b	ppb	0.3331	16.7	23.2232

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Cr 267.716	3.5761b	ppb	0.1029	2.9	253.560
Cu 324.754	118.974b	ppb	1.3059	1.1	8382.91
Fe 271.441	313.392b	ppb	7.0888	2.3	641.691
K 766.491	1061374oxb	ppb	14278.3	1.3	45649172
Mg 279.078	23248.0b	ppb	146.957	0.6	72845.1
Mn 257.610	51.4630b	ppb	0.3278	0.6	14295.4
Mo 202.032	10.5697b	ppb	0.1946	1.8	100.388
Na 330.237	204985xb	ppb	844.506	0.4	12994.5
Ni 231.604	14.5741b	ppb	0.8461	5.8	56.2780
Pb 220.353	3.6860b	ppb	0.8505	23.1	21.1239
Sb 206.834	3.7483b	ppb	0.3489	9.3	6.4731
Se 196.026	3.9432b	ppb	2.4420	61.9	3.2555
Sn 189.925	-1.2941b	ppb	0.9183	71.0	-14.3581
Sr 216.596	3239.14b	ppb	23.8341	0.7	55312.3
Ti 334.941	1.9842b	ppb	0.0370	1.9	608.653
Tl 190.794	-2.8637b	ppb	2.1085	73.6	-17.4909
V 292.401	25.7091b	ppb	0.2674	1.0	806.247
Zn 206.200	576.224b	ppb	4.7861	0.8	1065.89

680-94583-c-1-a (Samp) **9/30/2013, 2:31:49 PM** **Rack 1, Tube 40**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.1052u	0.3313u	0.1097u
Al 308.215	61.9328	59.9919	60.0317
As 188.980	96.8562	100.779	95.1096
B 249.678	557.572	556.265	559.454
Ba 389.178	59.3005	60.0759	60.2919
Be 313.042	0.1004	0.0975	0.0970
Ca 370.602	55430	55231	55109
Cd 226.502	-0.1683	0.0084	-0.2529
Co 228.615	0.5172	0.4160	0.3499
Cr 267.716	2.1702	2.1087	2.0405
Cu 324.754	-0.3946u	-0.1787u	-0.1555u
Fe 271.441	6125.08	6097.93	6128.70
K 766.491	4340.79	4347.70	4358.59
Mg 279.078	5103.35	5100.41	5113.28
Mn 257.610	161.755	161.097	161.532
Mo 202.032	3.2095	3.8367	2.8758
Na 330.237	27304.2	27187.9	27292.1
Ni 231.604	1.8813	1.1633	1.8153
Pb 220.353	-0.0449	1.3304	-1.2918u
Sb 206.834	-0.4708u	0.7299	1.1309
Se 196.026	4.0709	-2.2355u	2.8197
Sn 189.925	1.3393	1.1400	1.9320
Sr 216.596	640.926	638.460	639.864
Ti 334.941	0.2042	0.2308	0.2648
Tl 190.794	-2.5430u	-0.1911u	1.1339
V 292.401	3.1231	3.2167	3.3138
Zn 206.200	1.5028	0.9969	1.1068

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1821	ppb	0.1293	71.0	-38.9495
Al 308.215	60.6521	ppb	1.1093	1.8	321.856

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	97.5816	ppb	2.9034	3.0	86.6365
B 249.678	557.764	ppb	1.6028	0.3	11246.6
Ba 389.178	59.8894	ppb	0.5213	0.9	1564.45
Be 313.042	0.0983	ppb	0.0018	1.9	-41.0816
Ca 370.602	55256	ppb	162.1	0.3	174428
Cd 226.502	-0.1376	ppb	0.1333	96.9	35.9762
Co 228.615	0.4277	ppb	0.0842	19.7	-0.6585
Cr 267.716	2.1065	ppb	0.0649	3.1	157.971
Cu 324.754	-0.2429	ppb	0.1318	54.3	111.465
Fe 271.441	6117.24	ppb	16.8213	0.3	12227.0
K 766.491	4349.03	ppb	8.9736	0.2	187290
Mg 279.078	5105.68	ppb	6.7438	0.1	16021.9
Mn 257.610	161.462	ppb	0.3346	0.2	44115.0
Mo 202.032	3.3073	ppb	0.4878	14.7	36.4538
Na 330.237	27261.4	ppb	63.9825	0.2	1766.06
Ni 231.604	1.6200	ppb	0.3969	24.5	3.6872
Pb 220.353	-0.0021	ppb	1.3116	62106.6	13.7461
Sb 206.834	0.4633	ppb	0.8334	179.9	1.3503
Se 196.026	1.5517	ppb	3.3390	215.2	2.0963
Sn 189.925	1.4704	ppb	0.4120	28.0	-11.5078
Sr 216.596	639.750	ppb	1.2371	0.2	10935.2
Ti 334.941	0.2332	ppb	0.0304	13.0	18.4897
Tl 190.794	-0.5334	ppb	1.8622	349.1	-14.6219
V 292.401	3.2178	ppb	0.0954	3.0	97.0606
Zn 206.200	1.2022	ppb	0.2661	22.1	8.7608

680-94583-c-2-a (Samp) **9/30/2013, 2:36:23 PM** **Rack 1, Tube 41**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.2347u	0.0722u	0.1785u
Al 308.215	51.7030	51.9433	51.3075
As 188.980	87.3900	90.4847	91.2433
B 249.678	549.543	550.183	546.686
Ba 389.178	88.2326	88.0913	87.5731
Be 313.042	0.0794	0.0834	0.0811
Ca 370.602	68586	68803	68445
Cd 226.502	-0.1218	-0.1211	-0.0491
Co 228.615	2.4839	2.6557	2.4112
Cr 267.716	2.3590	2.3344	2.2939
Cu 324.754	-0.5838u	0.0484	-0.2612u
Fe 271.441	7466.91	7490.66	7432.92
K 766.491	4007.14	4021.67	4010.18
Mg 279.078	4891.82	4909.73	4871.34
Mn 257.610	141.920	142.412	141.484
Mo 202.032	2.2045	2.3353	2.5513
Na 330.237	28070.0	28070.5	27735.0
Ni 231.604	3.7121	3.1913	3.8676
Pb 220.353	1.0610	0.9758	0.6641
Sb 206.834	1.0434	1.7599	1.9370
Se 196.026	8.6211	0.7989	-3.8766u
Sn 189.925	1.1391	0.6146	1.4783
Sr 216.596	574.740	574.612	571.386
Ti 334.941	0.2718	0.3058	0.2768

Label	Replicates Concentration		
Tl 190.794	1.3905	-0.2271u	-1.2899u
V 292.401	3.2805	3.1273	3.4098
Zn 206.200	4.2054	5.3224	6.0499

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1618	ppb	0.0825	51.0	-37.0138
Al 308.215	51.6513	ppb	0.3210	0.6	267.549
As 188.980	89.7060	ppb	2.0413	2.3	78.9780
B 249.678	548.804	ppb	1.8622	0.3	11063.6
Ba 389.178	87.9656	ppb	0.3472	0.4	2296.64
Be 313.042	0.0813	ppb	0.0020	2.5	-73.4325
Ca 370.602	68611	ppb	180.2	0.3	216594
Cd 226.502	-0.0973	ppb	0.0418	42.9	44.5662
Co 228.615	2.5169	ppb	0.1256	5.0	30.6696
Cr 267.716	2.3291	ppb	0.0328	1.4	172.514
Cu 324.754	-0.2655	ppb	0.3161	119.0	110.409
Fe 271.441	7463.50	ppb	29.0166	0.4	14914.8
K 766.491	4013.00	ppb	7.6637	0.2	172838
Mg 279.078	4890.96	ppb	19.2129	0.4	15350.3
Mn 257.610	141.939	ppb	0.4641	0.3	38796.3
Mo 202.032	2.3637	ppb	0.1751	7.4	28.1039
Na 330.237	27958.5	ppb	193.565	0.7	1809.57
Ni 231.604	3.5903	ppb	0.3542	9.9	11.7517
Pb 220.353	0.9003	ppb	0.2090	23.2	15.8100
Sb 206.834	1.5801	ppb	0.4731	29.9	3.2868
Se 196.026	1.8478	ppb	6.3145	341.7	2.2454
Sn 189.925	1.0773	ppb	0.4351	40.4	-11.9523
Sr 216.596	573.580	ppb	1.9005	0.3	9810.86
Ti 334.941	0.2848	ppb	0.0183	6.4	32.8688
Tl 190.794	-0.0421	ppb	1.3497	3202.7	-13.9851
V 292.401	3.2725	ppb	0.1414	4.3	98.9664
Zn 206.200	5.1926	ppb	0.9291	17.9	16.1134

680-94583-c-3-a (Samp) **9/30/2013, 2:40:57 PM** **Rack 1, Tube 42**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.2625u	0.5350	0.2327u
Al 308.215	36.7634	36.7999	35.6321
As 188.980	56.5746	62.4396	61.1685
B 249.678	503.125	504.780	505.844
Ba 389.178	54.8875	54.6307	54.1646
Be 313.042	0.0477	0.0477	0.0479
Ca 370.602	105590	105731	105486
Cd 226.502	-0.0717	-0.1334	-0.2577
Co 228.615	0.7799	0.2992	0.2247
Cr 267.716	2.9014	2.8097	2.7777
Cu 324.754	-0.4313u	-0.2770u	-0.0423
Fe 271.441	8305.75	8305.59	8280.94
K 766.491	4421.86	4430.90	4433.83
Mg 279.078	4824.06	4836.47	4818.77
Mn 257.610	135.158	135.227	134.948
Mo 202.032	1.7062	1.5355	1.7936
Na 330.237	25365.4	25184.7	25352.9

Label	Replicates Concentration		
Ni 231.604	2.3243	2.0532	1.4111
Pb 220.353	0.5497	2.0585	-1.4337u
Sb 206.834	1.7522	2.6083	-1.2867u
Se 196.026	2.1078	4.1924	3.1094
Sn 189.925	-0.2392u	-1.8610u	-0.1315u
Sr 216.596	573.563	573.449	571.218
Ti 334.941	0.4012	0.3577	0.3687
Tl 190.794	-1.6202u	0.5713u	1.2626
V 292.401	2.9526	3.3147	3.0864
Zn 206.200	1.2015	0.2995	2.7847

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.3434	ppb	0.1666	48.5	-20.1660
Al 308.215	36.3985	ppb	0.6639	1.8	175.852
As 188.980	60.0609	ppb	3.0854	5.1	50.2135
B 249.678	504.583	ppb	1.3698	0.3	10176.4
Ba 389.178	54.5609	ppb	0.3664	0.7	1428.42
Be 313.042	0.0478	ppb	0.0001	0.2	-132.138
Ca 370.602	105602	ppb	123.0	0.1	333621
Cd 226.502	-0.1543	ppb	0.0947	61.4	45.0244
Co 228.615	0.4346	ppb	0.3014	69.3	-0.3930
Cr 267.716	2.8296	ppb	0.0642	2.3	204.640
Cu 324.754	-0.2502	ppb	0.1959	78.3	111.793
Fe 271.441	8297.43	ppb	14.2775	0.2	16579.2
K 766.491	4428.87	ppb	6.2425	0.1	190724
Mg 279.078	4826.43	ppb	9.0811	0.2	15148.6
Mn 257.610	135.111	ppb	0.1451	0.1	36938.0
Mo 202.032	1.6784	ppb	0.1312	7.8	22.0492
Na 330.237	25301.0	ppb	100.904	0.4	1641.31
Ni 231.604	1.9295	ppb	0.4690	24.3	5.0185
Pb 220.353	0.3915	ppb	1.7514	447.3	14.7897
Sb 206.834	1.0246	ppb	2.0469	199.8	2.4115
Se 196.026	3.1365	ppb	1.0425	33.2	2.8968
Sn 189.925	-0.7439	ppb	0.9689	130.3	-14.0272
Sr 216.596	572.743	ppb	1.3224	0.2	9803.55
Ti 334.941	0.3759	ppb	0.0226	6.0	59.8757
Tl 190.794	0.0712	ppb	1.5051	2113.9	-13.8986
V 292.401	3.1179	ppb	0.1831	5.9	94.1838
Zn 206.200	1.4286	ppb	1.2581	88.1	9.2014

680-94583-c-9-a (Samp) **9/30/2013, 2:45:32 PM** **Rack 1, Tube 43**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.3621u	0.2980u	0.3292u
Al 308.215	24.3829	23.4951	22.8436
As 188.980	61.3134	59.7752	64.7331
B 249.678	586.593	590.701	594.031
Ba 389.178	59.1862	59.1893	58.0591
Be 313.042	0.0366	0.0310	0.0290
Ca 370.602	118670	118744	119097
Cd 226.502	-0.0971	-0.0278	-0.0997
Co 228.615	0.0350	-0.0041	-0.0164u
Cr 267.716	2.8563	2.8631	2.9472

Label	Replicates	Concentration	
Cu 324.754	-0.2842u	-0.2048u	-0.2865u
Fe 271.441	4273.91	4292.51	4290.06
K 766.491	4137.92	4149.70	4139.01
Mg 279.078	5899.39	5914.30	5934.44
Mn 257.610	104.225	104.598	104.662
Mo 202.032	3.1108	2.9110	2.8031
Na 330.237	35164.5	35344.5	35312.6
Ni 231.604	5.3889	6.3083	5.8179
Pb 220.353	-0.4849u	0.0377	0.5881
Sb 206.834	1.5323	0.9069	-1.9252u
Se 196.026	2.4783	-0.4035u	2.4631
Sn 189.925	0.8034	3.3214	-1.5841u
Sr 216.596	730.255	732.926	733.553
Ti 334.941	0.4166	0.3918	0.3117
Tl 190.794	-3.2390u	-0.4522u	-2.3481u
V 292.401	2.9962	2.6352	3.2703
Zn 206.200	1.3401	0.2719	1.9233

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.3298	ppb	0.0321	9.7	-30.5158
Al 308.215	23.5739	ppb	0.7727	3.3	98.7912
As 188.980	61.9406	ppb	2.5377	4.1	52.0971
B 249.678	590.442	ppb	3.7260	0.6	11905.6
Ba 389.178	58.8115	ppb	0.6516	1.1	1535.89
Be 313.042	0.0322	ppb	0.0040	12.3	-162.265
Ca 370.602	118837	ppb	227.8	0.2	375831
Cd 226.502	-0.0748	ppb	0.0408	54.5	31.2860
Co 228.615	0.0048	ppb	0.0268	559.5	-7.0382
Cr 267.716	2.8889	ppb	0.0506	1.8	207.250
Cu 324.754	-0.2585	ppb	0.0465	18.0	109.623
Fe 271.441	4285.49	ppb	10.1090	0.2	8570.39
K 766.491	4142.21	ppb	6.5105	0.2	178395
Mg 279.078	5916.04	ppb	17.5868	0.3	18560.9
Mn 257.610	104.495	ppb	0.2361	0.2	28590.9
Mo 202.032	2.9416	ppb	0.1561	5.3	33.3602
Na 330.237	35273.9	ppb	96.0165	0.3	2273.33
Ni 231.604	5.8384	ppb	0.4601	7.9	20.8177
Pb 220.353	0.0470	ppb	0.5365	1142.7	13.6712
Sb 206.834	0.1714	ppb	1.8424	1075.2	0.8141
Se 196.026	1.5126	ppb	1.6594	109.7	2.0559
Sn 189.925	0.8469	ppb	2.4531	289.7	-12.1846
Sr 216.596	732.245	ppb	1.7511	0.2	12519.6
Ti 334.941	0.3733	ppb	0.0548	14.7	63.0000
Tl 190.794	-2.0131	ppb	1.4233	70.7	-16.6452
V 292.401	2.9672	ppb	0.3186	10.7	89.1023
Zn 206.200	1.1785	ppb	0.8375	71.1	8.6907

680-94583-c-9-aSD^5 (Samp) **9/30/2013, 2:50:07 PM** **Rack 1, Tube 44**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	0.4214	-0.0118u	-0.1061u
Al 308.215	5.2984	5.7106	5.2630
As 188.980	10.2506	11.1162	14.2404

Label	Replicates Concentration		
B 249.678	119.791	120.269	118.868
Ba 389.178	11.0124	10.3758	10.5988
Be 313.042	0.0053	0.0089	0.0098
Ca 370.602	23337	23274	23192
Cd 226.502	-0.0831u	0.0105	-0.1020u
Co 228.615	0.7034	-0.4120u	0.1190
Cr 267.716	0.4525	0.6249	0.5852
Cu 324.754	-0.0616u	-0.3000u	-0.0544u
Fe 271.441	873.963	869.227	866.367
K 766.491	767.154	767.204	766.431
Mg 279.078	1195.06	1193.68	1191.77
Mn 257.610	21.2200	21.2177	21.1188
Mo 202.032	0.0187	0.3552	0.7827
Na 330.237	6642.28	6563.78	6504.82
Ni 231.604	1.1788	1.2390	2.7266
Pb 220.353	0.6661	0.7951	-1.5728u
Sb 206.834	-1.5444u	2.1232	4.3250
Se 196.026	-4.3030u	-5.8846u	9.6855
Sn 189.925	-0.4954u	-0.1066u	0.8210
Sr 216.596	149.734	149.296	149.177
Ti 334.941	0.1534	0.1539	0.1610
Tl 190.794	-2.6196u	-2.5723u	0.3325
V 292.401	0.0865	0.5768	0.4449
Zn 206.200	0.0952	0.4722	0.3892

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1012	ppb	0.2813	278.0	-20.0272
Al 308.215	5.4240	ppb	0.2488	4.6	-10.1176
As 188.980	11.8691	ppb	2.0987	17.7	3.5873
B 249.678	119.643	ppb	0.7124	0.6	2494.28
Ba 389.178	10.6623	ppb	0.3230	3.0	263.442
Be 313.042	0.0080	ppb	0.0024	29.6	-248.014
Ca 370.602	23268	ppb	72.91	0.3	73579
Cd 226.502	-0.0582	ppb	0.0602	103.5	16.7736
Co 228.615	0.1368	ppb	0.5579	407.9	-5.1463
Cr 267.716	0.5542	ppb	0.0903	16.3	55.8987
Cu 324.754	-0.1387	ppb	0.1397	100.8	116.484
Fe 271.441	869.852	ppb	3.8364	0.4	1751.99
K 766.491	766.930	ppb	0.4325	0.1	33226.5
Mg 279.078	1193.50	ppb	1.6532	0.1	3770.86
Mn 257.610	21.1855	ppb	0.0578	0.3	5826.10
Mo 202.032	0.3855	ppb	0.3829	99.3	11.1744
Na 330.237	6570.29	ppb	68.9607	1.0	459.802
Ni 231.604	1.7148	ppb	0.8768	51.1	3.9065
Pb 220.353	-0.0372	ppb	1.3315	3579.1	13.1601
Sb 206.834	1.6346	ppb	2.9651	181.4	3.1417
Se 196.026	-0.1673	ppb	8.5694	5120.7	1.1756
Sn 189.925	0.0730	ppb	0.6764	926.4	-13.1437
Sr 216.596	149.402	ppb	0.2931	0.2	2562.28
Ti 334.941	0.1561	ppb	0.0042	2.7	-22.0236
Tl 190.794	-1.6198	ppb	1.6909	104.4	-15.6617
V 292.401	0.3694	ppb	0.2537	68.7	7.6834
Zn 206.200	0.3188	ppb	0.1981	62.1	7.0777

680-94583-c-9-a PDS (Samp) **9/30/2013, 2:54:43 PM** **Rack 1, Tube 45**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	47.2682	47.4324	47.6406
Al 308.215	1980.63	1975.97	1979.00
As 188.980	253.370	250.325	253.821
B 249.678	1052.94	1053.33	1055.26
Ba 389.178	254.107	254.976	254.455
Be 313.042	47.8970	47.8463	47.8364
Ca 370.602	117716	117823	118484
Cd 226.502	47.2734	47.0366	46.9878
Co 228.615	191.399	190.063	189.472
Cr 267.716	193.478	193.099	193.092
Cu 324.754	202.317	202.789	202.641
Fe 271.441	6157.77	6152.14	6140.44
K 766.491	6352.23	6373.82	6368.97
Mg 279.078	7889.67	7862.34	7866.54
Mn 257.610	300.364	300.167	300.476
Mo 202.032	197.440	197.111	197.322
Na 330.237	37316.9	37745.8	37275.6
Ni 231.604	194.192	192.793	192.735
Pb 220.353	191.838	189.083	187.993
Sb 206.834	189.909	189.553	188.047
Se 196.026	200.404	211.652	203.362
Sn 189.925	195.282	192.190	191.956
Sr 216.596	931.189	930.108	930.777
Ti 334.941	192.247	192.257	192.766
Tl 190.794	185.298	184.373	184.737
V 292.401	190.552	191.221	192.871
Zn 206.200	187.942	186.429	187.675

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	47.4471	ppb	0.1866	0.4	4331.81
Al 308.215	1978.53	ppb	2.3635	0.1	11832.7
As 188.980	252.506	ppb	1.9019	0.8	236.839
B 249.678	1053.84	ppb	1.2443	0.1	21173.2
Ba 389.178	254.513	ppb	0.4375	0.2	6639.27
Be 313.042	47.8599	ppb	0.0325	0.1	104789
Ca 370.602	118007	ppb	416.3	0.4	373165
Cd 226.502	47.0993	ppb	0.1528	0.3	2864.36
Co 228.615	190.312	ppb	0.9873	0.5	2837.03
Cr 267.716	193.223	ppb	0.2206	0.1	12363.3
Cu 324.754	202.582	ppb	0.2414	0.1	14192.6
Fe 271.441	6150.12	ppb	8.8374	0.1	12323.5
K 766.491	6365.01	ppb	11.3293	0.2	273996
Mg 279.078	7872.85	ppb	14.7147	0.2	24684.7
Mn 257.610	300.336	ppb	0.1561	0.1	81994.6
Mo 202.032	197.291	ppb	0.1668	0.1	1735.79
Na 330.237	37446.1	ppb	260.380	0.7	2405.77
Ni 231.604	193.240	ppb	0.8252	0.4	783.818
Pb 220.353	189.638	ppb	1.9819	1.0	422.044
Sb 206.834	189.170	ppb	0.9885	0.5	315.386
Se 196.026	205.139	ppb	5.8309	2.8	104.855
Sn 189.925	193.143	ppb	1.8565	1.0	208.929
Sr 216.596	930.691	ppb	0.5453	0.1	15896.7

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ti 334.941	192.423	ppb	0.2971	0.2	57022.8
Tl 190.794	184.803	ppb	0.4660	0.3	266.478
V 292.401	191.548	ppb	1.1936	0.6	6014.15
Zn 206.200	187.349	ppb	0.8075	0.4	350.137

680-94583-c-9-b ms (Samp) **9/30/2013, 2:59:19 PM** **Rack 1, Tube 46**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	60.1455	60.4609	60.4861
Al 308.215	5367.67	5386.31	5389.96
As 188.980	172.573	171.893	165.124
B 249.678	799.556	801.402	803.066
Ba 389.178	165.700	165.635	165.411
Be 313.042	51.7067	51.4944	51.5139
Ca 370.602	122529	123956	123583
Cd 226.502	50.5145	50.5987	50.5889
Co 228.615	51.9553	52.0359	51.6101
Cr 267.716	107.878	107.431	107.333
Cu 324.754	109.655	109.620	110.100
Fe 271.441	9366.39	9356.43	9366.26
K 766.491	10183.4	10222.4	10226.0
Mg 279.078	11106.1	11064.7	11089.3
Mn 257.610	639.964	640.994	641.799
Mo 202.032	107.663	106.970	106.899
Na 330.237	41251.5	41195.0	41289.8
Ni 231.604	107.879	105.849	107.347
Pb 220.353	52.5321	52.3125	53.8907
Sb 206.834	55.3554	50.3626	55.9158
Se 196.026	108.753	109.661	109.372
Sn 189.925	204.446	201.947	207.875
Sr 216.596	848.158	845.680	847.717
Ti 334.941	103.180	103.420	103.516
Tl 190.794	42.2414	39.4713	39.8726
V 292.401	106.535	106.449	106.305
Zn 206.200	102.437	103.232	103.763

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	60.3642	ppb	0.1898	0.3	5535.98
Al 308.215	5381.31	ppb	11.9565	0.2	32323.0
As 188.980	169.863	ppb	4.1184	2.4	156.724
B 249.678	801.341	ppb	1.7557	0.2	16111.7
Ba 389.178	165.582	ppb	0.1514	0.1	4338.72
Be 313.042	51.5717	ppb	0.1173	0.2	112958
Ca 370.602	123356	ppb	739.7	0.6	389803
Cd 226.502	50.5674	ppb	0.0460	0.1	3086.76
Co 228.615	51.8671	ppb	0.2262	0.4	767.953
Cr 267.716	107.547	ppb	0.2902	0.3	6895.03
Cu 324.754	109.792	ppb	0.2675	0.2	7751.89
Fe 271.441	9363.03	ppb	5.7147	0.1	18715.4
K 766.491	10210.6	ppb	23.5846	0.2	439392
Mg 279.078	11086.7	ppb	20.8572	0.2	34742.0
Mn 257.610	640.919	ppb	0.9196	0.1	174866
Mo 202.032	107.177	ppb	0.4221	0.4	946.180

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Na 330.237	41245.4	ppb	47.6917	0.1	2646.72
Ni 231.604	107.025	ppb	1.0523	1.0	433.095
Pb 220.353	52.9117	ppb	0.8549	1.6	127.864
Sb 206.834	53.8780	ppb	3.0572	5.7	90.6510
Se 196.026	109.262	ppb	0.4642	0.4	56.5743
Sn 189.925	204.756	ppb	2.9763	1.5	222.286
Sr 216.596	847.185	ppb	1.3221	0.2	14482.3
Ti 334.941	103.372	ppb	0.1731	0.2	30631.2
Tl 190.794	40.5284	ppb	1.4970	3.7	47.0787
V 292.401	106.430	ppb	0.1164	0.1	3340.24
Zn 206.200	103.144	ppb	0.6675	0.6	195.750

680-94583-c-9-c msd (Samp) **9/30/2013, 3:03:55 PM** **Rack 1, Tube 47**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	57.8577	57.7358	58.0974
Al 308.215	5197.78	5192.67	5179.71
As 188.980	160.905	164.366	160.809
B 249.678	760.938	762.719	763.632
Ba 389.178	159.152	159.927	159.873
Be 313.042	50.1847	50.2586	50.2361
Ca 370.602	116693	117347	118940
Cd 226.502	49.4009	49.5013	49.2963
Co 228.615	50.3053	50.7536	49.9681
Cr 267.716	103.942	104.064	104.315
Cu 324.754	105.947	106.291	107.220
Fe 271.441	8987.24	8997.02	8999.84
K 766.491	9792.43	9824.91	9828.41
Mg 279.078	10635.0	10645.7	10658.5
Mn 257.610	618.756	619.056	619.105
Mo 202.032	104.508	104.006	103.709
Na 330.237	39106.0	39144.9	39290.5
Ni 231.604	103.227	105.237	103.064
Pb 220.353	50.4184	51.6483	49.9792
Sb 206.834	51.5192	52.4087	50.5157
Se 196.026	102.063	98.8720	103.830
Sn 189.925	196.723	199.440	200.020
Sr 216.596	806.045	806.756	809.749
Ti 334.941	100.263	100.429	100.131
Tl 190.794	40.9248	36.9480	39.6872
V 292.401	103.094	103.973	103.686
Zn 206.200	99.5164	98.4050	98.1427

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	57.8970	ppb	0.1839	0.3	5308.94
Al 308.215	5190.05	ppb	9.3185	0.2	31172.6
As 188.980	162.026	ppb	2.0263	1.3	149.129
B 249.678	762.430	ppb	1.3702	0.2	15334.1
Ba 389.178	159.650	ppb	0.4327	0.3	4182.44
Be 313.042	50.2265	ppb	0.0379	0.1	110004
Ca 370.602	117660	ppb	1155	1.0	371800
Cd 226.502	49.3995	ppb	0.1025	0.2	3015.14
Co 228.615	50.3424	ppb	0.3941	0.8	745.159

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Cr 267.716	104.107	ppb	0.1901	0.2	6675.05
Cu 324.754	106.486	ppb	0.6583	0.6	7522.25
Fe 271.441	8994.70	ppb	6.6119	0.1	17979.8
K 766.491	9815.25	ppb	19.8389	0.2	422388
Mg 279.078	10646.4	ppb	11.7551	0.1	33363.4
Mn 257.610	618.972	ppb	0.1892	0.0	168879
Mo 202.032	104.074	ppb	0.4043	0.4	919.019
Na 330.237	39180.5	ppb	97.2320	0.2	2516.39
Ni 231.604	103.843	ppb	1.2107	1.2	420.121
Pb 220.353	50.6819	ppb	0.8652	1.7	123.028
Sb 206.834	51.4812	ppb	0.9471	1.8	86.6311
Se 196.026	101.588	ppb	2.5130	2.5	52.6960
Sn 189.925	198.728	ppb	1.7602	0.9	215.351
Sr 216.596	807.517	ppb	1.9660	0.2	13804.8
Ti 334.941	100.274	ppb	0.1490	0.1	29710.7
Tl 190.794	39.1866	ppb	2.0351	5.2	45.0921
V 292.401	103.584	ppb	0.4483	0.4	3250.88
Zn 206.200	98.6880	ppb	0.7293	0.7	187.569

680-94583-c-10-a (Samp) **9/30/2013, 3:08:31 PM** **Rack 1, Tube 48**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	0.1741u	0.2352u	-0.0013u
Al 308.215	27.2874	28.6248	26.8127
As 188.980	28.9262	30.5273	33.6279
B 249.678	408.526	407.408	409.236
Ba 389.178	30.9655	30.6248	30.2730
Be 313.042	0.0436	0.0324	0.0332
Ca 370.602	76014	75889	75815
Cd 226.502	-0.0914	0.0123	0.0354
Co 228.615	0.3094	0.1806	0.0546
Cr 267.716	2.3829	2.4682	2.4482
Cu 324.754	-0.1051u	0.0322	-0.2936u
Fe 271.441	3812.23	3823.07	3821.00
K 766.491	2743.55	2750.39	2759.79
Mg 279.078	3562.92	3551.20	3566.35
Mn 257.610	73.8190	73.9277	73.9704
Mo 202.032	1.8842	2.3545	1.1498
Na 330.237	15316.1	14981.0	15113.6
Ni 231.604	4.2070	3.4082	4.2493
Pb 220.353	0.6038	-0.3835u	1.3690
Sb 206.834	1.0978	-2.4477u	-1.2664u
Se 196.026	2.8522	5.0354	-1.5893u
Sn 189.925	-0.7160u	1.0231	-0.9400u
Sr 216.596	411.477	413.222	410.978
Ti 334.941	0.3505	0.2808	0.2858
Tl 190.794	-3.6419u	0.9440	-0.9456u
V 292.401	4.3025	3.7771	3.6079
Zn 206.200	2.4659	1.0809	1.3841

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1360	ppb	0.1228	90.3	-31.0366
Al 308.215	27.5750	ppb	0.9397	3.4	122.646

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	31.0271	ppb	2.3904	7.7	22.1228
B 249.678	408.390	ppb	0.9214	0.2	8264.00
Ba 389.178	30.6211	ppb	0.3463	1.1	794.549
Be 313.042	0.0364	ppb	0.0063	17.2	-166.702
Ca 370.602	75906	ppb	100.9	0.1	239971
Cd 226.502	-0.0146	ppb	0.0675	463.4	32.8886
Co 228.615	0.1815	ppb	0.1274	70.2	-4.3822
Cr 267.716	2.4331	ppb	0.0446	1.8	177.300
Cu 324.754	-0.1222	ppb	0.1636	133.9	118.840
Fe 271.441	3818.77	ppb	5.7521	0.2	7638.73
K 766.491	2751.25	ppb	8.1510	0.3	118571
Mg 279.078	3560.16	ppb	7.9446	0.2	11182.8
Mn 257.610	73.9057	ppb	0.0780	0.1	20228.7
Mo 202.032	1.7962	ppb	0.6072	33.8	23.3493
Na 330.237	15136.9	ppb	168.750	1.1	1000.31
Ni 231.604	3.9548	ppb	0.4739	12.0	13.1277
Pb 220.353	0.5298	ppb	0.8786	165.8	14.6627
Sb 206.834	-0.8721	ppb	1.8053	207.0	-0.9264
Se 196.026	2.0994	ppb	3.3759	160.8	2.3428
Sn 189.925	-0.2110	ppb	1.0746	509.4	-13.4357
Sr 216.596	411.893	ppb	1.1783	0.3	7050.20
Ti 334.941	0.3057	ppb	0.0389	12.7	33.3411
Tl 190.794	-1.2145	ppb	2.3047	189.8	-15.3685
V 292.401	3.8959	ppb	0.3622	9.3	118.908
Zn 206.200	1.6436	ppb	0.7280	44.3	9.5421

Cont Calib Verif (CCV) **9/30/2013, 3:13:06 PM** **Rack 1, Tube 49**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	490.018	489.005	490.603
Al 308.215	4958.86	4957.37	4980.66
As 188.980	484.784	486.741	486.929
B 249.678	492.127	491.330	494.244
Ba 389.178	5030.07	5029.59	5044.55
Be 313.042	493.720	493.128	493.702
Ca 370.602	5134	5129	5154
Cd 226.502	498.830	497.912	499.157
Co 228.615	498.161	497.687	500.549
Cr 267.716	5062.50	5052.30	5064.92
Cu 324.754	5134.63	5137.50	5186.65
Fe 271.441	4822.37	4821.46	4847.33
K 766.491	10246.0	10239.3	10287.3
Mg 279.078	4928.78	4944.40	4931.81
Mn 257.610	5117.66	5127.22	5140.30
Mo 202.032	510.815	509.916	508.741
Na 330.237	7202.11	7066.14	7193.97
Ni 231.604	2510.29	2505.76	2508.95
Pb 220.353	503.569	504.637	505.654
Sb 206.834	1014.39	1006.87	1021.38
Se 196.026	5167.10	5162.94	5198.86
Sn 189.925	5075.82	5067.45	5040.16
Sr 216.596	2558.64	2553.12	2559.79
Ti 334.941	493.898	494.710	496.443

Label	Replicates Concentration		
Tl 190.794	5051.24	5096.80	5079.66
V 292.401	4978.63	4962.48	4995.68
Zn 206.200	2497.84	2488.09	2495.99

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	489.875	ppb	0.8083	0.2	45348.5	97.97507
Al 308.215	4965.63	ppb	13.0373	0.3	29008.8	99.31260
As 188.980	486.151	ppb	1.1881	0.2	463.380	97.23026
B 249.678	492.567	ppb	1.5060	0.3	9945.40	98.51336
Ba 389.178	5034.74	ppb	8.5040	0.2	131046	100.69479
Be 313.042	493.517	ppb	0.3368	0.1	1082826	98.70335
Ca 370.602	5139	ppb	12.94	0.3	16327	102.78474
Cd 226.502	498.633	ppb	0.6455	0.1	29893.3	99.72662
Co 228.615	498.799	ppb	1.5340	0.3	7461.99	99.75977
Cr 267.716	5059.91	ppb	6.6982	0.1	323163	101.19814
Cu 324.754	5152.93	ppb	29.2396	0.6	357700	103.05856
Fe 271.441	4830.38	ppb	14.6792	0.3	9787.69	96.60770
K 766.491	10257.5	ppb	26.0024	0.3	441411	102.57536
Mg 279.078	4935.00	ppb	8.2870	0.2	15368.1	98.69993
Mn 257.610	5128.39	ppb	11.3645	0.2	1397905	102.56786
Mo 202.032	509.824	ppb	1.0402	0.2	4463.51	101.96474
Na 330.237	7154.07	ppb	76.2646	1.1	448.205	95.38763
Ni 231.604	2508.34	ppb	2.3264	0.1	10215.5	100.33342
Pb 220.353	504.620	ppb	1.0428	0.2	1101.39	100.92401
Sb 206.834	1014.21	ppb	7.2568	0.7	1763.15	101.42110
Se 196.026	5176.30	ppb	19.6468	0.4	2614.34	103.52599
Sn 189.925	5061.14	ppb	18.6436	0.4	5806.35	101.22285
Sr 216.596	2557.18	ppb	3.5628	0.1	43541.1	102.28732
Ti 334.941	495.017	ppb	1.3002	0.3	146742	99.00335
Tl 190.794	5075.90	ppb	23.0114	0.5	7666.49	101.51797
V 292.401	4978.93	ppb	16.5977	0.3	157238	99.57858
Zn 206.200	2493.97	ppb	5.1765	0.2	4568.96	99.75893

Cont Calib Blank (CCB) **9/30/2013, 3:17:40 PM** **Rack 1, Tube 50**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.1546u	0.4646	-0.0780u
Al 308.215	-0.8287u	-2.6383u	-0.8487u
As 188.980	3.4422	1.6669	-3.0874u
B 249.678	3.4101	2.9141	2.4378
Ba 389.178	0.6186	0.7081	0.8725
Be 313.042	0.0031	0.0063	0.0088
Ca 370.602	-0.7970u	-1.135u	4.808
Cd 226.502	-0.0007u	-0.0402u	-0.1372u
Co 228.615	0.4465	-0.4387u	-0.0651u
Cr 267.716	0.2682	0.1307	-0.0028u
Cu 324.754	0.0017	-0.0405u	-0.1596u
Fe 271.441	2.8667	-1.6564u	-1.5531u
K 766.491	8.2634	7.7576	7.8140
Mg 279.078	-1.5218u	-0.7170u	-0.3123u
Mn 257.610	-0.0051u	0.0054	0.0281
Mo 202.032	0.2213	0.1715	0.0805
Na 330.237	-19.0817u	-64.4210u	5.6253

Label	Replicates Concentration		
Ni 231.604	0.3682	0.3524	0.2064
Pb 220.353	1.4165	-0.2296u	1.3202
Sb 206.834	0.1613	1.6074	2.8668
Se 196.026	2.9983	-0.9187u	6.2725
Sn 189.925	-0.5014u	1.0602	3.8814
Sr 216.596	0.0264	0.1915	-0.5504u
Ti 334.941	0.1536	0.1149	0.1270
Tl 190.794	1.8270	-0.6050u	-1.5096u
V 292.401	-0.4258u	0.0718	0.3466
Zn 206.200	-2.2228u	0.1658	-1.1764u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.0773	ppb	0.3376	436.5	-14.0944	0.07732
Al 308.215	-1.4386	ppb	1.0390	72.2	-51.3498	-1.43859
As 188.980	0.6739	ppb	3.3762	501.0	-7.2572	0.67391
B 249.678	2.9207	ppb	0.4862	16.6	161.054	2.92066
Ba 389.178	0.7331	ppb	0.1288	17.6	0.1258	0.73307
Be 313.042	0.0060	ppb	0.0028	47.0	-260.407	0.00604
Ca 370.602	0.9585	ppb	3.338	348.2	-1.363	0.95853
Cd 226.502	-0.0593	ppb	0.0703	118.4	12.7560	-0.05934
Co 228.615	-0.0191	ppb	0.4444	2327.1	-7.5125	-0.01910
Cr 267.716	0.1321	ppb	0.1355	102.6	28.3814	0.13207
Cu 324.754	-0.0661	ppb	0.0836	126.5	121.161	-0.06614
Fe 271.441	-0.1143	ppb	2.5821	2259.7	15.3112	-0.11427
K 766.491	7.9450	ppb	0.2772	3.5	583.112	7.94498
Mg 279.078	-0.8504	ppb	0.6157	72.4	30.3887	-0.85037
Mn 257.610	0.0095	ppb	0.0170	179.3	39.6626	0.00947
Mo 202.032	0.1578	ppb	0.0714	45.3	9.2322	0.15779
Na 330.237	-25.9591	ppb	35.5260	136.9	43.0638	-25.95906
Ni 231.604	0.3090	ppb	0.0892	28.9	-1.8487	0.30898
Pb 220.353	0.8357	ppb	0.9238	110.5	14.9573	0.83568
Sb 206.834	1.5452	ppb	1.3538	87.6	2.9573	1.54517
Se 196.026	2.7840	ppb	3.6004	129.3	2.6564	2.78402
Sn 189.925	1.4800	ppb	2.2213	150.1	-11.5425	1.48005
Sr 216.596	-0.1108	ppb	0.3895	351.6	8.1995	-0.11080
Ti 334.941	0.1318	ppb	0.0198	15.0	-34.4761	0.13184
Tl 190.794	-0.0959	ppb	1.7256	1799.9	-13.2586	-0.09587
V 292.401	-0.0025	ppb	0.3915	15783.7	-3.9875	-0.00248
Zn 206.200	-1.0778	ppb	1.1973	111.1	4.5008	-1.07780

680-94583-c-4-a (Samp) **9/30/2013, 3:22:14 PM** **Rack 1, Tube 51**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.0519u	0.2185u	0.1553u
Al 308.215	39.7880	42.7113	41.0903
As 188.980	60.6057	62.9751	61.6412
B 249.678	504.442	506.116	506.617
Ba 389.178	55.6180	56.4423	55.7162
Be 313.042	0.0762	0.0746	0.0697
Ca 370.602	100979	100638	100309
Cd 226.502	-0.0461	-0.2229	0.0850
Co 228.615	0.6240	0.5057	0.7627
Cr 267.716	3.2705	3.1721	3.2537

Label	Replicates Concentration		
Cu 324.754	-0.2099u	-0.1189u	-0.5129u
Fe 271.441	7724.96	7731.69	7734.34
K 766.491	3703.45	3723.22	3711.56
Mg 279.078	4769.60	4767.77	4777.20
Mn 257.610	110.080	109.993	109.691
Mo 202.032	2.9795	2.4392	2.2639
Na 330.237	29162.2	29443.1	29171.0
Ni 231.604	3.6231	2.9131	3.1762
Pb 220.353	2.3454	0.8284	-0.8745u
Sb 206.834	1.9696	1.8626	1.7309
Se 196.026	1.3325	-0.7317u	1.5523
Sn 189.925	-0.3558u	-0.2204u	2.1744
Sr 216.596	574.340	573.108	573.573
Ti 334.941	0.4930	0.4564	0.5124
Tl 190.794	-2.6247u	-2.6034u	-0.8295u
V 292.401	3.7779	3.6926	3.7106
Zn 206.200	1.8693	1.0617	1.6945

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1419	ppb	0.0841	59.3	-39.4075
Al 308.215	41.1965	ppb	1.4645	3.6	204.652
As 188.980	61.7407	ppb	1.1878	1.9	51.8511
B 249.678	505.725	ppb	1.1388	0.2	10200.9
Ba 389.178	55.9255	ppb	0.4502	0.8	1462.86
Be 313.042	0.0735	ppb	0.0034	4.6	-77.6022
Ca 370.602	100642	ppb	334.7	0.3	317963
Cd 226.502	-0.0613	ppb	0.1545	251.9	47.9312
Co 228.615	0.6308	ppb	0.1286	20.4	2.4888
Cr 267.716	3.2321	ppb	0.0527	1.6	230.120
Cu 324.754	-0.2806	ppb	0.2063	73.5	109.477
Fe 271.441	7730.33	ppb	4.8367	0.1	15447.2
K 766.491	3712.74	ppb	9.9371	0.3	159924
Mg 279.078	4771.52	ppb	5.0003	0.1	14977.0
Mn 257.610	109.921	ppb	0.2042	0.2	30069.8
Mo 202.032	2.5609	ppb	0.3730	14.6	29.8144
Na 330.237	29258.8	ppb	159.707	0.5	1891.75
Ni 231.604	3.2374	ppb	0.3589	11.1	10.3285
Pb 220.353	0.7664	ppb	1.6109	210.2	15.5374
Sb 206.834	1.8544	ppb	0.1195	6.4	3.7634
Se 196.026	0.7177	ppb	1.2600	175.6	1.6682
Sn 189.925	0.5327	ppb	1.4233	267.2	-12.5590
Sr 216.596	573.674	ppb	0.6222	0.1	9818.05
Ti 334.941	0.4873	ppb	0.0284	5.8	92.2266
Tl 190.794	-2.0192	ppb	1.0304	51.0	-16.9875
V 292.401	3.7270	ppb	0.0450	1.2	113.251
Zn 206.200	1.5418	ppb	0.4249	27.6	9.4007

680-94583-c-5-a (Samp) **9/30/2013, 3:26:48 PM** **Rack 1, Tube 52**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.2126u	0.0793u	0.2669u
Al 308.215	18.7343	19.9115	20.2744
As 188.980	41.1902	40.3714	42.4925

Label	Replicates Concentration		
B 249.678	483.726	483.310	483.411
Ba 389.178	33.8565	34.0183	33.7188
Be 313.042	0.0145	0.0162	0.0188
Ca 370.602	91147	90798	90787
Cd 226.502	0.1353	-0.1341	-0.0803
Co 228.615	0.3568	0.2075	0.1316
Cr 267.716	2.0269	1.9799	1.8942
Cu 324.754	-0.2410u	-0.6918u	-0.0347u
Fe 271.441	2302.23	2292.72	2295.58
K 766.491	3764.83	3774.75	3783.33
Mg 279.078	3895.60	3905.36	3901.66
Mn 257.610	63.8439	63.6366	63.5889
Mo 202.032	2.6075	3.1808	2.6012
Na 330.237	21628.3	21521.9	21310.0
Ni 231.604	1.7087	0.5658	1.5812
Pb 220.353	0.4698	1.4587	0.5837
Sb 206.834	0.4812	0.9414	-0.9428u
Se 196.026	3.8343	-2.4579u	-0.0596u
Sn 189.925	1.5528	-0.1462u	1.2532
Sr 216.596	522.284	522.016	521.151
Ti 334.941	0.3636	0.3596	0.3373
Tl 190.794	-0.5788u	-1.0451u	-3.7910u
V 292.401	2.5354	2.5293	3.2224
Zn 206.200	2.6760	3.9176	2.2778

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1863	ppb	0.0965	51.8	-32.4830
Al 308.215	19.6400	ppb	0.8051	4.1	75.1390
As 188.980	41.3514	ppb	1.0697	2.6	32.1587
B 249.678	483.482	ppb	0.2169	0.0	9770.84
Ba 389.178	33.8646	ppb	0.1499	0.4	877.551
Be 313.042	0.0165	ppb	0.0021	12.9	-205.368
Ca 370.602	90911	ppb	204.5	0.2	287588
Cd 226.502	-0.0264	ppb	0.1425	540.7	25.1314
Co 228.615	0.2320	ppb	0.1145	49.4	-3.7325
Cr 267.716	1.9670	ppb	0.0673	3.4	147.168
Cu 324.754	-0.3225	ppb	0.3360	104.2	104.365
Fe 271.441	2296.84	ppb	4.8765	0.2	4600.63
K 766.491	3774.31	ppb	9.2606	0.2	162572
Mg 279.078	3900.87	ppb	4.9266	0.1	12249.8
Mn 257.610	63.6898	ppb	0.1356	0.2	17442.8
Mo 202.032	2.7965	ppb	0.3328	11.9	32.2089
Na 330.237	21486.7	ppb	162.048	0.8	1402.32
Ni 231.604	1.2852	ppb	0.6263	48.7	2.2016
Pb 220.353	0.8374	ppb	0.5410	64.6	15.1826
Sb 206.834	0.1599	ppb	0.9823	614.2	0.7087
Se 196.026	0.4389	ppb	3.1756	723.5	1.4971
Sn 189.925	0.8866	ppb	0.9069	102.3	-12.1618
Sr 216.596	521.817	ppb	0.5917	0.1	8924.74
Ti 334.941	0.3535	ppb	0.0142	4.0	48.4099
Tl 190.794	-1.8050	ppb	1.7357	96.2	-16.1085
V 292.401	2.7624	ppb	0.3984	14.4	82.7968
Zn 206.200	2.9571	ppb	0.8553	28.9	11.9399

680-94583-c-6-a (Samp) **9/30/2013, 3:31:22 PM** **Rack 1, Tube 53**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	0.1839u	0.1272u	0.3772
Al 308.215	32.2790	32.2625	30.3743
As 188.980	65.7025	67.4276	63.1996
B 249.678	443.759	444.165	446.003
Ba 389.178	31.6635	30.0739	31.3656
Be 313.042	0.0301	0.0324	0.0320
Ca 370.602	73958	74061	74087
Cd 226.502	-0.0541	-0.0702	-0.0389
Co 228.615	0.5628	0.4360	0.0735
Cr 267.716	2.5613	2.7225	2.5562
Cu 324.754	-0.4473u	-0.1779u	-0.4594u
Fe 271.441	3379.58	3378.67	3381.87
K 766.491	8561.16	8577.53	8594.87
Mg 279.078	3652.36	3638.92	3650.85
Mn 257.610	62.5523	62.5702	62.5181
Mo 202.032	3.8766	3.8343	4.5212
Na 330.237	20353.8	20094.0	20403.0
Ni 231.604	2.6655	4.2063	3.0084
Pb 220.353	3.7458	-1.8435u	1.6034
Sb 206.834	-1.3763u	-2.6651u	3.1032
Se 196.026	4.2800	8.1188	-2.1087u
Sn 189.925	2.1129	1.6541	-0.1819u
Sr 216.596	458.886	457.659	458.335
Ti 334.941	0.3464	0.3582	0.3120
Tl 190.794	-2.0562u	-3.4016u	-0.4594u
V 292.401	2.6516	2.6250	2.6701
Zn 206.200	0.6254	-0.2244u	0.4731

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.2294	ppb	0.1311	57.1	-24.8950
Al 308.215	31.6386	ppb	1.0949	3.5	147.418
As 188.980	65.4432	ppb	2.1259	3.2	55.5077
B 249.678	444.642	ppb	1.1961	0.3	8990.66
Ba 389.178	31.0343	ppb	0.8450	2.7	804.871
Be 313.042	0.0315	ppb	0.0013	4.0	-179.753
Ca 370.602	74035	ppb	68.05	0.1	234084
Cd 226.502	-0.0544	ppb	0.0157	28.8	28.4346
Co 228.615	0.3574	ppb	0.2539	71.0	-1.8484
Cr 267.716	2.6134	ppb	0.0946	3.6	188.757
Cu 324.754	-0.3616	ppb	0.1592	44.0	102.149
Fe 271.441	3380.04	ppb	1.6464	0.0	6762.96
K 766.491	8577.85	ppb	16.8553	0.2	369169
Mg 279.078	3647.38	ppb	7.3605	0.2	11456.1
Mn 257.610	62.5469	ppb	0.0265	0.0	17132.1
Mo 202.032	4.0774	ppb	0.3849	9.4	43.3675
Na 330.237	20283.6	ppb	166.053	0.8	1325.90
Ni 231.604	3.2934	ppb	0.8090	24.6	10.4181
Pb 220.353	1.1686	ppb	2.8199	241.3	15.9924
Sb 206.834	-0.3127	ppb	3.0277	968.1	-0.0558
Se 196.026	3.4300	ppb	5.1665	150.6	3.0098
Sn 189.925	1.1950	ppb	1.2143	101.6	-11.8176
Sr 216.596	458.293	ppb	0.6147	0.1	7840.34

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ti 334.941	0.3389	ppb	0.0240	7.1	43.0875
Tl 190.794	-1.9724	ppb	1.4729	74.7	-16.4661
V 292.401	2.6489	ppb	0.0226	0.9	78.9233
Zn 206.200	0.2914	ppb	0.4531	155.5	7.0495

680-94583-c-7-a (Samp) **9/30/2013, 3:35:57 PM** **Rack 1, Tube 54**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.2099u	0.2608u	0.2999u
Al 308.215	66.4387	68.7665	71.6371
As 188.980	54.9116	54.3520	55.6064
B 249.678	567.894	570.264	570.778
Ba 389.178	60.5650	61.0024	59.7373
Be 313.042	0.0817	0.0836	0.0830
Ca 370.602	106949	106960	107255
Cd 226.502	0.0249	-0.0615	-0.1213
Co 228.615	0.3554	0.2792	0.3647
Cr 267.716	3.1691	3.1710	3.3491
Cu 324.754	-0.3557u	-0.3868u	-0.2707u
Fe 271.441	6656.59	6667.33	6681.39
K 766.491	4393.57	4389.43	4400.45
Mg 279.078	5788.69	5793.58	5798.75
Mn 257.610	129.309	129.663	129.865
Mo 202.032	4.6345	4.8302	4.6142
Na 330.237	33420.5	33643.6	33539.2
Ni 231.604	4.5638	4.7110	4.2862
Pb 220.353	1.7904	-0.6920u	-2.2379u
Sb 206.834	0.4698	-0.0248	5.5472
Se 196.026	-1.0143u	5.5525	-6.5221u
Sn 189.925	-1.0363u	0.5689	-1.4297u
Sr 216.596	674.873	673.807	674.552
Ti 334.941	0.6941	0.6928	0.7195
Tl 190.794	-3.7063u	-2.9893u	-2.4215u
V 292.401	5.2397	5.2232	4.9881
Zn 206.200	2.0879	2.8929	1.5133

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.2569	ppb	0.0451	17.6	-34.0625
Al 308.215	68.9474	ppb	2.6039	3.8	371.524
As 188.980	54.9567	ppb	0.6284	1.1	45.2872
B 249.678	569.645	ppb	1.5379	0.3	11482.9
Ba 389.178	60.4349	ppb	0.6425	1.1	1581.58
Be 313.042	0.0828	ppb	0.0010	1.2	-55.9530
Ca 370.602	107054	ppb	173.5	0.2	338346
Cd 226.502	-0.0526	ppb	0.0735	139.6	43.5522
Co 228.615	0.3331	ppb	0.0469	14.1	-2.0784
Cr 267.716	3.2297	ppb	0.1034	3.2	229.836
Cu 324.754	-0.3378	ppb	0.0601	17.8	105.136
Fe 271.441	6668.44	ppb	12.4387	0.2	13327.4
K 766.491	4394.49	ppb	5.5636	0.1	189245
Mg 279.078	5793.67	ppb	5.0348	0.1	18177.6
Mn 257.610	129.612	ppb	0.2815	0.2	35443.2
Mo 202.032	4.6930	ppb	0.1193	2.5	48.5579

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Na 330.237	33534.4	ppb	111.609	0.3	2162.46
Ni 231.604	4.5203	ppb	0.2157	4.8	15.5225
Pb 220.353	-0.3798	ppb	2.0322	535.1	12.9705
Sb 206.834	1.9974	ppb	3.0842	154.4	3.9158
Se 196.026	-0.6613	ppb	6.0451	914.1	0.9736
Sn 189.925	-0.6324	ppb	1.0587	167.4	-13.8930
Sr 216.596	674.411	ppb	0.5468	0.1	11535.1
Ti 334.941	0.7021	ppb	0.0151	2.1	160.368
Tl 190.794	-3.0391	ppb	0.6439	21.2	-18.4429
V 292.401	5.1503	ppb	0.1408	2.7	157.870
Zn 206.200	2.1647	ppb	0.6930	32.0	10.5324

680-94583-c-8-a (Samp) **9/30/2013, 3:40:32 PM** **Rack 1, Tube 55**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.2023u	0.2228u	0.1165u
Al 308.215	29.9679	28.8366	25.1115
As 188.980	68.8305	66.6619	69.5184
B 249.678	553.373	553.180	555.394
Ba 389.178	48.6378	48.4432	48.1399
Be 313.042	0.0409	0.0436	0.0295
Ca 370.602	98843	98633	98413
Cd 226.502	-0.1098	-0.2012	-0.1293
Co 228.615	-0.0840u	0.2154	0.3975
Cr 267.716	2.5203	2.5029	2.3383
Cu 324.754	-0.1830u	-0.1366u	-0.2762u
Fe 271.441	4452.98	4449.40	4460.83
K 766.491	4363.12	4367.26	4402.72
Mg 279.078	4645.84	4633.92	4650.24
Mn 257.610	126.711	126.339	126.861
Mo 202.032	2.5147	1.9404	1.8654
Na 330.237	33205.9	33311.4	33118.1
Ni 231.604	3.8546	3.9007	3.2084
Pb 220.353	2.6217	2.4465	2.3123
Sb 206.834	1.7735	6.2354	-0.2426u
Se 196.026	2.6027	4.0362	2.8470
Sn 189.925	-3.0199u	0.6610	-3.0024u
Sr 216.596	589.026	587.367	588.892
Ti 334.941	0.3772	0.3374	0.3371
Tl 190.794	-1.5538u	-1.1364u	-0.4305u
V 292.401	3.8967	3.3746	3.3308
Zn 206.200	1.1652	3.0078	2.9993

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1806	ppb	0.0564	31.2	-36.4798
Al 308.215	27.9720	ppb	2.5410	9.1	125.110
As 188.980	68.3369	ppb	1.4908	2.2	58.2985
B 249.678	553.982	ppb	1.2265	0.2	11175.6
Ba 389.178	48.4069	ppb	0.2509	0.5	1261.62
Be 313.042	0.0380	ppb	0.0075	19.6	-156.705
Ca 370.602	98630	ppb	215.0	0.2	311853
Cd 226.502	-0.1467	ppb	0.0481	32.8	27.7354
Co 228.615	0.1763	ppb	0.2432	138.1	-4.4389

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Cr 267.716	2.4538	ppb	0.1004	4.1	179.584
Cu 324.754	-0.1986	ppb	0.0711	35.8	113.808
Fe 271.441	4454.41	ppb	5.8474	0.1	8907.61
K 766.491	4377.70	ppb	21.7660	0.5	188523
Mg 279.078	4643.33	ppb	8.4397	0.2	14574.3
Mn 257.610	126.637	ppb	0.2690	0.2	34614.0
Mo 202.032	2.1068	ppb	0.3552	16.9	26.0342
Na 330.237	33211.8	ppb	96.8063	0.3	2142.87
Ni 231.604	3.6546	ppb	0.3871	10.6	11.9246
Pb 220.353	2.4602	ppb	0.1551	6.3	18.8963
Sb 206.834	2.5888	ppb	3.3151	128.1	4.8601
Se 196.026	3.1620	ppb	0.7669	24.3	2.8943
Sn 189.925	-1.7871	ppb	2.1201	118.6	-15.2254
Sr 216.596	588.428	ppb	0.9219	0.2	10064.7
Ti 334.941	0.3506	ppb	0.0230	6.6	50.3437
Tl 190.794	-1.0402	ppb	0.5678	54.6	-15.2035
V 292.401	3.5340	ppb	0.3149	8.9	107.230
Zn 206.200	2.3908	ppb	1.0614	44.4	10.9236

X (Samp) **9/30/2013, 3:45:07 PM** **Rack 1, Tube 56**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	0.2550	-0.0795u	0.1938
Al 308.215	1.7514	-0.3210u	-0.4050u
As 188.980	-0.4887u	-2.2164u	-0.3715u
B 249.678	3.2306	2.9690	2.4918
Ba 389.178	1.4935	1.0695	0.1855
Be 313.042	0.0343	0.0340	0.0400
Ca 370.602	15.30	10.67	6.937
Cd 226.502	0.0275	0.0247	0.0711
Co 228.615	0.1765	0.0229	0.6697
Cr 267.716	0.3961	0.2836	0.2738
Cu 324.754	-0.0992u	0.5160	0.0023
Fe 271.441	4.5803	8.6366	6.4551
K 766.491	6.9613	7.2403	7.3282
Mg 279.078	1.9593	4.6837	2.7013
Mn 257.610	0.3943	0.4180	0.4183
Mo 202.032	0.0482	0.2657	0.0734
Na 330.237	-121.859u	-109.549u	-85.1535u
Ni 231.604	0.8313	1.1857	0.7710
Pb 220.353	-0.6452u	-0.1632u	1.9347
Sb 206.834	2.8641	-1.1962u	1.5576
Se 196.026	-3.5721u	4.3056	-2.0229u
Sn 189.925	-2.1428u	1.5005	2.2903
Sr 216.596	0.2406	0.6100	-0.0334u
Ti 334.941	0.1564	0.0735	0.1389
Tl 190.794	-1.2357u	-0.9470u	0.8629
V 292.401	-0.1175u	0.3489	0.3109
Zn 206.200	-1.0923u	-1.5529u	-0.4759u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1231	ppb	0.1781	144.7	-9.8639
Al 308.215	0.3418	ppb	1.2215	357.2	-40.6866

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	-1.0255	ppb	1.0330	100.7	-8.9055
B 249.678	2.8972	ppb	0.3746	12.9	160.567
Ba 389.178	0.9162	ppb	0.6674	72.8	4.9127
Be 313.042	0.0361	ppb	0.0034	9.4	-194.362
Ca 370.602	10.97	ppb	4.191	38.2	29.84
Cd 226.502	0.0411	ppb	0.0260	63.3	18.7983
Co 228.615	0.2897	ppb	0.3379	116.6	-2.8907
Cr 267.716	0.3179	ppb	0.0679	21.4	40.2466
Cu 324.754	0.1397	ppb	0.3298	236.1	135.441
Fe 271.441	6.5573	ppb	2.0301	31.0	28.6782
K 766.491	7.1766	ppb	0.1916	2.7	550.064
Mg 279.078	3.1148	ppb	1.4085	45.2	42.8002
Mn 257.610	0.4102	ppb	0.0138	3.4	148.946
Mo 202.032	0.1291	ppb	0.1190	92.1	8.9802
Na 330.237	-105.520	ppb	18.6815	17.7	38.0405
Ni 231.604	0.9293	ppb	0.2240	24.1	0.6780
Pb 220.353	0.3755	ppb	1.3717	365.3	13.9658
Sb 206.834	1.0751	ppb	2.0727	192.8	2.1792
Se 196.026	-0.4298	ppb	4.1735	971.0	1.0350
Sn 189.925	0.5493	ppb	2.3647	430.5	-12.6127
Sr 216.596	0.2724	ppb	0.3228	118.5	14.7183
Ti 334.941	0.1229	ppb	0.0437	35.6	-37.0957
Tl 190.794	-0.4400	ppb	1.1375	258.5	-13.7784
V 292.401	0.1808	ppb	0.2590	143.3	1.8259
Zn 206.200	-1.0403	ppb	0.5404	51.9	4.5690

CRI (Samp) **9/30/2013, 3:49:42 PM** **Rack 1, Tube 57**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	10.3063	10.4000	10.1281
Al 308.215	246.284	250.539	246.987
As 188.980	25.0538	21.6324	21.6192
B 249.678	100.421	102.230	101.018
Ba 389.178	10.7155	11.7100	11.0636
Be 313.042	4.1507	4.1719	4.1221
Ca 370.602	539.3	544.6	539.1
Cd 226.502	5.2296	5.2110	5.0065
Co 228.615	10.5935	10.7661	10.3020
Cr 267.716	10.5318	10.6628	10.6446
Cu 324.754	20.7026	21.2513	20.7199
Fe 271.441	50.4860	52.1438	49.7636
K 766.491	1031.62	1041.11	1031.21
Mg 279.078	522.679	526.237	524.898
Mn 257.610	10.8545	10.9846	10.9210
Mo 202.032	10.2421	10.3209	10.2248
Na 330.237	870.666	957.281	1071.81
Ni 231.604	42.9656	42.8661	42.5997
Pb 220.353	11.7109	9.2419	11.7754
Sb 206.834	23.1107	20.5522	18.6354
Se 196.026	21.5439	17.4441	23.6845
Sn 189.925	51.1899	48.7562	51.7699
Sr 216.596	10.8394	10.6289	10.4541
Ti 334.941	10.2405	10.4583	10.2901

Label	Replicates Concentration		
Tl 190.794	25.6953	27.2368	29.9309
V 292.401	10.2507	10.3162	10.3298
Zn 206.200	18.8738	19.5662	20.2797

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	10.2782	ppb	0.1381	1.3	931.710
Al 308.215	247.937	ppb	2.2811	0.9	1447.53
As 188.980	22.7685	ppb	1.9792	8.7	14.1702
B 249.678	101.223	ppb	0.9216	0.9	2127.96
Ba 389.178	11.1631	ppb	0.5046	4.5	273.278
Be 313.042	4.1482	ppb	0.0250	0.6	8830.60
Ca 370.602	541.0	ppb	3.142	0.6	1710
Cd 226.502	5.1490	ppb	0.1238	2.4	324.832
Co 228.615	10.5538	ppb	0.2346	2.2	150.475
Cr 267.716	10.6131	ppb	0.0709	0.7	697.747
Cu 324.754	20.8912	ppb	0.3119	1.5	1575.89
Fe 271.441	50.7978	ppb	1.2204	2.4	118.660
K 766.491	1034.65	ppb	5.5978	0.5	44740.8
Mg 279.078	524.605	ppb	1.7970	0.3	1675.78
Mn 257.610	10.9201	ppb	0.0651	0.6	3018.72
Mo 202.032	10.2626	ppb	0.0512	0.5	97.7484
Na 330.237	966.584	ppb	100.892	10.4	105.396
Ni 231.604	42.8105	ppb	0.1892	0.4	171.288
Pb 220.353	10.9094	ppb	1.4445	13.2	36.6488
Sb 206.834	20.7661	ppb	2.2453	10.8	35.0180
Se 196.026	20.8909	ppb	3.1710	15.2	11.7955
Sn 189.925	50.5720	ppb	1.5991	3.2	44.9070
Sr 216.596	10.6408	ppb	0.1929	1.8	190.326
Ti 334.941	10.3296	ppb	0.1142	1.1	2992.02
Tl 190.794	27.6210	ppb	2.1438	7.8	28.7023
V 292.401	10.2989	ppb	0.0423	0.4	319.782
Zn 206.200	19.5733	ppb	0.7030	3.6	42.4222

(Samp) **9/30/2013, 3:54:18 PM** **Rack 1, Tube 58**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	489.870	486.050	487.891
Al 308.215	4909.92	4883.29	4901.44
As 188.980	485.081	479.354	487.745
B 249.678	483.300	485.074	488.267
Ba 389.178	5004.08	4993.14	5004.87
Be 313.042	489.968	492.818	493.286
Ca 370.602	5104	5073	5099
Cd 226.502	494.364	495.233	497.329
Co 228.615	494.621	495.054	498.146
Cr 267.716	5024.64	5046.64	5054.02
Cu 324.754	5111.57	5155.68	5121.77
Fe 271.441	4782.75	4803.32	4829.55
K 766.491	10099.1	10100.8	10143.0
Mg 279.078	4891.96	4903.45	4918.79
Mn 257.610	5087.99	5083.94	5103.84
Mo 202.032	502.172	503.422	507.270
Na 330.237	7026.52	7152.14	6904.01

Label	Replicates	Concentration	
Ni 231.604	2470.19	2482.92	2491.71
Pb 220.353	497.971	498.329	501.882
Sb 206.834	998.072	1002.67	1003.60
Se 196.026	5100.44	5083.18	5091.46
Sn 189.925	4982.71	4983.47	5023.25
Sr 216.596	2535.24	2546.57	2553.46
Ti 334.941	492.107	490.416	490.819
Tl 190.794	5065.68	5075.58	5089.03
V 292.401	4953.54	4962.36	4971.04
Zn 206.200	2463.97	2467.38	2485.03

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	487.937	ppb	1.9102	0.4	45168.5
Al 308.215	4898.22	ppb	13.6039	0.3	28605.9
As 188.980	484.060	ppb	4.2877	0.9	461.353
B 249.678	485.547	ppb	2.5172	0.5	9805.01
Ba 389.178	5000.70	ppb	6.5554	0.1	130160
Be 313.042	492.024	ppb	1.7960	0.4	1079551
Ca 370.602	5092	ppb	16.55	0.3	16178
Cd 226.502	495.642	ppb	1.5243	0.3	29714.0
Co 228.615	495.940	ppb	1.9225	0.4	7419.29
Cr 267.716	5041.77	ppb	15.2870	0.3	322005
Cu 324.754	5129.67	ppb	23.0910	0.5	356085
Fe 271.441	4805.21	ppb	23.4599	0.5	9736.81
K 766.491	10114.3	ppb	24.8690	0.2	435251
Mg 279.078	4904.73	ppb	13.4580	0.3	15273.9
Mn 257.610	5091.92	ppb	10.5163	0.2	1387964
Mo 202.032	504.288	ppb	2.6571	0.5	4415.04
Na 330.237	7027.56	ppb	124.070	1.8	440.569
Ni 231.604	2481.61	ppb	10.8173	0.4	10106.6
Pb 220.353	499.394	ppb	2.1623	0.4	1090.13
Sb 206.834	1001.45	ppb	2.9585	0.3	1741.65
Se 196.026	5091.69	ppb	8.6322	0.2	2571.64
Sn 189.925	4996.47	ppb	23.1872	0.5	5731.99
Sr 216.596	2545.09	ppb	9.1994	0.4	43335.5
Ti 334.941	491.114	ppb	0.8834	0.2	145584
Tl 190.794	5076.76	ppb	11.7187	0.2	7667.79
V 292.401	4962.31	ppb	8.7477	0.2	156714
Zn 206.200	2472.13	ppb	11.3043	0.5	4528.88

(Samp) **9/30/2013, 3:58:54 PM** **Rack 1, Tube 59**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	0.1484	-0.1387u	0.0007
Al 308.215	-0.2284u	-1.0297u	-0.9708u
As 188.980	1.7188	6.3669	2.9298
B 249.678	2.2795	2.5568	1.9013
Ba 389.178	0.9192	0.1233	1.1940
Be 313.042	0.0310	0.0314	0.0379
Ca 370.602	1.999	3.852	4.122
Cd 226.502	0.0337	0.0418	0.0607
Co 228.615	0.5299	0.2808	-0.0032u
Cr 267.716	0.3356	0.4525	0.4209

Label	Replicates Concentration		
Cu 324.754	0.3686	0.3174	0.2136
Fe 271.441	0.3119	0.1516	0.8018
K 766.491	4.9732	5.9743	5.8709
Mg 279.078	0.4264	0.8163	2.5385
Mn 257.610	0.3027	0.3237	0.4768
Mo 202.032	-0.3501u	0.2720	0.5954
Na 330.237	96.4798	174.122	-46.3538u
Ni 231.604	0.9004	-0.0328u	0.7557
Pb 220.353	1.7131	-0.4191u	-0.3571u
Sb 206.834	3.9996	4.2080	4.5675
Se 196.026	-7.5807u	7.4236	9.3588
Sn 189.925	2.3372	2.1456	2.8152
Sr 216.596	0.2331	0.6056	0.1864
Ti 334.941	0.1406	0.1250	0.1897
Tl 190.794	2.6024	-0.0337u	-0.1228u
V 292.401	0.4568	0.3131	0.6176
Zn 206.200	-0.3153u	-0.6015u	-0.2047u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0035	ppb	0.1436	4144.4	-20.9754
Al 308.215	-0.7430	ppb	0.4466	60.1	-47.2572
As 188.980	3.6718	ppb	2.4113	65.7	-4.3497
B 249.678	2.2459	ppb	0.3291	14.7	147.548
Ba 389.178	0.7455	ppb	0.5561	74.6	0.4588
Be 313.042	0.0334	ppb	0.0039	11.6	-200.358
Ca 370.602	3.324	ppb	1.156	34.8	6.042
Cd 226.502	0.0454	ppb	0.0139	30.6	19.0307
Co 228.615	0.2692	ppb	0.2667	99.1	-3.2021
Cr 267.716	0.4030	ppb	0.0605	15.0	45.6846
Cu 324.754	0.2999	ppb	0.0790	26.3	146.556
Fe 271.441	0.4218	ppb	0.3388	80.3	16.4295
K 766.491	5.6061	ppb	0.5506	9.8	482.520
Mg 279.078	1.2604	ppb	1.1239	89.2	36.9919
Mn 257.610	0.3677	ppb	0.0951	25.9	137.335
Mo 202.032	0.1724	ppb	0.4805	278.7	9.3593
Na 330.237	74.7492	ppb	111.833	149.6	49.4309
Ni 231.604	0.5411	ppb	0.5023	92.8	-0.9039
Pb 220.353	0.3123	ppb	1.2135	388.6	13.8291
Sb 206.834	4.2584	ppb	0.2873	6.7	7.4860
Se 196.026	3.0672	ppb	9.2720	302.3	2.7994
Sn 189.925	2.4326	ppb	0.3448	14.2	-10.4470
Sr 216.596	0.3417	ppb	0.2297	67.2	15.9148
Ti 334.941	0.1518	ppb	0.0337	22.2	-28.5726
Tl 190.794	0.8153	ppb	1.5483	189.9	-11.8791
V 292.401	0.4625	ppb	0.1523	32.9	10.7218
Zn 206.200	-0.3738	ppb	0.2048	54.8	5.7940

Cont Calib Verif (CCV) **9/30/2013, 4:10:35 PM** **Rack 2, Tube 1**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	490.728	489.078	475.559
Al 308.215	5117.16	5118.34	5015.61
As 188.980	499.673	497.292	484.082

Label	Replicates Concentration		
B 249.678	492.812	493.411	483.373
Ba 389.178	5092.68	5080.98	4965.25
Be 313.042	492.321	490.349	478.541
Ca 370.602	5340	5335	5236
Cd 226.502	501.299	501.070	491.015
Co 228.615	503.193	500.992	489.225
Cr 267.716	5051.72	5034.30	4908.21
Cu 324.754	5161.91	5187.63	5043.68
Fe 271.441	4840.34	4835.08	4726.15
K 766.491	10335.9	10293.6	10026.8
Mg 279.078	4935.76	4914.18	4788.58
Mn 257.610	5212.62	5199.92	5103.89
Mo 202.032	513.337	512.152	501.520
Na 330.237	7142.31	7184.82	6934.48
Ni 231.604	2505.81	2504.62	2451.75
Pb 220.353	513.338	511.057	501.411
Sb 206.834	1032.70	1030.31	1011.94
Se 196.026	5357.46	5362.07	5247.62
Sn 189.925	5063.85	5064.48	4978.51
Sr 216.596	2569.05	2564.95	2506.32
Ti 334.941	507.981	506.569	495.812
Tl 190.794	5171.02	5159.89	5046.74
V 292.401	5008.16	4999.41	4879.45
Zn 206.200	2515.08	2523.44	2469.83

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	485.122	ppb	8.3224	1.7	44911.7	97.02441
Al 308.215	5083.70	ppb	58.9720	1.2	29721.7	101.67406
As 188.980	493.682	ppb	8.3991	1.7	470.687	98.73643
B 249.678	489.865	ppb	5.6303	1.1	9891.40	97.97303
Ba 389.178	5046.31	ppb	70.4396	1.4	131347	100.92612
Be 313.042	487.070	ppb	7.4523	1.5	1068676	97.41403
Ca 370.602	5304	ppb	58.92	1.1	16847	106.07549
Cd 226.502	497.795	ppb	5.8723	1.2	29843.0	99.55891
Co 228.615	497.803	ppb	7.5103	1.5	7447.09	99.56066
Cr 267.716	4998.08	ppb	78.3110	1.6	319214	99.96154
Cu 324.754	5131.07	ppb	76.7709	1.5	356183	102.62144
Fe 271.441	4800.53	ppb	64.4620	1.3	9727.64	96.01052
K 766.491	10218.8	ppb	167.593	1.6	439744	102.18782
Mg 279.078	4879.51	ppb	79.4814	1.6	15194.9	97.59012
Mn 257.610	5172.14	ppb	59.4514	1.1	1409829	103.44284
Mo 202.032	509.003	ppb	6.5076	1.3	4456.36	101.80060
Na 330.237	7087.20	ppb	133.960	1.9	444.150	94.49601
Ni 231.604	2487.39	ppb	30.8763	1.2	10130.2	99.49567
Pb 220.353	508.602	ppb	6.3312	1.2	1109.99	101.72047
Sb 206.834	1024.98	ppb	11.3549	1.1	1780.30	102.49827
Se 196.026	5322.38	ppb	64.7896	1.2	2688.04	106.44764
Sn 189.925	5035.62	ppb	49.4572	1.0	5776.99	100.71230
Sr 216.596	2546.77	ppb	35.0974	1.4	43364.3	101.87094
Ti 334.941	503.454	ppb	6.6559	1.3	149243	100.69078
Tl 190.794	5125.88	ppb	68.7651	1.3	7742.10	102.51765
V 292.401	4962.34	ppb	71.9186	1.4	156718	99.24683
Zn 206.200	2502.78	ppb	28.8431	1.2	4585.44	100.11134

Cont Calib Blank (CCB) **9/30/2013, 4:15:10 PM** **Rack 2, Tube 2**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.1073	0.1246	0.3225
Al 308.215	-3.3171u	-2.9383u	-2.9610u
As 188.980	1.0659	2.7781	-0.2324u
B 249.678	1.6124	1.4573	1.5741
Ba 389.178	0.4737	1.1318	0.6090
Be 313.042	0.0018	0.0054	0.0069
Ca 370.602	-0.5254u	3.670	-1.469u
Cd 226.502	-0.0139u	0.0644	-0.0870u
Co 228.615	0.6751	0.2221	0.3652
Cr 267.716	0.2362	0.0539	0.0331
Cu 324.754	-0.2802u	-0.3192u	0.3628
Fe 271.441	0.1627	1.4481	3.2300
K 766.491	3.8272	3.2585	4.0093
Mg 279.078	1.8805	-0.2353u	0.8262
Mn 257.610	0.0314	0.0158	0.0205
Mo 202.032	0.5837	0.2068	0.3717
Na 330.237	-183.794u	-10.6797u	-27.3463u
Ni 231.604	-0.2904u	1.1453	-0.1683u
Pb 220.353	1.1783	-1.1361u	1.1823
Sb 206.834	3.3254	1.6935	3.0507
Se 196.026	10.3736	5.4726	6.0007
Sn 189.925	1.9514	1.2228	0.4629
Sr 216.596	0.1468	-0.1424u	-0.0091u
Ti 334.941	0.1041	0.0539	0.1052
Tl 190.794	3.3495	2.1039	1.3238
V 292.401	0.2161	0.0388	0.0447
Zn 206.200	-1.8916u	-1.0226u	-0.5685u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.1848	ppb	0.1196	64.7	-4.1366	0.18479
Al 308.215	-3.0722	ppb	0.2125	6.9	-61.2040	-3.07215
As 188.980	1.2039	ppb	1.5100	125.4	-6.7434	1.20387
B 249.678	1.5479	ppb	0.0808	5.2	133.579	1.54792
Ba 389.178	0.7382	ppb	0.3476	47.1	0.2705	0.73818
Be 313.042	0.0047	ppb	0.0026	56.4	-263.404	0.00469
Ca 370.602	0.5587	ppb	2.736	489.7	-2.843	0.55869
Cd 226.502	-0.0122	ppb	0.0757	622.2	15.5917	-0.01217
Co 228.615	0.4208	ppb	0.2316	55.0	-0.9445	0.42079
Cr 267.716	0.1077	ppb	0.1117	103.7	26.8249	0.10773
Cu 324.754	-0.0789	ppb	0.3830	485.7	120.284	-0.07886
Fe 271.441	1.6136	ppb	1.5403	95.5	18.8262	1.61357
K 766.491	3.6984	ppb	0.3916	10.6	400.468	3.69836
Mg 279.078	0.8238	ppb	1.0579	128.4	35.6348	0.82378
Mn 257.610	0.0226	ppb	0.0080	35.6	43.2612	0.02257
Mo 202.032	0.3874	ppb	0.1889	48.8	11.2437	0.38739
Na 330.237	-73.9400	ppb	95.5005	129.2	40.0360	-73.93996
Ni 231.604	0.2289	ppb	0.7960	347.8	-2.1765	0.22887
Pb 220.353	0.4082	ppb	1.3374	327.7	14.0355	0.40816
Sb 206.834	2.6899	ppb	0.8738	32.5	4.8626	2.68986
Se 196.026	7.2823	ppb	2.6901	36.9	4.9261	7.28232
Sn 189.925	1.2124	ppb	0.7443	61.4	-11.8503	1.21236
Sr 216.596	-0.0015	ppb	0.1447	9368	10.0621	-0.00155

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ti 334.941	0.0877	ppb	0.0293	33.4	-47.5469	0.08772
Tl 190.794	2.2591	ppb	1.0217	45.2	-9.6948	2.25909
V 292.401	0.0999	ppb	0.1007	100.8	-0.7793	0.09987
Zn 206.200	-1.1609	ppb	0.6724	57.9	4.3482	-1.16088

mb 680-296074/1-a (Samp) **9/30/2013, 4:19:45 PM** **Rack 2, Tube 3**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	0.3153	0.1388	-0.0612u
Al 308.215	-1.8466u	-0.6901u	-1.3805u
As 188.980	-2.8662u	2.3048	-0.5778u
B 249.678	2.9362	3.0982	2.7886
Ba 389.178	-0.2739u	1.2077	0.3599
Be 313.042	0.0076	0.0077	0.0050
Ca 370.602	4.972	3.944	-0.4553u
Cd 226.502	0.0861	-0.0480u	0.1912
Co 228.615	0.3750	-0.0120u	0.5448
Cr 267.716	-0.0263u	-0.0605u	0.1014
Cu 324.754	-0.2361u	-0.2461u	-0.0238u
Fe 271.441	-0.6373u	-3.7276u	-0.0002
K 766.491	3.7073	4.2617	3.7647
Mg 279.078	1.0896	-1.0126u	-0.7519u
Mn 257.610	0.0249	0.0046	0.0333
Mo 202.032	0.1392	-0.7025u	0.1889
Na 330.237	29.0667	-69.7915u	16.4426
Ni 231.604	-0.5961u	-0.2511u	-0.4346u
Pb 220.353	0.4925	0.2781	1.2089
Sb 206.834	0.9917	1.8516	1.0531
Se 196.026	3.4522	-1.0451u	-2.4210u
Sn 189.925	1.6439	4.4539	0.5950
Sr 216.596	0.0856	-0.1094u	0.0697
Ti 334.941	0.1176	0.1266	0.0033
Tl 190.794	-1.5098u	1.4571	2.3501
V 292.401	-0.1642u	-0.0339u	-0.4070u
Zn 206.200	-0.1386u	-0.0191u	-0.7220u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1310	ppb	0.1884	143.8	-9.1378
Al 308.215	-1.3058	ppb	0.5819	44.6	-50.5485
As 188.980	-0.3797	ppb	2.5912	682.4	-8.2790
B 249.678	2.9410	ppb	0.1549	5.3	161.460
Ba 389.178	0.4312	ppb	0.7434	172.4	-7.7287
Be 313.042	0.0068	ppb	0.0015	22.3	-258.761
Ca 370.602	2.820	ppb	2.883	102.2	4.458
Cd 226.502	0.0764	ppb	0.1199	156.9	20.8862
Co 228.615	0.3026	ppb	0.2854	94.3	-2.6956
Cr 267.716	0.0049	ppb	0.0853	1757.1	20.2592
Cu 324.754	-0.1687	ppb	0.1255	74.4	114.035
Fe 271.441	-1.4550	ppb	1.9937	137.0	12.6799
K 766.491	3.9112	ppb	0.3049	7.8	409.624
Mg 279.078	-0.2250	ppb	1.1459	509.4	32.3483
Mn 257.610	0.0209	ppb	0.0147	70.4	42.7946
Mo 202.032	-0.1248	ppb	0.5009	401.4	6.7564

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Na 330.237	-8.0940	ppb	53.8031	664.7	44.1968
Ni 231.604	-0.4273	ppb	0.1726	40.4	-4.8496
Pb 220.353	0.6598	ppb	0.4875	73.9	14.5787
Sb 206.834	1.2988	ppb	0.4798	36.9	2.5515
Se 196.026	-0.0046	ppb	3.0718	66495.9	1.2494
Sn 189.925	2.2309	ppb	1.9953	89.4	-10.6790
Sr 216.596	0.0153	ppb	0.1083	707.2	10.3697
Ti 334.941	0.0825	ppb	0.0687	83.3	-49.1067
Tl 190.794	0.7658	ppb	2.0207	263.9	-11.9539
V 292.401	-0.2017	ppb	0.1894	93.9	-10.2305
Zn 206.200	-0.2932	ppb	0.3761	128.3	5.9439

lcs 680-296074/2-a (Samp) **9/30/2013, 4:24:19 PM** **Rack 2, Tube 4**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	123.325	118.187	118.754
Al 308.215	10918.0	10463.4	10509.3
As 188.980	217.119	207.555	210.315
B 249.678	416.331	401.387	403.629
Ba 389.178	218.585	209.468	210.462
Be 313.042	107.423	102.779	103.131
Ca 370.602	10776	10350	10400
Cd 226.502	107.062	101.895	102.803
Co 228.615	107.522	103.125	103.873
Cr 267.716	218.867	209.271	210.356
Cu 324.754	224.467	214.726	215.659
Fe 271.441	10413.5	9964.22	10010.5
K 766.491	12372.6	11902.1	11898.7
Mg 279.078	10405.5	9943.30	9991.39
Mn 257.610	1111.88	1063.93	1071.48
Mo 202.032	217.836	208.690	209.417
Na 330.237	131569x	126749x	126727x
Ni 231.604	214.694	203.912	204.297
Pb 220.353	107.309	102.907	104.740
Sb 206.834	107.150	97.3931	104.437
Se 196.026	225.012	215.748	218.548
Sn 189.925	426.235	406.775	411.166
Sr 216.596	214.160	206.164	206.629
Ti 334.941	213.834	204.992	206.358
Tl 190.794	83.8940	82.3989	78.2698
V 292.401	212.987	204.223	204.839
Zn 206.200	214.664	206.723	207.438

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	120.088b	ppb	2.8171	2.3	11114.5
Al 308.215	10630.2b	ppb	250.286	2.4	63892.9
As 188.980	211.663b	ppb	4.9227	2.3	197.287
B 249.678	407.116b	ppb	8.0593	2.0	8221.02
Ba 389.178	212.839b	ppb	5.0016	2.3	5567.77
Be 313.042	104.444b	ppb	2.5855	2.5	228948
Ca 370.602	10509b	ppb	232.6	2.2	32602
Cd 226.502	103.920b	ppb	2.7586	2.7	6283.75
Co 228.615	104.840b	ppb	2.3526	2.2	1559.34

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Cr 267.716	212.831b	ppb	5.2550	2.5	13622.9
Cu 324.754	218.284b	ppb	5.3750	2.5	15284.3
Fe 271.441	10129.4b	ppb	247.088	2.4	20254.5
K 766.491	12057.8b	ppb	272.634	2.3	518838
Mg 279.078	10113.4b	ppb	254.113	2.5	31681.1
Mn 257.610	1082.43b	ppb	25.7808	2.4	295196
Mo 202.032	211.981b	ppb	5.0837	2.4	1864.24
Na 330.237	128348xb	ppb	2788.79	2.2	8151.20
Ni 231.604	207.634b	ppb	6.1171	2.9	842.877
Pb 220.353	104.985b	ppb	2.2109	2.1	239.927
Sb 206.834	102.993b	ppb	5.0360	4.9	172.672
Se 196.026	219.769b	ppb	4.7512	2.2	112.446
Sn 189.925	414.725b	ppb	10.2062	2.5	463.702
Sr 216.596	208.984b	ppb	4.4885	2.1	3579.27
Ti 334.941	208.395b	ppb	4.7596	2.3	61762.6
Tl 190.794	81.5209b	ppb	2.9130	3.6	108.944
V 292.401	207.350b	ppb	4.8919	2.4	6509.74
Zn 206.200	209.608b	ppb	4.3925	2.1	391.024

lb 680-295691/21-c (Samp) **9/30/2013, 4:28:54 PM** **Rack 2, Tube 5**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.2260	0.2809	-0.0169u
Al 308.215	1.2371	1.4444	-0.3249u
As 188.980	-1.8421u	-2.4640u	5.1573
B 249.678	12.1137	11.9721	11.7292
Ba 389.178	0.7217	0.1188	0.8894
Be 313.042	0.0135	0.0183	0.0109
Ca 370.602	83.50	79.87	82.19
Cd 226.502	-0.0445u	-0.1060u	-0.0970u
Co 228.615	-0.0806u	0.0128	0.4985
Cr 267.716	0.1842	0.1232	0.1358
Cu 324.754	0.0548	0.3528	0.3445
Fe 271.441	3.0132	-4.4866u	-0.5317u
K 766.491	40.3629	39.8624	40.0417
Mg 279.078	15.4282	13.2001	15.7196
Mn 257.610	0.0238	0.0067	0.0468
Mo 202.032	-0.1013u	-0.1902u	0.1629
Na 330.237	103149x	103920x	104240x
Ni 231.604	-0.0877u	0.7565	-0.3508u
Pb 220.353	0.5352	0.5859	0.5520
Sb 206.834	2.0949	0.8447	2.0979
Se 196.026	-1.1905u	6.0807	-4.6941u
Sn 189.925	-0.6109u	-1.1210u	0.0734
Sr 216.596	0.2785	0.2432	0.2135
Ti 334.941	0.0427	0.0280u	0.0744
Tl 190.794	-0.2131u	-2.1183u	-0.0386u
V 292.401	0.2148	-0.0662u	-0.0953u
Zn 206.200	1.2465	1.0766	2.0607

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1633b	ppb	0.1584	97.0	-6.1459
Al 308.215	0.7855b	ppb	0.9672	123.1	-37.9846

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	0.2838b	ppb	4.2321	1491.4	-7.6355
B 249.678	11.9383b	ppb	0.1945	1.6	341.501
Ba 389.178	0.5766b	ppb	0.4053	70.3	-3.9019
Be 313.042	0.0142b	ppb	0.0037	26.3	-257.245
Ca 370.602	81.85b	ppb	1.837	2.2	254.7
Cd 226.502	-0.0825b	ppb	0.0332	40.2	10.3794
Co 228.615	0.1436b	ppb	0.3109	216.6	-5.0735
Cr 267.716	0.1477b	ppb	0.0322	21.8	31.9936
Cu 324.754	0.2507b	ppb	0.1697	67.7	143.141
Fe 271.441	-0.6684b	ppb	3.7518	561.3	14.2301
K 766.491	40.0890b	ppb	0.2536	0.6	1965.60
Mg 279.078	14.7826b	ppb	1.3782	9.3	79.3505
Mn 257.610	0.0258b	ppb	0.0201	78.1	43.5469
Mo 202.032	-0.0428b	ppb	0.1836	428.6	7.4742
Na 330.237	103770xb	ppb	561.040	0.5	6605.59
Ni 231.604	0.1060b	ppb	0.5785	545.6	-2.6762
Pb 220.353	0.5577b	ppb	0.0258	4.6	14.3584
Sb 206.834	1.6792b	ppb	0.7227	43.0	3.1848
Se 196.026	0.0654b	ppb	5.4961	8407.3	1.2847
Sn 189.925	-0.5528b	ppb	0.5993	108.4	-13.8257
Sr 216.596	0.2451b	ppb	0.0325	13.3	14.2852
Ti 334.941	0.0484b	ppb	0.0237	49.0	-68.2501
Tl 190.794	-0.7900b	ppb	1.1537	146.0	-14.3077
V 292.401	0.0178b	ppb	0.1712	963.8	-4.3155
Zn 206.200	1.4613b	ppb	0.5260	36.0	9.1688

660-56572-a-1-g (Samp) **9/30/2013, 4:33:29 PM** **Rack 2, Tube 6**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.0713	-0.2190u	-0.3052u
Al 308.215	1.6015	2.3556	1.3710
As 188.980	-0.5734u	-0.2585u	-1.3451u
B 249.678	2414.52	2414.74	2417.85
Ba 389.178	5.6887	6.4676	5.7594
Be 313.042	0.0152	0.0125	0.0092
Ca 370.602	4875	4862	4843
Cd 226.502	-0.0700	0.0032	-0.1988
Co 228.615	3.8592	3.7543	4.1370
Cr 267.716	-0.2353	-0.2059	-0.3649
Cu 324.754	-0.2955u	-0.2172	-0.0732
Fe 271.441	48919.1	48848.6	48921.7
K 766.491	1390.20	1390.12	1386.14
Mg 279.078	256.544	256.946	257.087
Mn 257.610	1290.28	1287.06	1285.91
Mo 202.032	-0.0683u	0.3584	0.0107u
Na 330.237	107577x	107179x	107335x
Ni 231.604	1.2864	2.2207	3.7619
Pb 220.353	-0.2160	0.0610	1.5235
Sb 206.834	0.8968	2.5484	3.2645
Se 196.026	1.9251	10.1237	11.9155
Sn 189.925	0.3670	0.6162	-0.4096u
Sr 216.596	18.6937	18.4796	19.1004
Ti 334.941	-0.0099u	0.0833	0.0464

Label	Replicates Concentration		
Tl 190.794	-3.0124u	-0.8272u	-1.7771u
V 292.401	0.4107	0.5625	-0.2215u
Zn 206.200	89.9132	88.7614	92.8299

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1510b	ppb	0.1973	130.7	-29.5027
Al 308.215	1.7760b	ppb	0.5150	29.0	-32.2598
As 188.980	-0.7257b	ppb	0.5590	77.0	-9.3599
B 249.678	2415.70b	ppb	1.8618	0.1	48305.8
Ba 389.178	5.9719b	ppb	0.4308	7.2	214.731
Be 313.042	0.0123b	ppb	0.0030	24.4	-261.949
Ca 370.602	4860b	ppb	16.08	0.3	11555
Cd 226.502	-0.0885b	ppb	0.1023	115.6	234.364
Co 228.615	3.9168b	ppb	0.1977	5.0	53.4942
Cr 267.716	-0.2687b	ppb	0.0846	31.5	28.0914
Cu 324.754	-0.1953b	ppb	0.1128	57.7	132.179
Fe 271.441	48896.5b	ppb	41.4866	0.1	97624.6
K 766.491	1388.82b	ppb	2.3240	0.2	59973.6
Mg 279.078	256.859b	ppb	0.2819	0.1	820.320
Mn 257.610	1287.75b	ppb	2.2655	0.2	351188
Mo 202.032	0.1003b	ppb	0.2270	226.4	5.7805
Na 330.237	107364xb	ppb	200.240	0.2	6813.25
Ni 231.604	2.4230b	ppb	1.2501	51.6	8.3176
Pb 220.353	0.4562b	ppb	0.9346	204.9	18.9489
Sb 206.834	2.2366b	ppb	1.2143	54.3	5.9608
Se 196.026	7.9881b	ppb	5.3266	66.7	5.7732
Sn 189.925	0.1912b	ppb	0.5350	279.9	-12.9678
Sr 216.596	18.7579b	ppb	0.3154	1.7	398.863
Ti 334.941	0.0399b	ppb	0.0469	117.6	-64.0435
Tl 190.794	-1.8722b	ppb	1.0957	58.5	-21.5484
V 292.401	0.2506b	ppb	0.4158	166.0	3.0784
Zn 206.200	90.5015b	ppb	2.0971	2.3	173.493

680-94461-a-2-g (Samp) **9/30/2013, 4:38:04 PM** **Rack 2, Tube 7**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.0451u	-0.0404u	0.0176
Al 308.215	208.288	205.438	204.061
As 188.980	-1.9108u	2.0522	1.2110
B 249.678	69.9941	68.8021	67.4458
Ba 389.178	10.2574	9.7417	9.7951
Be 313.042	0.0283	0.0238	0.0303
Ca 370.602	1800	1799	1793
Cd 226.502	0.1370	0.2174	0.2199
Co 228.615	0.6776	0.7077	0.8783
Cr 267.716	0.4563	0.5731	0.7264
Cu 324.754	2724.21	2708.55	2695.09
Fe 271.441	28.6940	25.8691	22.8728
K 766.491	585.845	583.590	581.196
Mg 279.078	237.982	237.814	239.021
Mn 257.610	19.0372	19.0045	18.9501
Mo 202.032	-0.0698u	0.1734	-0.2915u
Na 330.237	96234.0x	96164.3x	95973.7x

Label	Replicates Concentration		
Ni 231.604	15.6793	17.0536	14.9403
Pb 220.353	21.6153	22.0738	20.1104
Sb 206.834	3.3400	-0.9908u	1.0980
Se 196.026	0.3926	0.7175	-7.9787u
Sn 189.925	-0.5531u	-0.2304u	0.0141
Sr 216.596	11.7379	11.5623	11.5031
Ti 334.941	0.0518	0.0366	0.0399
Tl 190.794	1.4303	-1.7189u	-3.6557u
V 292.401	-0.0167u	0.2432	0.0159u
Zn 206.200	218.454	221.727	217.784

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0226b	ppb	0.0349	154.4	-23.9006
Al 308.215	205.929b	ppb	2.1558	1.0	1196.35
As 188.980	0.4508b	ppb	2.0880	463.2	-7.4709
B 249.678	68.7473b	ppb	1.2751	1.9	1478.18
Ba 389.178	9.9314b	ppb	0.2836	2.9	240.260
Be 313.042	0.0275b	ppb	0.0033	12.1	-225.961
Ca 370.602	1797b	ppb	3.551	0.2	5684
Cd 226.502	0.1914b	ppb	0.0471	24.6	26.9890
Co 228.615	0.7546b	ppb	0.1082	14.3	4.0638
Cr 267.716	0.5853b	ppb	0.1354	23.1	59.8540
Cu 324.754	2709.28b	ppb	14.5718	0.5	188154
Fe 271.441	25.8120b	ppb	2.9110	11.3	67.1830
K 766.491	583.544b	ppb	2.3252	0.4	25339.2
Mg 279.078	238.272b	ppb	0.6538	0.3	778.801
Mn 257.610	18.9973b	ppb	0.0440	0.2	5216.73
Mo 202.032	-0.0626b	ppb	0.2326	371.3	7.2989
Na 330.237	96124.0xb	ppb	134.741	0.1	6118.25
Ni 231.604	15.8911b	ppb	1.0725	6.7	61.6385
Pb 220.353	21.2665b	ppb	1.0271	4.8	59.0073
Sb 206.834	1.1491b	ppb	2.1658	188.5	2.3096
Se 196.026	-2.2895b	ppb	4.9297	215.3	0.1013
Sn 189.925	-0.2565b	ppb	0.2845	110.9	-13.4881
Sr 216.596	11.6011b	ppb	0.1221	1.1	207.799
Ti 334.941	0.0427b	ppb	0.0080	18.7	-68.1467
Tl 190.794	-1.3148b	ppb	2.5670	195.2	-15.1147
V 292.401	0.0808b	ppb	0.1416	175.3	-2.2630
Zn 206.200	219.321b	ppb	2.1101	1.0	409.715

680-94461-a-2-gSD^5 (Samp) **9/30/2013, 4:42:39 PM** **Rack 2, Tube 8**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.1142	-0.1880u	0.2662
Al 308.215	40.6513	40.7816	42.0155
As 188.980	-3.1788u	-2.0242u	-0.0390u
B 249.678	15.2988	15.2350	15.2104
Ba 389.178	1.8022	2.1475	2.8387
Be 313.042	0.0069	0.0123	0.0119
Ca 370.602	376.0	368.7	371.3
Cd 226.502	0.0553	0.1083	0.0224
Co 228.615	0.5927	0.0477	0.1778
Cr 267.716	0.1000	0.0874	0.1163

Label	Replicates Concentration		
Cu 324.754	546.827	542.211	538.016
Fe 271.441	4.2575	5.4487	5.5887
K 766.491	111.197	109.378	109.893
Mg 279.078	47.4715	47.5006	45.2745
Mn 257.610	3.8611	3.8068	3.8382
Mo 202.032	-0.0152u	-0.2998u	-0.0659u
Na 330.237	18694.0	18375.3	18383.5
Ni 231.604	2.6185	3.5672	3.2794
Pb 220.353	4.3590	6.8881	5.5502
Sb 206.834	0.5397	5.2502	7.3312
Se 196.026	3.6879	-4.8165u	4.6634
Sn 189.925	1.0014	1.0635	2.0110
Sr 216.596	2.4513	2.2226	2.2151
Ti 334.941	0.0586	0.0329	0.0172
Tl 190.794	1.0546	-0.8198u	-0.8324u
V 292.401	-0.1040u	0.1378	0.2047
Zn 206.200	43.7735	41.8421	42.3304

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0641	ppb	0.2312	360.4	-15.4281
Al 308.215	41.1494	ppb	0.7528	1.8	204.861
As 188.980	-1.7473	ppb	1.5881	90.9	-9.6049
B 249.678	15.2481	ppb	0.0456	0.3	407.711
Ba 389.178	2.2628	ppb	0.5278	23.3	40.0865
Be 313.042	0.0104	ppb	0.0030	29.2	-253.268
Ca 370.602	372.0	ppb	3.670	1.0	1173
Cd 226.502	0.0620	ppb	0.0433	69.9	19.8795
Co 228.615	0.2727	ppb	0.2847	104.4	-3.1398
Cr 267.716	0.1013	ppb	0.0145	14.3	26.8990
Cu 324.754	542.352	ppb	4.4072	0.8	37765.8
Fe 271.441	5.0983	ppb	0.7315	14.3	25.7607
K 766.491	110.156	ppb	0.9377	0.9	4979.13
Mg 279.078	46.7489	ppb	1.2769	2.7	179.366
Mn 257.610	3.8354	ppb	0.0273	0.7	1082.81
Mo 202.032	-0.1270	ppb	0.1518	119.5	6.7361
Na 330.237	18484.3	ppb	181.708	1.0	1212.61
Ni 231.604	3.1550	ppb	0.4864	15.4	9.7467
Pb 220.353	5.5991	ppb	1.2653	22.6	25.2280
Sb 206.834	4.3737	ppb	3.4796	79.6	7.6802
Se 196.026	1.1783	ppb	5.2145	442.6	1.8472
Sn 189.925	1.3586	ppb	0.5658	41.6	-11.6722
Sr 216.596	2.2963	ppb	0.1342	5.8	49.2395
Ti 334.941	0.0362	ppb	0.0209	57.6	-64.2127
Tl 190.794	-0.1992	ppb	1.0859	545.1	-13.4166
V 292.401	0.0795	ppb	0.1624	204.3	-1.5003
Zn 206.200	42.6487	ppb	1.0043	2.4	84.8945

680-94461-a-2-gPDS (Samp) **9/30/2013, 4:47:14 PM** **Rack 2, Tube 9**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	30.2926	29.8310	29.5601
Al 308.215	2077.55	2062.97	2072.33
As 188.980	184.638	183.646	179.312

Label	Replicates Concentration		
B 249.678	500.490	499.675	501.213
Ba 389.178	203.791	202.231	202.223
Be 313.042	46.4241	46.2311	46.2019
Ca 370.602	3564	3537	3536
Cd 226.502	46.9150	46.7577	46.9256
Co 228.615	189.451	186.991	186.859
Cr 267.716	189.542	188.205	188.675
Cu 324.754	2901.91	2869.86	2885.09
Fe 271.441	1858.27	1846.08	1853.15
K 766.491	2663.19	2640.59	2643.79
Mg 279.078	2048.64	2036.86	2041.22
Mn 257.610	215.192	214.175	214.055
Mo 202.032	193.030	192.006	192.429
Na 330.237	97811.4x	97502.6x	97281.0x
Ni 231.604	200.397	201.066	199.510
Pb 220.353	206.543	205.212	205.796
Sb 206.834	183.576	179.675	179.613
Se 196.026	189.581	187.643	192.515
Sn 189.925	190.910	189.050	191.160
Sr 216.596	201.214	199.822	199.719
Ti 334.941	191.509	190.193	189.892
Tl 190.794	182.511	178.371	182.619
V 292.401	188.827	188.061	187.889
Zn 206.200	398.637	402.862	400.239

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	29.8946b	ppb	0.3704	1.2	2743.54
Al 308.215	2070.95b	ppb	7.3901	0.4	12389.2
As 188.980	182.532b	ppb	2.8327	1.6	169.043
B 249.678	500.459b	ppb	0.7698	0.2	10111.7
Ba 389.178	202.748b	ppb	0.9025	0.4	5268.05
Be 313.042	46.2857b	ppb	0.1207	0.3	101281
Ca 370.602	3546b	ppb	16.15	0.5	11180
Cd 226.502	46.8661b	ppb	0.0940	0.2	2829.99
Co 228.615	187.767b	ppb	1.4597	0.8	2798.89
Cr 267.716	188.808b	ppb	0.6783	0.4	12081.0
Cu 324.754	2885.62b	ppb	16.0325	0.6	200398
Fe 271.441	1852.50b	ppb	6.1231	0.3	3744.10
K 766.491	2649.19b	ppb	12.2300	0.5	114181
Mg 279.078	2042.24b	ppb	5.9598	0.3	6423.98
Mn 257.610	214.474b	ppb	0.6248	0.3	58519.6
Mo 202.032	192.488b	ppb	0.5144	0.3	1693.98
Na 330.237	97531.7xb	ppb	266.429	0.3	6202.46
Ni 231.604	200.324b	ppb	0.7803	0.4	812.553
Pb 220.353	205.850b	ppb	0.6672	0.3	456.590
Sb 206.834	180.955b	ppb	2.2702	1.3	301.553
Se 196.026	189.913b	ppb	2.4530	1.3	97.1356
Sn 189.925	190.373b	ppb	1.1531	0.6	205.710
Sr 216.596	200.252b	ppb	0.8351	0.4	3418.35
Ti 334.941	190.531b	ppb	0.8599	0.5	56427.9
Tl 190.794	181.167b	ppb	2.4216	1.3	261.443
V 292.401	188.259b	ppb	0.4993	0.3	5910.60
Zn 206.200	400.579b	ppb	2.1333	0.5	742.138

680-94461-a-2-h ms (Samp) **9/30/2013, 4:51:51 PM** **Rack 2, Tube 10**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	94.0057	93.4098	93.1052
Al 308.215	1138.99	1140.67	1136.03
As 188.980	97.9383	98.5260	95.8314
B 249.678	235.036	235.089	234.578
Ba 389.178	104.467	105.194	105.089
Be 313.042	95.0367	95.2696	95.1701
Ca 370.602	11114	11145	11080
Cd 226.502	95.7471	95.8065	95.5380
Co 228.615	97.2690	97.8900	96.7369
Cr 267.716	97.5271	97.4348	97.3544
Cu 324.754	2524.92	2542.63	2522.50
Fe 271.441	9385.37	9385.45	9371.13
K 766.491	11082.2	11072.9	11048.3
Mg 279.078	9371.72	9385.29	9356.87
Mn 257.610	1006.99	1007.96	1004.02
Mo 202.032	98.9320	98.7295	98.1628
Na 330.237	95385.8x	95148.1x	95397.8x
Ni 231.604	110.044	109.893	109.541
Pb 220.353	112.755	112.400	114.032
Sb 206.834	96.5505	94.8104	96.3420
Se 196.026	102.643	99.0405	102.882
Sn 189.925	95.6873	94.7526	93.6884
Sr 216.596	107.597	108.334	107.451
Ti 334.941	96.3722	96.4725	96.0781
Tl 190.794	17.0257	17.2986	18.4583
V 292.401	97.4194	97.5734	96.8934
Zn 206.200	286.179	288.625	284.005

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	93.5069b	ppb	0.4580	0.5	8653.00
Al 308.215	1138.56b	ppb	2.3507	0.2	6792.97
As 188.980	97.4319b	ppb	1.4169	1.5	86.4175
B 249.678	234.901b	ppb	0.2811	0.1	4777.02
Ba 389.178	104.917b	ppb	0.3931	0.4	2754.88
Be 313.042	95.1588b	ppb	0.1169	0.1	208593
Ca 370.602	11113b	ppb	32.09	0.3	34511
Cd 226.502	95.6972b	ppb	0.1411	0.1	5788.34
Co 228.615	97.2986b	ppb	0.5771	0.6	1447.22
Cr 267.716	97.4388b	ppb	0.0865	0.1	6252.29
Cu 324.754	2530.02b	ppb	10.9888	0.4	175719
Fe 271.441	9380.65b	ppb	8.2454	0.1	18757.3
K 766.491	11067.8b	ppb	17.5023	0.2	476260
Mg 279.078	9371.29b	ppb	14.2153	0.2	29362.5
Mn 257.610	1006.32b	ppb	2.0541	0.2	274443
Mo 202.032	98.6081b	ppb	0.3987	0.4	871.111
Na 330.237	95310.6xb	ppb	140.813	0.1	6061.72
Ni 231.604	109.826b	ppb	0.2579	0.2	444.358
Pb 220.353	113.062b	ppb	0.8587	0.8	257.739
Sb 206.834	95.9009b	ppb	0.9502	1.0	161.274
Se 196.026	101.522b	ppb	2.1523	2.1	52.7599
Sn 189.925	94.7094b	ppb	1.0001	1.1	95.7133
Sr 216.596	107.794b	ppb	0.4734	0.4	1857.94

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ti 334.941	96.3076b	ppb	0.2050	0.2	28523.3
Tl 190.794	17.5942b	ppb	0.7607	4.3	12.3306
V 292.401	97.2954b	ppb	0.3565	0.4	3052.63
Zn 206.200	286.270b	ppb	2.3113	0.8	532.483

680-94461-a-2-i msd (Samp) **9/30/2013, 4:56:26 PM** **Rack 2, Tube 11**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	85.0781	85.4205	85.4024
Al 308.215	1080.07	1076.23	1079.35
As 188.980	87.5294	91.1240	90.0978
B 249.678	223.948	223.642	223.478
Ba 389.178	99.3857	98.3895	98.4249
Be 313.042	88.5436	88.3026	88.2207
Ca 370.602	10567	10542	10513
Cd 226.502	89.3998	89.3019	89.2184
Co 228.615	91.4912	90.8986	90.0847
Cr 267.716	90.6252	90.5617	90.4126
Cu 324.754	2550.56	2542.42	2540.92
Fe 271.441	8680.87	8637.26	8628.97
K 766.491	10381.2	10331.3	10304.6
Mg 279.078	8752.16	8720.42	8711.76
Mn 257.610	942.842	939.953	938.150
Mo 202.032	91.9433	91.6851	91.5101
Na 330.237	96158.0x	95852.5x	95492.8x
Ni 231.604	103.550	101.671	102.093
Pb 220.353	109.365	107.971	106.531
Sb 206.834	86.1022	89.7469	87.0831
Se 196.026	91.4462	94.8441	86.2920
Sn 189.925	84.7649	86.3861	88.9930
Sr 216.596	100.645	100.471	100.151
Ti 334.941	89.8737	89.8115	89.5411
Tl 190.794	16.5605	19.8478	16.7007
V 292.401	91.0572	90.4679	90.3877
Zn 206.200	285.771	283.411	281.862

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	85.3003b	ppb	0.1926	0.2	7891.74
Al 308.215	1078.55b	ppb	2.0394	0.2	6432.89
As 188.980	89.5837b	ppb	1.8516	2.1	78.8190
B 249.678	223.689b	ppb	0.2388	0.1	4554.70
Ba 389.178	98.7334b	ppb	0.5652	0.6	2590.84
Be 313.042	88.3556b	ppb	0.1678	0.2	193660
Ca 370.602	10541b	ppb	27.04	0.3	32751
Cd 226.502	89.3067b	ppb	0.0908	0.1	5402.35
Co 228.615	90.8248b	ppb	0.7061	0.8	1350.45
Cr 267.716	90.5332b	ppb	0.1091	0.1	5810.77
Cu 324.754	2544.63b	ppb	5.1841	0.2	176733
Fe 271.441	8649.03b	ppb	27.8841	0.3	17295.7
K 766.491	10339.0b	ppb	38.9109	0.4	444916
Mg 279.078	8728.11b	ppb	21.2734	0.2	27349.5
Mn 257.610	940.315b	ppb	2.3670	0.3	256443
Mo 202.032	91.7128b	ppb	0.2179	0.2	810.751

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Na 330.237	95834.4xb	ppb	332.935	0.3	6095.21
Ni 231.604	102.438b	ppb	0.9856	1.0	414.252
Pb 220.353	107.956b	ppb	1.4171	1.3	246.665
Sb 206.834	87.6440b	ppb	1.8860	2.2	147.435
Se 196.026	90.8608b	ppb	4.3060	4.7	47.3611
Sn 189.925	86.7147b	ppb	2.1331	2.5	86.5204
Sr 216.596	100.422b	ppb	0.2506	0.2	1731.45
Ti 334.941	89.7421b	ppb	0.1768	0.2	26573.2
Tl 190.794	17.7030b	ppb	1.8588	10.5	12.5846
V 292.401	90.6376b	ppb	0.3656	0.4	2843.48
Zn 206.200	283.682b	ppb	1.9686	0.7	527.746

680-94461-a-3-e (Samp) **9/30/2013, 5:01:03 PM** **Rack 2, Tube 12**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	0.1215	0.2714	0.2176
Al 308.215	4.3712	4.7006	3.3210
As 188.980	-0.3197u	0.2751	-0.6196u
B 249.678	19.1898	18.9311	19.1418
Ba 389.178	2.5575	2.9234	2.2386
Be 313.042	0.0153	0.0207	0.0121
Ca 370.602	546.7	547.8	544.6
Cd 226.502	-0.0530u	0.0960	0.0826
Co 228.615	166.247	166.726	167.490
Cr 267.716	0.1697	0.0875	0.1694
Cu 324.754	3.9828	3.8026	4.0950
Fe 271.441	-4.3821	-0.0061	2.8921
K 766.491	69.7882	69.7552	69.6567
Mg 279.078	71.2957	71.9407	69.6767
Mn 257.610	117.538	117.611	117.975
Mo 202.032	0.8332	0.6930	0.3974
Na 330.237	102924x	102543x	103238x
Ni 231.604	0.4518	0.0258u	0.4722
Pb 220.353	2.2834	0.5474	0.4969
Sb 206.834	-0.2220u	3.7351	1.9558
Se 196.026	10.4757	5.3105	0.5093
Sn 189.925	-1.9130u	-1.5756u	1.5043
Sr 216.596	0.2404	0.5098	0.7295
Ti 334.941	0.0124u	0.0672	0.0409
Tl 190.794	-4.2905u	-2.5627u	2.0893
V 292.401	0.2650	0.3529	-0.1584u
Zn 206.200	822.107	826.053	831.459

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.2035b	ppb	0.0759	37.3	-1.7710
Al 308.215	4.1310b	ppb	0.7205	17.4	-24.8479
As 188.980	-0.2214b	ppb	0.4554	205.7	-8.1259
B 249.678	19.0876b	ppb	0.1376	0.7	484.518
Ba 389.178	2.5732b	ppb	0.3427	13.3	48.2493
Be 313.042	0.0160b	ppb	0.0043	27.0	-253.015
Ca 370.602	546.4b	ppb	1.644	0.3	1727
Cd 226.502	0.0419b	ppb	0.0824	196.8	17.9060
Co 228.615	166.821b	ppb	0.6271	0.4	2486.46

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Cr 267.716	0.1422b	ppb	0.0474	33.3	32.2584
Cu 324.754	3.9601b	ppb	0.1475	3.7	400.607
Fe 271.441	-0.4987b	ppb	3.6620	734.3	39.6489
K 766.491	69.7334b	ppb	0.0684	0.1	3240.59
Mg 279.078	70.9710b	ppb	1.1664	1.6	252.576
Mn 257.610	117.708b	ppb	0.2345	0.2	32119.8
Mo 202.032	0.6412b	ppb	0.2225	34.7	13.4667
Na 330.237	102902xb	ppb	347.819	0.3	6535.79
Ni 231.604	0.3166b	ppb	0.2521	79.6	-2.3585
Pb 220.353	1.1093b	ppb	1.0172	91.7	15.5084
Sb 206.834	1.8230b	ppb	1.9818	108.7	3.4113
Se 196.026	5.4318b	ppb	4.9843	91.8	4.0217
Sn 189.925	-0.6614b	ppb	1.8831	284.7	-13.9510
Sr 216.596	0.4932b	ppb	0.2450	49.7	18.5907
Ti 334.941	0.0402b	ppb	0.0274	68.2	-70.3017
Tl 190.794	-1.5879b	ppb	3.2997	207.8	-14.8613
V 292.401	0.1532b	ppb	0.2733	178.5	-0.1395
Zn 206.200	826.540b	ppb	4.6948	0.6	1526.12

Cont Calib Verif (CCV) **9/30/2013, 5:05:38 PM** **Rack 2, Tube 13**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	490.321	486.398	484.335
Al 308.215	4978.18	4865.68	4870.88
As 188.980	488.659	475.999	481.805
B 249.678	487.457	480.733	485.017
Ba 389.178	5061.33	4971.48	4968.10
Be 313.042	497.162	489.343	492.193
Ca 370.602	5170	5056	5046
Cd 226.502	496.299	492.934	495.415
Co 228.615	501.441	493.482	495.078
Cr 267.716	5081.68	5014.31	5033.49
Cu 324.754	5190.40	5100.71	5060.74
Fe 271.441	4846.13	4774.54	4787.54
K 766.491	10264.1	10097.0	10098.5
Mg 279.078	4947.19	4877.73	4902.22
Mn 257.610	5136.00	5050.93	5051.10
Mo 202.032	508.884	503.191	506.128
Na 330.237	7162.71	6753.89	7063.29
Ni 231.604	2513.07	2472.20	2481.25
Pb 220.353	506.800	498.913	497.104
Sb 206.834	1014.31	995.105	993.000
Se 196.026	5185.07	5052.22	5092.78
Sn 189.925	5045.66	5034.73	5034.59
Sr 216.596	2567.92	2533.53	2542.03
Ti 334.941	497.531	487.833	486.614
Tl 190.794	5102.22	5043.25	5051.89
V 292.401	5007.88	4932.19	4938.64
Zn 206.200	2508.72	2467.09	2478.27

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	487.018	ppb	3.0410	0.6	45083.2	97.40361
Al 308.215	4904.91	ppb	63.5056	1.3	28646.7	98.09826

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
As 188.980	482.154	ppb	6.3373	1.3	459.504	96.43088
B 249.678	484.402	ppb	3.4043	0.7	9782.10	96.88048
Ba 389.178	5000.30	ppb	52.8790	1.1	130150	100.00607
Be 313.042	492.899	ppb	3.9569	0.8	1081472	98.57986
Ca 370.602	5091	ppb	68.92	1.4	16174	101.81931
Cd 226.502	494.883	ppb	1.7445	0.4	29668.6	98.97659
Co 228.615	496.667	ppb	4.2106	0.8	7430.06	99.33336
Cr 267.716	5043.16	ppb	34.7091	0.7	322093	100.86317
Cu 324.754	5117.29	ppb	66.4011	1.3	355226	102.34571
Fe 271.441	4802.74	ppb	38.1355	0.8	9731.97	96.05472
K 766.491	10153.2	ppb	96.0541	0.9	436923	101.53192
Mg 279.078	4909.04	ppb	35.2284	0.7	15287.8	98.18088
Mn 257.610	5079.34	ppb	49.0646	1.0	1384536	101.58689
Mo 202.032	506.068	ppb	2.8469	0.6	4430.65	101.21352
Na 330.237	6993.30	ppb	213.210	3.0	438.179	93.24397
Ni 231.604	2488.84	ppb	21.4673	0.9	10136.1	99.55365
Pb 220.353	500.939	ppb	5.1560	1.0	1093.45	100.18779
Sb 206.834	1000.81	ppb	11.7438	1.2	1740.59	100.08054
Se 196.026	5110.02	ppb	68.0850	1.3	2580.89	102.20047
Sn 189.925	5038.33	ppb	6.3486	0.1	5780.11	100.76650
Sr 216.596	2547.82	ppb	17.9125	0.7	43381.9	101.91296
Ti 334.941	490.660	ppb	5.9821	1.2	145450	98.13192
Tl 190.794	5065.79	ppb	31.8498	0.6	7651.20	101.31573
V 292.401	4959.57	ppb	41.9588	0.8	156627	99.19138
Zn 206.200	2484.69	ppb	21.5451	0.9	4551.97	99.38777

Cont Calib Blank (CCB) **9/30/2013, 5:10:13 PM** **Rack 2, Tube 14**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.0487u	0.2562	-0.0622u
Al 308.215	-1.0471u	-1.3831u	-0.5615u
As 188.980	4.6419	4.3579	-1.6732u
B 249.678	2.1346	1.9697	2.3834
Ba 389.178	0.8659	0.3110	0.0793
Be 313.042	-0.0036u	0.0129	0.0072
Ca 370.602	3.896	-1.218u	2.734
Cd 226.502	0.0291	0.0220	-0.0006u
Co 228.615	0.3363	0.2633	0.4757
Cr 267.716	0.1276	0.1301	-0.0297u
Cu 324.754	-0.0749u	0.0727	-0.0017u
Fe 271.441	3.3255	1.7136	-5.1570u
K 766.491	2.7454	3.0802	2.8973
Mg 279.078	1.2024	-2.4937u	-2.4613u
Mn 257.610	0.0179	0.0457	0.0596
Mo 202.032	0.0386	-0.0553u	-0.1863u
Na 330.237	-30.7437u	-42.0205u	-24.0977u
Ni 231.604	-0.1143u	-0.0394u	1.0821
Pb 220.353	3.5072	0.5870	-0.5428u
Sb 206.834	5.1612	3.2903	2.7010
Se 196.026	3.5413	2.4788	8.3406
Sn 189.925	1.3118	1.9622	2.1479
Sr 216.596	-0.0245u	-0.1965u	-0.1438u
Ti 334.941	0.1278	0.0974	0.0754

Label	Replicates Concentration		
Tl 190.794	-1.3140u	1.0280	-2.7575u
V 292.401	0.1837	0.1132	0.0810
Zn 206.200	0.1922	0.2633	0.1844

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.0484	ppb	0.1801	371.9	-16.7749	0.04842
Al 308.215	-0.9972	ppb	0.4130	41.4	-48.7483	-0.99724
As 188.980	2.4422	ppb	3.5669	146.0	-5.5421	2.44223
B 249.678	2.1626	ppb	0.2082	9.6	145.874	2.16256
Ba 389.178	0.4188	ppb	0.4042	96.5	-8.0493	0.41876
Be 313.042	0.0055	ppb	0.0083	151.5	-261.529	0.00551
Ca 370.602	1.804	ppb	2.681	148.6	0.9925	1.80368
Cd 226.502	0.0168	ppb	0.0155	92.4	17.3342	0.01683
Co 228.615	0.3584	ppb	0.1079	30.1	-1.8595	0.35843
Cr 267.716	0.0760	ppb	0.0916	120.5	24.7974	0.07598
Cu 324.754	-0.0013	ppb	0.0738	5693.7	125.649	-0.00130
Fe 271.441	-0.0393	ppb	4.5048	11456.8	15.5186	-0.03932
K 766.491	2.9076	ppb	0.1676	5.8	366.459	2.90761
Mg 279.078	-1.2508	ppb	2.1246	169.9	29.1346	-1.25085
Mn 257.610	0.0410	ppb	0.0212	51.8	48.2806	0.04104
Mo 202.032	-0.0677	ppb	0.1129	166.9	7.2562	-0.06766
Na 330.237	-32.2873	ppb	9.0606	28.1	42.6624	-32.28731
Ni 231.604	0.3094	ppb	0.6702	216.6	-1.8480	0.30945
Pb 220.353	1.1838	ppb	2.0899	176.5	15.7086	1.18383
Sb 206.834	3.7175	ppb	1.2845	34.6	6.5845	3.71752
Se 196.026	4.7869	ppb	3.1231	65.2	3.6671	4.78690
Sn 189.925	1.8073	ppb	0.4391	24.3	-11.1662	1.80730
Sr 216.596	-0.1216	ppb	0.0881	72.5	8.0290	-0.12158
Ti 334.941	0.1002	ppb	0.0263	26.2	-43.8596	0.10019
Tl 190.794	-1.0145	ppb	1.9104	188.3	-14.6466	-1.01451
V 292.401	0.1260	ppb	0.0525	41.7	0.1399	0.12596
Zn 206.200	0.2133	ppb	0.0435	20.4	6.8749	0.21330

680-94497-a-1-d (Samp) **9/30/2013, 5:18:26 PM** **Rack 2, Tube 15**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.0379	0.1187	0.1305
Al 308.215	8.9320	7.4965	5.9003
As 188.980	3.3749	2.3153	-0.4387u
B 249.678	19.5903	19.7760	19.9846
Ba 389.178	0.3987	0.9442	0.4550
Be 313.042	0.0192	0.0212	0.0249
Ca 370.602	17485	17479	17423
Cd 226.502	0.0275	0.0814	0.0385
Co 228.615	0.5397	0.3516	0.4652
Cr 267.716	0.2872	0.1731	0.3040
Cu 324.754	2.4221	2.2946	2.3318
Fe 271.441	31.5225	27.1749	24.9763
K 766.491	122.390	122.934	122.822
Mg 279.078	742.423	742.245	738.708
Mn 257.610	9.4275	9.4178	9.3932
Mo 202.032	29.8005	29.2495	29.8709
Na 330.237	142100x	141459x	141309x

Label	Replicates Concentration		
Ni 231.604	1.1064	0.4512	0.4924
Pb 220.353	8.3051	7.0344	6.4589
Sb 206.834	2.5685	2.6109	4.5830
Se 196.026	11.7083	7.4024	1.1489
Sn 189.925	-0.4934u	0.4527	1.2479
Sr 216.596	21.8984	22.3749	22.1698
Ti 334.941	0.0252u	0.0389	0.1183
Tl 190.794	-0.1994u	-2.4762u	-3.3605u
V 292.401	0.2097u	-0.0348u	0.3735
Zn 206.200	12.4241	12.6745	12.2839

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0957b	ppb	0.0504	52.7	-13.5779
Al 308.215	7.4430b	ppb	1.5166	20.4	3.5672
As 188.980	1.7505b	ppb	1.9686	112.5	-6.2253
B 249.678	19.7836b	ppb	0.1973	1.0	498.410
Ba 389.178	0.5993b	ppb	0.3000	50.1	-0.9558
Be 313.042	0.0218b	ppb	0.0029	13.4	-244.687
Ca 370.602	17462b	ppb	34.01	0.2	55270
Cd 226.502	0.0492b	ppb	0.0285	57.9	18.0456
Co 228.615	0.4522b	ppb	0.0947	20.9	-1.4996
Cr 267.716	0.2548b	ppb	0.0712	27.9	39.8390
Cu 324.754	2.3495b	ppb	0.0655	2.8	289.919
Fe 271.441	27.8912b	ppb	3.3313	11.9	71.3224
K 766.491	122.715b	ppb	0.2875	0.2	5519.30
Mg 279.078	741.125b	ppb	2.0954	0.3	2354.05
Mn 257.610	9.4129b	ppb	0.0177	0.2	2609.22
Mo 202.032	29.6403b	ppb	0.3403	1.1	267.570
Na 330.237	141623xb	ppb	420.155	0.3	8998.69
Ni 231.604	0.6834b	ppb	0.3670	53.7	-0.3238
Pb 220.353	7.2662b	ppb	0.9446	13.0	28.7758
Sb 206.834	3.2542b	ppb	1.1510	35.4	5.2037
Se 196.026	6.7532b	ppb	5.3095	78.6	4.6616
Sn 189.925	0.4024b	ppb	0.8717	216.6	-12.6982
Sr 216.596	22.1477b	ppb	0.2391	1.1	389.796
Ti 334.941	0.0608b	ppb	0.0502	82.6	-64.3646
Tl 190.794	-2.0120b	ppb	1.6309	81.1	-16.1833
V 292.401	0.1828b	ppb	0.2055	112.4	-5.0790
Zn 206.200	12.4608b	ppb	0.1979	1.6	29.3919

680-94506-a-4-b (Samp) **9/30/2013, 5:23:01 PM** **Rack 2, Tube 16**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.0741	0.1018	0.1325
Al 308.215	6.5431	6.1073	5.9934
As 188.980	-1.8530u	-1.5319u	1.0413
B 249.678	61.7939	62.8287	63.1972
Ba 389.178	60.2686	60.2232	59.8672
Be 313.042	0.0118	0.0138	0.0185
Ca 370.602	40321	40417	40217
Cd 226.502	1.2390	1.0697	1.1972
Co 228.615	0.4686	0.2912	0.1112
Cr 267.716	0.2205	0.1914	0.3142

Label	Replicates	Concentration	
Cu 324.754	1.9770	2.1210	2.2000
Fe 271.441	1.6630	1.2586	5.2263
K 766.491	607.371	606.348	606.841
Mg 279.078	4038.53	4026.43	4018.96
Mn 257.610	61.4558	61.4341	61.4189
Mo 202.032	0.0796	-0.1300u	-0.1892u
Na 330.237	113380x	112884x	113481x
Ni 231.604	1.0391	0.5330	0.5929
Pb 220.353	0.8730	1.2706	2.3293
Sb 206.834	-0.4859u	1.8095	3.7191
Se 196.026	-4.6450u	1.6607	5.9086
Sn 189.925	1.6308	1.2471	1.6557
Sr 216.596	73.1755	71.9636	71.9724
Ti 334.941	0.1491	0.0929	0.1474
Tl 190.794	-1.5553u	-0.3856u	-1.2691u
V 292.401	0.2737	0.0487	0.1232
Zn 206.200	162.255	165.327	163.354

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1028b	ppb	0.0292	28.4	-15.4543
Al 308.215	6.2146b	ppb	0.2901	4.7	-5.3485
As 188.980	-0.7812b	ppb	1.5865	203.1	-8.6683
B 249.678	62.6066b	ppb	0.7275	1.2	1355.37
Ba 389.178	60.1196b	ppb	0.2198	0.4	1557.58
Be 313.042	0.0147b	ppb	0.0034	23.4	-242.271
Ca 370.602	40318b	ppb	100.1	0.2	127621
Cd 226.502	1.1686b	ppb	0.0882	7.5	85.3078
Co 228.615	0.2903b	ppb	0.1787	61.5	-2.8760
Cr 267.716	0.2420b	ppb	0.0642	26.5	38.5784
Cu 324.754	2.0993b	ppb	0.1131	5.4	271.438
Fe 271.441	2.7160b	ppb	2.1834	80.4	21.0071
K 766.491	606.853b	ppb	0.5114	0.1	26341.7
Mg 279.078	4027.97b	ppb	9.8759	0.2	12647.3
Mn 257.610	61.4362b	ppb	0.0185	0.0	16821.1
Mo 202.032	-0.0799b	ppb	0.1412	176.8	7.1491
Na 330.237	113248xb	ppb	319.570	0.3	7201.95
Ni 231.604	0.7217b	ppb	0.2766	38.3	-0.1678
Pb 220.353	1.4910b	ppb	0.7528	50.5	16.3876
Sb 206.834	1.6809b	ppb	2.1055	125.3	3.1906
Se 196.026	0.9748b	ppb	5.3101	544.8	1.7588
Sn 189.925	1.5112b	ppb	0.2291	15.2	-11.4252
Sr 216.596	72.3705b	ppb	0.6972	1.0	1250.24
Ti 334.941	0.1298b	ppb	0.0320	24.6	-25.5821
Tl 190.794	-1.0700b	ppb	0.6097	57.0	-14.7736
V 292.401	0.1486b	ppb	0.1146	77.1	-0.2039
Zn 206.200	163.645b	ppb	1.5566	1.0	307.352

680-94506-a-5-b (Samp) **9/30/2013, 5:27:35 PM** **Rack 2, Tube 17**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	0.1153	0.1595	0.0411
Al 308.215	44.3939	44.6636	46.9367
As 188.980	0.2354	-2.4159u	0.2770

Label	Replicates	Concentration	
B 249.678	100.212	100.541	99.9886
Ba 389.178	57.9121	58.1204	57.8803
Be 313.042	0.0827	0.0793	0.0784
Ca 370.602	13378	13455	13481
Cd 226.502	0.3020	0.1937	0.3005
Co 228.615	0.4262	0.6222	0.6457
Cr 267.716	0.1632	0.2534	0.4313
Cu 324.754	1.0117	0.9876	0.5731
Fe 271.441	6.8507	7.1251	10.6210
K 766.491	1018.19	1015.27	1013.85
Mg 279.078	1513.11	1512.35	1506.94
Mn 257.610	320.653	321.506	320.594
Mo 202.032	-0.3884u	-0.3664u	0.0730
Na 330.237	157079x	157306x	157986x
Ni 231.604	0.5663	1.8196	0.5774
Pb 220.353	0.8485	3.6075	5.4873
Sb 206.834	2.6496	0.6096	-0.6781u
Se 196.026	2.9150	-1.0906u	-0.5678u
Sn 189.925	0.0978	0.8799	-0.3084u
Sr 216.596	32.4479	32.4032	32.7990
Ti 334.941	0.4998	0.4988	0.4530
Tl 190.794	0.1907	0.2035	-0.4620u
V 292.401	0.0013u	0.1988	-0.1145u
Zn 206.200	43.8430	42.9419	42.8921

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1053b	ppb	0.0598	56.8	-11.5517
Al 308.215	45.3314b	ppb	1.3968	3.1	230.024
As 188.980	-0.6345b	ppb	1.5429	243.2	-8.5254
B 249.678	100.247b	ppb	0.2778	0.3	2108.56
Ba 389.178	57.9709b	ppb	0.1304	0.2	1494.20
Be 313.042	0.0801b	ppb	0.0022	2.8	-115.197
Ca 370.602	13438b	ppb	53.68	0.4	42542
Cd 226.502	0.2654b	ppb	0.0621	23.4	30.7710
Co 228.615	0.5647b	ppb	0.1205	21.3	1.2431
Cr 267.716	0.2826b	ppb	0.1364	48.3	43.7702
Cu 324.754	0.8575b	ppb	0.2466	28.8	185.246
Fe 271.441	8.1989b	ppb	2.1021	25.6	31.9943
K 766.491	1015.77b	ppb	2.2114	0.2	43929.0
Mg 279.078	1510.80b	ppb	3.3635	0.2	4757.39
Mn 257.610	320.917b	ppb	0.5105	0.2	87520.7
Mo 202.032	-0.2273b	ppb	0.2603	114.5	5.8576
Na 330.237	157457xb	ppb	471.948	0.3	9999.26
Ni 231.604	0.9878b	ppb	0.7204	72.9	0.9154
Pb 220.353	3.3144b	ppb	2.3332	70.4	20.3896
Sb 206.834	0.8604b	ppb	1.6780	195.0	1.8281
Se 196.026	0.4189b	ppb	2.1775	519.9	1.5427
Sn 189.925	0.2231b	ppb	0.6040	270.7	-12.8982
Sr 216.596	32.5501b	ppb	0.2168	0.7	567.162
Ti 334.941	0.4839b	ppb	0.0268	5.5	63.3907
Tl 190.794	-0.0226b	ppb	0.3806	1683.1	-13.3681
V 292.401	0.0285b	ppb	0.1584	555.8	-4.4349
Zn 206.200	43.2256b	ppb	0.5352	1.2	85.9541

680-94506-a-6-b (Samp) **9/30/2013, 5:32:10 PM** **Rack 2, Tube 18**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.0300	0.0871	-0.0597
Al 308.215	93.7081	97.1006	97.3820
As 188.980	-2.5433u	3.0746	1.3127
B 249.678	66.1589	65.0320	65.7990
Ba 389.178	382.459	381.672	381.863
Be 313.042	0.1602	0.1637	0.1498
Ca 370.602	71184	70858	71019
Cd 226.502	2.5530	2.5102	2.4538
Co 228.615	36.7474	36.8563	37.0426
Cr 267.716	1.5221	1.4817	1.3998
Cu 324.754	9.3980	9.5912	9.5484
Fe 271.441	8378.37	8378.57	8388.69
K 766.491	1404.84	1406.91	1402.37
Mg 279.078	2409.29	2404.81	2408.13
Mn 257.610	6375.66	6375.99	6397.09
Mo 202.032	-0.4822u	-0.1731u	-0.2913u
Na 330.237	176067x	175089x	175131x
Ni 231.604	18.2955	20.0888	21.2790
Pb 220.353	102.270	100.928	96.9647
Sb 206.834	3.8639	0.7901	1.2772
Se 196.026	1.7063	6.0791	1.7026
Sn 189.925	2.3520	2.4548	1.3192
Sr 216.596	168.156	167.988	168.280
Ti 334.941	0.2674	0.1907	0.1675
Tl 190.794	6.2482	4.0782	3.7218
V 292.401	0.3626	-0.1337u	-0.3141u
Zn 206.200	599.102	596.742	605.838

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0009b	ppb	0.0776	8863.0	4.8355
Al 308.215	96.0636b	ppb	2.0447	2.1	533.763
As 188.980	0.6147b	ppb	2.8732	467.4	-7.4408
B 249.678	65.6633b	ppb	0.5756	0.9	1393.31
Ba 389.178	381.998b	ppb	0.4107	0.1	9942.70
Be 313.042	0.1579b	ppb	0.0072	4.6	73.1523
Ca 370.602	71020b	ppb	162.6	0.2	224321
Cd 226.502	2.5057b	ppb	0.0498	2.0	203.175
Co 228.615	36.8821b	ppb	0.1493	0.4	544.501
Cr 267.716	1.4679b	ppb	0.0623	4.2	156.822
Cu 324.754	9.5125b	ppb	0.1015	1.1	789.344
Fe 271.441	8381.88b	ppb	5.8995	0.1	16753.2
K 766.491	1404.70b	ppb	2.2739	0.2	60656.8
Mg 279.078	2407.41b	ppb	2.3251	0.1	7425.69
Mn 257.610	6382.91b	ppb	12.2818	0.2	1739825
Mo 202.032	-0.3155b	ppb	0.1560	49.4	4.5797
Na 330.237	175429xb	ppb	553.271	0.3	11122.4
Ni 231.604	19.8878b	ppb	1.5018	7.6	78.0733
Pb 220.353	100.054b	ppb	2.7583	2.8	231.370
Sb 206.834	1.9770b	ppb	1.6521	83.6	4.0355
Se 196.026	3.1627b	ppb	2.5257	79.9	4.4624
Sn 189.925	2.0420b	ppb	0.6281	30.8	-10.7652
Sr 216.596	168.141b	ppb	0.1465	586	2899.23

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ti 334.941	0.2085b	ppb	0.0523	25.1	-14.6997
Tl 190.794	4.6827b	ppb	1.3674	29.2	-11.1076
V 292.401	-0.0284b	ppb	0.3504	1232.6	-6.4875
Zn 206.200	600.561b	ppb	4.7203	0.8	1110.74

680-94506-a-7-b (Samp) **9/30/2013, 5:36:45 PM** **Rack 2, Tube 19**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.1165	0.1136	0.1044
Al 308.215	7.5314	7.1629	9.4285
As 188.980	0.7733	-3.4097u	0.2751
B 249.678	55.5777	55.6315	55.7285
Ba 389.178	108.698	109.540	109.582
Be 313.042	0.0100	0.0084	0.0013
Ca 370.602	113647	113707	114077
Cd 226.502	1.0813	1.0272	1.0612
Co 228.615	3.6404	3.3651	2.9592
Cr 267.716	0.1581	0.1079	0.2639
Cu 324.754	0.4616	0.1401	0.4408
Fe 271.441	3.0595	5.3914	3.0939
K 766.491	676.937	677.771	681.008
Mg 279.078	2852.23	2853.02	2856.79
Mn 257.610	354.646	354.585	355.766
Mo 202.032	-0.0504u	-0.1009u	-0.2518u
Na 330.237	148083x	147859x	148443x
Ni 231.604	1.0970	1.9471	0.7189
Pb 220.353	147.649	149.599	150.964
Sb 206.834	0.7378	9.3488	8.9750
Se 196.026	7.7055	0.6258	-3.2243u
Sn 189.925	0.4062	0.5109	0.1441
Sr 216.596	175.481	174.938	175.125
Ti 334.941	0.2887	0.2766	0.2662
Tl 190.794	-0.0978u	-1.4506u	-1.6804u
V 292.401	0.2591	0.1894	0.0987
Zn 206.200	125.448	125.206	125.094

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1115b	ppb	0.0063	5.7	-18.7207
Al 308.215	8.0409b	ppb	1.2157	15.1	5.5052
As 188.980	-0.7871b	ppb	2.2849	290.3	-8.6740
B 249.678	55.6459b	ppb	0.0764	0.1	1216.09
Ba 389.178	109.274b	ppb	0.4990	0.5	2833.30
Be 313.042	0.0066b	ppb	0.0046	70.0	-236.314
Ca 370.602	113810b	ppb	232.6	0.2	360264
Cd 226.502	1.0566b	ppb	0.0273	2.6	78.2316
Co 228.615	3.3216b	ppb	0.3427	10.3	42.4396
Cr 267.716	0.1766b	ppb	0.0796	45.1	36.9405
Cu 324.754	0.3475b	ppb	0.1799	51.8	149.852
Fe 271.441	3.8483b	ppb	1.3365	34.7	23.7255
K 766.491	678.572b	ppb	2.1503	0.3	29426.3
Mg 279.078	2854.01b	ppb	2.4404	0.1	8963.57
Mn 257.610	354.999b	ppb	0.6651	0.2	96824.6
Mo 202.032	-0.1344b	ppb	0.1048	78.7	6.6717

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Na 330.237	148128xb	ppb	294.375	0.2	9407.98
Ni 231.604	1.2543b	ppb	0.6291	50.2	1.9925
Pb 220.353	149.404b	ppb	1.6663	1.1	335.351
Sb 206.834	6.3539b	ppb	4.8672	76.6	10.9809
Se 196.026	1.7023b	ppb	5.5439	325.7	2.1987
Sn 189.925	0.3537b	ppb	0.1889	53.4	-12.6966
Sr 216.596	175.182b	ppb	0.2757	0.2	3014.67
Ti 334.941	0.2771b	ppb	0.0112	4.1	9.3743
Tl 190.794	-1.0763b	ppb	0.8551	79.5	-14.9727
V 292.401	0.1824b	ppb	0.0804	44.1	0.5224
Zn 206.200	125.249b	ppb	0.1808	0.1	236.760

680-94506-a-8-b (Samp) **9/30/2013, 5:41:20 PM** **Rack 2, Tube 20**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.0187u	0.0532	0.1788
Al 308.215	18.2996	18.8336	15.5396
As 188.980	-1.3139u	-1.0819u	0.1995
B 249.678	71.2331	71.4435	71.1851
Ba 389.178	50.8345	50.2574	50.9616
Be 313.042	0.0459	0.0378	0.0467
Ca 370.602	14344	14291	14318
Cd 226.502	0.0498	0.2561	0.1286
Co 228.615	-0.0147u	-0.4149u	0.3337
Cr 267.716	0.3390	0.4931	0.3543
Cu 324.754	0.3135	0.6211	0.6352
Fe 271.441	-1.2158u	0.5205	2.7091
K 766.491	656.363	655.477	659.031
Mg 279.078	1035.41	1036.35	1033.15
Mn 257.610	25.2477	25.1996	25.1781
Mo 202.032	0.2713	-0.0331u	0.2820
Na 330.237	130190x	131027x	130766x
Ni 231.604	0.0041	0.1867	1.4036
Pb 220.353	-0.6609u	2.4422	2.2464
Sb 206.834	0.1844	1.5504	-0.7763u
Se 196.026	6.4501	-0.1423u	9.9595
Sn 189.925	-0.9732u	-1.1092u	0.4899
Sr 216.596	44.8812	44.8273	44.7738
Ti 334.941	0.0827	0.0614	0.0710
Tl 190.794	-0.2007u	-1.2669u	-0.6081u
V 292.401	0.0302u	-0.1135u	0.3559
Zn 206.200	28.4281	29.2849	28.8283

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0711b	ppb	0.1000	140.7	-17.0190
Al 308.215	17.5576b	ppb	1.7679	10.1	62.9439
As 188.980	-0.7321b	ppb	0.8151	111.3	-8.6206
B 249.678	71.2872b	ppb	0.1375	0.2	1529.08
Ba 389.178	50.6845b	ppb	0.3753	0.7	1303.16
Be 313.042	0.0435b	ppb	0.0049	11.3	-191.525
Ca 370.602	14318b	ppb	26.01	0.2	45317
Cd 226.502	0.1448b	ppb	0.1041	71.9	23.7707
Co 228.615	-0.0320b	ppb	0.3746	1170.8	-7.7033

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Cr 267.716	0.3955b	ppb	0.0849	21.5	48.6275
Cu 324.754	0.5233b	ppb	0.1818	34.7	162.066
Fe 271.441	0.6713b	ppb	1.9668	293.0	16.8780
K 766.491	656.957b	ppb	1.8499	0.3	28496.7
Mg 279.078	1034.97b	ppb	1.6477	0.2	3274.00
Mn 257.610	25.2085b	ppb	0.0357	0.1	6917.31
Mo 202.032	0.1734b	ppb	0.1789	103.2	9.3690
Na 330.237	130661xb	ppb	428.346	0.3	8305.36
Ni 231.604	0.5315b	ppb	0.7608	143.1	-0.9421
Pb 220.353	1.3426b	ppb	1.7378	129.4	16.0570
Sb 206.834	0.3195b	ppb	1.1692	366.0	0.9175
Se 196.026	5.4224b	ppb	5.1287	94.6	3.9940
Sn 189.925	-0.5308b	ppb	0.8866	167.0	-13.7786
Sr 216.596	44.8274b	ppb	0.0537	0.1	776.604
Ti 334.941	0.0717b	ppb	0.0107	14.9	-58.7669
Tl 190.794	-0.6919b	ppb	0.5380	77.8	-14.1780
V 292.401	0.0909b	ppb	0.2405	264.7	-2.3024
Zn 206.200	28.8471b	ppb	0.4287	1.5	59.5180

680-94506-a-9-b (Samp) **9/30/2013, 5:45:56 PM** **Rack 2, Tube 21**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.0144u	-0.0438u	0.2820
Al 308.215	17.9839	19.7196	20.8957
As 188.980	1.4696	0.6467	0.0839
B 249.678	45.7446	46.3470	46.6290
Ba 389.178	95.4532	95.5231	95.3535
Be 313.042	0.0385	0.0293	0.0414
Ca 370.602	48604	48734	48934
Cd 226.502	0.2050	0.0906	0.2408
Co 228.615	-0.1485u	0.0719	0.1234
Cr 267.716	0.4010	0.2453	0.4311
Cu 324.754	3.7432	4.2018	3.9299
Fe 271.441	4.6319	3.0901	9.4530
K 766.491	822.454	821.694	822.025
Mg 279.078	1944.22	1946.51	1947.87
Mn 257.610	99.5573	99.9707	100.212
Mo 202.032	-0.1286u	0.2029	0.3308
Na 330.237	147567x	147605x	147224x
Ni 231.604	0.4488	0.2533	0.7165
Pb 220.353	1.4083	2.4965	-0.2932u
Sb 206.834	6.9449	1.5265	-1.4027u
Se 196.026	2.0754	-5.1930u	-2.4145u
Sn 189.925	-0.3605u	3.1528	-0.1811u
Sr 216.596	105.920	106.584	107.046
Ti 334.941	0.1329	0.1573	0.1625
Tl 190.794	-3.4598u	-1.9226u	-2.1755u
V 292.401	0.1604	0.1717	0.3507
Zn 206.200	25.6753	25.3318	25.9781

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0746b	ppb	0.1802	241.5	-19.6882
Al 308.215	19.5330b	ppb	1.4648	7.5	74.8001

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	0.7334b	ppb	0.6969	95.0	-7.1993
B 249.678	46.2402b	ppb	0.4518	1.0	1027.88
Ba 389.178	95.4433b	ppb	0.0853	0.1	2470.69
Be 313.042	0.0364b	ppb	0.0063	17.4	-196.182
Ca 370.602	48757b	ppb	166.3	0.3	154335
Cd 226.502	0.1788b	ppb	0.0784	43.9	25.6703
Co 228.615	0.0156b	ppb	0.1444	926.6	-6.9895
Cr 267.716	0.3591b	ppb	0.0997	27.8	47.1553
Cu 324.754	3.9583b	ppb	0.2306	5.8	400.458
Fe 271.441	5.7250b	ppb	3.3194	58.0	26.9763
K 766.491	822.058b	ppb	0.3809	0.0	35597.5
Mg 279.078	1946.20b	ppb	1.8468	0.1	6126.23
Mn 257.610	99.9133b	ppb	0.3310	0.3	27288.2
Mo 202.032	0.1350b	ppb	0.2371	175.6	9.0320
Na 330.237	147466xb	ppb	209.863	0.1	9367.89
Ni 231.604	0.4729b	ppb	0.2325	49.2	-1.1809
Pb 220.353	1.2039b	ppb	1.4060	116.8	15.7787
Sb 206.834	2.3562b	ppb	4.2352	179.7	4.3145
Se 196.026	-1.8441b	ppb	3.6676	198.9	0.3460
Sn 189.925	0.8704b	ppb	1.9786	227.3	-12.1393
Sr 216.596	106.516b	ppb	0.5657	0.5	1833.79
Ti 334.941	0.1509b	ppb	0.0158	10.5	-32.3877
Tl 190.794	-2.5193b	ppb	0.8243	32.7	-16.9937
V 292.401	0.2276b	ppb	0.1068	46.9	1.8900
Zn 206.200	25.6617b	ppb	0.3233	1.3	53.6616

680-94506-a-10-b (Samp) **9/30/2013, 5:50:32 PM** **Rack 2, Tube 22**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.0785u	0.1980	0.1390
Al 308.215	20.9429	22.3530	19.0742
As 188.980	16.0637	12.0705	12.8928
B 249.678	75.2019	75.0119	75.9052
Ba 389.178	98.7796	98.8318	99.7626
Be 313.042	0.0329	0.0291	0.0322
Ca 370.602	17502	17437	17339
Cd 226.502	6.1992	6.2283	6.1599
Co 228.615	2.8074	2.2154	2.5623
Cr 267.716	0.0948	0.3235	0.3430
Cu 324.754	4.8362	4.9629	5.2623
Fe 271.441	-0.1879	7.1918	5.3965
K 766.491	622.254	626.464	626.977
Mg 279.078	821.459	822.404	828.558
Mn 257.610	205.090	204.832	204.805
Mo 202.032	-0.0287u	0.0356	-0.1996u
Na 330.237	185111x	186318x	186239x
Ni 231.604	8.7476	8.5062	7.6092
Pb 220.353	3868.98	3861.61	3859.71
Sb 206.834	322.324	322.535	320.606
Se 196.026	3.5071	3.7645	-2.8999u
Sn 189.925	2.1137	0.4500	-3.6602u
Sr 216.596	51.8796	51.8907	52.3336
Ti 334.941	0.1058	0.0339u	0.0675

Label	Replicates Concentration		
Tl 190.794	-1.3676u	-2.2940u	-0.4989u
V 292.401	-0.4353u	0.2065	-0.2152u
Zn 206.200	2846.07	2845.68	2854.72

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0862b	ppb	0.1457	169.0	-15.0098
Al 308.215	20.7900b	ppb	1.6448	7.9	82.3129
As 188.980	13.6757b	ppb	2.1085	15.4	5.3532
B 249.678	75.3730b	ppb	0.4706	0.6	1610.83
Ba 389.178	99.1247b	ppb	0.5531	0.6	2563.17
Be 313.042	0.0314b	ppb	0.0020	6.5	-225.557
Ca 370.602	17426b	ppb	81.79	0.5	55161
Cd 226.502	6.1958b	ppb	0.0343	0.6	385.619
Co 228.615	2.5284b	ppb	0.2975	11.8	30.5775
Cr 267.716	0.2538b	ppb	0.1380	54.4	41.8273
Cu 324.754	5.0205b	ppb	0.2188	4.4	474.171
Fe 271.441	4.1335b	ppb	3.8486	93.1	24.1725
K 766.491	625.232b	ppb	2.5912	0.4	27132.2
Mg 279.078	824.140b	ppb	3.8551	0.5	2609.47
Mn 257.610	204.909b	ppb	0.1571	0.1	55894.4
Mo 202.032	-0.0642b	ppb	0.1216	189.3	7.2870
Na 330.237	185890xb	ppb	675.166	0.4	11746.2
Ni 231.604	8.2877b	ppb	0.5999	7.2	30.6560
Pb 220.353	3863.43b	ppb	4.8978	0.1	8342.36
Sb 206.834	321.822b	ppb	1.0582	0.3	536.883
Se 196.026	1.4572b	ppb	3.7756	259.1	2.0378
Sn 189.925	-0.3655b	ppb	2.9721	813.1	-13.5583
Sr 216.596	52.0346b	ppb	0.2590	0.5	899.788
Ti 334.941	0.0691b	ppb	0.0359	52.0	-65.3411
Tl 190.794	-1.3868b	ppb	0.8977	64.7	-15.3424
V 292.401	-0.1480b	ppb	0.3261	220.3	-10.3358
Zn 206.200	2848.82b	ppb	5.1122	0.2	5244.20

680-94506-a-11-b (Samp) **9/30/2013, 5:55:08 PM** **Rack 2, Tube 23**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.2382u	-0.0228u	0.1920
Al 308.215	7.6991	6.3182	7.8012
As 188.980	0.6274	3.4506	0.5165
B 249.678	46.8580	46.4660	46.1078
Ba 389.178	95.0743	95.5924	94.7895
Be 313.042	0.0228	0.0146	0.0050
Ca 370.602	32966	32937	32934
Cd 226.502	0.1655	0.1103	0.2370
Co 228.615	0.1216	0.3442	0.0144
Cr 267.716	0.4049	0.4998	0.1552
Cu 324.754	0.5566	0.5935	0.7068
Fe 271.441	-0.6396u	-0.3787u	9.4647
K 766.491	752.005	751.516	752.154
Mg 279.078	4998.69	4989.57	4992.77
Mn 257.610	44.2020	44.0588	44.0395
Mo 202.032	-0.0356u	-0.5119u	0.1754
Na 330.237	156893x	156156x	157080x

Label	Replicates Concentration		
Ni 231.604	0.4263	0.9176	0.8256
Pb 220.353	1.8645	1.8331	2.1442
Sb 206.834	5.6510	1.3735	4.3562
Se 196.026	1.3108	-1.4407u	1.7190
Sn 189.925	-1.2172u	-0.0975u	-1.0324u
Sr 216.596	61.2410	60.7898	59.6697
Ti 334.941	0.0955	0.0168	0.0049
Tl 190.794	-3.7136u	-1.1235u	-3.5372u
V 292.401	0.4012	0.0321u	0.2673
Zn 206.200	29.2511	27.9509	27.9770

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0230b	ppb	0.2151	936.0	-26.5978
Al 308.215	7.2728b	ppb	0.8283	11.4	1.0102
As 188.980	1.5315b	ppb	1.6629	108.6	-6.4252
B 249.678	46.4773b	ppb	0.3752	0.8	1032.63
Ba 389.178	95.1520b	ppb	0.4071	0.4	2472.13
Be 313.042	0.0141b	ppb	0.0089	63.2	-252.575
Ca 370.602	32945b	ppb	17.72	0.1	104283
Cd 226.502	0.1709b	ppb	0.0635	37.2	25.1645
Co 228.615	0.1601b	ppb	0.1682	105.1	-4.8220
Cr 267.716	0.3533b	ppb	0.1780	50.4	46.6970
Cu 324.754	0.6190b	ppb	0.0783	12.7	168.694
Fe 271.441	2.8155b	ppb	5.7599	204.6	21.1868
K 766.491	751.892b	ppb	0.3340	0.0	32579.7
Mg 279.078	4993.68b	ppb	4.6299	0.1	15672.3
Mn 257.610	44.1001b	ppb	0.0888	0.2	12104.9
Mo 202.032	-0.1240b	ppb	0.3520	283.8	6.7621
Na 330.237	156710xb	ppb	488.545	0.3	9952.28
Ni 231.604	0.7232b	ppb	0.2611	36.1	-0.1615
Pb 220.353	1.9472b	ppb	0.1712	8.8	17.3664
Sb 206.834	3.7936b	ppb	2.1936	57.8	6.7145
Se 196.026	0.5297b	ppb	1.7186	324.4	1.5300
Sn 189.925	-0.7824b	ppb	0.6003	76.7	-14.0439
Sr 216.596	60.5668b	ppb	0.8090	1.3	1047.85
Ti 334.941	0.0390b	ppb	0.0492	126.1	-51.6579
Tl 190.794	-2.7914b	ppb	1.4471	51.8	-17.3658
V 292.401	0.2335b	ppb	0.1869	80.0	2.0774
Zn 206.200	28.3930b	ppb	0.7432	2.6	58.6832

680-94506-a-12-b (Samp) **9/30/2013, 5:59:44 PM** **Rack 2, Tube 24**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.2116	0.1654	0.1024
Al 308.215	9.3112	9.4712	6.8409
As 188.980	1.1930	2.8632	1.7934
B 249.678	58.3638	57.2414	57.5828
Ba 389.178	80.9912	79.8809	80.5700
Be 313.042	0.0108	0.0173	0.0155
Ca 370.602	10589	10585	10569
Cd 226.502	0.0817	0.1514	0.0169u
Co 228.615	0.4854	-0.2171u	-0.1715u
Cr 267.716	0.8465	0.8073	0.6867

Label	Replicates	Concentration	
Cu 324.754	0.3771	0.6150	0.3092
Fe 271.441	4.7134	5.9554	2.6671
K 766.491	777.092	775.200	780.715
Mg 279.078	868.900	866.733	862.991
Mn 257.610	4.0688	4.0407	4.0377
Mo 202.032	-0.4222u	0.3479	-0.4897u
Na 330.237	131365x	131163x	131041x
Ni 231.604	0.7144	-0.1203u	0.2293
Pb 220.353	5.4745	4.4664	4.3164
Sb 206.834	6.0214	2.5301	3.6491
Se 196.026	-2.4318u	9.7351	3.4688
Sn 189.925	-0.3781u	1.5807	1.3574
Sr 216.596	72.7950	72.4867	72.2759
Ti 334.941	0.0932	0.0402	0.0819
Tl 190.794	0.2437	0.0346	0.4755
V 292.401	0.3062	0.2246	0.2266
Zn 206.200	41.5041	41.5852	39.6796

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1598b	ppb	0.0548	34.3	-10.3819
Al 308.215	8.5411b	ppb	1.4746	17.3	8.6451
As 188.980	1.9498b	ppb	0.8460	43.4	-6.0195
B 249.678	57.7294b	ppb	0.5754	1.0	1257.78
Ba 389.178	80.4807b	ppb	0.5605	0.7	2078.10
Be 313.042	0.0145b	ppb	0.0033	23.0	-256.481
Ca 370.602	10581b	ppb	10.24	0.1	33489
Cd 226.502	0.0833b	ppb	0.0673	80.7	20.0819
Co 228.615	0.0323b	ppb	0.3931	1217.8	-6.7324
Cr 267.716	0.7802b	ppb	0.0833	10.7	73.0958
Cu 324.754	0.4338b	ppb	0.1606	37.0	155.843
Fe 271.441	4.4453b	ppb	1.6605	37.4	24.4249
K 766.491	777.669b	ppb	2.8024	0.4	33688.4
Mg 279.078	866.208b	ppb	2.9890	0.3	2745.93
Mn 257.610	4.0491b	ppb	0.0172	0.4	1148.37
Mo 202.032	-0.1880b	ppb	0.4653	247.5	6.2016
Na 330.237	131190xb	ppb	163.429	0.1	8338.55
Ni 231.604	0.2745b	ppb	0.4192	152.7	-1.9894
Pb 220.353	4.7524b	ppb	0.6298	13.3	23.4032
Sb 206.834	4.0669b	ppb	1.7828	43.8	7.1764
Se 196.026	3.5907b	ppb	6.0843	169.4	3.0645
Sn 189.925	0.8533b	ppb	1.0723	125.7	-12.1887
Sr 216.596	72.5192b	ppb	0.2611	0.4	1248.21
Ti 334.941	0.0718b	ppb	0.0279	38.9	-59.6040
Tl 190.794	0.2513b	ppb	0.2206	87.8	-12.7360
V 292.401	0.2525b	ppb	0.0466	18.5	2.8366
Zn 206.200	40.9230b	ppb	1.0776	2.6	81.7184

Cont Calib Verif (CCV) **9/30/2013, 6:04:20 PM** **Rack 2, Tube 25**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	482.617	480.867	483.269
Al 308.215	4939.20	4930.09	4951.00
As 188.980	481.301	476.930	487.348

Label	Replicates Concentration		
B 249.678	477.942	478.967	481.768
Ba 389.178	4978.13	4963.66	4970.85
Be 313.042	486.413	482.908	483.454
Ca 370.602	5126	5108	5131
Cd 226.502	489.833	488.714	490.621
Co 228.615	490.259	489.504	491.045
Cr 267.716	4952.76	4947.84	4954.56
Cu 324.754	5098.75	5057.88	5037.92
Fe 271.441	4749.46	4743.36	4753.62
K 766.491	10073.7	10056.3	10038.5
Mg 279.078	4838.76	4826.72	4839.46
Mn 257.610	5072.87	5040.28	5079.17
Mo 202.032	502.916	500.575	501.959
Na 330.237	6788.99	6980.06	6907.26
Ni 231.604	2453.81	2455.13	2465.78
Pb 220.353	498.755	500.136	499.475
Sb 206.834	1002.26	989.294	1003.19
Se 196.026	5121.66	5137.82	5179.06
Sn 189.925	4977.63	4932.80	4948.60
Sr 216.596	2509.94	2508.53	2516.68
Ti 334.941	491.542	490.663	491.157
Tl 190.794	5043.87	5024.80	5062.65
V 292.401	4895.96	4890.74	4886.67
Zn 206.200	2451.62	2441.00	2480.41

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	482.251	ppb	1.2425	0.3	44644.2	96.45021
Al 308.215	4940.10	ppb	10.4860	0.2	28869.6	98.80194
As 188.980	481.859	ppb	5.2316	1.1	459.222	96.37190
B 249.678	479.559	ppb	1.9804	0.4	9685.33	95.91181
Ba 389.178	4970.88	ppb	7.2352	0.1	129383	99.41754
Be 313.042	484.258	ppb	1.8856	0.4	1062507	96.85166
Ca 370.602	5122	ppb	12.25	0.2	16271	102.43951
Cd 226.502	489.722	ppb	0.9585	0.2	29359.4	97.94450
Co 228.615	490.269	ppb	0.7705	0.2	7334.32	98.05381
Cr 267.716	4951.72	ppb	3.4797	0.1	316254	99.03442
Cu 324.754	5064.85	ppb	31.0041	0.6	351588	101.29699
Fe 271.441	4748.81	ppb	5.1595	0.1	9622.56	94.97624
K 766.491	10056.2	ppb	17.5608	0.2	432749	100.56155
Mg 279.078	4834.98	ppb	7.1643	0.1	15057.1	96.69959
Mn 257.610	5064.11	ppb	20.8740	0.4	1380382	101.28216
Mo 202.032	501.817	ppb	1.1772	0.2	4393.56	100.36334
Na 330.237	6892.10	ppb	96.4359	1.4	432.458	91.89469
Ni 231.604	2458.24	ppb	6.5649	0.3	10011.4	98.32968
Pb 220.353	499.455	ppb	0.6907	0.1	1090.26	99.89104
Sb 206.834	998.249	ppb	7.7688	0.8	1735.03	99.82487
Se 196.026	5146.18	ppb	29.5998	0.6	2599.12	102.92361
Sn 189.925	4953.01	ppb	22.7352	0.5	5682.01	99.06021
Sr 216.596	2511.72	ppb	4.3551	0.2	42767.4	100.46869
Ti 334.941	491.120	ppb	0.4404	0.1	145586	98.22408
Tl 190.794	5043.77	ppb	18.9218	0.4	7617.87	100.87543
V 292.401	4891.12	ppb	4.6538	0.1	154467	97.82248
Zn 206.200	2457.68	ppb	20.3933	0.8	4502.71	98.30702

Cont Calib Blank (CCB) **9/30/2013, 6:08:55 PM** **Rack 2, Tube 26**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.4063	0.1124	0.1005
Al 308.215	1.9513	1.1727	0.0992
As 188.980	4.6632	2.1441	-0.5078u
B 249.678	1.3370	1.6209	1.1641
Ba 389.178	-0.2145u	0.6239	0.6344
Be 313.042	0.0033	0.0025	0.0043
Ca 370.602	3.381	3.793	-1.449u
Cd 226.502	0.0282	-0.1550u	-0.0473u
Co 228.615	0.1755	0.5116	0.3010
Cr 267.716	0.0229	0.0515	0.0102
Cu 324.754	-0.1092u	0.1945	-0.2285u
Fe 271.441	-3.3358u	5.6083	-0.6417u
K 766.491	2.6136	2.2615	2.2755
Mg 279.078	1.3235	-2.0036u	-0.3323u
Mn 257.610	-0.0036u	0.0148	0.0402
Mo 202.032	-0.0242u	0.2440	0.4235
Na 330.237	-66.2606u	-124.289u	-98.4396u
Ni 231.604	0.6271	-0.0992u	1.1098
Pb 220.353	0.2114	0.8680	-0.8213u
Sb 206.834	2.6477	0.5259	5.0977
Se 196.026	8.4990	-0.2382u	2.0133
Sn 189.925	3.8148	1.4671	1.1292
Sr 216.596	0.0467	-0.1421u	0.0265
Ti 334.941	0.1451	0.0997	0.0877
Tl 190.794	3.7504	-0.6053u	2.9789
V 292.401	-0.0501u	-0.3087u	0.0461
Zn 206.200	-0.4939u	-0.3656u	-1.2169u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.2064	ppb	0.1732	83.9	-2.1485	0.20643
Al 308.215	1.0744	ppb	0.9300	86.6	-36.2273	1.07440
As 188.980	2.0999	ppb	2.5858	123.1	-5.8742	2.09985
B 249.678	1.3740	ppb	0.2306	16.8	130.106	1.37401
Ba 389.178	0.3479	ppb	0.4871	140.0	-9.8951	0.34794
Be 313.042	0.0034	ppb	0.0009	26.7	-266.304	0.00335
Ca 370.602	1.908	ppb	2.915	152.7	1.629	1.90839
Cd 226.502	-0.0580	ppb	0.0920	158.6	12.8338	-0.05804
Co 228.615	0.3294	ppb	0.1699	51.6	-2.3055	0.32938
Cr 267.716	0.0282	ppb	0.0212	75.0	21.7478	0.02820
Cu 324.754	-0.0477	ppb	0.2181	457.0	122.439	-0.04773
Fe 271.441	0.5436	ppb	4.5884	844.1	16.6754	0.54361
K 766.491	2.3835	ppb	0.1994	8.4	343.919	2.38354
Mg 279.078	-0.3375	ppb	1.6635	492.9	31.9941	-0.33747
Mn 257.610	0.0171	ppb	0.0220	128.3	41.7532	0.01711
Mo 202.032	0.2145	ppb	0.2253	105.1	9.7289	0.21445
Na 330.237	-96.3298	ppb	29.0718	30.2	38.6212	-96.32980
Ni 231.604	0.5459	ppb	0.6086	111.5	-0.8845	0.54591
Pb 220.353	0.0860	ppb	0.8516	989.9	13.3409	0.08603
Sb 206.834	2.7571	ppb	2.2879	83.0	4.9756	2.75709
Se 196.026	3.4247	ppb	4.5364	132.5	2.9797	3.42472
Sn 189.925	2.1370	ppb	1.4628	68.5	-10.7871	2.13702
Sr 216.596	-0.0230	ppb	0.1036	450.5	9.6891	-0.02298

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ti 334.941	0.1108	ppb	0.0303	27.3	-40.6983	0.11084
Tl 190.794	2.0413	ppb	2.3243	113.9	-10.0243	2.04134
V 292.401	-0.1042	ppb	0.1835	176.1	-7.2030	-0.10421
Zn 206.200	-0.6922	ppb	0.4590	66.3	5.2103	-0.69216

680-94506-a-13-b (Samp) **9/30/2013, 6:13:30 PM** **Rack 2, Tube 27**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.1049	0.1215	0.2080
Al 308.215	3.7249	4.3603	2.6964
As 188.980	-0.2875u	1.7569	-0.9750u
B 249.678	36.4548	36.9727	37.1030
Ba 389.178	95.7542	95.7556	94.7841
Be 313.042	0.0092	0.0097	0.0040
Ca 370.602	36937	37041	37014
Cd 226.502	2.0179	1.9485	1.8364
Co 228.615	0.2297	0.1141	-0.2756u
Cr 267.716	0.3155	0.1947	0.2186
Cu 324.754	5.2081	5.2822	5.1264
Fe 271.441	1.2808	2.1456	-1.6812u
K 766.491	746.254	746.392	747.903
Mg 279.078	853.606	857.077	856.908
Mn 257.610	10.3053	10.3725	10.2782
Mo 202.032	0.2172	0.0893	0.2294
Na 330.237	155704x	155246x	155888x
Ni 231.604	1.7195	1.0196	1.0194
Pb 220.353	5.2190	2.4439	4.5253
Sb 206.834	18.1925	16.8576	15.8673
Se 196.026	4.5237	0.0742	-1.7655u
Sn 189.925	1.0031	-0.7091u	1.9374
Sr 216.596	85.1004	84.9163	85.4338
Ti 334.941	0.1105	0.1170	0.0918
Tl 190.794	-2.1150u	1.5002	-2.2737u
V 292.401	0.0972	0.1586	0.1844
Zn 206.200	29.5907	32.3437	31.7082

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1448b	ppb	0.0554	38.2	-12.4571
Al 308.215	3.5938b	ppb	0.8397	23.4	-21.0915
As 188.980	0.1648b	ppb	1.4210	862.2	-7.7509
B 249.678	36.8435b	ppb	0.3428	0.9	839.859
Ba 389.178	95.4313b	ppb	0.5605	0.6	2467.15
Be 313.042	0.0076b	ppb	0.0032	41.5	-264.952
Ca 370.602	36997b	ppb	53.59	0.1	117108
Cd 226.502	1.9342b	ppb	0.0916	4.7	130.654
Co 228.615	0.0228b	ppb	0.2648	1163.4	-6.8852
Cr 267.716	0.2429b	ppb	0.0640	26.3	39.4063
Cu 324.754	5.2055b	ppb	0.0779	1.5	487.020
Fe 271.441	0.5817b	ppb	2.0069	345.0	16.7098
K 766.491	746.850b	ppb	0.9149	0.1	32362.9
Mg 279.078	855.864b	ppb	1.9567	0.2	2713.39
Mn 257.610	10.3187b	ppb	0.0485	0.5	2857.35
Mo 202.032	0.1786b	ppb	0.0776	43.6	9.4145

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Na 330.237	155613xb	ppb	330.268	0.2	9882.88
Ni 231.604	1.2528b	ppb	0.4042	32.3	1.9969
Pb 220.353	4.0628b	ppb	1.4442	35.5	21.9173
Sb 206.834	16.9725b	ppb	1.1669	6.9	28.6772
Se 196.026	0.9441b	ppb	3.2336	342.5	1.7306
Sn 189.925	0.7438b	ppb	1.3422	180.5	-12.2873
Sr 216.596	85.1502b	ppb	0.2623	0.3	1467.62
Ti 334.941	0.1065b	ppb	0.0131	12.3	-51.5071
Tl 190.794	-0.9628b	ppb	2.1345	221.7	-14.5768
V 292.401	0.1467b	ppb	0.0448	30.5	-0.7629
Zn 206.200	31.2142b	ppb	1.4414	4.6	63.8706

680-94506-a-14-b (Samp) **9/30/2013, 6:18:05 PM** **Rack 2, Tube 28**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	0.3925	0.0672	0.1012
Al 308.215	3.4805	4.4742	4.6271
As 188.980	1.1706	2.6093	0.2404
B 249.678	43.9377	43.8642	43.9801
Ba 389.178	31.2163	30.7935	30.4752
Be 313.042	0.0153	0.0143	0.0093
Ca 370.602	21676	21794	21881
Cd 226.502	-0.0950u	-0.0168u	0.0728
Co 228.615	0.2158	0.3897	-0.2550u
Cr 267.716	0.3351	0.1873	0.1678
Cu 324.754	0.5331	0.7439	0.9566
Fe 271.441	1.0837	-1.0573u	-2.9957u
K 766.491	967.893	966.740	964.877
Mg 279.078	1070.40	1065.50	1064.84
Mn 257.610	1.8002	1.8486	1.8034
Mo 202.032	-0.1059u	-0.6191u	0.1711
Na 330.237	134617x	135621x	135288x
Ni 231.604	-0.1078u	0.2968	0.2013
Pb 220.353	-0.5377u	0.7800	0.2259
Sb 206.834	0.5132	0.6424	2.0412
Se 196.026	8.3218	0.3892	4.1705
Sn 189.925	-1.7425u	0.0183	-0.2189u
Sr 216.596	38.9060	39.5856	39.2613
Ti 334.941	0.1486	0.1536	0.0423
Tl 190.794	-5.8345u	-2.4877u	-2.8608u
V 292.401	0.1207	0.1889	0.2652
Zn 206.200	3.8906	3.2476	5.0942

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1870b	ppb	0.1788	95.6	-6.1122
Al 308.215	4.1939b	ppb	0.6225	14.8	-17.5077
As 188.980	1.3401b	ppb	1.1936	89.1	-6.6109
B 249.678	43.9273b	ppb	0.0587	0.1	981.606
Ba 389.178	30.8283b	ppb	0.3718	1.2	786.502
Be 313.042	0.0130b	ppb	0.0032	24.8	-256.159
Ca 370.602	21784b	ppb	102.8	0.5	68950
Cd 226.502	-0.0130b	ppb	0.0840	646.9	14.2721
Co 228.615	0.1168b	ppb	0.3336	285.7	-5.4674

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Cr 267.716	0.2301b	ppb	0.0915	39.8	38.0485
Cu 324.754	0.7445b	ppb	0.2118	28.4	177.407
Fe 271.441	-0.9898b	ppb	2.0405	206.2	13.5835
K 766.491	966.503b	ppb	1.5219	0.2	41810.0
Mg 279.078	1066.91b	ppb	3.0338	0.3	3374.60
Mn 257.610	1.8174b	ppb	0.0271	1.5	542.175
Mo 202.032	-0.1846b	ppb	0.4009	217.2	6.2313
Na 330.237	135175xb	ppb	511.550	0.4	8591.19
Ni 231.604	0.1301b	ppb	0.2115	162.6	-2.5780
Pb 220.353	0.1560b	ppb	0.6616	424.0	13.4931
Sb 206.834	1.0656b	ppb	0.8474	79.5	2.1648
Se 196.026	4.2938b	ppb	3.9677	92.4	3.4187
Sn 189.925	-0.6477b	ppb	0.9555	147.5	-13.9064
Sr 216.596	39.2509b	ppb	0.3399	0.9	682.725
Ti 334.941	0.1148b	ppb	0.0629	54.8	-46.2257
Tl 190.794	-3.7276b	ppb	1.8341	49.2	-18.7527
V 292.401	0.1916b	ppb	0.0723	37.7	0.9137
Zn 206.200	4.0775b	ppb	0.9374	23.0	13.9784

680-94506-a-15-b (Samp) **9/30/2013, 6:22:40 PM** **Rack 2, Tube 29**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.0214u	0.0059u	0.0683
Al 308.215	4.5489	3.2666	3.8918
As 188.980	-1.6861u	1.5248	-2.2042u
B 249.678	34.0077	34.2001	33.9032
Ba 389.178	137.161	137.405	137.536
Be 313.042	0.0126	0.0042u	0.0105
Ca 370.602	35107	34771	34757
Cd 226.502	6.6514	6.7414	6.7545
Co 228.615	0.4393	0.5166	0.0989
Cr 267.716	0.4706	0.4556	0.6187
Cu 324.754	6.3574	6.4175	6.4249
Fe 271.441	17.2351	18.7452	15.6065
K 766.491	804.898	801.012	803.367
Mg 279.078	774.461	766.823	771.071
Mn 257.610	0.4178	0.4064	0.4647
Mo 202.032	-0.0733u	0.4020	-0.0809u
Na 330.237	171324x	170903x	170767x
Ni 231.604	1.8556	0.3609	0.3046
Pb 220.353	1.9329	1.1748	4.1925
Sb 206.834	7.1993	7.5910	5.7057
Se 196.026	9.8050	3.0249	8.3242
Sn 189.925	0.4955	0.9260	0.6014
Sr 216.596	45.8157	45.2254	45.2208
Ti 334.941	0.1604	0.1250	0.0840
Tl 190.794	-5.6996u	-1.1145u	2.3068
V 292.401	0.3779	0.2397	-0.1105u
Zn 206.200	161.018	159.709	160.872

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0176b	ppb	0.0460	261.8	-22.1915
Al 308.215	3.9025b	ppb	0.6412	16.4	-19.2582

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	-0.7885b	ppb	2.0201	256.2	-8.6757
B 249.678	34.0370b	ppb	0.1506	0.4	783.654
Ba 389.178	137.367b	ppb	0.1903	0.1	3558.29
Be 313.042	0.0091b	ppb	0.0043	47.6	-264.576
Ca 370.602	34878b	ppb	198.3	0.6	110399
Cd 226.502	6.7158b	ppb	0.0561	0.8	416.863
Co 228.615	0.3516b	ppb	0.2222	63.2	-1.9642
Cr 267.716	0.5150b	ppb	0.0902	17.5	57.0546
Cu 324.754	6.3999b	ppb	0.0370	0.6	569.915
Fe 271.441	17.1956b	ppb	1.5698	9.1	49.9232
K 766.491	803.093b	ppb	1.9575	0.2	34781.8
Mg 279.078	770.785b	ppb	3.8272	0.5	2447.16
Mn 257.610	0.4296b	ppb	0.0309	7.2	161.063
Mo 202.032	0.0826b	ppb	0.2766	334.8	8.5722
Na 330.237	170998xb	ppb	290.681	0.2	10853.3
Ni 231.604	0.8404b	ppb	0.8797	104.7	0.3159
Pb 220.353	2.4334b	ppb	1.5699	64.5	18.4035
Sb 206.834	6.8320b	ppb	0.9949	14.6	11.7794
Se 196.026	7.0514b	ppb	3.5648	50.6	4.8098
Sn 189.925	0.6743b	ppb	0.2243	33.3	-12.3601
Sr 216.596	45.4206b	ppb	0.3421	0.8	789.991
Ti 334.941	0.1231b	ppb	0.0382	31.0	-48.3223
Tl 190.794	-1.5025b	ppb	4.0173	267.4	-15.3864
V 292.401	0.1690b	ppb	0.2518	149.0	-0.2058
Zn 206.200	160.533b	ppb	0.7171	0.4	301.629

680-94506-a-16-b (Samp) **9/30/2013, 6:27:15 PM** **Rack 2, Tube 30**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.0515u	0.0960	0.0361
Al 308.215	5.3772	3.5448	4.1898
As 188.980	0.1578	-2.2959u	0.2687
B 249.678	19.4467	19.6877	19.6262
Ba 389.178	30.9134	30.8664	32.2808
Be 313.042	0.0141	0.0110	0.0124
Ca 370.602	8893	8879	8900
Cd 226.502	0.0706	0.0424	-0.1175u
Co 228.615	0.4058	-0.1071u	0.1174
Cr 267.716	0.0086	0.1117	0.2364
Cu 324.754	0.1813	0.1075	0.1015
Fe 271.441	3.6685	2.4408	2.9694
K 766.491	481.774	483.757	482.718
Mg 279.078	3552.25	3543.28	3540.87
Mn 257.610	2.7870	2.7649	2.8168
Mo 202.032	0.4148	-0.0642u	-0.4331u
Na 330.237	112613x	113045x	112693x
Ni 231.604	0.8110	0.6923	0.9299
Pb 220.353	0.8507	-0.2083u	3.1097
Sb 206.834	1.3696	3.1557	2.5829
Se 196.026	0.0421	-1.1139u	9.9570
Sn 189.925	0.2144	-1.9375u	0.7690
Sr 216.596	22.0360	21.8375	22.0098
Ti 334.941	0.0052	0.0119	0.0059

Label	Replicates Concentration		
Tl 190.794	-1.6030u	-2.3983u	-2.0706u
V 292.401	0.3236	-0.0770u	0.2073
Zn 206.200	3.6295	3.2007	4.5234

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0269b	ppb	0.0742	276.0	-20.0457
Al 308.215	4.3706b	ppb	0.9295	21.3	-16.4368
As 188.980	-0.6232b	ppb	1.4497	232.6	-8.5151
B 249.678	19.5869b	ppb	0.1252	0.6	494.533
Ba 389.178	31.3535b	ppb	0.8034	2.6	807.515
Be 313.042	0.0125b	ppb	0.0015	12.4	-259.073
Ca 370.602	8891b	ppb	10.79	0.1	28138
Cd 226.502	-0.0015b	ppb	0.1015	6726.8	15.2449
Co 228.615	0.1387b	ppb	0.2571	185.4	-5.1459
Cr 267.716	0.1189b	ppb	0.1140	95.9	30.3922
Cu 324.754	0.1301b	ppb	0.0444	34.1	134.772
Fe 271.441	3.0262b	ppb	0.6158	20.4	21.6047
K 766.491	482.750b	ppb	0.9920	0.2	21004.1
Mg 279.078	3545.47b	ppb	5.9940	0.2	11137.5
Mn 257.610	2.7896b	ppb	0.0261	0.9	831.141
Mo 202.032	-0.0275b	ppb	0.4251	1546.2	7.6079
Na 330.237	112784xb	ppb	229.850	0.2	7175.47
Ni 231.604	0.8110b	ppb	0.1188	14.6	0.1966
Pb 220.353	1.2507b	ppb	1.6947	135.5	15.8537
Sb 206.834	2.3694b	ppb	0.9120	38.5	4.3352
Se 196.026	2.9617b	ppb	6.0856	205.5	2.7468
Sn 189.925	-0.3180b	ppb	1.4297	449.6	-13.5461
Sr 216.596	21.9611b	ppb	0.1079	0.5	385.909
Ti 334.941	0.0077b	ppb	0.0037	47.9	-64.0874
Tl 190.794	-2.0240b	ppb	0.3997	19.7	-16.1768
V 292.401	0.1513b	ppb	0.2061	136.2	-0.1217
Zn 206.200	3.7845b	ppb	0.6749	17.8	13.4405

680-94506-a-17-b (Samp) **9/30/2013, 6:31:50 PM** **Rack 2, Tube 31**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.2428	0.2126	0.2016
Al 308.215	10.4650	11.9068	10.8361
As 188.980	1.8005	-1.0613u	2.8047
B 249.678	21.9031	21.8792	22.2812
Ba 389.178	58.7352	58.9555	58.9435
Be 313.042	0.0111	0.0115	0.0149
Ca 370.602	21179	21277	21341
Cd 226.502	0.1489	0.0316	0.1776
Co 228.615	0.1727	0.2095	-0.0592u
Cr 267.716	0.2506	-0.0136	0.0780
Cu 324.754	1.6770	1.6925	1.5441
Fe 271.441	12.1599	8.6776	9.1894
K 766.491	825.697	824.542	825.230
Mg 279.078	1410.21	1411.06	1407.96
Mn 257.610	37.2786	37.5435	37.4533
Mo 202.032	-0.6054u	0.1673	-0.3494u
Na 330.237	123324x	122609x	122893x

Label	Replicates Concentration		
Ni 231.604	0.3095	0.8861	0.1485
Pb 220.353	0.0613	3.1170	2.0834
Sb 206.834	0.4940	3.4391	0.7133
Se 196.026	4.7271	7.9906	2.5429
Sn 189.925	-1.7000u	2.4036	-0.5948u
Sr 216.596	41.3629	41.4471	41.5118
Ti 334.941	0.3355	0.3145	0.2589
Tl 190.794	-0.7155u	-1.2965u	-2.9043u
V 292.401	0.0994	0.2141	0.2916
Zn 206.200	21.4649	19.8695	18.9692

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.2190b	ppb	0.0213	9.7	-3.0637
Al 308.215	11.0693b	ppb	0.7486	6.8	23.8530
As 188.980	1.1813b	ppb	2.0060	169.8	-6.7649
B 249.678	22.0212b	ppb	0.2255	1.0	543.234
Ba 389.178	58.8781b	ppb	0.1239	0.2	1517.51
Be 313.042	0.0125b	ppb	0.0021	16.8	-255.553
Ca 370.602	21266b	ppb	81.33	0.4	67310
Cd 226.502	0.1193b	ppb	0.0773	64.8	22.3587
Co 228.615	0.1077b	ppb	0.1457	135.3	-5.5954
Cr 267.716	0.1050b	ppb	0.1341	127.7	29.9571
Cu 324.754	1.6379b	ppb	0.0816	5.0	239.407
Fe 271.441	10.0090b	ppb	1.8803	18.8	35.5396
K 766.491	825.156b	ppb	0.5809	0.1	35730.8
Mg 279.078	1409.74b	ppb	1.6027	0.1	4447.51
Mn 257.610	37.4251b	ppb	0.1347	0.4	10250.9
Mo 202.032	-0.2625b	ppb	0.3936	150.0	5.5485
Na 330.237	122942xb	ppb	359.821	0.3	7817.46
Ni 231.604	0.4480b	ppb	0.3878	86.6	-1.2823
Pb 220.353	1.7539b	ppb	1.5542	88.6	16.9485
Sb 206.834	1.5488b	ppb	1.6407	105.9	2.9719
Se 196.026	5.0869b	ppb	2.7416	53.9	3.8277
Sn 189.925	0.0363b	ppb	2.1233	5852.2	-13.1265
Sr 216.596	41.4406b	ppb	0.0747	0.2	719.985
Ti 334.941	0.3030b	ppb	0.0396	13.1	12.2880
Tl 190.794	-1.6387b	ppb	1.1338	69.2	-15.6184
V 292.401	0.2017b	ppb	0.0967	47.9	1.3916
Zn 206.200	20.1012b	ppb	1.2639	6.3	43.4396

680-94524-b-1-i (Samp) **9/30/2013, 6:36:25 PM** **Rack 2, Tube 32**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.1808	-0.0919u	0.0953
Al 308.215	3.9263	4.5400	2.9572
As 188.980	-0.0560u	0.3796	-0.4581u
B 249.678	13.0610	13.2506	12.4153
Ba 389.178	107.412	106.249	106.200
Be 313.042	0.0086	0.0089	0.0058
Ca 370.602	26511	26424	26311
Cd 226.502	0.0815	-0.0129u	0.1173
Co 228.615	0.3292	0.5534	0.2933
Cr 267.716	0.0893	0.0961	0.0829

Label	Replicates	Concentration	
Cu 324.754	-0.0637u	0.1498	0.1615
Fe 271.441	2.7795	4.7374	5.2316
K 766.491	386.661	386.250	386.334
Mg 279.078	732.869	732.696	734.078
Mn 257.610	6.6397	6.7197	6.6630
Mo 202.032	-0.1559u	0.0794	-0.0399u
Na 330.237	124483x	124034x	124451x
Ni 231.604	0.5828	0.4362	0.4333
Pb 220.353	-0.0690u	2.8083	1.6050
Sb 206.834	1.5387	0.6432	-0.7890u
Se 196.026	1.5013	1.9880	-2.3108u
Sn 189.925	-1.1389u	-0.4331u	-1.0724u
Sr 216.596	123.713	123.376	123.774
Ti 334.941	0.1205	0.1532	0.1411
Tl 190.794	-0.5092u	0.1058	-3.1177u
V 292.401	-0.0154u	0.1850	0.0189u
Zn 206.200	6.8496	9.2250	6.4222

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0614b	ppb	0.1395	227.2	-22.3540
Al 308.215	3.8079b	ppb	0.7980	21.0	-19.8162
As 188.980	-0.0448b	ppb	0.4190	934.2	-7.9542
B 249.678	12.9090b	ppb	0.4379	3.4	360.916
Ba 389.178	106.620b	ppb	0.6860	0.6	2757.98
Be 313.042	0.0077b	ppb	0.0017	22.3	-264.154
Ca 370.602	26415b	ppb	100.2	0.4	83611
Cd 226.502	0.0620b	ppb	0.0672	108.5	18.8640
Co 228.615	0.3920b	ppb	0.1410	36.0	-1.3578
Cr 267.716	0.0894b	ppb	0.0066	7.3	28.8243
Cu 324.754	0.0825b	ppb	0.1267	153.5	131.471
Fe 271.441	4.2495b	ppb	1.2968	30.5	24.0834
K 766.491	386.415b	ppb	0.2171	0.1	16860.8
Mg 279.078	733.214b	ppb	0.7532	0.1	2329.34
Mn 257.610	6.6741b	ppb	0.0411	0.6	1862.84
Mo 202.032	-0.0388b	ppb	0.1177	303.3	7.5093
Na 330.237	124323xb	ppb	250.524	0.2	7904.96
Ni 231.604	0.4841b	ppb	0.0855	17.7	-1.1365
Pb 220.353	1.4481b	ppb	1.4450	99.8	16.2799
Sb 206.834	0.4643b	ppb	1.1742	252.9	1.1589
Se 196.026	0.3928b	ppb	2.3540	599.2	1.4516
Sn 189.925	-0.8814b	ppb	0.3897	44.2	-14.1780
Sr 216.596	123.621b	ppb	0.2144	0.2	2122.01
Ti 334.941	0.1382b	ppb	0.0165	12.0	-39.9488
Tl 190.794	-1.1737b	ppb	1.7114	145.8	-14.8919
V 292.401	0.0628b	ppb	0.1072	170.7	-3.0703
Zn 206.200	7.4989b	ppb	1.5100	20.1	20.2696

680-94534-a-1-b (Samp) **9/30/2013, 6:41:01 PM** **Rack 2, Tube 33**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	0.2834	0.1326	0.2116
Al 308.215	77.8291	75.7454	74.5393
As 188.980	9.2250	3.7358	11.7691

Label	Replicates	Concentration	
B 249.678	26.4340	25.9890	26.0889
Ba 389.178	23.0789	22.8144	23.4833
Be 313.042	0.0237	0.0232	0.0208
Ca 370.602	3294	3266	3254
Cd 226.502	0.0333	-0.0423u	-0.0289u
Co 228.615	0.7107	0.0771	0.3037
Cr 267.716	-0.0943u	0.2507	0.3064
Cu 324.754	0.3223	0.4079	0.3381
Fe 271.441	47.8369	52.3045	51.7372
K 766.491	203.180	200.312	200.217
Mg 279.078	507.800	511.097	506.171
Mn 257.610	6.9076	6.9254	6.8435
Mo 202.032	-0.2663u	-0.2628u	-0.1650u
Na 330.237	126962x	126106x	126219x
Ni 231.604	0.5965	0.7279	0.4984
Pb 220.353	1095.04	1092.94	1084.62
Sb 206.834	43.4083	37.9452	43.3696
Se 196.026	2.1768	4.1559	5.3924
Sn 189.925	0.9013	0.2355	0.2097
Sr 216.596	7.5979	7.8884	8.4044
Ti 334.941	2.0096	2.1720	1.9882
Tl 190.794	-0.3401u	-0.5873u	-1.8882u
V 292.401	0.0482	0.1400	-0.1571u
Zn 206.200	2.8327	4.7917	3.2864

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.2092b	ppb	0.0754	36.1	-2.2858
Al 308.215	76.0380b	ppb	1.6643	2.2	414.803
As 188.980	8.2433b	ppb	4.1056	49.8	0.0846
B 249.678	26.1706b	ppb	0.2335	0.9	626.147
Ba 389.178	23.1256b	ppb	0.3369	1.5	584.470
Be 313.042	0.0226b	ppb	0.0015	6.8	-241.276
Ca 370.602	3271b	ppb	20.48	0.6	10347
Cd 226.502	-0.0126b	ppb	0.0403	319.0	14.6225
Co 228.615	0.3638b	ppb	0.3210	88.2	-1.7152
Cr 267.716	0.1543b	ppb	0.2170	140.7	33.0430
Cu 324.754	0.3561b	ppb	0.0456	12.8	150.470
Fe 271.441	50.6262b	ppb	2.4322	4.8	116.658
K 766.491	201.236b	ppb	1.6840	0.8	8896.44
Mg 279.078	508.356b	ppb	2.5094	0.5	1625.05
Mn 257.610	6.8922b	ppb	0.0431	0.6	1919.90
Mo 202.032	-0.2313b	ppb	0.0575	24.9	5.8193
Na 330.237	126429xb	ppb	465.153	0.4	8038.20
Ni 231.604	0.6076b	ppb	0.1152	19.0	-0.6316
Pb 220.353	1090.86b	ppb	5.5079	0.5	2364.94
Sb 206.834	41.5744b	ppb	3.1430	7.6	69.6985
Se 196.026	3.9084b	ppb	1.6221	41.5	3.2256
Sn 189.925	0.4488b	ppb	0.3921	87.4	-12.6604
Sr 216.596	7.9636b	ppb	0.4085	5.1	146.454
Ti 334.941	2.0566b	ppb	0.1005	4.9	527.663
Tl 190.794	-0.9385b	ppb	0.8317	88.6	-14.5411
V 292.401	0.0104b	ppb	0.1521	1469.1	-4.6921
Zn 206.200	3.6369b	ppb	1.0255	28.2	13.1694

mb 680-296085/1-a (Samp) **9/30/2013, 6:45:37 PM** **Rack 2, Tube 34**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.2042	-0.0380u	0.4043
Al 308.215	1.4448	1.0628	0.2329
As 188.980	-5.9588u	-2.3289u	0.5713
B 249.678	2.3079	1.7794	2.1185
Ba 389.178	0.1965	0.2667	-0.1964u
Be 313.042	0.0185	0.0078	-0.0027u
Ca 370.602	10.03	11.22	10.33
Cd 226.502	0.0713	-0.1436u	-0.0438u
Co 228.615	-0.1055u	-0.1327u	-0.1144u
Cr 267.716	-0.0439u	0.1424	0.0094
Cu 324.754	-0.3895u	-0.0723u	0.1299
Fe 271.441	2.3122	0.7983	0.6730
K 766.491	2.2972	2.3896	1.4790
Mg 279.078	-0.5340u	1.1113	-0.4450u
Mn 257.610	-0.0203u	-0.0315u	-0.0274u
Mo 202.032	-0.1541u	-0.1801u	0.1550
Na 330.237	-109.192u	-21.2283u	80.1459
Ni 231.604	0.8048	0.3287	0.4474
Pb 220.353	0.5462	1.5636	2.7523
Sb 206.834	3.2159	-0.3345u	0.7440
Se 196.026	2.4597	8.8017	3.6428
Sn 189.925	-0.0717u	-0.0147u	1.7377
Sr 216.596	-0.1159u	0.1656	-0.0004u
Ti 334.941	0.0566	0.0132	0.0859
Tl 190.794	-3.5870u	1.2435	-2.2755u
V 292.401	0.1136	0.1223	0.2091
Zn 206.200	0.6364	1.6763	0.6011

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1902	ppb	0.2215	116.4	-3.6315
Al 308.215	0.9135	ppb	0.6196	67.8	-37.2358
As 188.980	-2.5721	ppb	3.2718	127.2	-10.4054
B 249.678	2.0686	ppb	0.2678	12.9	143.996
Ba 389.178	0.0890	ppb	0.2496	280.5	-16.6314
Be 313.042	0.0078	ppb	0.0106	135.1	-256.422
Ca 370.602	10.53	ppb	0.6191	5.9	28.64
Cd 226.502	-0.0387	ppb	0.1075	277.8	14.0054
Co 228.615	-0.1175	ppb	0.0139	11.8	-8.9756
Cr 267.716	0.0360	ppb	0.0960	266.7	22.2435
Cu 324.754	-0.1107	ppb	0.2618	236.6	118.059
Fe 271.441	1.2612	ppb	0.9124	72.3	18.0430
K 766.491	2.0553	ppb	0.5012	24.4	329.800
Mg 279.078	0.0441	ppb	0.9253	2098.2	33.1924
Mn 257.610	-0.0264	ppb	0.0057	21.4	29.8978
Mo 202.032	-0.0597	ppb	0.1865	312.2	7.3256
Na 330.237	-16.7580	ppb	94.7478	565.4	43.6188
Ni 231.604	0.5270	ppb	0.2478	47.0	-0.9601
Pb 220.353	1.6207	ppb	1.1042	68.1	16.6506
Sb 206.834	1.2085	ppb	1.8202	150.6	2.4001
Se 196.026	4.9681	ppb	3.3723	67.9	3.7584
Sn 189.925	0.5505	ppb	1.0286	186.9	-12.6113
Sr 216.596	0.0164	ppb	0.1415	863.4	10.3656

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ti 334.941	0.0519	ppb	0.0366	70.5	-58.1859
Tl 190.794	-1.5397	ppb	2.4979	162.2	-15.4430
V 292.401	0.1483	ppb	0.0528	35.6	0.8452
Zn 206.200	0.9713	ppb	0.6109	62.9	8.2686

lcs 680-296085/2-a (Samp) **9/30/2013, 6:50:13 PM** **Rack 2, Tube 35**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	119.965	119.674	120.296
Al 308.215	10587.0	10564.9	10536.8
As 188.980	212.261	213.531	215.345
B 249.678	405.695	407.620	407.812
Ba 389.178	215.052	214.332	214.588
Be 313.042	104.306	104.789	104.601
Ca 370.602	10588	10558	10547
Cd 226.502	104.131	103.961	103.943
Co 228.615	105.522	106.362	106.704
Cr 267.716	213.892	215.306	214.951
Cu 324.754	220.168	219.125	220.910
Fe 271.441	10206.3	10214.4	10238.9
K 766.491	10630.4	10632.3	10579.7
Mg 279.078	10235.1	10260.0	10252.4
Mn 257.610	1095.16	1097.04	1096.44
Mo 202.032	212.621	215.173	214.691
Na 330.237	11222.5	11548.6	11570.9
Ni 231.604	208.149	207.824	208.535
Pb 220.353	104.803	104.984	105.879
Sb 206.834	105.527	103.379	105.547
Se 196.026	214.035	211.837	207.683
Sn 189.925	410.153	420.591	419.589
Sr 216.596	208.552	210.127	209.466
Ti 334.941	211.265	211.037	210.560
Tl 190.794	80.9152	80.5121	82.2764
V 292.401	209.531	209.961	209.254
Zn 206.200	210.546	209.176	207.240

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	119.978	ppb	0.3110	0.3	11104.4
Al 308.215	10562.9	ppb	25.1401	0.2	63487.3
As 188.980	213.712	ppb	1.5500	0.7	199.270
B 249.678	407.042	ppb	1.1707	0.3	8219.26
Ba 389.178	214.657	ppb	0.3650	0.2	5615.61
Be 313.042	104.565	ppb	0.2431	0.2	229230
Ca 370.602	10564	ppb	20.98	0.2	32772
Cd 226.502	104.012	ppb	0.1039	0.1	6290.84
Co 228.615	106.196	ppb	0.6079	0.6	1579.67
Cr 267.716	214.716	ppb	0.7358	0.3	13740.5
Cu 324.754	220.068	ppb	0.8966	0.4	15408.2
Fe 271.441	10219.9	ppb	16.9805	0.2	20435.3
K 766.491	10614.1	ppb	29.8769	0.3	456748
Mg 279.078	10249.2	ppb	12.7796	0.1	32106.2
Mn 257.610	1096.21	ppb	0.9634	0.1	298955
Mo 202.032	214.162	ppb	1.3562	0.6	1883.34

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Na 330.237	11447.3	ppb	195.028	1.7	760.012
Ni 231.604	208.170	ppb	0.3559	0.2	845.056
Pb 220.353	105.222	ppb	0.5759	0.5	240.447
Sb 206.834	104.818	ppb	1.2461	1.2	175.710
Se 196.026	211.185	ppb	3.2256	1.5	108.118
Sn 189.925	416.778	ppb	5.7589	1.4	466.001
Sr 216.596	209.382	ppb	0.7909	0.4	3586.16
Ti 334.941	210.954	ppb	0.3597	0.2	62532.4
Tl 190.794	81.2346	ppb	0.9245	1.1	108.498
V 292.401	209.582	ppb	0.3563	0.2	6581.18
Zn 206.200	208.987	ppb	1.6610	0.8	389.875

lb 680-295919/5-b (Samp) **9/30/2013, 6:54:49 PM** **Rack 2, Tube 36**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	0.0283	-0.0811u	0.0156
Al 308.215	3.1547	1.2804	-0.4720u
As 188.980	-1.3770u	1.7164	-3.6517u
B 249.678	2.7225	2.2741	2.5282
Ba 389.178	0.1834	-0.4409u	0.1773
Be 313.042	0.0138	0.0155	0.0126
Ca 370.602	6.443	4.024	8.789
Cd 226.502	-0.1232u	-0.0443u	0.1209
Co 228.615	-0.0637u	0.1549	-0.2456u
Cr 267.716	0.1441	0.1003	0.2981
Cu 324.754	-0.4745u	-0.1708u	-0.0315u
Fe 271.441	4.2000	6.6422	7.7446
K 766.491	22.6864	22.4371	22.4728
Mg 279.078	-1.7725u	-2.4482u	1.1159
Mn 257.610	-0.0250u	0.0052	0.0356
Mo 202.032	0.8446	0.0910	-0.0588u
Na 330.237	91325.6	90989.8	91903.4x
Ni 231.604	-0.4421u	0.1821	0.4034
Pb 220.353	0.0456	0.3685	1.4316
Sb 206.834	4.5051	5.1995	3.6341
Se 196.026	9.2980	-0.7223u	-2.9898u
Sn 189.925	-3.8337u	0.8724	1.1204
Sr 216.596	0.3620	0.2417	-0.1394u
Ti 334.941	0.0195u	0.0108u	-0.0499u
Tl 190.794	0.7547	-1.6828u	-2.3624u
V 292.401	-0.2385u	-0.0950u	-0.0605u
Zn 206.200	1.2372	2.2413	1.8247

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0124b	ppb	0.0599	482.8	-22.4502
Al 308.215	1.3210b	ppb	1.8137	137.3	-34.7136
As 188.980	-1.1041b	ppb	2.6945	244.0	-8.9818
B 249.678	2.5083b	ppb	0.2249	9.0	152.784
Ba 389.178	-0.0268b	ppb	0.3587	1340.8	-19.6375
Be 313.042	0.0140b	ppb	0.0015	10.5	-256.081
Ca 370.602	6.419b	ppb	2.382	37.1	15.30
Cd 226.502	-0.0155b	ppb	0.1246	802.7	14.5397
Co 228.615	-0.0515b	ppb	0.2005	389.6	-8.0028

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Cr 267.716	0.1809b	ppb	0.1039	57.4	33.8014
Cu 324.754	-0.2256b	ppb	0.2265	100.4	110.104
Fe 271.441	6.1956b	ppb	1.8140	29.3	27.9033
K 766.491	22.5321b	ppb	0.1348	0.6	1210.49
Mg 279.078	-1.0349b	ppb	1.8931	182.9	29.8111
Mn 257.610	0.0053b	ppb	0.0303	574.2	37.9152
Mo 202.032	0.2922b	ppb	0.4842	165.7	10.4103
Na 330.237	91406.3xb	ppb	462.082	0.5	5823.91
Ni 231.604	0.0478b	ppb	0.4384	917.2	-2.9126
Pb 220.353	0.6152b	ppb	0.7252	117.9	14.4824
Sb 206.834	4.4462b	ppb	0.7844	17.6	7.7908
Se 196.026	1.8620b	ppb	6.5388	351.2	2.1912
Sn 189.925	-0.6136b	ppb	2.7914	454.9	-13.9022
Sr 216.596	0.1548b	ppb	0.2618	169.2	12.7378
Ti 334.941	-0.0065b	ppb	0.0378	579.2	-83.5211
Tl 190.794	-1.0968b	ppb	1.6391	149.4	-14.7736
V 292.401	-0.1313b	ppb	0.0944	71.9	-8.9860
Zn 206.200	1.7678b	ppb	0.5045	28.5	9.7323

Cont Calib Verif (CCV) **9/30/2013, 6:59:25 PM** **Rack 2, Tube 37**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	483.465	484.619	483.604
Al 308.215	4937.47	4964.12	4954.29
As 188.980	478.613	477.069	478.797
B 249.678	483.208	485.229	486.896
Ba 389.178	4976.36	4996.48	4993.08
Be 313.042	488.006	489.324	489.291
Ca 370.602	5112	5132	5153
Cd 226.502	493.999	495.828	494.433
Co 228.615	494.420	497.255	494.886
Cr 267.716	4996.86	5006.58	5006.31
Cu 324.754	5080.13	5099.83	5084.01
Fe 271.441	4766.82	4780.23	4776.93
K 766.491	10129.2	10152.9	10141.6
Mg 279.078	4888.44	4902.36	4892.51
Mn 257.610	5085.39	5100.69	5088.26
Mo 202.032	504.664	506.350	504.374
Na 330.237	7212.15	7060.57	7185.31
Ni 231.604	2479.49	2489.07	2478.16
Pb 220.353	501.102	500.022	506.118
Sb 206.834	994.836	1005.07	1005.70
Se 196.026	5156.97	5146.56	5147.17
Sn 189.925	5021.42	5012.95	5022.48
Sr 216.596	2533.43	2539.45	2536.64
Ti 334.941	489.368	491.375	490.910
Tl 190.794	5071.12	5091.13	5083.41
V 292.401	4922.11	4937.11	4938.67
Zn 206.200	2471.42	2488.72	2477.65

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	483.896	ppb	0.6302	0.1	44794.9	96.77921
Al 308.215	4951.96	ppb	13.4746	0.3	28934.0	99.03923

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
As 188.980	478.159	ppb	0.9490	0.2	455.631	95.63185
B 249.678	485.111	ppb	1.8472	0.4	9796.34	97.02216
Ba 389.178	4988.64	ppb	10.7719	0.2	129846	99.77277
Be 313.042	488.873	ppb	0.7517	0.2	1072636	97.77467
Ca 370.602	5132	ppb	20.30	0.4	16306	102.64872
Cd 226.502	494.754	ppb	0.9559	0.2	29660.7	98.95071
Co 228.615	495.520	ppb	1.5202	0.3	7412.87	99.10406
Cr 267.716	5003.25	ppb	5.5336	0.1	319545	100.06501
Cu 324.754	5087.99	ppb	10.4332	0.2	353193	101.75977
Fe 271.441	4774.66	ppb	6.9883	0.1	9675.43	95.49323
K 766.491	10141.2	ppb	11.8584	0.1	436408	101.41212
Mg 279.078	4894.44	ppb	7.1579	0.1	15242.2	97.88878
Mn 257.610	5091.45	ppb	8.1291	0.2	1387834	101.82896
Mo 202.032	505.129	ppb	1.0669	0.2	4422.48	101.02582
Na 330.237	7152.68	ppb	80.8871	1.1	448.495	95.36901
Ni 231.604	2482.24	ppb	5.9552	0.2	10109.2	99.28967
Pb 220.353	502.414	ppb	3.2532	0.6	1096.64	100.48277
Sb 206.834	1001.87	ppb	6.0981	0.6	1741.79	100.18680
Se 196.026	5150.23	ppb	5.8429	0.1	2601.17	103.00466
Sn 189.925	5018.95	ppb	5.2246	0.1	5757.83	100.37898
Sr 216.596	2536.51	ppb	3.0116	0.1	43189.3	101.46032
Ti 334.941	490.551	ppb	1.0506	0.2	145417	98.11021
Tl 190.794	5081.88	ppb	10.0916	0.2	7675.53	101.63767
V 292.401	4932.63	ppb	9.1444	0.2	155777	98.65258
Zn 206.200	2479.26	ppb	8.7625	0.4	4542.17	99.17047

Cont Calib Blank (CCB) **9/30/2013, 7:04:00 PM** **Rack 2, Tube 38**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.1489	0.4752	0.4086
Al 308.215	-2.2818u	-1.9828u	-0.3448u
As 188.980	0.3151	0.6472	4.8764
B 249.678	1.8560	1.6120	1.1913
Ba 389.178	0.5630	1.4158	0.7175
Be 313.042	0.0176	0.0128	0.0154
Ca 370.602	-0.8447u	-2.629u	-1.510u
Cd 226.502	0.0444	-0.0545u	-0.1023u
Co 228.615	0.4373	0.6594	0.0536
Cr 267.716	0.1517	0.2616	0.1272
Cu 324.754	0.0680	-0.5260u	-0.2318u
Fe 271.441	0.7290	0.2461	-4.9679u
K 766.491	2.3221	1.8107	1.8054
Mg 279.078	-0.1317u	0.7515	-1.0953u
Mn 257.610	0.0449	0.1208	0.1327
Mo 202.032	0.0151	-0.0590u	0.0999
Na 330.237	-122.066u	9.4225	55.8728
Ni 231.604	0.0166	-0.5245u	0.4516
Pb 220.353	-1.0242u	-0.6136u	-0.5822u
Sb 206.834	0.7438	5.0002	6.9333
Se 196.026	7.9730	7.3054	1.0401
Sn 189.925	1.6649	0.8264	1.8558
Sr 216.596	-0.1243u	-0.0850u	-0.0579u
Ti 334.941	0.1269	0.1214	0.1191

Label	Replicates	Concentration	
Tl 190.794	0.6984	-0.2599u	1.1660
V 292.401	-0.0043u	-0.1530u	0.3363
Zn 206.200	-0.6153u	0.6783	-0.4841u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.3442	ppb	0.1724	50.1	10.6647	0.34423
Al 308.215	-1.5365	ppb	1.0428	67.9	-51.9747	-1.53649
As 188.980	1.9463	ppb	2.5430	130.7	-6.0232	1.94625
B 249.678	1.5531	ppb	0.3362	21.6	133.694	1.55309
Ba 389.178	0.8988	ppb	0.4543	50.6	4.4350	0.89876
Be 313.042	0.0153	ppb	0.0024	15.5	-240.142	0.01526
Ca 370.602	-1.661	ppb	0.9017	54.3	-9.524	-1.66117
Cd 226.502	-0.0375	ppb	0.0748	199.8	14.0579	-0.03746
Co 228.615	0.3834	ppb	0.3064	79.9	-1.4900	0.38345
Cr 267.716	0.1802	ppb	0.0716	39.7	31.4537	0.18018
Cu 324.754	-0.2299	ppb	0.2970	129.2	109.785	-0.22993
Fe 271.441	-1.3309	ppb	3.1590	237.3	12.9431	-1.33093
K 766.491	1.9794	ppb	0.2968	15.0	326.537	1.97940
Mg 279.078	-0.1585	ppb	0.9237	582.8	32.5538	-0.15848
Mn 257.610	0.0995	ppb	0.0477	47.9	64.1883	0.09947
Mo 202.032	0.0186	ppb	0.0795	426.4	8.0129	0.01864
Na 330.237	-18.9234	ppb	92.2938	487.7	43.5217	-18.92344
Ni 231.604	-0.0188	ppb	0.4890	2602.9	-3.1856	-0.01879
Pb 220.353	-0.7400	ppb	0.2466	33.3	11.5604	-0.73996
Sb 206.834	4.2258	ppb	3.1666	74.9	7.4300	4.22578
Se 196.026	5.4395	ppb	3.8246	70.3	3.9963	5.43949
Sn 189.925	1.4490	ppb	0.5476	37.8	-11.5781	1.44903
Sr 216.596	-0.0891	ppb	0.0334	37.5	8.5821	-0.08906
Ti 334.941	0.1225	ppb	0.0040	3.3	-37.2566	0.12247
Tl 190.794	0.5348	ppb	0.7269	135.9	-12.3026	0.53481
V 292.401	0.0597	ppb	0.2508	420.2	-1.9924	0.05970
Zn 206.200	-0.1404	ppb	0.7120	507.1	6.2241	-0.14040

680-94572-b-5-b (Samp) **9/30/2013, 7:08:36 PM** **Rack 2, Tube 39**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	0.0020u	0.0736	0.0284
Al 308.215	26.6038	26.0512	24.9933
As 188.980	2.7165	-0.6040u	-0.4758u
B 249.678	57.7628	57.1584	58.0619
Ba 389.178	2.5077	3.1743	3.2582
Be 313.042	0.0154	0.0188	0.0071
Ca 370.602	1107	1098	1096
Cd 226.502	-0.0214u	0.0891	-0.1213u
Co 228.615	0.2759	0.1973	0.6016
Cr 267.716	0.3702	0.3549	0.4174
Cu 324.754	0.4494	0.4781	1.1646
Fe 271.441	23.9074	22.0388	29.1365
K 766.491	397.244	397.725	397.976
Mg 279.078	329.530	329.614	327.298
Mn 257.610	8.0932	8.1291	8.1841
Mo 202.032	0.3146	-0.0176u	0.4545
Na 330.237	4084.11	4048.97	4029.67

Label	Replicates Concentration		
Ni 231.604	0.4714	-0.0139u	0.3528
Pb 220.353	8.3042	6.3385	9.1932
Sb 206.834	5.2368	2.2890	0.7384
Se 196.026	0.9830	-2.2115u	3.5759
Sn 189.925	4.3778	4.4327	4.1965
Sr 216.596	6.9664	7.0982	6.7224
Ti 334.941	0.5461	0.5194	0.4600
Tl 190.794	0.6102	0.2880	-4.4220u
V 292.401	-0.0469u	-0.0651u	0.3332
Zn 206.200	4.3379	4.6028	4.6914

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0347	ppb	0.0362	104.6	-18.3992
Al 308.215	25.8828	ppb	0.8183	3.2	113.021
As 188.980	0.5456	ppb	1.8812	344.8	-7.3817
B 249.678	57.6610	ppb	0.4603	0.8	1256.35
Ba 389.178	2.9801	ppb	0.4112	13.8	59.6178
Be 313.042	0.0138	ppb	0.0060	43.6	-243.577
Ca 370.602	1100	ppb	5.964	0.5	3476
Cd 226.502	-0.0178	ppb	0.1052	590.1	15.3288
Co 228.615	0.3582	ppb	0.2144	59.8	-1.8646
Cr 267.716	0.3808	ppb	0.0326	8.6	44.4263
Cu 324.754	0.6974	ppb	0.4049	58.1	174.162
Fe 271.441	25.0276	ppb	3.6791	14.7	65.5578
K 766.491	397.648	ppb	0.3721	0.1	17344.0
Mg 279.078	328.814	ppb	1.3136	0.4	1062.71
Mn 257.610	8.1355	ppb	0.0458	0.6	2257.76
Mo 202.032	0.2505	ppb	0.2425	96.8	10.0427
Na 330.237	4054.25	ppb	27.6006	0.7	300.941
Ni 231.604	0.2701	ppb	0.2530	93.7	-2.0074
Pb 220.353	7.9453	ppb	1.4608	18.4	30.2882
Sb 206.834	2.7547	ppb	2.2851	83.0	4.9769
Se 196.026	0.7825	ppb	2.8989	370.5	1.6486
Sn 189.925	4.3356	ppb	0.1236	2.9	-8.2562
Sr 216.596	6.9290	ppb	0.1907	2.8	128.429
Ti 334.941	0.5085	ppb	0.0441	8.7	78.4493
Tl 190.794	-1.1746	ppb	2.8169	239.8	-14.8968
V 292.401	0.0737	ppb	0.2249	304.9	-1.6357
Zn 206.200	4.5440	ppb	0.1839	4.0	14.8361

680-94579-a-1-b (Samp) **9/30/2013, 7:13:11 PM** **Rack 2, Tube 40**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.1488	-0.0093u	0.1548
Al 308.215	5.1641	5.0202	5.4858
As 188.980	-1.2533u	0.8305	-0.6389u
B 249.678	122.145	122.092	121.814
Ba 389.178	6.9823	6.4868	6.6749
Be 313.042	0.0212	0.0307	0.0269
Ca 370.602	9720	9706	9669
Cd 226.502	0.0978	0.0541	0.0056u
Co 228.615	0.3513	0.2175	0.0295
Cr 267.716	0.1960	0.2307	0.2988

Label	Replicates	Concentration	
Cu 324.754	6.8180	6.9482	6.8845
Fe 271.441	20.7529	18.3987	15.2436
K 766.491	11518.4	11524.0	11541.1
Mg 279.078	27403.8	27394.6	27325.3
Mn 257.610	50.4620	50.3331	50.2508
Mo 202.032	0.1095	0.1982	-0.2404u
Na 330.237	250777x	253023x	250694x
Ni 231.604	32.6953	32.9341	31.6750
Pb 220.353	3.8281	2.7658	2.6237
Sb 206.834	0.4613	2.5725	0.1676
Se 196.026	3.5820	1.8332	3.0771
Sn 189.925	0.3393	-2.0706u	0.3064
Sr 216.596	169.039	168.616	169.152
Ti 334.941	-0.4208u	-0.4089u	-0.4202u
Tl 190.794	-1.1523u	0.3363	-1.7949u
V 292.401	1.2054	1.0110	1.3872
Zn 206.200	13.3206	13.3282	12.7338

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0981b	ppb	0.0931	94.9	-21.5468
Al 308.215	5.2234b	ppb	0.2384	4.6	-11.4739
As 188.980	-0.3539b	ppb	1.0707	302.5	-8.2542
B 249.678	122.017b	ppb	0.1776	0.1	2544.18
Ba 389.178	6.7147b	ppb	0.2501	3.7	236.608
Be 313.042	0.0263b	ppb	0.0048	18.2	-250.142
Ca 370.602	9699b	ppb	26.28	0.3	30695
Cd 226.502	0.0525b	ppb	0.0461	87.8	17.7115
Co 228.615	0.1994b	ppb	0.1617	81.1	-4.2294
Cr 267.716	0.2418b	ppb	0.0523	21.6	42.0008
Cu 324.754	6.8836b	ppb	0.0651	0.9	603.466
Fe 271.441	18.1317b	ppb	2.7643	15.2	51.7776
K 766.491	11527.8b	ppb	11.7897	0.1	496045
Mg 279.078	27374.5b	ppb	42.9350	0.2	85769.5
Mn 257.610	50.3486b	ppb	0.1065	0.2	14023.1
Mo 202.032	0.0224b	ppb	0.2319	1034.2	8.0421
Na 330.237	251498xb	ppb	1321.17	0.5	15945.6
Ni 231.604	32.4348b	ppb	0.6688	2.1	129.046
Pb 220.353	3.0725b	ppb	0.6582	21.4	19.7961
Sb 206.834	1.0671b	ppb	1.3119	122.9	2.1661
Se 196.026	2.8308b	ppb	0.9000	31.8	2.6929
Sn 189.925	-0.4750b	ppb	1.3820	291.0	-13.6538
Sr 216.596	168.935b	ppb	0.2827	0.2	2891.16
Ti 334.941	-0.4166b	ppb	0.0067	1.6	-87.6567
Tl 190.794	-0.8703b	ppb	1.0932	125.6	-14.4659
V 292.401	1.2012b	ppb	0.1881	15.7	32.0895
Zn 206.200	13.1276b	ppb	0.3410	2.6	30.6175

680-94579-a-1-bSD^5 (Samp) **9/30/2013, 7:17:47 PM** **Rack 2, Tube 41**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	0.1922	0.1856	0.1539
Al 308.215	0.0138	-0.1876u	2.4628
As 188.980	6.0043	-1.3553u	-0.2456u

Label	Replicates Concentration		
B 249.678	25.7160	24.9762	24.9179
Ba 389.178	1.7695	1.6123	1.1568
Be 313.042	0.0043	0.0107	0.0092
Ca 370.602	1975	1960	1942
Cd 226.502	0.0207	0.0012u	-0.1302u
Co 228.615	0.2383	0.0820	0.0785
Cr 267.716	-0.0861u	0.1422	0.0096
Cu 324.754	1.0846	1.2244	1.1601
Fe 271.441	2.5257	-1.9085u	5.6026
K 766.491	1924.60	1902.84	1874.09
Mg 279.078	5667.70	5615.81	5550.48
Mn 257.610	10.3182	10.3154	10.1647
Mo 202.032	-0.2695u	-0.2013u	-0.0995u
Na 330.237	47120.6	46692.7	46157.9
Ni 231.604	7.0861	6.3821	6.5271
Pb 220.353	0.3832	0.2146	1.4521
Sb 206.834	-0.4359u	2.0539	-1.2523u
Se 196.026	-1.2535u	3.2045	6.3115
Sn 189.925	0.2873	-0.3571u	-1.1176u
Sr 216.596	34.6163	34.4541	33.7245
Ti 334.941	-0.0835u	-0.0964u	-0.0324
Tl 190.794	-0.5414u	-2.0085u	-2.7335u
V 292.401	0.1908	0.3139	0.3794
Zn 206.200	1.9372	2.5033	2.7173

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1772	ppb	0.0205	11.6	-6.7468
Al 308.215	0.7630	ppb	1.4755	193.4	-38.1816
As 188.980	1.4678	ppb	3.9677	270.3	-6.4871
B 249.678	25.2033	ppb	0.4449	1.8	606.931
Ba 389.178	1.5129	ppb	0.3182	21.0	36.9669
Be 313.042	0.0081	ppb	0.0033	41.1	-262.189
Ca 370.602	1959	ppb	16.26	0.8	6197
Cd 226.502	-0.0361	ppb	0.0821	227.4	13.8349
Co 228.615	0.1329	ppb	0.0913	68.7	-5.2258
Cr 267.716	0.0219	ppb	0.1147	523.1	22.5785
Cu 324.754	1.1564	ppb	0.0700	6.1	205.987
Fe 271.441	2.0733	ppb	3.7760	182.1	19.7021
K 766.491	1900.51	ppb	25.3337	1.3	81981.0
Mg 279.078	5611.33	ppb	58.7356	1.0	17607.6
Mn 257.610	10.2661	ppb	0.0878	0.9	2889.09
Mo 202.032	-0.1901	ppb	0.0855	45.0	6.1827
Na 330.237	46657.0	ppb	482.342	1.0	2994.59
Ni 231.604	6.6651	ppb	0.3717	5.6	24.0484
Pb 220.353	0.6833	ppb	0.6711	98.2	14.6327
Sb 206.834	0.1219	ppb	1.7222	1412.8	0.5911
Se 196.026	2.7542	ppb	3.8025	138.1	2.6440
Sn 189.925	-0.3958	ppb	0.7033	177.7	-13.6740
Sr 216.596	34.2650	ppb	0.4750	1.4	594.461
Ti 334.941	-0.0708	ppb	0.0339	47.9	-71.7250
Tl 190.794	-1.7611	ppb	1.1168	63.4	-15.7840
V 292.401	0.2947	ppb	0.0957	32.5	5.1298
Zn 206.200	2.3860	ppb	0.4031	16.9	10.8696

680-94579-a-1-bPDS (Samp) **9/30/2013, 7:22:23 PM** **Rack 2, Tube 42**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	46.1616	46.5431	46.4551
Al 308.215	1968.29	1967.14	1961.85
As 188.980	191.418	194.544	188.740
B 249.678	569.421	570.507	571.910
Ba 389.178	201.777	201.592	201.742
Be 313.042	47.3427	47.4097	47.5030
Ca 370.602	11441	11428	11415
Cd 226.502	47.3034	47.3676	47.1765
Co 228.615	189.207	189.703	187.778
Cr 267.716	190.669	190.128	190.811
Cu 324.754	207.216	206.921	207.211
Fe 271.441	1860.92	1854.39	1853.88
K 766.491	13496.0	13579.3	14094.9
Mg 279.078	29111.7	29142.8	29124.3
Mn 257.610	248.993	248.764	248.736
Mo 202.032	194.815	194.187	195.193
Na 330.237	252710x	253132x	253262x
Ni 231.604	219.675	219.643	217.841
Pb 220.353	188.812	188.136	185.523
Sb 206.834	186.513	186.970	188.568
Se 196.026	207.510	199.505	202.336
Sn 189.925	192.685	189.601	188.225
Sr 216.596	361.016	359.794	360.050
Ti 334.941	192.508	192.515	192.730
Tl 190.794	178.093	179.048	180.020
V 292.401	191.492	191.346	192.169
Zn 206.200	203.541	199.739	201.221

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	46.3866b	ppb	0.1997	0.4	4264.44
Al 308.215	1965.76b	ppb	3.4380	0.2	11755.7
As 188.980	191.568b	ppb	2.9051	1.5	177.804
B 249.678	570.613b	ppb	1.2478	0.2	11515.5
Ba 389.178	201.704b	ppb	0.0980	0.0	5320.76
Be 313.042	47.4184b	ppb	0.0805	0.2	103746
Ca 370.602	11428b	ppb	12.90	0.1	36133
Cd 226.502	47.2825b	ppb	0.0972	0.2	2854.03
Co 228.615	188.896b	ppb	0.9993	0.5	2815.83
Cr 267.716	190.536b	ppb	0.3608	0.2	12195.5
Cu 324.754	207.116b	ppb	0.1688	0.1	14505.4
Fe 271.441	1856.40b	ppb	3.9265	0.2	3752.08
K 766.491	13723.4b	ppb	324.420	2.4	590475
Mg 279.078	29126.2b	ppb	15.6167	0.1	91250.8
Mn 257.610	248.831b	ppb	0.1411	0.1	68144.6
Mo 202.032	194.732b	ppb	0.5082	0.3	1713.63
Na 330.237	253035xb	ppb	288.340	0.1	16037.9
Ni 231.604	219.053b	ppb	1.0494	0.5	888.858
Pb 220.353	187.490b	ppb	1.7371	0.9	417.016
Sb 206.834	187.350b	ppb	1.0789	0.6	312.226
Se 196.026	203.117b	ppb	4.0592	2.0	103.807
Sn 189.925	190.170b	ppb	2.2838	1.2	205.562
Sr 216.596	360.287b	ppb	0.6445	0.2	6147.71

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ti 334.941	192.585b	ppb	0.1263	0.1	57153.1
Tl 190.794	179.053b	ppb	0.9634	0.5	258.227
V 292.401	191.669b	ppb	0.4392	0.2	6017.12
Zn 206.200	201.500b	ppb	1.9163	1.0	376.113

680-94579-a-1-c ms (Samp) **9/30/2013, 7:26:58 PM** **Rack 2, Tube 43**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	95.1545	94.9799	95.3022
Al 308.215	999.331	995.352	1004.17
As 188.980	101.646	102.529	106.766
B 249.678	286.757	287.309	288.461
Ba 389.178	104.803	104.225	104.602
Be 313.042	96.8682	96.7258	97.0046
Ca 370.602	17687	17691	17781
Cd 226.502	97.5569	97.4995	97.9123
Co 228.615	97.8688	97.7803	98.8608
Cr 267.716	98.4809	98.4668	98.8090
Cu 324.754	109.810	109.774	109.970
Fe 271.441	9413.60	9390.42	9438.23
K 766.491	21147.4	21127.1	21101.8
Mg 279.078	32771.4	32728.8	32758.4
Mn 257.610	1047.94	1048.35	1050.99
Mo 202.032	100.162	99.8168	100.481
Na 330.237	221224x	221569x	221271x
Ni 231.604	125.954	123.544	124.738
Pb 220.353	96.1572	96.7020	95.1008
Sb 206.834	98.5917	96.9802	99.5995
Se 196.026	108.953	104.435	112.499
Sn 189.925	97.2071	97.9626	97.2707
Sr 216.596	240.726	241.465	243.123
Ti 334.941	96.6272	96.6482	97.1310
Tl 190.794	22.3116	18.6313	18.7409
V 292.401	99.9516	100.014	100.536
Zn 206.200	108.950	108.915	110.419

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	95.1455b	ppb	0.1614	0.2	8797.47
Al 308.215	999.619b	ppb	4.4181	0.4	5956.48
As 188.980	103.647b	ppb	2.7371	2.6	92.4420
B 249.678	287.509b	ppb	0.8693	0.3	5829.60
Ba 389.178	104.543b	ppb	0.2935	0.3	2814.11
Be 313.042	96.8662b	ppb	0.1394	0.1	212324
Ca 370.602	17720b	ppb	53.26	0.3	55422
Cd 226.502	97.6562b	ppb	0.2236	0.2	5905.15
Co 228.615	98.1700b	ppb	0.5999	0.6	1460.27
Cr 267.716	98.5855b	ppb	0.1936	0.2	6328.92
Cu 324.754	109.851b	ppb	0.1040	0.1	7755.88
Fe 271.441	9414.08b	ppb	23.9046	0.3	18824.2
K 766.491	21125.5b	ppb	22.8455	0.1	908833
Mg 279.078	32752.9b	ppb	21.8660	0.1	102593
Mn 257.610	1049.09b	ppb	1.6587	0.2	286325
Mo 202.032	100.153b	ppb	0.3324	0.3	884.641

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Na 330.237	221355xb	ppb	186.727	0.1	14034.2
Ni 231.604	124.746b	ppb	1.2051	1.0	505.145
Pb 220.353	95.9867b	ppb	0.8141	0.8	220.942
Sb 206.834	98.3905b	ppb	1.3212	1.3	165.435
Se 196.026	108.629b	ppb	4.0415	3.7	56.3573
Sn 189.925	97.4801b	ppb	0.4190	0.4	98.9688
Sr 216.596	241.771b	ppb	1.2274	0.5	4142.97
Ti 334.941	96.8021b	ppb	0.2850	0.3	28771.0
Tl 190.794	19.8946b	ppb	2.0939	10.5	15.7791
V 292.401	100.167b	ppb	0.3206	0.3	3142.36
Zn 206.200	109.428b	ppb	0.8580	0.8	207.345

680-94579-a-1-d msd (Samp) **9/30/2013, 7:31:34 PM** **Rack 2, Tube 44**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	85.6783	85.5001	85.4490
Al 308.215	894.209	895.660	896.093
As 188.980	87.9007	91.1392	91.6838
B 249.678	257.977	258.909	260.115
Ba 389.178	92.8967	93.7685	93.7473
Be 313.042	87.3736	87.3395	87.0539
Ca 370.602	16319	16310	16351
Cd 226.502	87.5429	88.1132	87.4625
Co 228.615	88.3878	88.3734	87.5774
Cr 267.716	89.1061	89.1579	89.3473
Cu 324.754	96.0569	95.8411	95.7153
Fe 271.441	8474.07	8488.77	8461.35
K 766.491	18987.0	18998.1	18952.2
Mg 279.078	29885.9	29961.1	29881.9
Mn 257.610	944.533	945.965	945.771
Mo 202.032	90.1318	90.4572	90.2624
Na 330.237	202377x	202964x	201983x
Ni 231.604	112.473	112.461	110.139
Pb 220.353	83.0869	85.3915	90.1769
Sb 206.834	90.3719	90.9244	92.5448
Se 196.026	87.1057	99.7558	94.0548
Sn 189.925	86.5309	85.1152	88.6328
Sr 216.596	220.401	220.296	219.953
Ti 334.941	87.4334	87.7790	87.3482
Tl 190.794	19.4271	14.3374	16.0890
V 292.401	90.3887	90.0434	89.8478
Zn 206.200	96.3108	93.7513	95.9679

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	85.5424b	ppb	0.1204	0.1	7907.27
Al 308.215	895.321b	ppb	0.9867	0.1	5330.48
As 188.980	90.2412b	ppb	2.0452	2.3	79.4572
B 249.678	259.000b	ppb	1.0717	0.4	5261.74
Ba 389.178	93.4709b	ppb	0.4973	0.5	2515.91
Be 313.042	87.2556b	ppb	0.1756	0.2	191231
Ca 370.602	16326b	ppb	21.50	0.1	51077
Cd 226.502	87.7062b	ppb	0.3548	0.4	5305.23
Co 228.615	88.1128b	ppb	0.4638	0.5	1309.95

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Cr 267.716	89.2038b	ppb	0.1270	0.1	5728.57
Cu 324.754	95.8711b	ppb	0.1728	0.2	6784.99
Fe 271.441	8474.73b	ppb	13.7214	0.2	16947.4
K 766.491	18979.1b	ppb	23.9471	0.1	816517
Mg 279.078	29909.6b	ppb	44.5848	0.1	93690.2
Mn 257.610	945.423b	ppb	0.7770	0.1	258038
Mo 202.032	90.2838b	ppb	0.1638	0.2	798.240
Na 330.237	202441xb	ppb	493.708	0.2	12839.0
Ni 231.604	111.691b	ppb	1.3440	1.2	451.957
Pb 220.353	86.2184b	ppb	3.6166	4.2	199.799
Sb 206.834	91.2804b	ppb	1.1294	1.2	153.489
Se 196.026	93.6388b	ppb	6.3353	6.8	48.7642
Sn 189.925	86.7596b	ppb	1.7699	2.0	86.6311
Sr 216.596	220.217b	ppb	0.2346	0.1	3774.47
Ti 334.941	87.5202b	ppb	0.2281	0.3	26006.3
Tl 190.794	16.6178b	ppb	2.5857	15.6	10.9410
V 292.401	90.0933b	ppb	0.2739	0.3	2825.91
Zn 206.200	95.3434b	ppb	1.3893	1.5	181.480

680-94621-c-1-c (Samp) **9/30/2013, 7:36:09 PM** **Rack 2, Tube 45**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	0.4537	0.3649	-0.0320u
Al 308.215	407.195	406.157	404.682
As 188.980	2.3302	-4.6214u	-2.1528u
B 249.678	103.347	103.587	104.410
Ba 389.178	10.8968	11.2785	11.1389
Be 313.042	0.0307	0.0262	0.0283
Ca 370.602	27098	27041	27044
Cd 226.502	-0.1821	-0.2077	-0.1928
Co 228.615	0.6312	0.5471	0.9202
Cr 267.716	5.2291	5.0638	5.1034
Cu 324.754	2.7420	3.0463	3.1030
Fe 271.441	9323.17	9278.43	9318.10
K 766.491	2345.27	2335.30	2338.90
Mg 279.078	2120.03	2112.58	2124.50
Mn 257.610	152.188	151.847	152.231
Mo 202.032	0.9482	0.1238	0.4283
Na 330.237	20626.9	20749.0	20679.0
Ni 231.604	3.6261	4.2280	4.7554
Pb 220.353	2.2021	2.5174	-1.5653u
Sb 206.834	3.0605	-0.1337	1.5177
Se 196.026	-0.5410u	5.6258	5.5478
Sn 189.925	0.4005	0.4559	1.2942
Sr 216.596	115.038	114.332	115.168
Ti 334.941	2.4559	2.4274	2.4232
Tl 190.794	-3.9281u	-2.8707u	-1.1705u
V 292.401	1.7637	1.7212	1.5922
Zn 206.200	13.2165	12.7054	13.6968

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.2622	ppb	0.2586	98.6	-2.4906
Al 308.215	406.011	ppb	1.2630	0.3	2400.03

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	-1.4813	ppb	3.5241	237.9	-9.4839
B 249.678	103.781	ppb	0.5573	0.5	2153.46
Ba 389.178	11.1047	ppb	0.1931	1.7	291.081
Be 313.042	0.0284	ppb	0.0023	8.0	-204.351
Ca 370.602	27061	ppb	32.07	0.1	84925
Cd 226.502	-0.1942	ppb	0.0129	6.6	47.3142
Co 228.615	0.6995	ppb	0.1957	28.0	3.7209
Cr 267.716	5.1321	ppb	0.0863	1.7	352.029
Cu 324.754	2.9638	ppb	0.1941	6.6	335.243
Fe 271.441	9306.57	ppb	24.4959	0.3	18593.7
K 766.491	2339.83	ppb	5.0491	0.2	100876
Mg 279.078	2119.04	ppb	6.0238	0.3	6668.67
Mn 257.610	152.089	ppb	0.2103	0.1	41541.3
Mo 202.032	0.5001	ppb	0.4169	83.4	11.6659
Na 330.237	20685.0	ppb	61.2751	0.3	1348.85
Ni 231.604	4.2031	ppb	0.5651	13.4	14.3142
Pb 220.353	1.0514	ppb	2.2716	216.1	16.3025
Sb 206.834	1.4815	ppb	1.5974	107.8	3.2711
Se 196.026	3.5442	ppb	3.5381	99.8	3.1102
Sn 189.925	0.7169	ppb	0.5007	69.8	-12.3944
Sr 216.596	114.846	ppb	0.4500	0.4	1985.36
Ti 334.941	2.4355	ppb	0.0178	0.7	658.132
Tl 190.794	-2.6564	ppb	1.3913	52.4	-18.1341
V 292.401	1.6924	ppb	0.0893	5.3	49.1824
Zn 206.200	13.2062	ppb	0.4958	3.8	30.8578

680-94659-a-1-b (Samp) **9/30/2013, 7:40:45 PM** **Rack 2, Tube 46**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.3768	0.4492	0.4571
Al 308.215	226.242	228.218	226.551
As 188.980	17.7835	21.2905	13.6357
B 249.678	10526.4x	10496.1x	10454.1x
Ba 389.178	4.6436	5.2501	4.7561
Be 313.042	0.3432u	0.3366u	0.3410u
Ca 370.602	1212	1213	1211
Cd 226.502	0.1944	0.1874	0.0265u
Co 228.615	-1.2479u	-0.7261u	-0.2532u
Cr 267.716	1.6765	1.5387	1.4847
Cu 324.754	51.1622	51.1734	50.9543
Fe 271.441	120.269	121.786	115.229
K 766.491	201939x	201777x	201464x
Mg 279.078	271.231	269.343	274.092
Mn 257.610	13.4695	13.4605	13.3248
Mo 202.032	19200.5x	19151.0x	19089.2x
Na 330.237	251852x	252227x	251015x
Ni 231.604	-0.5215u	-0.9837u	-1.0847u
Pb 220.353	191.303	193.141	192.684
Sb 206.834	-87.8147u	-88.1927u	-92.6802u
Se 196.026	12.4128	8.2710	9.7144
Sn 189.925	26.8693	29.0468	28.1037
Sr 216.596	7.3078u	7.1826u	7.4785u
Ti 334.941	-0.6276u	-0.6253u	-0.6600u

Label	Replicates	Concentration	
Tl 190.794	-19.0622u	-13.2383u	-14.1880u
V 292.401	-3.7994u	-4.8742u	-4.2852u
Zn 206.200	66.8154	64.5734	66.8516

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.4277b	ppb	0.0443	10.3	17.6822
Al 308.215	227.004b	ppb	1.0628	0.5	2319.15
As 188.980	17.5699b	ppb	3.8319	21.8	1.2787
B 249.678	10492.2xb	ppb	36.2807	0.3	210054
Ba 389.178	4.8833b	ppb	0.3226	6.6	215.656
Be 313.042	0.3403b	ppb	0.0034	1.0	-2957.70
Ca 370.602	1212b	ppb	1.186	0.1	3820
Cd 226.502	0.1361b	ppb	0.0950	69.8	22.8322
Co 228.615	-0.7424b	ppb	0.4976	67.0	-693.523
Cr 267.716	1.5666b	ppb	0.0989	6.3	127.975
Cu 324.754	51.0966b	ppb	0.1234	0.2	4392.19
Fe 271.441	119.095b	ppb	3.4323	2.9	273.905
K 766.491	201727xb	ppb	241.482	0.1	8676359
Mg 279.078	271.555b	ppb	2.3911	0.9	883.240
Mn 257.610	13.4183b	ppb	0.0810	0.6	3695.75
Mo 202.032	19146.9xb	ppb	55.7851	0.3	167782
Na 330.237	251698xb	ppb	620.556	0.2	15957.3
Ni 231.604	-0.8633b	ppb	0.3003	34.8	-6.4707
Pb 220.353	192.376b	ppb	0.9570	0.5	395.465
Sb 206.834	-89.5625b	ppb	2.7066	3.0	-544.297
Se 196.026	10.1327b	ppb	2.1024	20.7	6.3682
Sn 189.925	28.0066b	ppb	1.0920	3.9	19.0912
Sr 216.596	7.3230b	ppb	0.1485	2.0	-249.782
Ti 334.941	-0.6377b	ppb	0.0194	3.0	-283.392
Tl 190.794	-15.4961b	ppb	3.1246	20.2	-49.1995
V 292.401	-4.3196b	ppb	0.5382	12.5	-3796.81
Zn 206.200	66.0801b	ppb	1.3050	2.0	127.969

lb 680-295884/7-c (Samp) **9/30/2013, 7:45:21 PM** **Rack 2, Tube 47**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	0.0743	0.0173	0.1097
Al 308.215	2.3430	2.5452	1.9892
As 188.980	-0.8327u	-0.1382u	2.6740
B 249.678	79.1372	67.4711	57.9290
Ba 389.178	0.4584	0.8202	-0.1411u
Be 313.042	0.0089	0.0141	0.0244
Ca 370.602	78.26	78.87	80.94
Cd 226.502	-0.1134u	-0.0169u	0.0239
Co 228.615	0.0909	-0.1400u	-0.0999u
Cr 267.716	-0.0636u	0.1317	-0.1245u
Cu 324.754	1.3258	1.3196	1.0618
Fe 271.441	2.1792	3.5586	-5.0000u
K 766.491	43.9117	43.2740	43.7645
Mg 279.078	13.9249	12.5668	14.2122
Mn 257.610	0.0972	0.1534	0.0917
Mo 202.032	0.1819	0.3263	0.3464
Na 330.237	95753.6x	95437.2x	96419.1x

Label	Replicates Concentration		
Ni 231.604	0.0601	0.3952	0.3384
Pb 220.353	-1.9410u	1.8153	1.7229
Sb 206.834	5.0678	0.1236	-0.1764u
Se 196.026	5.0414	3.7805	3.0717
Sn 189.925	0.1707	-3.2768u	-1.8165u
Sr 216.596	-0.0839u	0.3576	-0.1248u
Ti 334.941	-0.0196u	-0.0197u	-0.0050u
Tl 190.794	-2.3538u	-0.3272u	-2.4632u
V 292.401	-0.0412u	-0.1325u	-0.0707u
Zn 206.200	3.0922	2.9340	3.2872

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0671b	ppb	0.0466	69.5	-15.0560
Al 308.215	2.2925b	ppb	0.2814	12.3	-28.8784
As 188.980	0.5677b	ppb	1.8569	327.1	-7.3602
B 249.678	68.1791b	ppb	10.6218	15.6	1466.88
Ba 389.178	0.3791b	ppb	0.4855	128.1	-9.0388
Be 313.042	0.0158b	ppb	0.0079	49.9	-252.684
Ca 370.602	79.36b	ppb	1.408	1.8	246.5
Cd 226.502	-0.0355b	ppb	0.0705	198.8	13.2820
Co 228.615	-0.0497b	ppb	0.1234	248.3	-7.9731
Cr 267.716	-0.0188b	ppb	0.1339	712.3	21.1613
Cu 324.754	1.2357b	ppb	0.1507	12.2	211.517
Fe 271.441	0.2459b	ppb	4.5952	1868.6	16.0229
K 766.491	43.6501b	ppb	0.3339	0.8	2118.76
Mg 279.078	13.5680b	ppb	0.8788	6.5	75.5437
Mn 257.610	0.1141b	ppb	0.0342	29.9	67.6728
Mo 202.032	0.2849b	ppb	0.0897	31.5	10.3457
Na 330.237	95870.0xb	ppb	501.219	0.5	6106.11
Ni 231.604	0.2646b	ppb	0.1793	67.8	-2.0295
Pb 220.353	0.5324b	ppb	2.1425	402.4	14.3037
Sb 206.834	1.6717b	ppb	2.9450	176.2	3.1637
Se 196.026	3.9645b	ppb	0.9977	25.2	3.2521
Sn 189.925	-1.6408b	ppb	1.7305	105.5	-15.0809
Sr 216.596	0.0496b	ppb	0.2675	539.1	10.9451
Ti 334.941	-0.0148b	ppb	0.0084	57.1	-86.2866
Tl 190.794	-1.7147b	ppb	1.2029	70.2	-15.7079
V 292.401	-0.0815b	ppb	0.0466	57.2	-7.4209
Zn 206.200	3.1045b	ppb	0.1770	5.7	12.1907

680-94506-a-18-b (Samp) **9/30/2013, 7:49:57 PM** **Rack 2, Tube 48**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.0667u	0.0207	0.1169
Al 308.215	3.2651	4.2700	1.2304
As 188.980	-1.0976u	-1.0221u	2.8702
B 249.678	31.9042	30.1976	30.9705
Ba 389.178	34.6600	34.5553	34.6058
Be 313.042	0.0060	0.0075	0.0197
Ca 370.602	27275	27073	27076
Cd 226.502	0.1305	-0.0873u	0.0215
Co 228.615	-0.1068u	0.3012	-0.3610u
Cr 267.716	0.1495	0.2143	0.2643

Label	Replicates Concentration		
Cu 324.754	0.2034	0.3959	0.4506
Fe 271.441	1.5468	-1.7436u	1.3576
K 766.491	286.554	285.322	285.113
Mg 279.078	9002.69	9009.74	9018.06
Mn 257.610	42.0943	41.9722	41.8229
Mo 202.032	-0.1863u	0.0490	-0.2469u
Na 330.237	119837x	119545x	120082x
Ni 231.604	1.5092	0.6087	0.9347
Pb 220.353	-2.2245u	-1.0590u	-0.4384u
Sb 206.834	4.8041	-1.3881u	-1.2040u
Se 196.026	0.0126	-1.8317u	-1.9266u
Sn 189.925	-1.1414u	2.4377	0.4751
Sr 216.596	24.0761	24.0013	24.1866
Ti 334.941	0.0116	0.0061	-0.0990
Tl 190.794	0.2917	-1.3960u	0.4463
V 292.401	0.4191	0.7788	0.3586
Zn 206.200	7.3467	7.4296	7.4398

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0236b	ppb	0.0919	388.4	-20.3939
Al 308.215	2.9218b	ppb	1.5486	53.0	-25.2185
As 188.980	0.2502b	ppb	2.2693	907.2	-7.6680
B 249.678	31.0241b	ppb	0.8546	2.8	723.404
Ba 389.178	34.6070b	ppb	0.0524	0.2	908.234
Be 313.042	0.0111b	ppb	0.0075	67.9	-256.333
Ca 370.602	27141b	ppb	115.6	0.4	85910
Cd 226.502	0.0215b	ppb	0.1089	505.6	16.6502
Co 228.615	-0.0555b	ppb	0.3341	602.0	-8.0453
Cr 267.716	0.2094b	ppb	0.0576	27.5	36.5681
Cu 324.754	0.3499b	ppb	0.1299	37.1	150.018
Fe 271.441	0.3870b	ppb	1.8475	477.4	16.3102
K 766.491	285.663b	ppb	0.7787	0.3	12527.6
Mg 279.078	9010.16b	ppb	7.6957	0.1	28252.1
Mn 257.610	41.9631b	ppb	0.1360	0.3	11561.1
Mo 202.032	-0.1281b	ppb	0.1563	122.1	6.7260
Na 330.237	119821xb	ppb	268.973	0.2	7620.37
Ni 231.604	1.0175b	ppb	0.4559	44.8	1.0384
Pb 220.353	-1.2406b	ppb	0.9068	73.1	10.4934
Sb 206.834	0.7373b	ppb	3.5231	477.8	1.6185
Se 196.026	-1.2486b	ppb	1.0933	87.6	0.6323
Sn 189.925	0.5905b	ppb	1.7924	303.6	-12.4875
Sr 216.596	24.0880b	ppb	0.0932	0.4	425.024
Ti 334.941	-0.0271b	ppb	0.0623	230.0	-48.9059
Tl 190.794	-0.2193b	ppb	1.0219	466.0	-13.4745
V 292.401	0.5188b	ppb	0.2272	43.8	11.5378
Zn 206.200	7.4054b	ppb	0.0511	0.7	20.0970

Cont Calib Verif (CCV) **9/30/2013, 7:54:33 PM** **Rack 2, Tube 49**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	482.004	488.809	479.669
Al 308.215	4914.93	4976.53	4910.95
As 188.980	476.470	489.033	483.202

Label	Replicates Concentration		
B 249.678	486.338	493.620	487.744
Ba 389.178	4950.78	5028.06	4952.68
Be 313.042	484.679	492.348	486.892
Ca 370.602	5083	5150	5077
Cd 226.502	491.485	497.963	491.152
Co 228.615	491.899	498.381	491.203
Cr 267.716	4967.10	5038.76	4971.06
Cu 324.754	5083.98	5164.14	5028.08
Fe 271.441	4723.08	4808.06	4748.74
K 766.491	10067.2	10216.7	10101.9
Mg 279.078	4867.64	4920.67	4855.39
Mn 257.610	5060.23	5107.99	5045.22
Mo 202.032	503.479	508.274	501.666
Na 330.237	7012.81	6999.21	6972.64
Ni 231.604	2468.79	2494.76	2457.70
Pb 220.353	495.190	499.525	494.871
Sb 206.834	993.440	1011.92	996.413
Se 196.026	5131.15	5175.43	5101.62
Sn 189.925	4979.06	5045.63	4947.95
Sr 216.596	2518.45	2556.00	2516.25
Ti 334.941	487.241	493.832	487.536
Tl 190.794	5044.19	5096.69	5044.36
V 292.401	4885.51	4969.13	4906.03
Zn 206.200	2472.36	2487.56	2459.50

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	483.494	ppb	4.7491	1.0	44757.5	96.69879
Al 308.215	4934.14	ppb	36.7655	0.7	28828.8	98.68273
As 188.980	482.902	ppb	6.2866	1.3	460.231	96.58034
B 249.678	489.234	ppb	3.8630	0.8	9878.89	97.84676
Ba 389.178	4977.17	ppb	44.0792	0.9	129547	99.54346
Be 313.042	487.973	ppb	3.9471	0.8	1070659	97.59453
Ca 370.602	5103	ppb	40.63	0.8	16214	102.06249
Cd 226.502	493.533	ppb	3.8396	0.8	29587.6	98.70668
Co 228.615	493.828	ppb	3.9588	0.8	7387.58	98.76553
Cr 267.716	4992.31	ppb	40.2795	0.8	318846	99.84615
Cu 324.754	5092.07	ppb	68.3883	1.3	353476	101.84141
Fe 271.441	4759.96	ppb	43.5850	0.9	9645.69	95.19916
K 766.491	10128.6	ppb	78.2360	0.8	435864	101.28571
Mg 279.078	4881.23	ppb	34.7008	0.7	15201.2	97.62469
Mn 257.610	5071.15	ppb	32.7751	0.6	1382301	101.42292
Mo 202.032	504.473	ppb	3.4142	0.7	4416.76	100.89455
Na 330.237	6994.89	ppb	20.4282	0.3	438.606	93.26517
Ni 231.604	2473.75	ppb	19.0226	0.8	10074.6	98.94989
Pb 220.353	496.529	ppb	2.5999	0.5	1083.94	99.30574
Sb 206.834	1000.59	ppb	9.9221	1.0	1739.49	100.05903
Se 196.026	5136.07	ppb	37.1534	0.7	2594.02	102.72131
Sn 189.925	4990.88	ppb	49.9030	1.0	5725.56	99.81763
Sr 216.596	2530.23	ppb	22.3411	0.9	43082.4	101.20922
Ti 334.941	489.536	ppb	3.7232	0.8	145116	97.90730
Tl 190.794	5061.75	ppb	30.2603	0.6	7645.07	101.23499
V 292.401	4920.22	ppb	43.5828	0.9	155385	98.40443
Zn 206.200	2473.14	ppb	14.0486	0.6	4530.96	98.92556

Cont Calib Blank (CCB) **9/30/2013, 7:59:09 PM** **Rack 2, Tube 50**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.3148	0.0678	0.0906
Al 308.215	0.7071	-1.4411u	0.4021
As 188.980	1.7884	4.0127	3.7548
B 249.678	7.8791	7.9948	6.7618
Ba 389.178	0.0363	0.3235	0.8424
Be 313.042	0.0116	0.0080	0.0074
Ca 370.602	3.386	3.940	3.231
Cd 226.502	-0.1194u	0.0163	-0.0091u
Co 228.615	0.7519	0.2363	0.2894
Cr 267.716	0.0017	0.0692	0.1953
Cu 324.754	-0.2164u	0.2591	0.0151
Fe 271.441	3.2346	-1.7294u	-1.0079u
K 766.491	3.1561	3.0797	3.4936
Mg 279.078	-0.9369u	0.8988	-1.2140u
Mn 257.610	0.0481	0.0297	0.0610
Mo 202.032	0.3279	0.1286	0.2934
Na 330.237	-94.6142u	5.1838	-40.1190u
Ni 231.604	-0.1252u	0.2257	0.6854
Pb 220.353	1.1189	-0.4512u	-2.5221u
Sb 206.834	4.1139	3.2006	2.7584
Se 196.026	5.7813	-4.0188u	8.3201
Sn 189.925	0.8408	-0.3235u	3.4338
Sr 216.596	-0.0878u	0.0508	0.0332
Ti 334.941	0.1130	0.1444	0.1729
Tl 190.794	0.1157	1.3277	-2.2526u
V 292.401	-0.0655u	-0.0349u	0.1815
Zn 206.200	-1.3140u	0.1751	-0.6403u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.1578	ppb	0.1365	86.5	-6.6340	0.15776
Al 308.215	-0.1106	ppb	1.1623	1050.6	-43.3861	-0.11062
As 188.980	3.1853	ppb	1.2166	38.2	-4.8215	3.18532
B 249.678	7.5452	ppb	0.6809	9.0	253.589	7.54524
Ba 389.178	0.4007	ppb	0.4086	102.0	-8.5196	0.40073
Be 313.042	0.0090	ppb	0.0022	24.8	-253.921	0.00899
Ca 370.602	3.519	ppb	0.3728	10.6	6.637	3.51886
Cd 226.502	-0.0374	ppb	0.0721	192.8	14.0753	-0.03741
Co 228.615	0.4258	ppb	0.2836	66.6	-0.8597	0.42585
Cr 267.716	0.0888	ppb	0.0983	110.7	25.6148	0.08876
Cu 324.754	0.0193	ppb	0.2377	1233.8	127.087	0.01927
Fe 271.441	0.1658	ppb	2.6821	1617.9	15.9376	0.16578
K 766.491	3.2431	ppb	0.2202	6.8	380.888	3.24310
Mg 279.078	-0.4174	ppb	1.1482	275.1	31.7443	-0.41736
Mn 257.610	0.0463	ppb	0.0158	34.0	49.7009	0.04627
Mo 202.032	0.2500	ppb	0.1065	42.6	10.0399	0.24999
Na 330.237	-43.1831	ppb	49.9695	115.7	41.9838	-43.18310
Ni 231.604	0.2620	ppb	0.4065	155.2	-2.0416	0.26198
Pb 220.353	-0.6181	ppb	1.8263	295.4	11.8230	-0.61814
Sb 206.834	3.3577	ppb	0.6913	20.6	5.9787	3.35765
Se 196.026	3.3608	ppb	6.5158	193.9	2.9475	3.36084
Sn 189.925	1.3170	ppb	1.9234	146.0	-11.7299	1.31703
Sr 216.596	-0.0013	ppb	0.0755	5762.2	10.0753	-0.00131

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ti 334.941	0.1434	ppb	0.0300	20.9	-31.0341	0.14343
Tl 190.794	-0.2697	ppb	1.8210	675.1	-13.5197	-0.26973
V 292.401	0.0270	ppb	0.1347	498.2	-3.0437	0.02703
Zn 206.200	-0.5931	ppb	0.7457	125.7	5.3923	-0.59307

680-94578-a-6-b (Samp) **9/30/2013, 8:03:45 PM** **Rack 2, Tube 51**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.1464	-0.0521u	-0.1122u
Al 308.215	12.0536	12.1919	12.8677
As 188.980	-2.3446u	-0.9442u	-3.5606u
B 249.678	125.720	124.854	125.955
Ba 389.178	16.4839	15.7932	15.9762
Be 313.042	0.0034	0.0062	0.0057
Ca 370.602	47450	47218	47026
Cd 226.502	-0.0165u	-0.1272u	-0.0049u
Co 228.615	0.0025u	0.2259	0.2879
Cr 267.716	0.3444	0.2673	0.4106
Cu 324.754	-0.2128u	-0.2858u	-0.0666u
Fe 271.441	18.2141	17.0756	11.8909
K 766.491	494.639	494.646	495.220
Mg 279.078	729.676	729.011	728.112
Mn 257.610	32.1592	32.1506	32.1028
Mo 202.032	9.3896	9.7571	9.2065
Na 330.237	120258x	118955x	119034x
Ni 231.604	0.0223	0.9354	0.8891
Pb 220.353	0.1086	1.6257	0.8525
Sb 206.834	3.2932	1.4722	2.8523
Se 196.026	7.9384	1.6153	-0.3985u
Sn 189.925	3.0805	0.8058	2.6628
Sr 216.596	36.0157	36.0209	35.5293
Ti 334.941	0.3794	0.2817	0.2788
Tl 190.794	-0.5287u	1.1706	-2.1019u
V 292.401	0.6567	0.5207	0.7532
Zn 206.200	703.972	697.948	691.728

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0060b	ppb	0.1353	2272.1	-23.7425
Al 308.215	12.3711b	ppb	0.4356	3.5	32.1173
As 188.980	-2.2831b	ppb	1.3093	57.3	-10.1290
B 249.678	125.510b	ppb	0.5801	0.5	2614.05
Ba 389.178	16.0845b	ppb	0.3578	2.2	401.864
Be 313.042	0.0051b	ppb	0.0015	28.6	-262.544
Ca 370.602	47231b	ppb	212.4	0.4	149503
Cd 226.502	-0.0495b	ppb	0.0675	136.2	12.2867
Co 228.615	0.1721b	ppb	0.1501	87.2	-4.9765
Cr 267.716	0.3408b	ppb	0.0717	21.0	44.8794
Cu 324.754	-0.1884b	ppb	0.1116	59.2	113.022
Fe 271.441	15.7269b	ppb	3.3705	21.4	46.9767
K 766.491	494.835b	ppb	0.3332	0.1	21523.9
Mg 279.078	728.933b	ppb	0.7852	0.1	2315.33
Mn 257.610	32.1375b	ppb	0.0304	0.1	8803.52
Mo 202.032	9.4510b	ppb	0.2804	2.8	90.6616

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Na 330.237	119415xb	ppb	731.018	0.6	7582.19
Ni 231.604	0.6156b	ppb	0.5143	83.5	-0.5983
Pb 220.353	0.8623b	ppb	0.7586	88.0	15.0088
Sb 206.834	2.5392b	ppb	0.9500	37.4	4.4273
Se 196.026	3.0517b	ppb	4.3501	142.5	2.7996
Sn 189.925	2.1830b	ppb	1.2108	55.5	-10.6449
Sr 216.596	35.8553b	ppb	0.2823	0.8	628.720
Ti 334.941	0.3133b	ppb	0.0572	18.3	12.3711
Tl 190.794	-0.4866b	ppb	1.6366	336.3	-13.8784
V 292.401	0.6435b	ppb	0.1168	18.2	13.5413
Zn 206.200	697.883b	ppb	6.1222	0.9	1289.58

680-94578-a-6-c ms (Samp) **9/30/2013, 8:08:20 PM** **Rack 2, Tube 52**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	87.9777	88.2719	88.1398
Al 308.215	929.209	931.114	930.286
As 188.980	97.7243	94.0407	98.5310
B 249.678	267.045	267.369	267.418
Ba 389.178	103.565	103.166	104.779
Be 313.042	89.9365	89.8895	90.0169
Ca 370.602	46228	46130	46143
Cd 226.502	90.6525	90.6942	90.6856
Co 228.615	92.2176	91.0808	91.4930
Cr 267.716	91.9948	91.6447	91.9944
Cu 324.754	96.0833	95.2783	95.7983
Fe 271.441	8772.08	8763.18	8768.74
K 766.491	10775.1	10777.8	10778.3
Mg 279.078	9318.81	9305.59	9311.19
Mn 257.610	965.917	964.919	965.556
Mo 202.032	100.113	101.406	100.685
Na 330.237	102072x	101919x	101612x
Ni 231.604	90.8570	92.7987	90.5154
Pb 220.353	90.5823	90.5657	91.2204
Sb 206.834	92.5996	91.5282	88.3062
Se 196.026	96.6319	100.046	92.1420
Sn 189.925	85.9837	95.2123	92.8602
Sr 216.596	120.301	120.693	119.551
Ti 334.941	91.4690	91.4933	91.6337
Tl 190.794	16.2057	18.6660	17.9018
V 292.401	92.8248	93.1855	92.8903
Zn 206.200	634.382	629.262	627.408

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	88.1298b	ppb	0.1473	0.2	8153.18
Al 308.215	930.203b	ppb	0.9553	0.1	5540.28
As 188.980	96.7653b	ppb	2.3938	2.5	85.7764
B 249.678	267.277b	ppb	0.2027	0.1	5426.52
Ba 389.178	103.837b	ppb	0.8399	0.8	2725.54
Be 313.042	89.9476b	ppb	0.0644	0.1	197166
Ca 370.602	46167b	ppb	53.15	0.1	145515
Cd 226.502	90.6774b	ppb	0.0220	0.0	5484.99
Co 228.615	91.5971b	ppb	0.5755	0.6	1361.78

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Cr 267.716	91.8779b	ppb	0.2020	0.2	5896.95
Cu 324.754	95.7200b	ppb	0.4082	0.4	6774.97
Fe 271.441	8768.00b	ppb	4.4951	0.1	17533.4
K 766.491	10777.1b	ppb	1.7022	0.0	463755
Mg 279.078	9311.86b	ppb	6.6400	0.1	29177.3
Mn 257.610	965.464b	ppb	0.5053	0.1	263304
Mo 202.032	100.735b	ppb	0.6477	0.6	889.791
Na 330.237	101868xb	ppb	233.947	0.2	6470.34
Ni 231.604	91.3904b	ppb	1.2315	1.3	369.243
Pb 220.353	90.7895b	ppb	0.3733	0.4	209.663
Sb 206.834	90.8113b	ppb	2.2347	2.5	152.582
Se 196.026	96.2731b	ppb	3.9639	4.1	50.0988
Sn 189.925	91.3521b	ppb	4.7955	5.2	91.8759
Sr 216.596	120.182b	ppb	0.5805	0.5	2074.25
Ti 334.941	91.5320b	ppb	0.0889	0.1	27106.0
Tl 190.794	17.5912b	ppb	1.2592	7.2	12.3841
V 292.401	92.9669b	ppb	0.1922	0.2	2915.51
Zn 206.200	630.351b	ppb	3.6124	0.6	1165.11

680-94578-a-6-d msd (Samp) **9/30/2013, 8:12:56 PM** **Rack 2, Tube 53**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	110.087	109.901	109.927
Al 308.215	1163.75	1162.99	1169.51
As 188.980	118.427	118.363	118.024
B 249.678	327.042	328.574	329.060
Ba 389.178	128.727	126.731	128.241
Be 313.042	110.756	110.613	110.576
Ca 370.602	56729	56876	57056
Cd 226.502	112.423	112.185	112.517
Co 228.615	113.543	113.319	113.471
Cr 267.716	113.656	113.584	113.609
Cu 324.754	118.848	118.669	119.093
Fe 271.441	11111.9	11122.2	11118.2
K 766.491	13775.6	13706.6	13724.9
Mg 279.078	11461.4	11456.3	11445.1
Mn 257.610	1195.12	1196.84	1199.54
Mo 202.032	124.251	125.383	124.804
Na 330.237	124858x	125050x	125245x
Ni 231.604	113.595	112.427	112.120
Pb 220.353	111.633	113.671	110.623
Sb 206.834	108.287	114.707	115.933
Se 196.026	118.793	119.191	115.857
Sn 189.925	108.735	111.338	112.144
Sr 216.596	147.751	148.640	147.165
Ti 334.941	113.138	113.309	113.761
Tl 190.794	22.1346	23.7531	21.8631
V 292.401	114.830	114.860	115.636
Zn 206.200	768.204	773.833	773.663

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	109.972b	ppb	0.1005	0.1	10179.2
Al 308.215	1165.42b	ppb	3.5636	0.3	6952.21

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	118.271b	ppb	0.2167	0.2	106.592
B 249.678	328.225b	ppb	1.0532	0.3	6639.57
Ba 389.178	127.900b	ppb	1.0408	0.8	3362.03
Be 313.042	110.648b	ppb	0.0949	0.1	242604
Ca 370.602	56887b	ppb	163.5	0.3	179280
Cd 226.502	112.375b	ppb	0.1708	0.2	6794.74
Co 228.615	113.445b	ppb	0.1142	0.1	1688.31
Cr 267.716	113.617b	ppb	0.0367	0.0	7287.54
Cu 324.754	118.870b	ppb	0.2131	0.2	8383.17
Fe 271.441	11117.5b	ppb	5.1880	0.0	22227.0
K 766.491	13735.7b	ppb	35.7630	0.3	591004
Mg 279.078	11454.3b	ppb	8.3163	0.1	35882.5
Mn 257.610	1197.17b	ppb	2.2237	0.2	326485
Mo 202.032	124.813b	ppb	0.5662	0.5	1100.58
Na 330.237	125051xb	ppb	193.569	0.2	7932.64
Ni 231.604	112.714b	ppb	0.7781	0.7	456.129
Pb 220.353	111.976b	ppb	1.5526	1.4	255.548
Sb 206.834	112.976b	ppb	4.1063	3.6	189.725
Se 196.026	117.947b	ppb	1.8210	1.5	61.1002
Sn 189.925	110.739b	ppb	1.7817	1.6	114.186
Sr 216.596	147.852b	ppb	0.7426	0.5	2549.91
Ti 334.941	113.402b	ppb	0.3217	0.3	33600.0
Tl 190.794	22.5836b	ppb	1.0219	4.5	19.6456
V 292.401	115.109b	ppb	0.4569	0.4	3610.86
Zn 206.200	771.900b	ppb	3.2021	0.4	1425.29

680-94582-a-8-b (Samp) **9/30/2013, 8:17:31 PM** **Rack 2, Tube 54**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.0547	-0.0249u	-0.0692u
Al 308.215	157.309	156.017	158.882
As 188.980	34.5887	24.1032	30.3981
B 249.678	49.8183	50.2425	49.9691
Ba 389.178	18.7932	18.3947	18.9037
Be 313.042	0.0250	0.0240	0.0200
Ca 370.602	2649	2629	2626
Cd 226.502	-0.0302u	-0.0383u	-0.0103u
Co 228.615	-0.1057u	0.8577	0.7123
Cr 267.716	0.3571	0.2850	0.3155
Cu 324.754	0.3459	0.4143	0.7061
Fe 271.441	131.777	135.306	131.905
K 766.491	219.686	218.366	218.978
Mg 279.078	469.327	466.600	470.726
Mn 257.610	7.3897	7.3735	7.4069
Mo 202.032	0.0293	0.5844	0.0242
Na 330.237	106952x	107698x	107177x
Ni 231.604	0.6391	0.7609	0.7445
Pb 220.353	2712.38	2712.64	2711.44
Sb 206.834	45.9177	43.1302	44.2914
Se 196.026	-5.3737u	6.9689	-3.9828u
Sn 189.925	2.0718	0.3720	-1.2314u
Sr 216.596	6.4408	6.5346	6.6936
Ti 334.941	4.6690	4.5271	4.7098

Label	Replicates Concentration		
Tl 190.794	1.5646	0.6748	-2.1384u
V 292.401	0.4082	-0.0404u	0.3093
Zn 206.200	4.6781	3.6834	5.2341

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0131b	ppb	0.0628	478.2	-22.8211
Al 308.215	157.403b	ppb	1.4351	0.9	904.360
As 188.980	29.6966b	ppb	5.2778	17.8	20.8912
B 249.678	50.0100b	ppb	0.2150	0.4	1102.95
Ba 389.178	18.6972b	ppb	0.2677	1.4	469.236
Be 313.042	0.0230b	ppb	0.0026	11.3	-238.398
Ca 370.602	2634b	ppb	12.97	0.5	8327
Cd 226.502	-0.0262b	ppb	0.0144	54.8	14.4078
Co 228.615	0.4881b	ppb	0.5194	106.4	0.2068
Cr 267.716	0.3192b	ppb	0.0362	11.3	43.1309
Cu 324.754	0.4888b	ppb	0.1913	39.1	159.722
Fe 271.441	132.996b	ppb	2.0014	1.5	281.110
K 766.491	219.010b	ppb	0.6606	0.3	9660.88
Mg 279.078	468.884b	ppb	2.0981	0.4	1501.40
Mn 257.610	7.3900b	ppb	0.0167	0.2	2055.59
Mo 202.032	0.2126b	ppb	0.3220	151.4	9.7042
Na 330.237	107276xb	ppb	382.542	0.4	6827.13
Ni 231.604	0.7148b	ppb	0.0661	9.3	-0.1924
Pb 220.353	2712.15b	ppb	0.6303	0.0	5860.27
Sb 206.834	44.4464b	ppb	1.4002	3.2	74.4836
Se 196.026	-0.7959b	ppb	6.7603	849.4	0.8524
Sn 189.925	0.4041b	ppb	1.6519	408.7	-12.7221
Sr 216.596	6.5563b	ppb	0.1278	1.9	122.458
Ti 334.941	4.6353b	ppb	0.0959	2.1	1293.84
Tl 190.794	0.0337b	ppb	1.9329	5739.2	-13.0783
V 292.401	0.2257b	ppb	0.2357	104.4	2.2736
Zn 206.200	4.5318b	ppb	0.7856	17.3	14.8151

680-94606-a-2-d (Samp) **9/30/2013, 8:22:07 PM** **Rack 2, Tube 55**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.0954	0.0807	0.1801
Al 308.215	127.639	126.809	126.747
As 188.980	-0.2038u	0.1300	1.7657
B 249.678	2427.29	2424.05	2425.30
Ba 389.178	2.2229	2.9683	2.3255
Be 313.042	0.0082	0.0178	0.0047
Ca 370.602	6273	6259	6246
Cd 226.502	0.6122	0.5449	0.7393
Co 228.615	0.5937	0.6122	0.4556
Cr 267.716	0.2996	0.2779	0.4724
Cu 324.754	2.8604	2.5553	2.7025
Fe 271.441	242.296	245.850	247.264
K 766.491	347.453	345.947	342.544
Mg 279.078	180.106	177.992	180.071
Mn 257.610	97.8381	97.6330	97.4966
Mo 202.032	0.2020	-0.2927u	-0.1039u
Na 330.237	83623.5	83667.8	83312.8

Label	Replicates Concentration		
Ni 231.604	4.5359	3.7538	4.0311
Pb 220.353	4.0149	2.3190	2.9773
Sb 206.834	1.9083	2.4170	0.3452
Se 196.026	-0.1063u	5.1087	0.2614
Sn 189.925	0.8866	1.7629	-0.3704u
Sr 216.596	142.010	142.145	142.087
Ti 334.941	0.7897	0.8478	0.8266
Tl 190.794	0.4513	-1.4559u	-3.4575u
V 292.401	0.0114u	-0.0031u	-0.0872u
Zn 206.200	24.0056	24.9239	25.2955

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1187b	ppb	0.0536	45.2	-17.4181
Al 308.215	127.065b	ppb	0.4979	0.4	721.841
As 188.980	0.5640b	ppb	1.0541	186.9	-7.3657
B 249.678	2425.54b	ppb	1.6341	0.1	48637.5
Ba 389.178	2.5056b	ppb	0.4040	16.1	47.1743
Be 313.042	0.0102b	ppb	0.0067	65.9	-260.722
Ca 370.602	6259b	ppb	13.74	0.2	19793
Cd 226.502	0.6321b	ppb	0.0987	15.6	54.4914
Co 228.615	0.5538b	ppb	0.0856	15.5	1.0919
Cr 267.716	0.3500b	ppb	0.1066	30.5	45.0256
Cu 324.754	2.7061b	ppb	0.1526	5.6	313.650
Fe 271.441	245.137b	ppb	2.5597	1.0	504.974
K 766.491	345.315b	ppb	2.5148	0.7	15093.1
Mg 279.078	179.390b	ppb	1.2105	0.7	592.629
Mn 257.610	97.6559b	ppb	0.1719	0.2	26656.4
Mo 202.032	-0.0649b	ppb	0.2496	384.9	7.2665
Na 330.237	83534.7b	ppb	193.449	0.2	5325.72
Ni 231.604	4.1069b	ppb	0.3965	9.7	13.6318
Pb 220.353	3.1037b	ppb	0.8550	27.5	19.8932
Sb 206.834	1.5569b	ppb	1.0797	69.3	2.9936
Se 196.026	1.7546b	ppb	2.9105	165.9	2.1621
Sn 189.925	0.7597b	ppb	1.0723	141.1	-12.3236
Sr 216.596	142.081b	ppb	0.0679	0.0	2433.81
Ti 334.941	0.8214b	ppb	0.0294	3.6	163.570
Tl 190.794	-1.4874b	ppb	1.9546	131.4	-15.4523
V 292.401	-0.0263b	ppb	0.0532	202.7	-5.5078
Zn 206.200	24.7416b	ppb	0.6640	2.7	51.9732

680-94618-a-22-b (Samp) **9/30/2013, 8:26:42 PM** **Rack 2, Tube 56**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.0504	0.1326	-0.0381u
Al 308.215	386.182	389.208	392.405
As 188.980	-0.7210u	-3.0177u	0.5694
B 249.678	60.0873	59.0337	58.8572
Ba 389.178	19.5613	19.4917	20.7212
Be 313.042	0.0142	0.0193	0.0142
Ca 370.602	1845	1847	1856
Cd 226.502	0.0220	-0.0496u	0.0877
Co 228.615	0.3057	-0.0474u	0.7150
Cr 267.716	0.2547	0.2085	0.3999

Label	Replicates Concentration		
Cu 324.754	0.2160	0.0699	0.2175
Fe 271.441	10.0452	1.5991	8.2290
K 766.491	228.707	229.797	229.954
Mg 279.078	313.988	315.881	315.500
Mn 257.610	33.6495	33.7209	33.8895
Mo 202.032	0.0163	-0.0940u	-0.0680u
Na 330.237	106023x	105978x	106449x
Ni 231.604	0.7559	1.5522	1.1883
Pb 220.353	2.6061	2.6850	1.3941
Sb 206.834	-1.1608u	1.0843	0.0656
Se 196.026	-5.8088u	3.8824	8.3511
Sn 189.925	0.0507	-0.5425u	0.5222
Sr 216.596	17.6149	17.5573	17.5796
Ti 334.941	0.0136u	0.0406	0.0105u
Tl 190.794	-0.8222u	0.7925	-0.6900u
V 292.401	-0.3162u	0.0291u	0.1744
Zn 206.200	5.5431	5.8385	4.3333

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0483b	ppb	0.0854	176.7	-17.5672
Al 308.215	389.265b	ppb	3.1120	0.8	2299.55
As 188.980	-1.0565b	ppb	1.8169	172.0	-8.9298
B 249.678	59.3261b	ppb	0.6651	1.1	1289.72
Ba 389.178	19.9247b	ppb	0.6907	3.5	500.520
Be 313.042	0.0159b	ppb	0.0029	18.3	-253.154
Ca 370.602	1850b	ppb	5.911	0.3	5851
Cd 226.502	0.0200b	ppb	0.0686	342.5	16.5366
Co 228.615	0.3244b	ppb	0.3815	117.6	-2.3683
Cr 267.716	0.2877b	ppb	0.0999	34.7	41.1852
Cu 324.754	0.1678b	ppb	0.0848	50.5	137.390
Fe 271.441	6.6244b	ppb	4.4458	67.1	28.8139
K 766.491	229.486b	ppb	0.6791	0.3	10111.4
Mg 279.078	315.123b	ppb	1.0013	0.3	1019.08
Mn 257.610	33.7533b	ppb	0.1232	0.4	9239.31
Mo 202.032	-0.0486b	ppb	0.0577	118.7	7.4235
Na 330.237	106150xb	ppb	259.944	0.2	6756.03
Ni 231.604	1.1655b	ppb	0.3986	34.2	1.6403
Pb 220.353	2.2284b	ppb	0.7236	32.5	17.9616
Sb 206.834	-0.0036b	ppb	1.1242	31031.5	0.3831
Se 196.026	2.1416b	ppb	7.2387	338.0	2.3407
Sn 189.925	0.0101b	ppb	0.5335	5270.5	-13.1763
Sr 216.596	17.5839b	ppb	0.0290	0.2	310.176
Ti 334.941	0.0216b	ppb	0.0166	76.9	-74.9396
Tl 190.794	-0.2399b	ppb	0.8965	373.8	-13.4989
V 292.401	-0.0375b	ppb	0.2520	671.1	-6.0849
Zn 206.200	5.2383b	ppb	0.7976	15.2	16.1126

680-94618-a-23-b (Samp) **9/30/2013, 8:31:18 PM** **Rack 2, Tube 57**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.2925	0.4022	0.2406
Al 308.215	418.909	414.943	412.451
As 188.980	-2.9266u	-4.6582u	-1.9841u

Label	Replicates Concentration		
B 249.678	42.5344	42.6480	42.8164
Ba 389.178	18.5261	19.1832	19.1956
Be 313.042	0.0173	0.0196	0.0159
Ca 370.602	1679	1675	1680
Cd 226.502	-0.0301u	-0.1458u	0.1639
Co 228.615	0.1212	-0.0056u	-0.3258u
Cr 267.716	0.2809	0.2631	0.1967
Cu 324.754	0.1700	0.2921	0.3458
Fe 271.441	4.4417	9.9478	-1.2807u
K 766.491	204.323	205.227	202.602
Mg 279.078	270.455	272.672	272.578
Mn 257.610	30.5854	30.5334	30.4854
Mo 202.032	0.3046	-0.5059u	-0.2090u
Na 330.237	98591.2x	98564.3x	98166.4x
Ni 231.604	1.1503	1.3244	2.2880
Pb 220.353	5.6222	4.6212	4.8372
Sb 206.834	0.3228	0.5922	1.0996
Se 196.026	4.8305	10.0945	3.3407
Sn 189.925	5.0082	5.8079	8.8213
Sr 216.596	15.8845	16.1592	16.2339
Ti 334.941	0.0796	0.0833	0.1187
Tl 190.794	-2.6692u	-0.4363u	-3.6280u
V 292.401	-0.1532u	0.3384	0.0719
Zn 206.200	2.5246	3.0664	3.3237

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.3118b	ppb	0.0825	26.5	6.9286
Al 308.215	415.435b	ppb	3.2569	0.8	2457.01
As 188.980	-3.1896b	ppb	1.3563	42.5	-10.9983
B 249.678	42.6662b	ppb	0.1419	0.3	956.354
Ba 389.178	18.9683b	ppb	0.3830	2.0	475.501
Be 313.042	0.0176b	ppb	0.0019	10.6	-248.388
Ca 370.602	1678b	ppb	2.863	0.2	5308
Cd 226.502	-0.0040b	ppb	0.1565	3923.2	15.1662
Co 228.615	-0.0701b	ppb	0.2304	328.8	-8.2684
Cr 267.716	0.2469b	ppb	0.0444	18.0	38.3755
Cu 324.754	0.2693b	ppb	0.0901	33.5	144.431
Fe 271.441	4.3696b	ppb	5.6146	128.5	24.2540
K 766.491	204.051b	ppb	1.3338	0.7	9017.48
Mg 279.078	271.902b	ppb	1.2538	0.5	883.766
Mn 257.610	30.5347b	ppb	0.0500	0.2	8361.67
Mo 202.032	-0.1368b	ppb	0.4100	299.8	6.6504
Na 330.237	98440.6xb	ppb	237.896	0.2	6268.65
Ni 231.604	1.5876b	ppb	0.6128	38.6	3.3614
Pb 220.353	5.0269b	ppb	0.5268	10.5	23.9935
Sb 206.834	0.6715b	ppb	0.3944	58.7	1.5108
Se 196.026	6.0886b	ppb	3.5483	58.3	4.3314
Sn 189.925	6.5458b	ppb	2.0108	30.7	-5.6652
Sr 216.596	16.0925b	ppb	0.1840	1.1	284.709
Ti 334.941	0.0939b	ppb	0.0216	23.0	-53.0449
Tl 190.794	-2.2445b	ppb	1.6377	73.0	-16.5306
V 292.401	0.0857b	ppb	0.2461	287.1	-2.1008
Zn 206.200	2.9716b	ppb	0.4079	13.7	11.9452

X (Samp) **9/30/2013, 8:35:54 PM** **Rack 2, Tube 58**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.2229	-0.1186u	-0.1230u
Al 308.215	-0.7269u	0.1251	1.4679
As 188.980	-1.1751u	1.5633	-1.1356u
B 249.678	3.6431	3.2526	3.4886
Ba 389.178	0.5674	0.4537	1.0235
Be 313.042	0.0380	0.0361	0.0286
Ca 370.602	4.703	4.738	8.185
Cd 226.502	-0.1002u	0.0169	0.1754
Co 228.615	0.3314	0.0936	0.1301
Cr 267.716	0.3739	0.2788	0.3570
Cu 324.754	-0.1351u	0.1483	0.2908
Fe 271.441	1.2204	1.7809	1.8961
K 766.491	2.2248	1.9104	2.3168
Mg 279.078	2.0765	-1.0255u	0.3078
Mn 257.610	0.3528	0.3002	0.4137
Mo 202.032	0.0739	0.1971	-0.3266u
Na 330.237	151.883	117.393	69.1895
Ni 231.604	0.7066	0.1852	0.3315
Pb 220.353	0.1839	-1.0296u	0.2703
Sb 206.834	0.9672	2.6419	1.5305
Se 196.026	0.4801	2.2077	4.4113
Sn 189.925	1.2666	1.5646	1.9199
Sr 216.596	0.2873	0.5020	0.0421
Ti 334.941	0.0324	0.1207	0.1680
Tl 190.794	1.0889	-0.1821u	0.9212
V 292.401	0.2731	0.4479	0.2330
Zn 206.200	-0.6329u	-0.9294u	-0.3100u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0062	ppb	0.1985	3181.8	-21.8705
Al 308.215	0.2887	ppb	1.1065	383.3	-41.0327
As 188.980	-0.2492	ppb	1.5697	630.0	-8.1524
B 249.678	3.4614	ppb	0.1967	5.7	171.866
Ba 389.178	0.6815	ppb	0.3016	44.3	-1.2054
Be 313.042	0.0342	ppb	0.0050	14.5	-198.519
Ca 370.602	5.875	ppb	2.000	34.1	13.92
Cd 226.502	0.0307	ppb	0.1383	450.5	18.1622
Co 228.615	0.1850	ppb	0.1280	69.2	-4.4543
Cr 267.716	0.3366	ppb	0.0508	15.1	41.4431
Cu 324.754	0.1013	ppb	0.2168	213.9	132.773
Fe 271.441	1.6325	ppb	0.3614	22.1	18.8332
K 766.491	2.1506	ppb	0.2131	9.9	333.902
Mg 279.078	0.4529	ppb	1.5561	343.6	34.4629
Mn 257.610	0.3556	ppb	0.0568	16.0	134.021
Mo 202.032	-0.0185	ppb	0.2738	1478.5	7.6863
Na 330.237	112.822	ppb	41.5357	36.8	51.8470
Ni 231.604	0.4078	ppb	0.2689	65.9	-1.4468
Pb 220.353	-0.1918	ppb	0.7268	378.9	12.7427
Sb 206.834	1.7132	ppb	0.8522	49.7	3.2444
Se 196.026	2.3663	ppb	1.9704	83.3	2.4458
Sn 189.925	1.5837	ppb	0.3271	20.7	-11.4232
Sr 216.596	0.2771	ppb	0.2301	83.1	14.8183

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ti 334.941	0.1070	ppb	0.0689	64.3	-41.8396
Tl 190.794	0.6093	ppb	0.6905	113.3	-12.1912
V 292.401	0.3180	ppb	0.1143	35.9	6.1805
Zn 206.200	-0.6241	ppb	0.3098	49.6	5.3341

CRI (Samp) **9/30/2013, 8:40:30 PM** **Rack 2, Tube 59**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	9.7013	9.7337	9.9185
Al 308.215	219.055	217.514	220.745
As 188.980	23.5915	24.0442	25.2068
B 249.678	99.0735	98.8814	100.433
Ba 389.178	10.7577	11.1014	10.1026
Be 313.042	3.9700	3.9741	4.0208
Ca 370.602	528.7	534.0	535.2
Cd 226.502	4.8316	4.8953	4.8182
Co 228.615	9.6432	10.2979	10.3109
Cr 267.716	10.1176	10.1233	10.1351
Cu 324.754	20.2099	20.2551	20.1817
Fe 271.441	47.8315	47.7204	50.7957
K 766.491	1003.32	1001.83	1011.28
Mg 279.078	505.985	502.211	510.974
Mn 257.610	10.5488	10.5284	10.6283
Mo 202.032	9.8108	9.8661	10.3091
Na 330.237	849.118	740.294	921.018
Ni 231.604	41.4863	40.7928	41.7834
Pb 220.353	10.8779	11.6092	10.8125
Sb 206.834	20.0087	18.9140	20.1901
Se 196.026	21.3445	16.6900	24.1857
Sn 189.925	48.6946	50.9195	50.0758
Sr 216.596	9.6436	9.4371	9.9973
Ti 334.941	10.0300	10.0794	10.1917
Tl 190.794	25.3150	25.4436	25.4327
V 292.401	9.8892	9.7432	9.7103
Zn 206.200	17.7805	19.2851	18.1235

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	9.7845	ppb	0.1172	1.2	885.967
Al 308.215	219.105	ppb	1.6160	0.7	1274.13
As 188.980	24.2808	ppb	0.8333	3.4	15.6367
B 249.678	99.4627	ppb	0.8459	0.9	2092.74
Ba 389.178	10.6539	ppb	0.5074	4.8	259.965
Be 313.042	3.9883	ppb	0.0282	0.7	8479.61
Ca 370.602	532.7	ppb	3.460	0.6	1683
Cd 226.502	4.8483	ppb	0.0412	0.8	306.822
Co 228.615	10.0840	ppb	0.3818	3.8	143.453
Cr 267.716	10.1253	ppb	0.0090	0.1	666.599
Cu 324.754	20.2156	ppb	0.0370	0.2	1528.99
Fe 271.441	48.7825	ppb	1.7443	3.6	114.558
K 766.491	1005.48	ppb	5.0790	0.5	43486.2
Mg 279.078	506.390	ppb	4.3954	0.9	1618.75
Mn 257.610	10.5685	ppb	0.0528	0.5	2922.71
Mo 202.032	9.9953	ppb	0.2731	2.7	95.4078

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Na 330.237	836.810	ppb	90.9882	10.9	97.2104
Ni 231.604	41.3542	ppb	0.5083	1.2	165.356
Pb 220.353	11.0999	ppb	0.4423	4.0	37.0608
Sb 206.834	19.7043	ppb	0.6904	3.5	33.2447
Se 196.026	20.7401	ppb	3.7843	18.2	11.7193
Sn 189.925	49.8966	ppb	1.1232	2.3	44.1304
Sr 216.596	9.6927	ppb	0.2833	2.9	174.206
Ti 334.941	10.1004	ppb	0.0829	0.8	2923.95
Tl 190.794	25.3971	ppb	0.0713	0.3	25.3366
V 292.401	9.7809	ppb	0.0952	1.0	303.472
Zn 206.200	18.3964	ppb	0.7885	4.3	40.2606

Cont Calib Verif (CCV) **9/30/2013, 8:45:06 PM** **Rack 3, Tube 1**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	485.597	492.896	480.402
Al 308.215	4891.61	4983.60	4918.44
As 188.980	475.340	487.745	489.377
B 249.678	481.132	493.276	484.686
Ba 389.178	4959.42	5053.57	4960.98
Be 313.042	489.133	498.181	488.630
Ca 370.602	5082	5176	5120
Cd 226.502	491.776	501.946	491.042
Co 228.615	492.103	502.062	493.924
Cr 267.716	5008.94	5099.23	4993.17
Cu 324.754	5124.22	5257.54	5081.22
Fe 271.441	4759.18	4851.45	4766.53
K 766.491	10126.2	10347.0	10106.4
Mg 279.078	4890.46	4976.66	4884.49
Mn 257.610	5069.39	5158.86	5079.80
Mo 202.032	503.839	514.256	504.273
Na 330.237	6849.09	7059.36	6938.59
Ni 231.604	2463.09	2508.36	2464.61
Pb 220.353	491.389	506.153	499.361
Sb 206.834	995.716	1021.39	1002.84
Se 196.026	5079.34	5194.17	5136.39
Sn 189.925	4970.17	5055.47	4980.48
Sr 216.596	2525.99	2574.73	2529.42
Ti 334.941	487.494	495.833	488.929
Tl 190.794	5045.47	5149.75	5076.08
V 292.401	4915.62	5008.50	4908.54
Zn 206.200	2464.61	2511.64	2473.17

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	486.298	ppb	6.2762	1.3	45017.2	97.25964
Al 308.215	4931.22	ppb	47.3050	1.0	28806.8	98.62437
As 188.980	484.154	ppb	7.6764	1.6	461.444	96.83079
B 249.678	486.365	ppb	6.2437	1.3	9821.37	97.27298
Ba 389.178	4991.33	ppb	53.9140	1.1	129916	99.82652
Be 313.042	491.981	ppb	5.3747	1.1	1079457	98.39626
Ca 370.602	5126	ppb	46.94	0.9	16287	102.51991
Cd 226.502	494.921	ppb	6.0947	1.2	29670.9	98.98426
Co 228.615	496.030	ppb	5.3027	1.1	7420.72	99.20596

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Cr 267.716	5033.78	ppb	57.2269	1.1	321495	100.67560
Cu 324.754	5154.32	ppb	91.9346	1.8	357797	103.08649
Fe 271.441	4792.38	ppb	51.2811	1.1	9711.06	95.84768
K 766.491	10193.2	ppb	133.552	1.3	438643	101.93186
Mg 279.078	4917.21	ppb	51.5759	1.0	15313.1	98.34413
Mn 257.610	5102.69	ppb	48.9273	1.0	1390898	102.05371
Mo 202.032	507.456	ppb	5.8930	1.2	4442.84	101.49125
Na 330.237	6949.02	ppb	105.523	1.5	435.495	92.65353
Ni 231.604	2478.68	ppb	25.7087	1.0	10094.7	99.14731
Pb 220.353	498.968	ppb	7.3902	1.5	1089.21	99.79350
Sb 206.834	1006.65	ppb	13.2518	1.3	1750.19	100.66470
Se 196.026	5136.63	ppb	57.4179	1.1	2594.32	102.73267
Sn 189.925	5002.04	ppb	46.5582	0.9	5738.39	100.04080
Sr 216.596	2543.38	ppb	27.2046	1.1	43306.4	101.73515
Ti 334.941	490.752	ppb	4.4587	0.9	145477	98.15035
Tl 190.794	5090.43	ppb	53.6022	1.1	7688.46	101.80864
V 292.401	4944.22	ppb	55.7808	1.1	156142	98.88445
Zn 206.200	2483.14	ppb	25.0479	1.0	4549.16	99.32555

Cont Calib Blank (CCB) **9/30/2013, 8:49:42 PM** **Rack 3, Tube 2**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	0.3116	-0.1898u	0.1362
Al 308.215	1.1401	-0.2967u	-1.5125u
As 188.980	1.0169	1.4953	0.7290
B 249.678	3.1821	3.3012	2.9898
Ba 389.178	0.8812	0.5191	1.2344
Be 313.042	0.0116	0.0119	0.0097
Ca 370.602	0.3265	4.678	1.865
Cd 226.502	0.1180	0.0205	-0.0399u
Co 228.615	-0.0616u	0.4634	0.4543
Cr 267.716	0.0399	0.0598	-0.1861u
Cu 324.754	-0.2529u	-0.2513u	-0.5666u
Fe 271.441	-3.7933u	-1.0529u	0.0133
K 766.491	0.9095	1.4321	0.7776
Mg 279.078	-2.3752u	-3.4437u	1.4815
Mn 257.610	-0.0030u	0.0413	0.0775
Mo 202.032	0.0791	-0.0294u	0.5814
Na 330.237	-2.0825u	35.7876	101.430
Ni 231.604	0.2879	0.1596	-0.2513u
Pb 220.353	0.2543	0.7383	0.6347
Sb 206.834	0.7132	4.1079	1.9740
Se 196.026	4.5405	6.2898	4.7619
Sn 189.925	-0.3187u	1.0960	1.2981
Sr 216.596	0.2802	-0.2338u	0.2436
Ti 334.941	0.1301	0.1054	0.0775
Tl 190.794	-0.1243u	0.4792	-1.7800u
V 292.401	0.0436	-0.0153u	-0.0236u
Zn 206.200	-0.1884u	-0.8582u	-0.5050u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.0860	ppb	0.2545	295.9	-13.3092	0.08600
Al 308.215	-0.2230	ppb	1.3278	595.4	-44.0460	-0.22302

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
As 188.980	1.0804	ppb	0.3871	35.8	-6.8630	1.08041
B 249.678	3.1577	ppb	0.1571	5.0	165.795	3.15768
Ba 389.178	0.8783	ppb	0.3577	40.7	3.9045	0.87827
Be 313.042	0.0111	ppb	0.0012	10.9	-249.358	0.01108
Ca 370.602	2.290	ppb	2.207	96.4	2.787	2.28977
Cd 226.502	0.0329	ppb	0.0797	242.2	18.2809	0.03290
Co 228.615	0.2854	ppb	0.3005	105.3	-2.9635	0.28539
Cr 267.716	-0.0288	ppb	0.1366	474.2	18.1067	-0.02881
Cu 324.754	-0.3569	ppb	0.1816	50.9	100.982	-0.35692
Fe 271.441	-1.6110	ppb	1.9637	121.9	12.3687	-1.61097
K 766.491	1.0397	ppb	0.3461	33.3	286.121	1.03970
Mg 279.078	-1.4458	ppb	2.5908	179.2	28.5239	-1.44577
Mn 257.610	0.0386	ppb	0.0403	104.3	47.6037	0.03862
Mo 202.032	0.2104	ppb	0.3259	154.9	9.6928	0.21036
Na 330.237	45.0449	ppb	52.3733	116.3	47.5661	45.04491
Ni 231.604	0.0654	ppb	0.2817	430.8	-2.8422	0.06539
Pb 220.353	0.5425	ppb	0.2549	47.0	14.3250	0.54245
Sb 206.834	2.2650	ppb	1.7160	75.8	4.1535	2.26501
Se 196.026	5.1974	ppb	0.9525	18.3	3.8742	5.19739
Sn 189.925	0.6918	ppb	0.8809	127.3	-12.4488	0.69181
Sr 216.596	0.0967	ppb	0.2867	296.7	11.7410	0.09666
Ti 334.941	0.1043	ppb	0.0263	25.2	-42.6478	0.10431
Tl 190.794	-0.4750	ppb	1.1698	246.2	-13.8309	-0.47504
V 292.401	0.0016	ppb	0.0366	2361.1	-3.8620	0.00155
Zn 206.200	-0.5172	ppb	0.3350	64.8	5.5323	-0.51720

mb 680-295922/1-a (Samp) **9/30/2013, 8:54:19 PM** **Rack 3, Tube 3**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.0900u	-0.2949u	0.2530
Al 308.215	0.0113	1.2516	-1.3981u
As 188.980	-1.5513u	-2.5286u	1.5428
B 249.678	4.7765	4.5454	5.0286
Ba 389.178	-0.3221u	0.4616	-0.0149u
Be 313.042	0.0084	0.0080	0.0116
Ca 370.602	7.656	7.645	4.952
Cd 226.502	-0.0474u	-0.0228u	0.1329
Co 228.615	0.1887	0.1102	0.1029
Cr 267.716	0.1350	-0.0353u	-0.0326u
Cu 324.754	-0.3494u	0.0286	0.0841
Fe 271.441	6.6982	0.0566	1.5622
K 766.491	1.1525	0.9001	0.4301
Mg 279.078	0.6774	0.0388	0.4674
Mn 257.610	0.0085	-0.0212u	-0.0014u
Mo 202.032	0.1037	-0.0775u	-0.2050u
Na 330.237	97.5640	102.601	-42.3325u
Ni 231.604	0.2320	0.3137	-0.4377u
Pb 220.353	2.3914	1.7586	-0.8285u
Sb 206.834	1.0744	4.2347	1.5357
Se 196.026	-4.2605u	5.6278	-2.3172u
Sn 189.925	-0.4691u	0.2697	-0.7599u
Sr 216.596	-0.3774u	-0.1699u	-0.0856u
Ti 334.941	0.0937	0.1116	0.0847

Label	Replicates	Concentration	
Tl 190.794	0.5937	2.6163	0.7681
V 292.401	0.1610	0.0381	-0.1739u
Zn 206.200	-0.3621u	0.2196	0.4541

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0440	ppb	0.2768	629.7	-25.3438
Al 308.215	-0.0451	ppb	1.3258	2941.6	-42.9862
As 188.980	-0.8457	ppb	2.1254	251.3	-8.7309
B 249.678	4.7835	ppb	0.2416	5.1	198.323
Ba 389.178	0.0416	ppb	0.3949	950.2	-17.8616
Be 313.042	0.0094	ppb	0.0020	21.4	-253.104
Ca 370.602	6.751	ppb	1.558	23.1	16.73
Cd 226.502	0.0209	ppb	0.0978	467.5	17.5723
Co 228.615	0.1339	ppb	0.0475	35.5	-5.2154
Cr 267.716	0.0224	ppb	0.0976	436.0	21.3777
Cu 324.754	-0.0789	ppb	0.2359	298.9	120.266
Fe 271.441	2.7723	ppb	3.4823	125.6	21.0937
K 766.491	0.8276	ppb	0.3666	44.3	276.997
Mg 279.078	0.3945	ppb	0.3255	82.5	34.2883
Mn 257.610	-0.0047	ppb	0.0151	319.4	35.8196
Mo 202.032	-0.0596	ppb	0.1551	260.3	7.3272
Na 330.237	52.6110	ppb	82.2621	156.4	48.0269
Ni 231.604	0.0360	ppb	0.4123	1145.5	-2.9614
Pb 220.353	1.1072	ppb	1.7059	154.1	15.5432
Sb 206.834	2.2816	ppb	1.7071	74.8	4.1878
Se 196.026	-0.3166	ppb	5.2389	1654.7	1.0920
Sn 189.925	-0.3198	ppb	0.5308	166.0	-13.6119
Sr 216.596	-0.2110	ppb	0.1501	71.2	6.5065
Ti 334.941	0.0967	ppb	0.0137	14.2	-44.9068
Tl 190.794	1.3260	ppb	1.1208	84.5	-11.1073
V 292.401	0.0084	ppb	0.1694	2012.8	-3.5869
Zn 206.200	0.1039	ppb	0.4202	404.5	6.6740

lcs 680-295922/2-a (Samp) **9/30/2013, 8:58:55 PM** **Rack 3, Tube 4**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	55.4356	56.7754	57.1238
Al 308.215	5056.40	5053.29	5092.05
As 188.980	100.488	101.235	101.728
B 249.678	193.999	194.731	195.061
Ba 389.178	103.717	103.232	103.477
Be 313.042	50.1597	50.0042	50.1003
Ca 370.602	5120	5112	5171
Cd 226.502	49.9782	50.0194	49.9752
Co 228.615	50.9285	51.5806	50.7616
Cr 267.716	103.158	102.900	102.973
Cu 324.754	105.969	105.561	105.679
Fe 271.441	4908.00	4897.45	4910.71
K 766.491	4941.97	4916.46	4936.32
Mg 279.078	4919.31	4912.36	4918.51
Mn 257.610	529.011	528.935	531.512
Mo 202.032	103.744	102.883	104.272
Na 330.237	4388.48	4343.54	4543.55

Label	Replicates Concentration		
Ni 231.604	100.348	99.0091	100.513
Pb 220.353	50.7552	48.0797	52.2839
Sb 206.834	50.2531	51.8159	51.7971
Se 196.026	110.683	110.121	104.327
Sn 189.925	200.264	198.113	204.091
Sr 216.596	100.900	101.132	101.480
Ti 334.941	101.780	101.482	102.393
Tl 190.794	38.0938	36.6467	36.6127
V 292.401	101.702	101.114	101.719
Zn 206.200	99.2699	99.9075	100.401

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	56.4449	ppb	0.8913	1.6	5212.89
Al 308.215	5067.25	ppb	21.5346	0.4	30433.8
As 188.980	101.150	ppb	0.6241	0.6	90.1465
B 249.678	194.597	ppb	0.5434	0.3	3982.89
Ba 389.178	103.475	ppb	0.2422	0.2	2697.06
Be 313.042	50.0881	ppb	0.0785	0.2	109662
Ca 370.602	5134	ppb	32.22	0.6	15929
Cd 226.502	49.9909	ppb	0.0247	0.0	3032.05
Co 228.615	51.0902	ppb	0.4327	0.8	756.239
Cr 267.716	103.010	ppb	0.1331	0.1	6602.35
Cu 324.754	105.737	ppb	0.2099	0.2	7468.54
Fe 271.441	4905.38	ppb	7.0062	0.1	9816.72
K 766.491	4931.58	ppb	13.3979	0.3	212345
Mg 279.078	4916.73	ppb	3.8021	0.1	15419.1
Mn 257.610	529.819	ppb	1.4668	0.3	144509
Mo 202.032	103.633	ppb	0.7011	0.7	915.400
Na 330.237	4425.19	ppb	104.937	2.4	320.423
Ni 231.604	99.9567	ppb	0.8248	0.8	404.155
Pb 220.353	50.3729	ppb	2.1280	4.2	121.971
Sb 206.834	51.2887	ppb	0.8969	1.7	86.1678
Se 196.026	108.377	ppb	3.5182	3.2	56.0842
Sn 189.925	200.823	ppb	3.0278	1.5	217.678
Sr 216.596	101.170	ppb	0.2918	0.3	1738.00
Ti 334.941	101.885	ppb	0.4645	0.5	30163.3
Tl 190.794	37.1177	ppb	0.8455	2.3	42.4234
V 292.401	101.512	ppb	0.3445	0.3	3185.90
Zn 206.200	99.8596	ppb	0.5673	0.6	189.676

680-94640-a-3-b (Samp) **9/30/2013, 9:03:31 PM** **Rack 3, Tube 5**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.4813	0.2440	0.4178
Al 308.215	7.0549	6.9529	10.6450
As 188.980	1.0998	8.4002	0.0820
B 249.678	18.5688	18.1110	18.4985
Ba 389.178	6.8671	7.3390	6.0573
Be 313.042	-0.0961u	-0.0841	-0.0848
Ca 370.602	516061	514824	515937
Cd 226.502	-0.1025u	-0.0358u	-0.0332u
Co 228.615	1.4135	0.4718	1.0317
Cr 267.716	0.1030	0.2024	-0.0768u

Label	Replicates	Concentration	
Cu 324.754	9.1732	8.3511	9.7788
Fe 271.441	45.8878	43.8084	45.2337
K 766.491	6123.67	6130.43	6135.34
Mg 279.078	21364.1	21345.7	21424.2
Mn 257.610	43.3390	43.3987	43.3016
Mo 202.032	4.9774	4.7949	4.5537
Na 330.237	15254.6	14984.1	15074.9
Ni 231.604	2.5593	2.7931	3.4339
Pb 220.353	3.5518	3.6932	3.2895
Sb 206.834	1.0767	0.3949	0.6829
Se 196.026	-1.4367u	0.0125	1.2923
Sn 189.925	1.8424	-1.4256u	0.5135
Sr 216.596	247.460	246.597	247.851
Ti 334.941	0.8318	0.8665	0.7935
Tl 190.794	-0.0767u	-2.2367u	-4.9628u
V 292.401	1.9914	1.8755	1.5065
Zn 206.200	25.5284	28.1088	26.2207

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.3810	ppb	0.1228	32.2	-0.9023
Al 308.215	8.2176	ppb	2.1028	25.6	6.6448
As 188.980	3.1940	ppb	4.5373	142.1	-4.8155
B 249.678	18.3928	ppb	0.2466	1.3	470.554
Ba 389.178	6.7545	ppb	0.6482	9.6	219.840
Be 313.042	-0.0884	ppb	0.0067	7.6	-268.205
Ca 370.602	515607	ppb	681.0	0.1	1632111
Cd 226.502	-0.0572	ppb	0.0393	68.7	13.3749
Co 228.615	0.9724	ppb	0.4737	48.7	7.1777
Cr 267.716	0.0762	ppb	0.1415	185.7	25.4379
Cu 324.754	9.1010	ppb	0.7166	7.9	757.540
Fe 271.441	44.9766	ppb	1.0633	2.4	105.491
K 766.491	6129.81	ppb	5.8545	0.1	263880
Mg 279.078	21378.0	ppb	41.0451	0.2	66988.4
Mn 257.610	43.3465	ppb	0.0490	0.1	12065.4
Mo 202.032	4.7753	ppb	0.2125	4.5	49.6864
Na 330.237	15104.5	ppb	137.650	0.9	999.202
Ni 231.604	2.9288	ppb	0.4528	15.5	8.8237
Pb 220.353	3.5115	ppb	0.2048	5.8	20.7336
Sb 206.834	0.7181	ppb	0.3423	47.7	1.4846
Se 196.026	-0.0440	ppb	1.3654	3105.1	1.2407
Sn 189.925	0.3101	ppb	1.6435	530.0	-12.5872
Sr 216.596	247.303	ppb	0.6416	0.3	4307.89
Ti 334.941	0.8306	ppb	0.0365	4.4	273.823
Tl 190.794	-2.4254	ppb	2.4485	101.0	-16.8146
V 292.401	1.7912	ppb	0.2532	14.1	52.1077
Zn 206.200	26.6193	ppb	1.3356	5.0	55.4242

680-94640-a-2-b (Samp) **9/30/2013, 9:08:07 PM** **Rack 3, Tube 6**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	0.8323	0.4058	0.2808
Al 308.215	8.5833	6.7758	7.9465
As 188.980	8.1063	3.2312	10.3486

Label	Replicates Concentration		
B 249.678	16.8500	16.4103	17.0820
Ba 389.178	7.4781	8.6319	8.9334
Be 313.042	-0.1198u	-0.1217u	-0.1149
Ca 370.602	648041	651813	648777
Cd 226.502	0.5726	0.4627	0.6288
Co 228.615	1.9368	1.8971	1.8778
Cr 267.716	0.2177	-0.1042u	0.1308
Cu 324.754	3.9134	3.9210	3.9767
Fe 271.441	37.1758	39.9503	38.1738
K 766.491	7607.60	7626.82	7669.64
Mg 279.078	20947.6	20955.4	20932.9
Mn 257.610	12.0941	12.0617	12.0544
Mo 202.032	6.1767	6.5722	5.8302
Na 330.237	17254.2	17702.5	17316.2
Ni 231.604	3.3285	2.6373	2.8550
Pb 220.353	0.9275	3.3208	1.9998
Sb 206.834	2.5602	0.5327	3.9102
Se 196.026	-0.7158u	4.8541	-4.7545u
Sn 189.925	-0.6159u	-0.2060	-3.1972u
Sr 216.596	313.248	313.664	314.054
Ti 334.941	1.0055	1.0014	1.0041
Tl 190.794	-2.3085u	-2.3258u	-3.7311u
V 292.401	2.0055	1.9631	2.2919
Zn 206.200	38.9574	35.7376	38.1405

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.5063	ppb	0.2892	57.1	6.5569
Al 308.215	7.7685	ppb	0.9168	11.8	3.9390
As 188.980	7.2287	ppb	3.6389	50.3	-0.9029
B 249.678	16.7808	ppb	0.3412	2.0	438.312
Ba 389.178	8.3478	ppb	0.7681	9.2	260.080
Be 313.042	-0.1188	ppb	0.0035	2.9	-281.973
Ca 370.602	649544	ppb	2000	0.3	2056077
Cd 226.502	0.5547	ppb	0.0845	15.2	49.9630
Co 228.615	1.9039	ppb	0.0301	1.6	21.0527
Cr 267.716	0.0814	ppb	0.1665	204.5	25.6401
Cu 324.754	3.9370	ppb	0.0346	0.9	399.204
Fe 271.441	38.4333	ppb	1.4053	3.7	92.5748
K 766.491	7634.69	ppb	31.7592	0.4	328604
Mg 279.078	20945.3	ppb	11.4392	0.1	65633.8
Mn 257.610	12.0701	ppb	0.0211	0.2	3538.68
Mo 202.032	6.1930	ppb	0.3713	6.0	62.1085
Na 330.237	17424.3	ppb	242.950	1.4	1145.66
Ni 231.604	2.9403	ppb	0.3534	12.0	8.8675
Pb 220.353	2.0827	ppb	1.1988	57.6	17.6411
Sb 206.834	2.3344	ppb	1.7000	72.8	4.1459
Se 196.026	-0.2054	ppb	4.8246	2348.9	1.1514
Sn 189.925	-1.3397	ppb	1.6217	121.0	-14.4059
Sr 216.596	313.655	ppb	0.4029	0.1	5460.60
Ti 334.941	1.0036	ppb	0.0021	0.2	322.923
Tl 190.794	-2.7885	ppb	0.8164	29.3	-17.3384
V 292.401	2.0868	ppb	0.1789	8.6	61.1436
Zn 206.200	37.6119	ppb	1.6737	4.4	75.6346

680-94640-a-1-b (Samp) **9/30/2013, 9:12:44 PM** **Rack 3, Tube 7**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	-3.1929u	-3.5669u	-3.0184u
Al 308.215	69991.4	70199.5	70142.5
As 188.980	415.521	413.408	411.300
B 249.678	33.7022u	33.9942u	33.1204u
Ba 389.178	-12.6683	-13.5219	-13.4950
Be 313.042	3.9256	3.8967	3.8929
Ca 370.602	84469	84666	84601
Cd 226.502	0.6640	0.5084	0.5935
Co 228.615	400.126	400.129	400.095
Cr 267.716	32.7543	32.5179	32.8604
Cu 324.754	325.991	325.331	325.112
Fe 271.441	591823	590141	588985
K 766.491	5844.21	5851.65	5832.37
Mg 279.078	44591.2	44503.5	44465.3
Mn 257.610	12565.2	12571.1	12556.8
Mo 202.032	41.9731	42.5193	41.6154
Na 330.237	13789.5	13430.0	13861.0
Ni 231.604	474.862	478.515	478.499
Pb 220.353	7.7119	10.1853	2.1048
Sb 206.834	-8.6170	-5.8965	-9.4992
Se 196.026	3.4207	-10.6032u	0.0324
Sn 189.925	4.3261	4.2584	3.1532
Sr 216.596	163.953	164.476	164.257
Ti 334.941	11.0751	11.0936	11.0954
Tl 190.794	-3.3954u	-3.7318u	-0.7337u
V 292.401	62.0559	61.9541	61.7702
Zn 206.200	1550.34	1541.01	1551.16

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-3.2594	ppb	0.2802	8.6	-267.402
Al 308.215	70111.1	ppb	107.527	0.2	421800
As 188.980	413.410	ppb	2.1103	0.5	385.017
B 249.678	33.6056	ppb	0.4448	1.3	-866.257
Ba 389.178	-13.2284	ppb	0.4853	3.7	706.589
Be 313.042	3.9051	ppb	0.0179	0.5	8303.56
Ca 370.602	84579	ppb	100.7	0.1	221325
Cd 226.502	0.5886	ppb	0.0779	13.2	2769.11
Co 228.615	400.117	ppb	0.0187	0.0	5999.13
Cr 267.716	32.7109	ppb	0.1753	0.5	2366.24
Cu 324.754	325.478	ppb	0.4575	0.1	22957.2
Fe 271.441	590316	ppb	1427.03	0.2	1178482
K 766.491	5842.74	ppb	9.7254	0.2	251534
Mg 279.078	44520.0	ppb	64.5628	0.1	139304
Mn 257.610	12564.4	ppb	7.2047	0.1	3426938
Mo 202.032	42.0359	ppb	0.4552	1.1	340.361
Na 330.237	13693.5	ppb	230.984	1.7	664.901
Ni 231.604	477.292	ppb	2.1045	0.4	1959.29
Pb 220.353	6.6673	ppb	4.1403	62.1	83.1418
Sb 206.834	-8.0042	ppb	1.8779	23.5	9.1496
Se 196.026	-2.3834	ppb	7.3174	307.0	5.2417
Sn 189.925	3.9126	ppb	0.6585	16.8	-8.7176
Sr 216.596	164.229	ppb	0.2628	0.2	3635.95

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ti 334.941	11.0880	ppb	0.0113	0.1	3500.89
Tl 190.794	-2.6203	ppb	1.6425	62.7	-81.2434
V 292.401	61.9267	ppb	0.1448	0.2	1947.52
Zn 206.200	1547.50	ppb	5.6393	0.4	2858.97

680-94634-a-1-a (Samp) **9/30/2013, 9:17:20 PM** **Rack 3, Tube 8**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	1.2458u	1.2847u	1.2179u
Al 308.215	1823.69	1818.05	1808.17
As 188.980	6.2664	5.9118	5.0333
B 249.678	810.112	812.034	814.072
Ba 389.178	24.9819	25.1856	24.0838
Be 313.042	0.0060	0.0070	0.0007
Ca 370.602	198920	199114	197538
Cd 226.502	0.4048	0.4695	0.5904
Co 228.615	-0.0299	-0.3430u	-0.1048u
Cr 267.716	169.820	170.646	170.679
Cu 324.754	1.0247	0.7525	0.7789
Fe 271.441	26.5739	29.8781	25.6048
K 766.491	6043.60	6060.31	6088.56
Mg 279.078	17895.5	17915.4	17970.4
Mn 257.610	407.710	407.722	406.988
Mo 202.032	3.0573	2.7052	3.1658
Na 330.237	536135x	535191x	535176x
Ni 231.604	6.7720	6.5312	6.4457
Pb 220.353	1.0926	2.5986	1.4898
Sb 206.834	7.8598	4.0782	3.1929
Se 196.026	13.5503	2.8357	2.4447
Sn 189.925	0.9943	0.7643	0.4741
Sr 216.596	3246.09	3248.13	3257.82
Ti 334.941	0.3238	0.3188	0.2932
Tl 190.794	-6.2411u	-2.5491u	-4.5912u
V 292.401	2.3710	2.2572	2.5948
Zn 206.200	9.2334	8.9056	10.6652

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	1.2495b	ppb	0.0335	2.7	-82.1967
Al 308.215	1816.64b	ppb	7.8568	0.4	10888.1
As 188.980	5.7372b	ppb	0.6348	11.1	-2.3215
B 249.678	812.072b	ppb	1.9802	0.2	16352.3
Ba 389.178	24.7505b	ppb	0.5862	2.4	677.936
Be 313.042	0.0045b	ppb	0.0034	74.6	-263.229
Ca 370.602	198524b	ppb	859.6	0.4	628418
Cd 226.502	0.4883b	ppb	0.0942	19.3	40.9235
Co 228.615	-0.1592b	ppb	0.1635	102.7	-8.9794
Cr 267.716	170.382b	ppb	0.4868	0.3	10918.2
Cu 324.754	0.8520b	ppb	0.1501	17.6	184.972
Fe 271.441	27.3523b	ppb	2.2404	8.2	70.5426
K 766.491	6064.16b	ppb	22.7247	0.4	261057
Mg 279.078	17927.1b	ppb	38.8236	0.2	56170.6
Mn 257.610	407.473b	ppb	0.4206	0.1	111271
Mo 202.032	2.9761b	ppb	0.2408	8.1	33.9215

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Na 330.237	535501xb	ppb	549.294	0.1	33902.0
Ni 231.604	6.5830b	ppb	0.1692	2.6	23.7166
Pb 220.353	1.7270b	ppb	0.7805	45.2	16.9493
Sb 206.834	5.0437b	ppb	2.4787	49.1	11.2313
Se 196.026	6.2769b	ppb	6.3020	100.4	4.5210
Sn 189.925	0.7443b	ppb	0.2607	35.0	-11.9955
Sr 216.596	3250.68b	ppb	6.2682	0.2	55466.2
Ti 334.941	0.3119b	ppb	0.0164	5.3	57.8416
Tl 190.794	-4.4604b	ppb	1.8495	41.5	-20.1492
V 292.401	2.4077b	ppb	0.1717	7.1	56.3546
Zn 206.200	9.6014b	ppb	0.9358	9.7	23.3644

680-94634-a-1-aSD^5 (Samp) **9/30/2013, 9:21:56 PM** **Rack 3, Tube 9**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	0.2663u	0.4765	0.1311u
Al 308.215	384.921	379.582	369.712
As 188.980	1.3418	1.6823	-1.5077u
B 249.678	178.868	175.546	170.807
Ba 389.178	4.1358	3.8384	3.1713
Be 313.042	-0.0023u	0.0005	0.0062
Ca 370.602	44035	42917	41880
Cd 226.502	0.1118	0.0546	-0.1119u
Co 228.615	0.2712	-0.4070u	-0.1384u
Cr 267.716	37.9498	37.2015	36.2629
Cu 324.754	-0.0032u	-0.1313u	-0.0488u
Fe 271.441	13.3151	11.5805	16.0309
K 766.491	987.909	966.097	941.075
Mg 279.078	4028.34	3931.14	3833.67
Mn 257.610	91.9846	89.6750	87.4872
Mo 202.032	0.9245	0.6210	0.4452
Na 330.237	102845x	100729x	98527.5x
Ni 231.604	1.8459	2.0474	1.6100
Pb 220.353	1.4914	-0.6186u	0.1835
Sb 206.834	0.2831	2.5855	3.8671
Se 196.026	8.1470	-3.6300u	5.0175
Sn 189.925	-0.0886u	1.7703	1.9782
Sr 216.596	724.248	708.106	690.292
Ti 334.941	0.1042	0.0719	0.0909
Tl 190.794	-1.9028u	-1.4558u	0.6618
V 292.401	0.3656	0.2582	0.6266
Zn 206.200	1.3080	1.5896	1.1450

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.2913b	ppb	0.1741	59.7	-32.7788
Al 308.215	378.072b	ppb	7.7159	2.0	2232.19
As 188.980	0.5055b	ppb	1.7517	346.5	-7.4154
B 249.678	175.074b	ppb	4.0515	2.3	3605.85
Ba 389.178	3.7151b	ppb	0.4939	13.3	89.3166
Be 313.042	0.0015b	ppb	0.0044	296.0	-268.117
Ca 370.602	42944b	ppb	1078	2.5	135934
Cd 226.502	0.0182b	ppb	0.1162	638.8	16.5606
Co 228.615	-0.0914b	ppb	0.3415	373.7	-8.4528

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Cr 267.716	37.1381b	ppb	0.8452	2.3	2395.04
Cu 324.754	-0.0611b	ppb	0.0649	106.3	121.527
Fe 271.441	13.6422b	ppb	2.2432	16.4	42.8531
K 766.491	965.027b	ppb	23.4351	2.4	41746.5
Mg 279.078	3931.05b	ppb	97.3347	2.5	12342.9
Mn 257.610	89.7156b	ppb	2.2490	2.5	24528.0
Mo 202.032	0.6636b	ppb	0.2425	36.5	13.6627
Na 330.237	100700xb	ppb	2158.68	2.1	6411.54
Ni 231.604	1.8344b	ppb	0.2189	11.9	4.3672
Pb 220.353	0.3521b	ppb	1.0651	302.5	13.9315
Sb 206.834	2.2452b	ppb	1.8161	80.9	4.6591
Se 196.026	3.1781b	ppb	6.1001	191.9	2.8778
Sn 189.925	1.2200b	ppb	1.1380	93.3	-11.7643
Sr 216.596	707.548b	ppb	16.9847	2.4	12080.7
Ti 334.941	0.0890b	ppb	0.0162	18.3	-37.1706
Tl 190.794	-0.8989b	ppb	1.3700	152.4	-14.5373
V 292.401	0.4168b	ppb	0.1895	45.5	6.0030
Zn 206.200	1.3475b	ppb	0.2249	16.7	8.7925

680-94634-a-1-aPDS (Samp) **9/30/2013, 9:26:33 PM** **Rack 3, Tube 10**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	33.4411	32.8475	32.8352
Al 308.215	3819.97	3825.32	3819.72
As 188.980	196.679	195.875	196.520
B 249.678	1269.48	1270.99	1270.13
Ba 389.178	213.887	213.713	212.745
Be 313.042	46.8327	46.7796	46.7960
Ca 370.602	198509	198245	198814
Cd 226.502	46.3871	46.3686	46.3690
Co 228.615	184.334	185.837	183.909
Cr 267.716	357.600	357.490	357.287
Cu 324.754	204.421	202.413	204.297
Fe 271.441	1816.48	1810.95	1814.89
K 766.491	9027.39	9012.17	9070.13
Mg 279.078	19766.7	19750.9	19714.5
Mn 257.610	598.836	598.051	598.245
Mo 202.032	195.265	194.634	193.440
Na 330.237	535006x	534958x	535858x
Ni 231.604	187.285	185.973	188.360
Pb 220.353	179.164	180.989	181.710
Sb 206.834	187.382	191.293	191.036
Se 196.026	206.412	211.562	214.967
Sn 189.925	182.632	187.610	183.667
Sr 216.596	3429.58	3430.29	3426.19
Ti 334.941	186.883	186.990	187.284
Tl 190.794	168.240	171.619	172.329
V 292.401	189.963	189.837	189.670
Zn 206.200	194.741	194.473	194.275

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	33.0413b	ppb	0.3463	1.0	2859.28
Al 308.215	3821.67b	ppb	3.1636	0.1	22923.5

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	196.358b	ppb	0.4255	0.2	182.478
B 249.678	1270.20b	ppb	0.7576	0.1	25514.5
Ba 389.178	213.448b	ppb	0.6156	0.3	5598.52
Be 313.042	46.8028b	ppb	0.0272	0.1	102430
Ca 370.602	198523b	ppb	284.9	0.1	628378
Cd 226.502	46.3749b	ppb	0.0106	0.0	2796.60
Co 228.615	184.693b	ppb	1.0131	0.5	2753.58
Cr 267.716	357.459b	ppb	0.1588	0.0	22866.2
Cu 324.754	203.710b	ppb	1.1253	0.6	14269.0
Fe 271.441	1814.11b	ppb	2.8505	0.2	3667.40
K 766.491	9036.56b	ppb	30.0461	0.3	388898
Mg 279.078	19744.0b	ppb	26.7863	0.1	61856.5
Mn 257.610	598.377b	ppb	0.4085	0.1	163327
Mo 202.032	194.446b	ppb	0.9267	0.5	1711.14
Na 330.237	535274xb	ppb	506.384	0.1	33882.9
Ni 231.604	187.206b	ppb	1.1955	0.6	759.113
Pb 220.353	180.621b	ppb	1.3125	0.7	402.260
Sb 206.834	189.903b	ppb	2.1875	1.2	318.901
Se 196.026	210.980b	ppb	4.3071	2.0	107.862
Sn 189.925	184.636b	ppb	2.6264	1.4	199.454
Sr 216.596	3428.69b	ppb	2.1917	0.1	58495.2
Ti 334.941	187.052b	ppb	0.2078	0.1	55442.6
Tl 190.794	170.729b	ppb	2.1851	1.3	245.374
V 292.401	189.824b	ppb	0.1469	0.1	5945.32
Zn 206.200	194.496b	ppb	0.2342	0.1	362.480

680-94634-a-1-b ms (Samp) **9/30/2013, 9:31:09 PM** **Rack 3, Tube 11**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	60.2634	60.6787	60.3494
Al 308.215	7001.77	7015.76	6980.96
As 188.980	106.343	109.796	108.510
B 249.678	926.778	934.182	933.203
Ba 389.178	123.924	125.279	124.343
Be 313.042	50.2440	50.7533	50.4920
Ca 370.602	183537	183859	182041
Cd 226.502	49.4319	49.6515	49.7699
Co 228.615	49.5647	50.3454	48.9995
Cr 267.716	255.962	258.766	257.412
Cu 324.754	109.448	110.182	109.455
Fe 271.441	4814.32	4836.53	4816.12
K 766.491	13199.1	13274.6	13126.7
Mg 279.078	21089.3	21301.8	21221.5
Mn 257.610	883.694	889.304	885.640
Mo 202.032	103.659	104.828	104.418
Na 330.237	486657x	490834x	488315x
Ni 231.604	103.895	104.162	102.994
Pb 220.353	50.2827	48.4341	47.6143
Sb 206.834	54.0149	52.3653	54.1572
Se 196.026	125.550	125.328	104.313
Sn 189.925	196.371	198.041	192.960
Sr 216.596	3018.19	3050.76	3044.72
Ti 334.941	99.4375	99.6947	99.1659

Label	Replicates	Concentration	
Tl 190.794	34.4168	36.9822	33.2579
V 292.401	102.787	103.700	103.231
Zn 206.200	106.151	105.269	107.276

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	60.4305b	ppb	0.2192	0.4	5421.70
Al 308.215	6999.50b	ppb	17.5078	0.3	42060.4
As 188.980	108.216b	ppb	1.7452	1.6	97.0306
B 249.678	931.387b	ppb	4.0222	0.4	18726.5
Ba 389.178	124.515b	ppb	0.6938	0.6	3292.35
Be 313.042	50.4964b	ppb	0.2547	0.5	110559
Ca 370.602	183146b	ppb	970.1	0.5	579427
Cd 226.502	49.6177b	ppb	0.1715	0.3	3005.02
Co 228.615	49.6365b	ppb	0.6758	1.4	735.084
Cr 267.716	257.380b	ppb	1.4022	0.5	16476.3
Cu 324.754	109.695b	ppb	0.4214	0.4	7743.27
Fe 271.441	4822.32b	ppb	12.3392	0.3	9651.07
K 766.491	13200.1b	ppb	73.9363	0.6	567969
Mg 279.078	21204.2b	ppb	107.313	0.5	66422.4
Mn 257.610	886.213b	ppb	2.8488	0.3	241804
Mo 202.032	104.302b	ppb	0.5931	0.6	921.263
Na 330.237	488602xb	ppb	2103.37	0.4	30932.9
Ni 231.604	103.683b	ppb	0.6121	0.6	419.342
Pb 220.353	48.7770b	ppb	1.3669	2.8	118.575
Sb 206.834	53.5124b	ppb	0.9960	1.9	92.1058
Se 196.026	118.397b	ppb	12.1976	10.3	61.2302
Sn 189.925	195.791b	ppb	2.5897	1.3	212.247
Sr 216.596	3037.89b	ppb	17.3263	0.6	51838.0
Ti 334.941	99.4327b	ppb	0.2644	0.3	29471.5
Tl 190.794	34.8856b	ppb	1.9059	5.5	38.7962
V 292.401	103.239b	ppb	0.4565	0.4	3226.28
Zn 206.200	106.232b	ppb	1.0061	0.9	200.692

680-94634-a-1-c msd (Samp) **9/30/2013, 9:35:46 PM** **Rack 3, Tube 12**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	60.4412	60.1055	60.5352
Al 308.215	7149.50	7110.38	7106.26
As 188.980	112.367	106.974	112.482
B 249.678	951.039	949.463	949.059
Ba 389.178	125.005	124.424	124.997
Be 313.042	50.2915	50.3748	50.4624
Ca 370.602	190190	187592	189362
Cd 226.502	49.6947	49.6104	49.5707
Co 228.615	50.4202	49.8948	49.6834
Cr 267.716	259.681	259.849	260.199
Cu 324.754	110.114	109.140	109.883
Fe 271.441	4846.88	4824.61	4840.62
K 766.491	13358.7	13340.4	13383.3
Mg 279.078	21468.3	21458.4	21459.0
Mn 257.610	900.864	898.696	898.048
Mo 202.032	105.797	104.975	104.463
Na 330.237	500528x	499686x	499532x

Label	Replicates Concentration		
Ni 231.604	104.523	104.653	103.909
Pb 220.353	51.6138	50.8885	50.8120
Sb 206.834	57.2642	57.9667	56.9060
Se 196.026	121.420	127.010	111.767
Sn 189.925	196.763	199.378	194.478
Sr 216.596	3101.47	3094.80	3090.95
Ti 334.941	100.519	100.184	100.399
Tl 190.794	35.1503	36.8594	32.1288
V 292.401	103.422	103.071	103.821
Zn 206.200	103.599	107.463	108.035

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	60.3607b	ppb	0.2259	0.4	5414.09
Al 308.215	7122.05b	ppb	23.8654	0.3	42797.8
As 188.980	110.608b	ppb	3.1477	2.8	99.3498
B 249.678	949.854b	ppb	1.0462	0.1	19096.0
Ba 389.178	124.808b	ppb	0.3332	0.3	3300.83
Be 313.042	50.3762b	ppb	0.0855	0.2	110294
Ca 370.602	189048b	ppb	1327	0.7	598110
Cd 226.502	49.6253b	ppb	0.0633	0.1	3005.43
Co 228.615	49.9995b	ppb	0.3794	0.8	740.513
Cr 267.716	259.910b	ppb	0.2643	0.1	16638.2
Cu 324.754	109.713b	ppb	0.5090	0.5	7744.50
Fe 271.441	4837.37b	ppb	11.4836	0.2	9681.18
K 766.491	13360.8b	ppb	21.5394	0.2	574880
Mg 279.078	21461.9b	ppb	5.5367	0.0	67229.3
Mn 257.610	899.203b	ppb	1.4750	0.2	245347
Mo 202.032	105.078b	ppb	0.6731	0.6	928.067
Na 330.237	499915xb	ppb	536.065	0.1	31648.2
Ni 231.604	104.362b	ppb	0.3971	0.4	422.105
Pb 220.353	51.1048b	ppb	0.4425	0.9	123.596
Sb 206.834	57.3790b	ppb	0.5396	0.9	98.5827
Se 196.026	120.065b	ppb	7.7114	6.4	62.0742
Sn 189.925	196.873b	ppb	2.4516	1.2	213.499
Sr 216.596	3095.74b	ppb	5.3200	0.2	52824.9
Ti 334.941	100.367b	ppb	0.1696	0.2	29749.1
Tl 190.794	34.7128b	ppb	2.3955	6.9	38.5289
V 292.401	103.438b	ppb	0.3755	0.4	3232.25
Zn 206.200	106.365b	ppb	2.4129	2.3	200.926

Cont Calib Verif (CCV) **9/30/2013, 9:40:22 PM** **Rack 3, Tube 13**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	481.325	480.717	484.167
Al 308.215	4904.65	4899.08	4912.37
As 188.980	480.805	481.631	474.286
B 249.678	484.084	484.227	485.597
Ba 389.178	4963.85	4953.92	4952.97
Be 313.042	491.769	487.885	488.290
Ca 370.602	5087	5086	5076
Cd 226.502	495.259	492.285	492.498
Co 228.615	494.082	492.393	493.056
Cr 267.716	5031.03	4999.36	5002.53

Label	Replicates Concentration		
Cu 324.754	5122.90	5086.45	5144.93
Fe 271.441	4775.20	4764.59	4755.11
K 766.491	10097.1	10034.6	10011.3
Mg 279.078	4908.98	4880.76	4882.84
Mn 257.610	5082.88	5055.28	5055.43
Mo 202.032	506.105	504.539	502.649
Na 330.237	7060.07	7061.84	7022.10
Ni 231.604	2469.81	2458.85	2460.14
Pb 220.353	499.483	495.288	494.058
Sb 206.834	1002.81	993.734	998.492
Se 196.026	5090.17	5075.08	5102.19
Sn 189.925	5001.83	4970.01	4977.37
Sr 216.596	2540.37	2529.22	2526.87
Ti 334.941	487.591	486.579	487.068
Tl 190.794	5065.70	5046.28	5033.04
V 292.401	4930.61	4910.52	4905.62
Zn 206.200	2483.15	2472.06	2470.32

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	482.069	ppb	1.8416	0.4	44624.9	96.41386
Al 308.215	4905.37	ppb	6.6712	0.1	28656.1	98.10732
As 188.980	478.907	ppb	4.0237	0.8	456.357	95.78148
B 249.678	484.636	ppb	0.8356	0.2	9786.85	96.92722
Ba 389.178	4956.91	ppb	6.0238	0.1	129020	99.13829
Be 313.042	489.314	ppb	2.1352	0.4	1073605	97.86288
Ca 370.602	5083	ppb	6.425	0.1	16150	101.66174
Cd 226.502	493.347	ppb	1.6590	0.3	29576.5	98.66947
Co 228.615	493.177	ppb	0.8507	0.2	7377.99	98.63541
Cr 267.716	5010.97	ppb	17.4387	0.3	320038	100.21944
Cu 324.754	5118.09	ppb	29.5360	0.6	355282	102.36186
Fe 271.441	4764.97	ppb	10.0485	0.2	9655.60	95.29935
K 766.491	10047.7	ppb	44.3989	0.4	432385	100.47687
Mg 279.078	4890.86	ppb	15.7259	0.3	15231.3	97.81716
Mn 257.610	5064.53	ppb	15.8932	0.3	1380498	101.29064
Mo 202.032	504.431	ppb	1.7304	0.3	4416.40	100.88622
Na 330.237	7048.00	ppb	22.4508	0.3	441.880	93.97338
Ni 231.604	2462.93	ppb	5.9894	0.2	10030.5	98.51733
Pb 220.353	496.277	ppb	2.8444	0.6	1083.40	99.25531
Sb 206.834	998.346	ppb	4.5411	0.5	1736.03	99.83459
Se 196.026	5089.15	ppb	13.5828	0.3	2570.35	101.78294
Sn 189.925	4983.07	ppb	16.6605	0.3	5716.57	99.66141
Sr 216.596	2532.15	ppb	7.2140	0.3	43115.4	101.28606
Ti 334.941	487.079	ppb	0.5061	0.1	144388	97.41579
Tl 190.794	5048.34	ppb	16.4277	0.3	7624.78	100.96684
V 292.401	4915.58	ppb	13.2466	0.3	155237	98.31164
Zn 206.200	2475.18	ppb	6.9624	0.3	4534.63	99.00710

Cont Calib Blank (CCB) **9/30/2013, 9:44:58 PM** **Rack 3, Tube 14**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.2283	0.1603	0.1740
Al 308.215	-3.2055u	-2.1493u	-3.0819u
As 188.980	3.4329	4.0758	2.2644

Label	Replicates Concentration		
B 249.678	4.1397	4.1245	3.2330
Ba 389.178	0.8452	0.5727	0.5098
Be 313.042	0.0028	0.0086	0.0067
Ca 370.602	1.553	-1.431u	6.203
Cd 226.502	0.0074	-0.0665u	-0.0407u
Co 228.615	0.7260	-0.3620u	0.3328
Cr 267.716	0.0090	0.2404	-0.1311u
Cu 324.754	-0.3597u	-0.5305u	-0.0830u
Fe 271.441	4.0412	5.3916	-1.5676u
K 766.491	2.0315	0.9666	0.8560
Mg 279.078	-2.4953u	-0.4876u	-0.9114u
Mn 257.610	0.0306	0.0048	0.0134
Mo 202.032	0.0549	-0.1575u	0.4178
Na 330.237	-40.8613u	16.4752	4.2443
Ni 231.604	-0.9971u	0.2437	0.0436
Pb 220.353	-1.7115u	0.2302	1.1165
Sb 206.834	1.3482	5.9084	2.5480
Se 196.026	8.6947	-2.5864u	3.1608
Sn 189.925	3.2441	2.3834	-1.5530u
Sr 216.596	0.0017	0.2188	-0.1132u
Ti 334.941	0.1319	0.1427	0.1438
Tl 190.794	0.7952	0.3258	1.3827
V 292.401	0.1540	-0.0800u	-0.3531u
Zn 206.200	0.2374	-0.8220u	-1.3421u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.1875	ppb	0.0360	19.2	-3.8964	0.18751
Al 308.215	-2.8122	ppb	0.5775	20.5	-59.6192	-2.81224
As 188.980	3.2577	ppb	0.9183	28.2	-4.7514	3.25769
B 249.678	3.8324	ppb	0.5191	13.5	179.287	3.83241
Ba 389.178	0.6426	ppb	0.1782	27.7	-2.2242	0.64258
Be 313.042	0.0060	ppb	0.0030	49.4	-260.491	0.00600
Ca 370.602	2.108	ppb	3.847	182.5	1.945	2.10808
Cd 226.502	-0.0332	ppb	0.0375	112.9	14.3374	-0.03324
Co 228.615	0.2323	ppb	0.5509	237.2	-3.7519	0.23228
Cr 267.716	0.0394	ppb	0.1876	476.1	22.4661	0.03941
Cu 324.754	-0.3244	ppb	0.2259	69.6	103.238	-0.32438
Fe 271.441	2.6217	ppb	3.6903	140.8	20.8096	2.62175
K 766.491	1.2847	ppb	0.6491	50.5	296.659	1.28471
Mg 279.078	-1.2981	ppb	1.0582	81.5	28.9883	-1.29809
Mn 257.610	0.0163	ppb	0.0132	80.9	41.5221	0.01626
Mo 202.032	0.1051	ppb	0.2909	276.9	8.7700	0.10506
Na 330.237	-6.7139	ppb	30.1982	449.8	44.2925	-6.71393
Ni 231.604	-0.2366	ppb	0.6662	281.6	-4.0724	-0.23661
Pb 220.353	-0.1216	ppb	1.4465	1189.8	12.8940	-0.12157
Sb 206.834	3.2682	ppb	2.3638	72.3	5.8304	3.26819
Se 196.026	3.0897	ppb	5.6409	182.6	2.8107	3.08968
Sn 189.925	1.3582	ppb	2.5576	188.3	-11.6826	1.35817
Sr 216.596	0.0358	ppb	0.1686	471.4	10.7038	0.03577
Ti 334.941	0.1395	ppb	0.0066	4.7	-32.2218	0.13946
Tl 190.794	0.8346	ppb	0.5295	63.4	-11.8505	0.83456
V 292.401	-0.0930	ppb	0.2538	272.8	-6.8331	-0.09304
Zn 206.200	-0.6422	ppb	0.8050	125.3	5.3022	-0.64222

680-94634-a-2-a (Samp) **9/30/2013, 9:49:34 PM** **Rack 3, Tube 15**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	1.0882u	0.9536u	1.2505u
Al 308.215	1945.86	1935.57	1943.32
As 188.980	7.8816	2.2767	0.4394
B 249.678	773.758	775.517	776.641
Ba 389.178	23.0703	23.6361	23.7034
Be 313.042	0.0143	0.0041	0.0121
Ca 370.602	189737	190242	190060
Cd 226.502	1.1642	1.0784	1.0974
Co 228.615	-0.4549u	0.8789	0.1494
Cr 267.716	218.674	218.475	219.640
Cu 324.754	0.5916	0.5293	0.4998
Fe 271.441	84.1776	84.1327	77.0719
K 766.491	5647.01	5629.95	5616.50
Mg 279.078	16934.8	16959.7	17011.6
Mn 257.610	391.680	390.573	392.229
Mo 202.032	2.5978	2.9964	2.3148
Na 330.237	507072x	507929x	507683x
Ni 231.604	6.0362	7.6174	7.2743
Pb 220.353	1.8488	2.1877	1.5789
Sb 206.834	1.8896	5.3598	5.1433
Se 196.026	18.8913	13.0597	9.5354
Sn 189.925	0.2603	-3.0451u	-1.5607u
Sr 216.596	3082.68	3078.49	3088.74
Ti 334.941	1.2708	1.0856	3.0957
Tl 190.794	-2.6973u	-5.6285u	-6.0480u
V 292.401	2.5627	2.1387	2.2326
Zn 206.200	13.2865	12.9338	14.8203

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	1.0975b	ppb	0.1487	13.5	-85.7127
Al 308.215	1941.58b	ppb	5.3596	0.3	11639.9
As 188.980	3.5326b	ppb	3.8768	109.7	-4.4589
B 249.678	775.305b	ppb	1.4529	0.2	15616.4
Ba 389.178	23.4699b	ppb	0.3478	1.5	641.908
Be 313.042	0.0102b	ppb	0.0054	53.2	-250.934
Ca 370.602	190013b	ppb	256.1	0.1	601473
Cd 226.502	1.1133b	ppb	0.0451	4.0	78.8595
Co 228.615	0.1912b	ppb	0.6679	349.4	-3.4778
Cr 267.716	218.929b	ppb	0.6231	0.3	14018.2
Cu 324.754	0.5402b	ppb	0.0469	8.7	163.346
Fe 271.441	81.7941b	ppb	4.0896	5.0	179.385
K 766.491	5631.15b	ppb	15.2903	0.3	242433
Mg 279.078	16968.7b	ppb	39.1731	0.2	53169.5
Mn 257.610	391.494b	ppb	0.8437	0.2	106907
Mo 202.032	2.6363b	ppb	0.3425	13.0	30.9414
Na 330.237	507562xb	ppb	441.338	0.1	32135.5
Ni 231.604	6.9760b	ppb	0.8317	11.9	25.3187
Pb 220.353	1.8718b	ppb	0.3051	16.3	17.2589
Sb 206.834	4.1309b	ppb	1.9441	47.1	10.4299
Se 196.026	13.8288b	ppb	4.7252	34.2	8.3273
Sn 189.925	-1.4485b	ppb	1.6555	114.3	-14.5376
Sr 216.596	3083.30b	ppb	5.1567	0.2	52610.7

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ti 334.941	1.8174b	ppb	1.1109	61.1	502.199
Tl 190.794	-4.7913b	ppb	1.8255	38.1	-20.6414
V 292.401	2.3113b	ppb	0.2227	9.6	50.6742
Zn 206.200	13.6802b	ppb	1.0029	7.3	30.6447

680-94634-a-3-a (Samp) **9/30/2013, 9:54:11 PM** **Rack 3, Tube 16**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.8741u	0.9521u	0.8763u
Al 308.215	2719.74	2725.96	2720.95
As 188.980	3.5861	0.4432	5.2963
B 249.678	1100.08	1102.02	1103.61
Ba 389.178	11.4393	12.2330	10.9209
Be 313.042	0.0237	0.0179	0.0247
Ca 370.602	85419	85517	85369
Cd 226.502	1.4295	1.3661	1.4045
Co 228.615	0.0371	0.4621	0.1022
Cr 267.716	17.2956	17.3651	17.3123
Cu 324.754	5.0852	4.9767	4.7384
Fe 271.441	56.9080	60.9201	50.1835
K 766.491	8014.40	8015.15	8017.94
Mg 279.078	10147.9	10130.9	10136.4
Mn 257.610	161.214	161.440	161.202
Mo 202.032	3.2109	2.9054	2.7716
Na 330.237	457993x	456908x	456845x
Ni 231.604	8.8488	7.6301	8.7685
Pb 220.353	1.7992	0.0641	0.0538
Sb 206.834	-0.2617u	3.7785	5.0557
Se 196.026	10.6521	5.8260	2.8154
Sn 189.925	0.1557	-0.4546u	-1.8188u
Sr 216.596	2408.71	2409.37	2405.65
Ti 334.941	0.3161	0.3133	0.3098
Tl 190.794	-4.9438u	-3.5764u	-8.8226u
V 292.401	1.8672	1.4400	1.6685
Zn 206.200	54.2972	55.7179	53.9394

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.9008b	ppb	0.0444	4.9	-67.3950
Al 308.215	2722.22b	ppb	3.2988	0.1	16337.2
As 188.980	3.1085b	ppb	2.4615	79.2	-4.8590
B 249.678	1101.90b	ppb	1.7706	0.2	22151.8
Ba 389.178	11.5311b	ppb	0.6609	5.7	311.087
Be 313.042	0.0221b	ppb	0.0036	16.4	-258.479
Ca 370.602	85435b	ppb	75.54	0.1	270434
Cd 226.502	1.4000b	ppb	0.0319	2.3	96.2358
Co 228.615	0.2004b	ppb	0.2289	114.2	-4.2391
Cr 267.716	17.3244b	ppb	0.0363	0.2	1138.91
Cu 324.754	4.9334b	ppb	0.1774	3.6	468.245
Fe 271.441	56.0039b	ppb	5.4251	9.7	127.428
K 766.491	8015.83b	ppb	1.8672	0.0	344997
Mg 279.078	10138.4b	ppb	8.6839	0.1	31781.8
Mn 257.610	161.285b	ppb	0.1342	0.1	44093.2
Mo 202.032	2.9626b	ppb	0.2252	7.6	33.8027

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Na 330.237	457249xb	ppb	645.374	0.1	28953.7
Ni 231.604	8.4158b	ppb	0.6816	8.1	31.1846
Pb 220.353	0.6390b	ppb	1.0048	157.2	14.5185
Sb 206.834	2.8575b	ppb	2.7758	97.1	5.3417
Se 196.026	6.4312b	ppb	3.9533	61.5	4.5370
Sn 189.925	-0.7059b	ppb	1.0109	143.2	-13.7692
Sr 216.596	2407.91b	ppb	1.9830	0.1	41078.7
Ti 334.941	0.3131b	ppb	0.0032	1.0	27.8782
Tl 190.794	-5.7809b	ppb	2.7214	47.1	-21.9753
V 292.401	1.6586b	ppb	0.2138	12.9	42.6917
Zn 206.200	54.6515b	ppb	0.9407	1.7	106.884

680-94640-a-6-b (Samp) **9/30/2013, 9:58:47 PM** **Rack 3, Tube 17**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	0.6716	-0.2459u	0.3380
Al 308.215	8.7578	7.5511	8.4874
As 188.980	0.0413	1.3498	4.4363
B 249.678	22.6494	22.4642	21.7826
Ba 389.178	4.4068	4.1582	3.5470
Be 313.042	-0.0661	-0.0612	-0.0609
Ca 370.602	381139	381008	382934
Cd 226.502	0.1209	0.1299	0.1484
Co 228.615	0.7731	0.4646	0.4427
Cr 267.716	0.0322	0.1063	0.0499
Cu 324.754	18.3765	18.5505	18.3874
Fe 271.441	42.0061	38.5388	32.7743
K 766.491	4965.58	4953.18	4955.69
Mg 279.078	15745.8	15781.6	15762.7
Mn 257.610	34.2565	34.3684	34.3496
Mo 202.032	4.3830	4.3937	3.9550
Na 330.237	13201.4	13322.3	13308.0
Ni 231.604	1.7697	1.8288	2.4451
Pb 220.353	0.1604	3.1060	1.8438
Sb 206.834	-0.2712u	2.1013	4.5900
Se 196.026	-3.7365u	5.7746	-0.4217u
Sn 189.925	-2.1167u	-1.8189u	0.2347
Sr 216.596	183.869	183.893	183.907
Ti 334.941	0.6451	0.6632	0.6492
Tl 190.794	-1.3016u	2.0122	-6.0068u
V 292.401	1.0279	1.0605	1.3826
Zn 206.200	29.8150	29.4423	27.6869

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.2546	ppb	0.4644	182.4	-8.7724
Al 308.215	8.2654	ppb	0.6332	7.7	7.0302
As 188.980	1.9425	ppb	2.2567	116.2	-6.0290
B 249.678	22.2987	ppb	0.4565	2.0	548.726
Ba 389.178	4.0373	ppb	0.4424	11.0	132.540
Be 313.042	-0.0627	ppb	0.0029	4.7	-263.992
Ca 370.602	381694	ppb	1077	0.3	1208217
Cd 226.502	0.1331	ppb	0.0140	10.5	24.6414
Co 228.615	0.5601	ppb	0.1848	33.1	1.0262

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Cr 267.716	0.0628	ppb	0.0387	61.6	24.4852
Cu 324.754	18.4381	ppb	0.0974	0.5	1405.54
Fe 271.441	37.7731	ppb	4.6633	12.3	91.0434
K 766.491	4958.15	ppb	6.5541	0.1	213488
Mg 279.078	15763.3	ppb	17.9193	0.1	49403.3
Mn 257.610	34.3248	ppb	0.0599	0.2	9550.20
Mo 202.032	4.2439	ppb	0.2503	5.9	45.0317
Na 330.237	13277.2	ppb	66.0814	0.5	883.638
Ni 231.604	2.0146	ppb	0.3741	18.6	5.0999
Pb 220.353	1.7034	ppb	1.4778	86.8	16.8333
Sb 206.834	2.1400	ppb	2.4308	113.6	3.8639
Se 196.026	0.5388	ppb	4.8277	896.0	1.5324
Sn 189.925	-1.2337	ppb	1.2803	103.8	-14.4390
Sr 216.596	183.890	ppb	0.0189	0.0	3205.66
Ti 334.941	0.6525	ppb	0.0095	1.5	194.178
Tl 190.794	-1.7654	ppb	4.0296	228.3	-15.8112
V 292.401	1.1570	ppb	0.1961	16.9	32.0552
Zn 206.200	28.9814	ppb	1.1364	3.9	59.7670

680-94640-a-5-b (Samp) **9/30/2013, 10:03:24 PM** **Rack 3, Tube 18**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.1133u	0.0078u	-0.0477u
Al 308.215	5.5411	6.4630	6.2650
As 188.980	4.3606	0.7137	0.4196
B 249.678	19.3692	19.5113	19.0960
Ba 389.178	-0.2034	0.6147	0.9076
Be 313.042	-0.0369u	-0.0279	-0.0377u
Ca 370.602	205021	204013	201853
Cd 226.502	0.0514	0.1308	0.1089
Co 228.615	1.0283	0.5550	0.6849
Cr 267.716	0.0659	0.3040	0.1877
Cu 324.754	26.2130	25.8179	26.1351
Fe 271.441	18.6658	21.8998	24.4082
K 766.491	3301.22	3305.91	3310.11
Mg 279.078	8341.59	8358.70	8378.08
Mn 257.610	17.8006	17.7211	17.6838
Mo 202.032	3.3506	2.7898	3.5543
Na 330.237	9789.36	9928.93	9813.55
Ni 231.604	1.5001	0.9491	0.7379
Pb 220.353	2.4204	4.5335	1.9405
Sb 206.834	1.1295	4.1242	6.2530
Se 196.026	-8.2260u	3.6563	4.0441
Sn 189.925	0.7949	-1.2978u	-1.9042u
Sr 216.596	99.6224	100.547	99.8698
Ti 334.941	0.4459	0.4648	0.4290
Tl 190.794	-1.5994u	-0.1353u	-1.2127u
V 292.401	0.5588	0.2670	0.5966
Zn 206.200	67.3662	66.0738	65.6052

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0511	ppb	0.0606	118.7	-32.0847
Al 308.215	6.0897	ppb	0.4853	8.0	-6.0086

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	1.8313	ppb	2.1954	119.9	-6.1362
B 249.678	19.3255	ppb	0.2111	1.1	489.272
Ba 389.178	0.4396	ppb	0.5758	131.0	17.1068
Be 313.042	-0.0342	ppb	0.0055	16.0	-270.302
Ca 370.602	203629	ppb	1619	0.8	644567
Cd 226.502	0.0970	ppb	0.0410	42.3	22.2884
Co 228.615	0.7561	ppb	0.2446	32.3	3.9819
Cr 267.716	0.1859	ppb	0.1191	64.1	32.1675
Cu 324.754	26.0553	ppb	0.2092	0.8	1934.15
Fe 271.441	21.6579	ppb	2.8789	13.3	58.8982
K 766.491	3305.75	ppb	4.4441	0.1	142419
Mg 279.078	8359.46	ppb	18.2554	0.2	26214.6
Mn 257.610	17.7352	ppb	0.0597	0.3	4954.51
Mo 202.032	3.2316	ppb	0.3959	12.3	36.1637
Na 330.237	9843.95	ppb	74.5873	0.8	665.889
Ni 231.604	1.0624	ppb	0.3935	37.0	1.2191
Pb 220.353	2.9648	ppb	1.3796	46.5	19.5484
Sb 206.834	3.8356	ppb	2.5739	67.1	6.7127
Se 196.026	-0.1752	ppb	6.9749	3981.2	1.1679
Sn 189.925	-0.8024	ppb	1.4161	176.5	-14.0456
Sr 216.596	100.013	ppb	0.4785	0.5	1747.54
Ti 334.941	0.4466	ppb	0.0179	4.0	97.9818
Tl 190.794	-0.9825	ppb	0.7588	77.2	-14.6125
V 292.401	0.4741	ppb	0.1803	38.0	10.5419
Zn 206.200	66.3484	ppb	0.9121	1.4	128.468

680-94640-a-4-b (Samp) **9/30/2013, 10:08:00 PM** **Rack 3, Tube 19**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.2336	0.2966	0.5540
Al 308.215	2.8532	3.4570	3.6873
As 188.980	-2.2420u	-1.9844u	-0.1366u
B 249.678	18.5279	18.6879	18.5219
Ba 389.178	-1.4168u	-2.0349u	-1.3814u
Be 313.042	-0.0030	-0.0033	-0.0039
Ca 370.602	42256	42204	42288
Cd 226.502	0.1601	0.0546	0.0112
Co 228.615	0.0255	-0.3207u	0.5376
Cr 267.716	0.0642	-0.0666u	0.1330
Cu 324.754	35.6910	35.9422	35.6473
Fe 271.441	7.0989	4.8185	10.4422
K 766.491	2068.69	2077.98	2083.73
Mg 279.078	1554.60	1553.88	1557.61
Mn 257.610	2.1425	2.1751	2.1166
Mo 202.032	2.5317	2.2783	2.1514
Na 330.237	6968.34	7475.19	7185.26
Ni 231.604	1.3178	0.9111	2.1289
Pb 220.353	-0.0341u	-1.9495u	1.9389
Sb 206.834	4.3846	-0.1398u	-0.0058u
Se 196.026	2.8574	-2.5454u	-0.0304u
Sn 189.925	0.9047	0.1999	0.3773
Sr 216.596	21.5802	21.7477	21.0608
Ti 334.941	0.2286	0.2233	0.1846

Label	Replicates Concentration		
Tl 190.794	1.2627	-2.4017u	-2.5253u
V 292.401	-0.1464u	0.1575	-0.0041u
Zn 206.200	40.4644	40.1062	39.9534

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.3614	ppb	0.1697	47.0	10.9413
Al 308.215	3.3325	ppb	0.4308	12.9	-22.5390
As 188.980	-1.4543	ppb	1.1484	79.0	-9.3223
B 249.678	18.5792	ppb	0.0941	0.5	474.371
Ba 389.178	-1.6110	ppb	0.3675	22.8	-56.2793
Be 313.042	-0.0034	ppb	0.0005	14.2	-265.839
Ca 370.602	42249	ppb	42.79	0.1	133732
Cd 226.502	0.0753	ppb	0.0766	101.7	20.8146
Co 228.615	0.0808	ppb	0.4318	534.4	-6.0888
Cr 267.716	0.0435	ppb	0.1014	233.0	22.9223
Cu 324.754	35.7602	ppb	0.1592	0.4	2607.65
Fe 271.441	7.4532	ppb	2.8286	38.0	30.4345
K 766.491	2076.80	ppb	7.5885	0.4	89563.1
Mg 279.078	1555.37	ppb	1.9792	0.1	4904.44
Mn 257.610	2.1447	ppb	0.0293	1.4	637.246
Mo 202.032	2.3205	ppb	0.1936	8.3	28.1820
Na 330.237	7209.60	ppb	254.304	3.5	499.804
Ni 231.604	1.4526	ppb	0.6200	42.7	2.8108
Pb 220.353	-0.0149	ppb	1.9443	13046.1	13.1212
Sb 206.834	1.4130	ppb	2.5744	182.2	2.6926
Se 196.026	0.0939	ppb	2.7035	2880.2	1.2997
Sn 189.925	0.4940	ppb	0.3666	74.2	-12.6484
Sr 216.596	21.4629	ppb	0.3582	1.7	382.692
Ti 334.941	0.2122	ppb	0.0240	11.3	-3.8462
Tl 190.794	-1.2214	ppb	2.1522	176.2	-14.9643
V 292.401	0.0023	ppb	0.1521	6498.8	-4.2751
Zn 206.200	40.1747	ppb	0.2623	0.7	80.3462

mb 680-295851/1-a (Samp) **9/30/2013, 10:12:36 PM** **Rack 3, Tube 20**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.2425	0.1692	0.2431
Al 308.215	-2.2033u	-1.5638u	-0.6794u
As 188.980	-0.2260u	-1.6067u	2.4554
B 249.678	3.7705	3.8583	3.6746
Ba 389.178	1.1212	0.6891	0.8125
Be 313.042	0.0073	-0.0005u	-0.0035u
Ca 370.602	-1.051u	2.878	7.164
Cd 226.502	0.0895	-0.0985u	0.0276
Co 228.615	0.2319	0.1777	0.1203
Cr 267.716	0.1274	-0.0599u	-0.0313u
Cu 324.754	-0.3257u	-0.3845u	-0.4713u
Fe 271.441	3.3824	-0.9688u	-1.3060u
K 766.491	1.8312	1.5606	1.7118
Mg 279.078	2.9610	2.2770	-1.4721u
Mn 257.610	-0.0310u	-0.0440u	-0.0416u
Mo 202.032	-0.0168u	-0.1477u	-0.2887u
Na 330.237	118.619	25.2206	-7.5395u

Label	Replicates Concentration		
Ni 231.604	-0.1149u	0.0915	0.2992
Pb 220.353	1.2231	0.5248	1.4370
Sb 206.834	4.5131	0.1230	-0.6095u
Se 196.026	0.1467	-0.8610u	2.2745
Sn 189.925	1.0945	1.9466	-1.5143u
Sr 216.596	0.0093	0.1681	-0.0251u
Ti 334.941	0.0864	0.0190	0.0296
Tl 190.794	-0.7819u	-1.9175u	-1.2560u
V 292.401	-0.1483u	0.1940	-0.1964u
Zn 206.200	-0.2754u	0.2564	0.5418

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.2182	ppb	0.0425	19.5	-1.0390
Al 308.215	-1.4822	ppb	0.7652	51.6	-51.6338
As 188.980	0.2076	ppb	2.0655	994.9	-7.7095
B 249.678	3.7678	ppb	0.0919	2.4	177.991
Ba 389.178	0.8743	ppb	0.2226	25.5	3.8114
Be 313.042	0.0011	ppb	0.0056	500.7	-271.162
Ca 370.602	2.997	ppb	4.109	137.1	4.636
Cd 226.502	0.0062	ppb	0.0958	1542.4	16.7036
Co 228.615	0.1766	ppb	0.0558	31.6	-4.5759
Cr 267.716	0.0121	ppb	0.1009	835.0	20.7204
Cu 324.754	-0.3938	ppb	0.0733	18.6	98.4059
Fe 271.441	0.3692	ppb	2.6150	708.3	16.3041
K 766.491	1.7012	ppb	0.1356	8.0	314.572
Mg 279.078	1.2553	ppb	2.3866	190.1	36.9876
Mn 257.610	-0.0389	ppb	0.0069	17.8	26.5228
Mo 202.032	-0.1511	ppb	0.1360	90.0	6.5257
Na 330.237	45.4334	ppb	65.4631	144.1	47.5685
Ni 231.604	0.0919	ppb	0.2071	225.2	-2.7335
Pb 220.353	1.0617	ppb	0.4771	44.9	15.4456
Sb 206.834	1.3422	ppb	2.7704	206.4	2.6253
Se 196.026	0.5201	ppb	1.6008	307.8	1.5141
Sn 189.925	0.5090	ppb	1.8032	354.3	-12.6590
Sr 216.596	0.0508	ppb	0.1030	203.0	10.9715
Ti 334.941	0.0450	ppb	0.0363	80.6	-60.2289
Tl 190.794	-1.3185	ppb	0.5704	43.3	-15.1074
V 292.401	-0.0502	ppb	0.2128	423.7	-5.4221
Zn 206.200	0.1743	ppb	0.4148	238.0	6.8035

lcs 680-295851/2-a (Samp) **9/30/2013, 10:17:12 PM** **Rack 3, Tube 21**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	57.5480	57.4879	57.5315
Al 308.215	5073.21	5080.94	5030.57
As 188.980	102.955	102.631	98.9641
B 249.678	194.132	196.376	195.116
Ba 389.178	104.062	105.447	103.271
Be 313.042	50.9111	51.3331	50.9677
Ca 370.602	5117	5116	5068
Cd 226.502	50.6072	50.6349	50.3906
Co 228.615	51.3184	51.1132	51.1989
Cr 267.716	103.368	104.443	103.493

Label	Replicates	Concentration	
Cu 324.754	104.640	105.566	105.328
Fe 271.441	4937.21	4974.88	4930.19
K 766.491	5036.08	5074.81	5036.51
Mg 279.078	5006.06	5044.26	5009.70
Mn 257.610	528.613	530.734	526.407
Mo 202.032	102.345	102.903	102.906
Na 330.237	4676.53	4847.75	4674.44
Ni 231.604	100.103	102.448	101.315
Pb 220.353	48.8683	51.1073	51.5057
Sb 206.834	49.0532	49.5161	50.6683
Se 196.026	99.0847	106.856	103.150
Sn 189.925	202.932	203.558	200.811
Sr 216.596	101.460	102.366	102.257
Ti 334.941	101.226	101.519	100.528
Tl 190.794	40.8535	40.9676	38.1889
V 292.401	101.273	102.383	101.148
Zn 206.200	100.514	102.736	100.523

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	57.5225	ppb	0.0311	0.1	5312.75
Al 308.215	5061.57	ppb	27.1247	0.5	30399.7
As 188.980	101.517	ppb	2.2165	2.2	90.5024
B 249.678	195.208	ppb	1.1247	0.6	3995.01
Ba 389.178	104.260	ppb	1.1013	1.1	2717.82
Be 313.042	51.0706	ppb	0.2290	0.4	111819
Ca 370.602	5100	ppb	28.36	0.6	15818
Cd 226.502	50.5442	ppb	0.1338	0.3	3065.36
Co 228.615	51.2102	ppb	0.1031	0.2	758.061
Cr 267.716	103.768	ppb	0.5878	0.6	6650.77
Cu 324.754	105.178	ppb	0.4807	0.5	7429.79
Fe 271.441	4947.43	ppb	24.0300	0.5	9900.67
K 766.491	5049.13	ppb	22.2360	0.4	217401
Mg 279.078	5020.01	ppb	21.0811	0.4	15742.5
Mn 257.610	528.585	ppb	2.1634	0.4	144173
Mo 202.032	102.718	ppb	0.3229	0.3	907.382
Na 330.237	4732.91	ppb	99.4622	2.1	339.830
Ni 231.604	101.289	ppb	1.1729	1.2	409.583
Pb 220.353	50.4937	ppb	1.4217	2.8	122.234
Sb 206.834	49.7459	ppb	0.8317	1.7	83.6268
Se 196.026	103.030	ppb	3.8868	3.8	53.3870
Sn 189.925	202.433	ppb	1.4397	0.7	219.530
Sr 216.596	102.028	ppb	0.4944	0.5	1752.65
Ti 334.941	101.091	ppb	0.5089	0.5	29928.2
Tl 190.794	40.0033	ppb	1.5724	3.9	46.7838
V 292.401	101.601	ppb	0.6796	0.7	3188.74
Zn 206.200	101.258	ppb	1.2801	1.3	192.244

640-45155-c-1-a (Samp) **9/30/2013, 10:21:49 PM** **Rack 3, Tube 22**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	1.0435u	1.3654u	1.1740u
Al 308.215	679.175	684.222	681.805
As 188.980	26.6705	16.4906	18.9553

Label	Replicates	Concentration	
B 249.678	259.794	259.901	260.965
Ba 389.178	290.687	291.311	291.618
Be 313.042	0.0706	0.0677	0.0646
Ca 370.602	458716	454639	454515
Cd 226.502	0.6719	0.8645	0.7568
Co 228.615	2.7474	2.7205	2.9548
Cr 267.716	6.5404	6.7039	6.5203
Cu 324.754	162.169	161.865	162.682
Fe 271.441	883.367	887.978	881.451
K 766.491	1043178o	1041821o	1035650o
Mg 279.078	22582.8	22593.7	22555.9
Mn 257.610	65.0349	65.1336	65.1190
Mo 202.032	12.6643	12.2374	12.8511
Na 330.237	208315x	207881x	207928x
Ni 231.604	16.0207	16.6513	17.6255
Pb 220.353	2.5941	1.4745	4.4973
Sb 206.834	1.1585	3.5257	4.6474
Se 196.026	3.9193	6.5656	5.6486
Sn 189.925	-3.4646u	-3.4221u	-3.2133u
Sr 216.596	3122.69	3122.06	3117.00
Ti 334.941	5.7353	5.6777	5.7259
Tl 190.794	-2.5774u	-1.7037u	-2.8558u
V 292.401	30.5310	29.7765	30.3043
Zn 206.200	618.543	623.135	620.172

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	1.1943b	ppb	0.1619	13.6	-83.0946
Al 308.215	681.734b	ppb	2.5239	0.4	4054.86
As 188.980	20.7055b	ppb	5.3108	25.6	12.1621
B 249.678	260.220b	ppb	0.6472	0.2	5310.67
Ba 389.178	291.205b	ppb	0.4743	0.2	7627.54
Be 313.042	0.0677b	ppb	0.0030	4.5	-37.1984
Ca 370.602	455957b	ppb	2390	0.5	1443228
Cd 226.502	0.7644b	ppb	0.0965	12.6	64.6413
Co 228.615	2.8076b	ppb	0.1282	4.6	35.4398
Cr 267.716	6.5882b	ppb	0.1007	1.5	446.245
Cu 324.754	162.238b	ppb	0.4131	0.3	11385.8
Fe 271.441	884.266b	ppb	3.3548	0.4	1781.46
K 766.491	1040216oxb	ppb	4011.95	0.4	44739196
Mg 279.078	22577.5b	ppb	19.4174	0.1	70744.5
Mn 257.610	65.0958b	ppb	0.0533	0.1	18005.4
Mo 202.032	12.5842b	ppb	0.3146	2.5	117.996
Na 330.237	208041xb	ppb	238.016	0.1	13186.7
Ni 231.604	16.7658b	ppb	0.8085	4.8	65.2242
Pb 220.353	2.8553b	ppb	1.5282	53.5	19.3692
Sb 206.834	3.1105b	ppb	1.7811	57.3	5.4344
Se 196.026	5.3778b	ppb	1.3437	25.0	3.9847
Sn 189.925	-3.3666b	ppb	0.1345	4.0	-16.7484
Sr 216.596	3120.58b	ppb	3.1230	0.1	53289.1
Ti 334.941	5.7130b	ppb	0.0309	0.5	1710.54
Tl 190.794	-2.3790b	ppb	0.6011	25.3	-16.8168
V 292.401	30.2039b	ppb	0.3871	1.3	948.015
Zn 206.200	620.617b	ppb	2.3281	0.4	1147.50

640-45155-c-2-a (Samp) **9/30/2013, 10:26:25 PM** **Rack 3, Tube 23**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.7414u	0.5503u	0.8202u
Al 308.215	7.3838	8.6205	7.8251
As 188.980	12.0557	8.7203	5.1138
B 249.678	1525.90	1598.70	1567.74
Ba 389.178	52.7154	54.4617	54.1754
Be 313.042	-0.0374	-0.0329	-0.0303
Ca 370.602	320877	335714	329640
Cd 226.502	0.0389	0.1985	0.0757
Co 228.615	0.7335	1.4191	0.6918
Cr 267.716	0.2663	0.2650	0.2207
Cu 324.754	29.8460	31.0447	30.3450
Fe 271.441	35.6776	32.5142	30.7192
K 766.491	229706x	239018x	234756x
Mg 279.078	38330.2	40105.6	39249.8
Mn 257.610	60.7648	63.5944	62.4446
Mo 202.032	26.2729	27.5976	26.4131
Na 330.237	27980.6	29177.9	28680.5
Ni 231.604	22.7815	24.1310	24.2094
Pb 220.353	0.7833	0.9189	1.4557
Sb 206.834	-1.0580u	2.0432	0.7046
Se 196.026	-1.3308u	4.4297	13.5040
Sn 189.925	0.0045	0.6256	-0.2838u
Sr 216.596	1740.40	1819.12	1781.88
Ti 334.941	0.1449	0.2247	0.2627
Tl 190.794	-4.5157u	-0.9532u	0.0474
V 292.401	26.0050	27.6443	26.9573
Zn 206.200	119.148	122.663	120.497

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.7039b	ppb	0.1388	19.7	-54.7475
Al 308.215	7.9431b	ppb	0.6268	7.9	1.9403
As 188.980	8.6299b	ppb	3.4718	40.2	0.4477
B 249.678	1564.12b	ppb	36.5361	2.3	31401.6
Ba 389.178	53.7842b	ppb	0.9366	1.7	1496.34
Be 313.042	-0.0336b	ppb	0.0036	10.7	-242.135
Ca 370.602	328743b	ppb	7459	2.3	1040609
Cd 226.502	0.1044b	ppb	0.0836	80.1	23.2276
Co 228.615	0.9481b	ppb	0.4084	43.1	6.2333
Cr 267.716	0.2507b	ppb	0.0259	10.3	36.7037
Cu 324.754	30.4119b	ppb	0.6021	2.0	2237.03
Fe 271.441	32.9703b	ppb	2.5105	7.6	81.7584
K 766.491	234493xb	ppb	4661.43	2.0	10085633
Mg 279.078	39228.6b	ppb	887.916	2.3	122896
Mn 257.610	62.2680b	ppb	1.4231	2.3	17391.3
Mo 202.032	26.7612b	ppb	0.7277	2.7	242.280
Na 330.237	28613.0b	ppb	601.537	2.1	1851.58
Ni 231.604	23.7073b	ppb	0.8027	3.4	93.4845
Pb 220.353	1.0526b	ppb	0.3556	33.8	15.3993
Sb 206.834	0.5633b	ppb	1.5554	276.1	0.7689
Se 196.026	5.5343b	ppb	7.4789	135.1	4.0602
Sn 189.925	0.1154b	ppb	0.4648	402.7	-12.9091
Sr 216.596	1780.47b	ppb	39.3815	6.58	30418.5

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ti 334.941	0.2108b	ppb	0.0601	28.5	174.140
Tl 190.794	-1.8072b	ppb	2.3984	132.7	-15.8877
V 292.401	26.8689b	ppb	0.8232	3.1	841.974
Zn 206.200	120.769b	ppb	1.7732	1.5	228.523

640-45155-c-3-a (Samp) **9/30/2013, 10:31:01 PM** **Rack 3, Tube 24**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.7461u	0.7385u	0.5272u
Al 308.215	17.1159	14.0883	17.1482
As 188.980	2.1252	8.1615	1.4023
B 249.678	1148.53	1150.49	1136.79
Ba 389.178	58.3734	58.1604	57.6646
Be 313.042	-0.0141	-0.0109	-0.0175
Ca 370.602	169831	168682	166903
Cd 226.502	0.0166	0.0187	-0.0004
Co 228.615	0.3083	0.8947	0.8389
Cr 267.716	0.2571	0.2453	0.1567
Cu 324.754	5.3014	5.5041	5.5277
Fe 271.441	196.734	194.814	191.814
K 766.491	74528.2x	74432.4x	73572.3x
Mg 279.078	17064.9	17067.0	16772.4
Mn 257.610	18.6816	18.7233	18.3749
Mo 202.032	11.1548	10.2567	10.0939
Na 330.237	16309.6	15958.7	15714.0
Ni 231.604	6.2353	6.2209	6.7411
Pb 220.353	4.1897	1.5430	0.8777
Sb 206.834	3.2929	1.0203	-0.0676u
Se 196.026	0.7145	-3.7610u	-5.3960u
Sn 189.925	1.3738	-1.2156u	-0.9261u
Sr 216.596	1257.59	1259.72	1239.08
Ti 334.941	0.4416	0.3764	0.3916
Tl 190.794	-3.1195u	1.9206	-1.4474u
V 292.401	16.6848	16.7871	16.4842
Zn 206.200	11.9018	13.0576	13.1326

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.6706b	ppb	0.1242	18.5	-28.7550
Al 308.215	16.1175b	ppb	1.7574	10.9	51.9966
As 188.980	3.8963b	ppb	3.7114	95.3	-4.1389
B 249.678	1145.27b	ppb	7.4097	0.6	23019.4
Ba 389.178	58.0661b	ppb	0.3637	0.6	1542.44
Be 313.042	-0.0142b	ppb	0.0033	23.1	-247.037
Ca 370.602	168472b	ppb	1476	0.9	533266
Cd 226.502	0.0117b	ppb	0.0105	89.7	18.1023
Co 228.615	0.6806b	ppb	0.3237	47.6	2.6717
Cr 267.716	0.2197b	ppb	0.0549	25.0	34.3402
Cu 324.754	5.4444b	ppb	0.1244	2.3	503.840
Fe 271.441	194.454b	ppb	2.4795	1.3	403.972
K 766.491	74177.6xb	ppb	526.394	0.7	3190569
Mg 279.078	16968.1b	ppb	169.477	1.0	53177.1
Mn 257.610	18.5933b	ppb	0.1902	1.0	5271.09
Mo 202.032	10.5018b	ppb	0.5713	5.4	99.8212

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Na 330.237	15994.1b	ppb	299.405	1.9	1055.64
Ni 231.604	6.3991b	ppb	0.2963	4.6	22.9693
Pb 220.353	2.2034b	ppb	1.7520	79.5	17.9108
Sb 206.834	1.4152b	ppb	1.7147	121.2	2.5341
Se 196.026	-2.8142b	ppb	3.1634	112.4	-0.1627
Sn 189.925	-0.2560b	ppb	1.4189	554.3	-13.4330
Sr 216.596	1252.13b	ppb	11.3489	0.9	21386.1
Ti 334.941	0.4032b	ppb	0.0341	8.5	125.712
Tl 190.794	-0.8821b	ppb	2.5672	291.0	-14.4715
V 292.401	16.6520b	ppb	0.1541	0.9	521.429
Zn 206.200	12.6973b	ppb	0.6900	5.4	29.8292

Cont Calib Verif (CCV) **9/30/2013, 10:35:38 PM** **Rack 3, Tube 25**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	496.840	493.260	489.751
Al 308.215	4970.85	4971.44	4901.61
As 188.980	494.054	493.953	488.339
B 249.678	497.907	498.560	494.334
Ba 389.178	5034.58	5036.63	4987.30
Be 313.042	500.087	498.100	499.788
Ca 370.602	5115	5105	5022
Cd 226.502	498.190	500.217	496.394
Co 228.615	499.297	501.430	495.527
Cr 267.716	5092.53	5102.73	5075.03
Cu 324.754	5263.57	5197.33	5187.71
Fe 271.441	4843.11	4855.30	4807.91
K 766.491	10572.9	10580.3	10520.5
Mg 279.078	4993.34	4981.51	4950.53
Mn 257.610	5124.36	5141.32	5081.72
Mo 202.032	511.519	513.292	510.679
Na 330.237	7349.99	7050.94	6873.86
Ni 231.604	2502.17	2499.70	2480.08
Pb 220.353	500.752	502.643	492.923
Sb 206.834	1021.92	1016.24	1013.49
Se 196.026	5217.97	5213.79	5145.34
Sn 189.925	5021.08	5041.80	4989.92
Sr 216.596	2557.66	2559.16	2537.85
Ti 334.941	494.587	495.341	489.050
Tl 190.794	5102.99	5121.93	5040.41
V 292.401	5009.28	5011.88	4976.51
Zn 206.200	2482.30	2479.08	2464.25

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	493.284	ppb	3.5444	0.7	45663.7	98.65676
Al 308.215	4947.96	ppb	40.1440	0.8	28898.6	98.95930
As 188.980	492.115	ppb	3.2708	0.7	469.164	98.42306
B 249.678	496.934	ppb	2.2751	0.5	10032.7	99.38675
Ba 389.178	5019.50	ppb	27.9079	0.6	130649	100.39001
Be 313.042	499.325	ppb	1.0714	0.2	1095575	99.86501
Ca 370.602	5080	ppb	51.16	1.0	16145	101.60911
Cd 226.502	498.267	ppb	1.9123	0.4	29871.4	99.65341
Co 228.615	498.751	ppb	2.9891	0.6	7461.58	99.75026

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Cr 267.716	5090.10	ppb	14.0084	0.3	325091	101.80198
Cu 324.754	5216.20	ppb	41.3004	0.8	362091	104.32408
Fe 271.441	4835.44	ppb	24.6075	0.5	9798.02	96.70875
K 766.491	10557.9	ppb	32.6026	0.3	454330	105.57914
Mg 279.078	4975.13	ppb	22.1093	0.4	15493.5	99.50250
Mn 257.610	5115.80	ppb	30.7044	0.6	1394473	102.31599
Mo 202.032	511.830	ppb	1.3339	0.3	4481.04	102.36597
Na 330.237	7091.60	ppb	240.654	3.4	444.477	94.55462
Ni 231.604	2493.98	ppb	12.1056	0.5	10157.0	99.75924
Pb 220.353	498.773	ppb	5.1536	1.0	1088.78	99.75455
Sb 206.834	1017.22	ppb	4.3029	0.4	1768.58	101.72173
Se 196.026	5192.36	ppb	40.7796	0.8	2622.45	103.84730
Sn 189.925	5017.60	ppb	26.1110	0.5	5756.28	100.35201
Sr 216.596	2551.56	ppb	11.8959	0.5	43445.3	102.06228
Ti 334.941	492.993	ppb	3.4350	0.7	146142	98.59858
Tl 190.794	5088.44	ppb	42.6608	0.8	7685.47	101.76884
V 292.401	4999.22	ppb	19.7148	0.4	157879	99.98445
Zn 206.200	2475.21	ppb	9.6250	0.4	4534.33	99.00841

Cont Calib Blank (CCB) **9/30/2013, 10:40:15 PM** **Rack 3, Tube 26**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	0.1748	-0.0236u	-0.0005u
Al 308.215	-1.2709u	-1.1638u	-1.1232u
As 188.980	4.2796	-1.0374u	1.7456
B 249.678	3.7410	3.8964	3.4891
Ba 389.178	0.3070	0.5109	0.1200
Be 313.042	0.0029	0.0110	0.0063
Ca 370.602	6.602	5.923	5.049
Cd 226.502	-0.0598u	0.0185	-0.0455u
Co 228.615	0.1547	0.1179	0.3195
Cr 267.716	-0.0261u	0.0493	0.2146
Cu 324.754	-0.0757u	-0.2658u	0.0841
Fe 271.441	-2.6806u	-3.6850u	0.3590
K 766.491	38.0926	39.3479	39.1676
Mg 279.078	0.5745	-0.9863u	3.0712
Mn 257.610	0.0092	0.0448	0.0720
Mo 202.032	0.2349	0.1081	0.3997
Na 330.237	-30.9837u	-72.6022u	-121.780u
Ni 231.604	0.0866	0.4870	0.2721
Pb 220.353	-0.8092u	-1.4062u	2.1199
Sb 206.834	2.8523	-0.8631u	2.1451
Se 196.026	0.7071	4.6307	-4.0590u
Sn 189.925	2.5904	-1.0615u	-0.6291u
Sr 216.596	-0.1918u	0.2748	-0.0145u
Ti 334.941	0.1329	0.0663	0.1228
Tl 190.794	-1.6206u	0.6354	3.8636
V 292.401	0.0784	-0.2640u	0.1627
Zn 206.200	-1.2718u	-0.3321u	-0.2930u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.0502	ppb	0.1085	215.9	-16.6204	0.05024
Al 308.215	-1.1860	ppb	0.0763	6.41	-49.8384	-1.18599

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
As 188.980	1.6626	ppb	2.6595	160.0	-6.2983	1.66260
B 249.678	3.7088	ppb	0.2055	5.5	176.833	3.70884
Ba 389.178	0.3126	ppb	0.1955	62.5	-10.8146	0.31263
Be 313.042	0.0067	ppb	0.0041	60.3	-258.917	0.00672
Ca 370.602	5.858	ppb	0.7787	13.3	14.33	5.85799
Cd 226.502	-0.0290	ppb	0.0417	143.9	14.5645	-0.02896
Co 228.615	0.1974	ppb	0.1074	54.4	-4.2786	0.19736
Cr 267.716	0.0793	ppb	0.1231	155.4	25.0054	0.07925
Cu 324.754	-0.0858	ppb	0.1752	204.2	119.797	-0.08580
Fe 271.441	-2.0022	ppb	2.1056	105.2	11.5742	-2.00218
K 766.491	38.8694	ppb	0.6787	1.7	1913.15	38.86935
Mg 279.078	0.8865	ppb	2.0466	230.9	35.8274	0.88646
Mn 257.610	0.0420	ppb	0.0315	75.0	48.5425	0.04202
Mo 202.032	0.2476	ppb	0.1462	59.0	10.0190	0.24757
Na 330.237	-75.1220	ppb	45.4507	60.5	39.9634	-75.12196
Ni 231.604	0.2819	ppb	0.2004	71.1	-1.9599	0.28189
Pb 220.353	-0.0318	ppb	1.8872	5930.2	13.0867	-0.03182
Sb 206.834	1.3781	ppb	1.9729	143.2	2.6762	1.37810
Se 196.026	0.4263	ppb	4.3517	1020.9	1.4668	0.42628
Sn 189.925	0.2999	ppb	1.9953	665.3	-12.8995	0.29993
Sr 216.596	0.0228	ppb	0.2356	1031.7	10.4703	0.02283
Ti 334.941	0.1073	ppb	0.0359	33.5	-41.7317	0.10733
Tl 190.794	0.9595	ppb	2.7564	287.3	-11.6611	0.95948
V 292.401	-0.0076	ppb	0.2260	2957.8	-4.1582	-0.00764
Zn 206.200	-0.6323	ppb	0.5542	87.6	5.3201	-0.63231

640-45155-c-3-aSD^5 (Samp) **9/30/2013, 10:44:51 PM** **Rack 3, Tube 27**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.4203	-0.0332u	0.1672
Al 308.215	1.3101	1.6262	1.7705
As 188.980	1.9090	3.8685	3.2225
B 249.678	245.910	237.448	232.949
Ba 389.178	10.3743	10.7004	10.5547
Be 313.042	-0.0023	0.0032	0.0001
Ca 370.602	36649	35278	34477
Cd 226.502	0.0026	-0.0614u	0.0122
Co 228.615	0.1961	0.1037	0.0104
Cr 267.716	0.0802	-0.0296u	0.0710
Cu 324.754	1.1179	1.0795	1.2942
Fe 271.441	42.6253	40.0666	46.3964
K 766.491	15463.1	14866.5	14561.4
Mg 279.078	3670.77	3528.52	3426.85
Mn 257.610	4.0789	3.8714	3.8006
Mo 202.032	2.2906	2.4670	1.8665
Na 330.237	3248.93	3239.62	3133.10
Ni 231.604	2.2413	1.5111	1.6742
Pb 220.353	1.5632	1.8567	1.0329
Sb 206.834	-0.6545u	-0.1156u	5.6484
Se 196.026	-1.4435u	4.4021	-2.1942u
Sn 189.925	-1.1511u	0.3812	3.3300
Sr 216.596	276.861	266.370	258.853
Ti 334.941	0.2185	0.1849	0.1807

Label	Replicates Concentration		
Tl 190.794	0.5842	-0.2921u	0.2461
V 292.401	3.2884	3.5843	3.3570
Zn 206.200	2.1389	2.8925	3.1919

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1848	ppb	0.2273	123.0	-18.9911
Al 308.215	1.5689	ppb	0.2355	15.0	-33.7267
As 188.980	3.0000	ppb	0.9985	33.3	-5.0026
B 249.678	238.769	ppb	6.5806	2.8	4880.37
Ba 389.178	10.5431	ppb	0.1634	1.5	265.917
Be 313.042	0.0003	ppb	0.0027	838.5	-260.703
Ca 370.602	35468	ppb	1099	3.1	112265
Cd 226.502	-0.0156	ppb	0.0400	257.2	15.6076
Co 228.615	0.1034	ppb	0.0929	89.8	-5.7364
Cr 267.716	0.0405	ppb	0.0609	150.3	22.6081
Cu 324.754	1.1639	ppb	0.1145	9.8	206.570
Fe 271.441	43.0294	ppb	3.1842	7.4	101.483
K 766.491	14963.7	ppb	458.627	3.1	643819
Mg 279.078	3542.05	ppb	122.521	3.5	11126.7
Mn 257.610	3.9169	ppb	0.1446	3.7	1139.39
Mo 202.032	2.2080	ppb	0.3086	14.0	27.1870
Na 330.237	3207.22	ppb	64.3562	2.0	247.422
Ni 231.604	1.8089	ppb	0.3833	21.2	4.2635
Pb 220.353	1.4843	ppb	0.4176	28.1	16.3567
Sb 206.834	1.6261	ppb	3.4938	214.9	3.0494
Se 196.026	0.2548	ppb	3.6112	1417.3	1.3814
Sn 189.925	0.8534	ppb	2.2776	266.9	-12.2409
Sr 216.596	267.361	ppb	9.0449	3.4	4574.32
Ti 334.941	0.1947	ppb	0.0207	10.7	0.8263
Tl 190.794	0.1794	ppb	0.4419	246.3	-12.8473
V 292.401	3.4099	ppb	0.1549	4.5	103.687
Zn 206.200	2.7411	ppb	0.5426	19.8	11.5230

640-45155-c-3-aPDS (Samp) **9/30/2013, 10:49:28 PM** **Rack 3, Tube 28**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	31.2603	30.9738	31.8305
Al 308.215	1955.35	1943.29	1945.40
As 188.980	192.884	189.758	191.634
B 249.678	1590.96	1587.30	1592.70
Ba 389.178	248.782	248.603	247.745
Be 313.042	47.1182	47.1654	47.2393
Ca 370.602	171940	171214	170931
Cd 226.502	45.8743	45.9710	45.9061
Co 228.615	184.319	184.519	186.006
Cr 267.716	186.801	186.827	186.919
Cu 324.754	206.894	206.045	208.174
Fe 271.441	1997.23	1993.67	2003.73
K 766.491	75784.2x	75792.0x	75768.4x
Mg 279.078	18898.8	18903.2	18920.1
Mn 257.610	211.973	211.113	211.427
Mo 202.032	201.331	202.358	201.906
Na 330.237	17923.3	17696.0	17742.0

Label	Replicates	Concentration	
Ni 231.604	187.907	184.590	187.840
Pb 220.353	184.904	184.317	182.812
Sb 206.834	187.132	186.337	188.350
Se 196.026	194.113	201.573	193.767
Sn 189.925	188.439	190.504	185.008
Sr 216.596	1441.15	1439.77	1444.06
Ti 334.941	188.338	187.256	187.391
Tl 190.794	180.575	176.942	177.242
V 292.401	201.085	200.178	201.631
Zn 206.200	194.742	192.886	193.551

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	31.3549b	ppb	0.4361	1.4	2809.54
Al 308.215	1948.01b	ppb	6.4406	0.3	11647.9
As 188.980	191.425b	ppb	1.5735	0.8	177.660
B 249.678	1590.32b	ppb	2.7567	0.2	31919.9
Ba 389.178	248.377b	ppb	0.5542	0.2	6505.34
Be 313.042	47.1743b	ppb	0.0610	0.1	103303
Ca 370.602	171362b	ppb	520.3	0.3	542378
Cd 226.502	45.9171b	ppb	0.0493	0.1	2774.97
Co 228.615	184.948b	ppb	0.9217	0.5	2756.53
Cr 267.716	186.849b	ppb	0.0619	0.0	11953.8
Cu 324.754	207.038b	ppb	1.0717	0.5	14500.2
Fe 271.441	1998.21b	ppb	5.1012	0.3	4034.65
K 766.491	75781.5xb	ppb	11.9995	0.0	3259550
Mg 279.078	18907.4b	ppb	11.1997	0.1	59246.0
Mn 257.610	211.504b	ppb	0.4349	0.2	57875.9
Mo 202.032	201.865b	ppb	0.5148	0.3	1776.11
Na 330.237	17787.1b	ppb	120.169	0.7	1164.23
Ni 231.604	186.779b	ppb	1.8960	1.0	757.379
Pb 220.353	184.011b	ppb	1.0789	0.6	409.506
Sb 206.834	187.273b	ppb	1.0139	0.5	311.866
Se 196.026	196.484b	ppb	4.4108	2.2	100.452
Sn 189.925	187.984b	ppb	2.7761	1.5	203.018
Sr 216.596	1441.66b	ppb	2.1927	0.2	24611.9
Ti 334.941	187.662b	ppb	0.5896	0.3	55664.5
Tl 190.794	178.253b	ppb	2.0163	1.1	257.012
V 292.401	200.965b	ppb	0.7339	0.4	6312.17
Zn 206.200	193.726b	ppb	0.9400	0.5	361.839

640-45155-c-3-b ms (Samp) **9/30/2013, 10:54:04 PM** **Rack 3, Tube 29**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	60.0458	60.1620	59.7604
Al 308.215	5360.86	5375.09	5387.12
As 188.980	112.791	111.533	115.311
B 249.678	1317.02	1321.63	1325.19
Ba 389.178	159.674	160.028	161.962
Be 313.042	51.2302	51.3420	51.5240
Ca 370.602	170342	171285	171158
Cd 226.502	49.9502	50.0616	50.0749
Co 228.615	50.4251	50.9035	51.1616
Cr 267.716	103.660	103.805	103.877

Label	Replicates	Concentration	
Cu 324.754	115.009	114.545	114.778
Fe 271.441	5117.52	5138.50	5152.98
K 766.491	77144.1x	77384.6x	77661.6x
Mg 279.078	21674.8	21700.8	21757.4
Mn 257.610	544.417	545.530	545.599
Mo 202.032	113.177	113.982	114.119
Na 330.237	20470.4	20528.2	20600.7
Ni 231.604	107.728	105.902	107.719
Pb 220.353	50.1693	51.8651	50.6367
Sb 206.834	54.1527	53.3095	51.8307
Se 196.026	118.756	112.335	111.445
Sn 189.925	201.360	201.683	200.221
Sr 216.596	1320.04	1324.88	1327.82
Ti 334.941	101.541	101.825	102.283
Tl 190.794	39.2993	40.7915	41.5689
V 292.401	118.846	119.184	119.195
Zn 206.200	109.770	113.257	111.400

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	59.9894b	ppb	0.2067	0.3	5473.77
Al 308.215	5374.36b	ppb	13.1469	0.2	32279.4
As 188.980	113.212b	ppb	1.9235	1.7	101.842
B 249.678	1321.28b	ppb	4.0915	0.3	26527.7
Ba 389.178	160.554b	ppb	1.2320	0.8	4232.37
Be 313.042	51.3654b	ppb	0.1483	0.3	112522
Ca 370.602	170928b	ppb	511.9	0.3	540721
Cd 226.502	50.0289b	ppb	0.0685	0.1	3035.57
Co 228.615	50.8301b	ppb	0.3737	0.7	752.087
Cr 267.716	103.781b	ppb	0.1106	0.1	6651.93
Cu 324.754	114.777b	ppb	0.2323	0.2	8096.25
Fe 271.441	5136.33b	ppb	17.8302	0.3	10277.9
K 766.491	77396.8xb	ppb	258.959	0.3	3329020
Mg 279.078	21711.0b	ppb	42.2214	0.2	68018.5
Mn 257.610	545.182b	ppb	0.6631	0.1	148861
Mo 202.032	113.759b	ppb	0.5088	0.4	1004.08
Na 330.237	20533.1b	ppb	65.2989	0.3	1338.57
Ni 231.604	107.116b	ppb	1.0517	1.0	433.335
Pb 220.353	50.8904b	ppb	0.8759	1.7	123.084
Sb 206.834	53.0976b	ppb	1.1754	2.2	88.9900
Se 196.026	114.179b	ppb	3.9890	3.5	59.0173
Sn 189.925	201.088b	ppb	0.7679	0.4	218.086
Sr 216.596	1324.24b	ppb	3.9305	0.3	22618.1
Ti 334.941	101.883b	ppb	0.3743	0.4	30241.7
Tl 190.794	40.5532b	ppb	1.1534	2.8	47.5890
V 292.401	119.075b	ppb	0.1987	0.2	3739.92
Zn 206.200	111.475b	ppb	1.7446	1.6	211.032

640-45155-c-3-c msd (Samp) **9/30/2013, 10:58:41 PM** **Rack 3, Tube 30**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	58.7676	58.7600	58.0883
Al 308.215	5202.01	5213.09	5213.79
As 188.980	111.470	108.186	101.076

Label	Replicates	Concentration	
B 249.678	1276.31	1281.83	1280.14
Ba 389.178	155.400	155.381	155.887
Be 313.042	49.9254	49.8975	49.8111
Ca 370.602	165459	164725	164195
Cd 226.502	48.6904	48.9313	48.7864
Co 228.615	50.3044	50.4886	49.5533
Cr 267.716	101.058	100.772	100.459
Cu 324.754	112.084	112.053	111.953
Fe 271.441	5004.74	4998.13	4986.09
K 766.491	74881.6x	74823.3x	74655.5x
Mg 279.078	21046.6	21035.5	20964.2
Mn 257.610	528.993	529.904	528.599
Mo 202.032	110.447	110.832	110.964
Na 330.237	19780.6	19837.7	19874.8
Ni 231.604	103.225	104.195	102.032
Pb 220.353	50.3935	49.0321	49.0519
Sb 206.834	52.6308	49.2410	54.7395
Se 196.026	109.482	103.288	99.0623
Sn 189.925	192.847	199.830	194.627
Sr 216.596	1282.38	1281.47	1279.90
Ti 334.941	98.6643	98.7260	98.7694
Tl 190.794	40.8245	38.8569	38.4151
V 292.401	115.999	115.777	115.813
Zn 206.200	106.592	108.366	108.452

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	58.5386b	ppb	0.3900	0.7	5341.28
Al 308.215	5209.63b	ppb	6.6088	0.1	31288.6
As 188.980	106.911b	ppb	5.3133	5.0	95.7327
B 249.678	1279.43b	ppb	2.8284	0.2	25690.6
Ba 389.178	155.556b	ppb	0.2869	0.2	4099.98
Be 313.042	49.8780b	ppb	0.0596	0.1	109256
Ca 370.602	164793b	ppb	634.6	0.4	521310
Cd 226.502	48.8027b	ppb	0.1213	0.2	2961.48
Co 228.615	50.1154b	ppb	0.4955	1.0	741.403
Cr 267.716	100.763b	ppb	0.2997	0.3	6459.08
Cu 324.754	112.030b	ppb	0.0684	0.1	7905.47
Fe 271.441	4996.32b	ppb	9.4536	0.2	9998.22
K 766.491	74786.8xb	ppb	117.385	0.2	3216769
Mg 279.078	21015.4b	ppb	44.6704	0.2	65840.4
Mn 257.610	529.165b	ppb	0.6691	0.1	144488
Mo 202.032	110.748b	ppb	0.2686	0.2	977.707
Na 330.237	19831.1b	ppb	47.4877	0.2	1294.30
Ni 231.604	103.151b	ppb	1.0836	1.1	417.175
Pb 220.353	49.4925b	ppb	0.7804	1.6	120.063
Sb 206.834	52.2037b	ppb	2.7740	5.3	87.4902
Se 196.026	103.944b	ppb	5.2408	5.0	53.8489
Sn 189.925	195.768b	ppb	3.6288	1.9	211.966
Sr 216.596	1281.25b	ppb	1.2565	0.1	21884.1
Ti 334.941	98.7199b	ppb	0.0528	0.1	29300.3
Tl 190.794	39.3655b	ppb	1.2827	3.3	45.8135
V 292.401	115.863b	ppb	0.1191	0.1	3638.91
Zn 206.200	107.803b	ppb	1.0500	1.0	204.293

640-45155-c-4-a (Samp) **9/30/2013, 11:03:17 PM** **Rack 3, Tube 31**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.0235u	0.2778u	0.3515u
Al 308.215	36.0754	38.4644	37.6013
As 188.980	5.0604	5.7224	4.4712
B 249.678	452.511	452.731	455.447
Ba 389.178	49.7334	48.5327	48.9996
Be 313.042	-0.0176	-0.0157	-0.0105
Ca 370.602	136038	135379	135660
Cd 226.502	-0.0694u	-0.0034	-0.1059u
Co 228.615	0.4083	-0.0579u	-0.1467u
Cr 267.716	0.2704	0.2156	0.3430
Cu 324.754	17.7303	17.7616	17.9307
Fe 271.441	36.0552	34.3473	35.6232
K 766.491	80846.7x	80855.2x	80853.9x
Mg 279.078	9576.05	9582.55	9614.00
Mn 257.610	17.3262	17.3066	17.3321
Mo 202.032	7.8701	7.0533	7.9485
Na 330.237	13592.0	13722.3	13760.9
Ni 231.604	6.1100	4.3267	5.8914
Pb 220.353	-0.4278u	0.4547	1.2172
Sb 206.834	4.3354	1.4703	0.5988
Se 196.026	-5.6988u	-6.2256u	-4.0565u
Sn 189.925	0.1903	-0.1815u	-1.2862u
Sr 216.596	686.648	686.448	689.888
Ti 334.941	0.6323	0.5400	0.5268
Tl 190.794	2.1981	-0.6003u	0.9135
V 292.401	10.3853	10.2957	9.8833
Zn 206.200	150.162	149.932	148.537

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.2176b	ppb	0.1721	79.1	-39.4712
Al 308.215	37.3804b	ppb	1.2097	3.2	180.896
As 188.980	5.0847b	ppb	0.6259	12.3	-2.9824
B 249.678	453.563b	ppb	1.6353	0.4	9178.68
Ba 389.178	49.0886b	ppb	0.6053	1.2	1286.86
Be 313.042	-0.0146b	ppb	0.0037	25.1	-259.931
Ca 370.602	135692b	ppb	330.5	0.2	429518
Cd 226.502	-0.0596b	ppb	0.0520	87.3	12.9634
Co 228.615	0.0679b	ppb	0.2981	438.9	-6.3825
Cr 267.716	0.2763b	ppb	0.0639	23.1	37.9202
Cu 324.754	17.8075b	ppb	0.1078	0.6	1361.77
Fe 271.441	35.3419b	ppb	0.8880	2.5	86.1968
K 766.491	80851.9xb	ppb	4.6016	0.0	3477625
Mg 279.078	9590.86b	ppb	20.2946	0.2	30071.4
Mn 257.610	17.3216b	ppb	0.0134	0.1	4852.62
Mo 202.032	7.6240b	ppb	0.4957	6.5	74.6288
Na 330.237	13691.7b	ppb	88.4819	0.6	907.645
Ni 231.604	5.4427b	ppb	0.9726	17.9	19.0695
Pb 220.353	0.4147b	ppb	0.8232	198.5	14.0439
Sb 206.834	2.1348b	ppb	1.9549	91.6	3.7892
Se 196.026	-5.3270b	ppb	1.1313	21.2	-1.4316
Sn 189.925	-0.4258b	ppb	0.7680	180.4	-13.6482
Sr 216.596	687.661b	ppb	1.9307	0.3	11756.4

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ti 334.941	0.5664b	ppb	0.0575	10.2	139.050
Tl 190.794	0.8371b	ppb	1.4008	167.3	-11.8598
V 292.401	10.1881b	ppb	0.2677	2.6	317.248
Zn 206.200	149.543b	ppb	0.8794	0.6	281.426

640-45155-c-5-a (Samp) **9/30/2013, 11:07:54 PM** **Rack 3, Tube 32**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.1737u	0.2310u	-0.0709u
Al 308.215	28.1148	28.2725	28.8403
As 188.980	1.9474	3.2358	4.0545
B 249.678	63.5056	63.5161	62.8621
Ba 389.178	49.3018	49.2941	49.2141
Be 313.042	-0.0018	-0.0120	-0.0131
Ca 370.602	117806	118163	117293
Cd 226.502	-0.1403u	-0.1445u	-0.0946u
Co 228.615	-0.0628u	-0.0329u	-0.0188u
Cr 267.716	0.2626	0.2299	0.0567
Cu 324.754	0.3021	0.7750	1.1144
Fe 271.441	80.4253	80.4520	79.8784
K 766.491	11530.4	11569.4	11589.7
Mg 279.078	4456.51	4448.78	4452.99
Mn 257.610	1.2275	1.2187	1.1944
Mo 202.032	3.9663	3.9804	3.8313
Na 330.237	1395.50	1524.39	1403.74
Ni 231.604	1.8272	1.1426	2.1030
Pb 220.353	-1.8850u	0.3099	1.6733
Sb 206.834	4.9296	0.1782	2.1426
Se 196.026	9.9277	-1.1909u	-0.8574u
Sn 189.925	2.8527	0.6370	0.9141
Sr 216.596	698.662	696.662	697.282
Ti 334.941	0.4958	0.5606	0.5382
Tl 190.794	-1.7978u	-0.5636u	-0.2633u
V 292.401	2.1712	2.6657	2.4937
Zn 206.200	0.8386	1.7138	2.4628

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1112	ppb	0.1603	144.1	-49.8806
Al 308.215	28.4092	ppb	0.3816	1.3	128.026
As 188.980	3.0792	ppb	1.0623	34.5	-4.9267
B 249.678	63.2946	ppb	0.3746	0.6	1368.97
Ba 389.178	49.2700	ppb	0.0486	0.1	1276.53
Be 313.042	-0.0090	ppb	0.0063	69.8	-247.934
Ca 370.602	117754	ppb	437.3	0.4	372732
Cd 226.502	-0.1265	ppb	0.0277	21.9	9.1741
Co 228.615	-0.0382	ppb	0.0225	58.9	-7.9049
Cr 267.716	0.1831	ppb	0.1107	60.4	31.6803
Cu 324.754	0.7305	ppb	0.4080	55.8	176.587
Fe 271.441	80.2519	ppb	0.3238	0.4	175.761
K 766.491	11563.1	ppb	30.1400	0.3	497564
Mg 279.078	4452.76	ppb	3.8673	0.1	13979.2
Mn 257.610	1.2135	ppb	0.0171	1.4	412.740
Mo 202.032	3.9260	ppb	0.0823	2.1	42.2407

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Na 330.237	1441.21	ppb	72.1523	5.0	135.766
Ni 231.604	1.6910	ppb	0.4945	29.2	3.7847
Pb 220.353	0.0327	ppb	1.7953	5486.3	13.2265
Sb 206.834	2.4168	ppb	2.3876	98.8	4.3365
Se 196.026	2.6264	ppb	6.3252	240.8	2.5775
Sn 189.925	1.4679	ppb	1.2072	82.2	-11.4877
Sr 216.596	697.535	ppb	1.0241	0.1	11922.1
Ti 334.941	0.5315	ppb	0.0329	6.2	105.238
Tl 190.794	-0.8749	ppb	0.8132	93.0	-14.4463
V 292.401	2.4436	ppb	0.2510	10.3	72.7954
Zn 206.200	1.6717	ppb	0.8129	48.6	9.5567

640-45155-c-6-a (Samp) **9/30/2013, 11:12:31 PM** **Rack 3, Tube 33**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.6590u	0.7089u	0.6139u
Al 308.215	33.7582	36.0844	35.7091
As 188.980	9.6373	9.7018	5.3688
B 249.678	381.647	380.768	381.804
Ba 389.178	69.7655	70.3411	70.4424
Be 313.042	-0.0289	-0.0340	-0.0284
Ca 370.602	251586	250042	251071
Cd 226.502	-0.0839	0.0625	-0.0518
Co 228.615	0.8357	0.2929	0.6045
Cr 267.716	0.4055	0.4083	0.3314
Cu 324.754	-0.1043u	0.5503	0.4219
Fe 271.441	1107.38	1101.46	1109.48
K 766.491	118120x	118396x	118602x
Mg 279.078	27031.2	27029.4	26993.1
Mn 257.610	52.6700	52.6347	52.5363
Mo 202.032	27.2994	27.3303	26.6814
Na 330.237	25641.5	25548.2	25474.8
Ni 231.604	10.7004	10.8642	11.4718
Pb 220.353	0.9382	1.4364	1.8571
Sb 206.834	4.5301	3.1108	6.9040
Se 196.026	-0.3454u	4.3373	8.2423
Sn 189.925	1.8000	0.9859	0.5857
Sr 216.596	1664.77	1663.70	1662.10
Ti 334.941	0.5765	0.5414	0.5683
Tl 190.794	-0.7745u	-1.0369u	0.4302
V 292.401	10.0266	10.0069	10.3829
Zn 206.200	3.5984	1.4640	2.2478

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.6606b	ppb	0.0475	7.2	-52.4309
Al 308.215	35.1839b	ppb	1.2489	3.5	168.699
As 188.980	8.2359b	ppb	2.4833	30.2	0.0494
B 249.678	381.406b	ppb	0.5584	0.1	7731.97
Ba 389.178	70.1830b	ppb	0.3651	0.5	1888.92
Be 313.042	-0.0304b	ppb	0.0031	10.1	-256.931
Ca 370.602	250900b	ppb	785.9	0.3	794115
Cd 226.502	-0.0244b	ppb	0.0769	315.8	20.2387
Co 228.615	0.5777b	ppb	0.2724	46.9	0.6269

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Cr 267.716	0.3817b	ppb	0.0436	11.4	45.4982
Cu 324.754	0.2893b	ppb	0.3468	119.9	147.162
Fe 271.441	1106.11b	ppb	4.1615	0.4	2223.78
K 766.491	118373xb	ppb	241.636	0.2	5091366
Mg 279.078	27017.9b	ppb	21.5175	0.1	84652.7
Mn 257.610	52.6137b	ppb	0.0693	0.1	14644.8
Mo 202.032	27.1037b	ppb	0.3661	1.4	245.255
Na 330.237	25554.9b	ppb	83.5460	0.3	1659.97
Ni 231.604	11.0122b	ppb	0.4064	3.7	41.7945
Pb 220.353	1.4106b	ppb	0.4600	32.6	16.2649
Sb 206.834	4.8483b	ppb	1.9165	39.5	7.9461
Se 196.026	4.0781b	ppb	4.2997	105.4	3.3267
Sn 189.925	1.1239b	ppb	0.6188	55.1	-11.7942
Sr 216.596	1663.52b	ppb	1.3471	0.1	28414.4
Ti 334.941	0.5621b	ppb	0.0184	3.3	220.325
Tl 190.794	-0.4604b	ppb	0.7823	169.9	-13.9623
V 292.401	10.1388b	ppb	0.2116	2.1	312.035
Zn 206.200	2.4367b	ppb	1.0797	44.3	10.9752

640-45155-c-7-a (Samp) **9/30/2013, 11:17:08 PM** **Rack 3, Tube 34**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.7062u	0.9674u	0.4118u
Al 308.215	56.4601	57.3451	57.6970
As 188.980	2.8191	1.8165	2.6439
B 249.678	677.940	683.126	683.463
Ba 389.178	59.7525	60.7547	60.6891
Be 313.042	-0.0232	-0.0246	-0.0272
Ca 370.602	301959	302575	306666
Cd 226.502	0.1608	0.0955	0.0369
Co 228.615	0.3597	1.1281	0.5936
Cr 267.716	0.4860	0.4160	0.5845
Cu 324.754	4.7249	4.8185	4.5687
Fe 271.441	97.4898	98.1822	93.9075
K 766.491	148013x	147703x	148157x
Mg 279.078	24055.1	24067.0	24082.7
Mn 257.610	18.6350	18.6840	18.6661
Mo 202.032	31.5068	31.1576	31.3823
Na 330.237	24640.8	24706.3	25002.4
Ni 231.604	42.7175	42.3912	42.7133
Pb 220.353	-1.2369u	1.5985	0.1550
Sb 206.834	5.7180	3.4311	5.3213
Se 196.026	29.3694	36.9799	27.0005
Sn 189.925	2.5279	0.8490	-0.2444u
Sr 216.596	1834.04	1833.07	1837.59
Ti 334.941	0.7705	0.7689	0.7978
Tl 190.794	-1.8312u	-0.4118u	2.2341
V 292.401	99.3003	99.4739	99.3313
Zn 206.200	8.6482	11.3112	10.7895

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.6951b	ppb	0.2780	40.0	-58.6714
Al 308.215	57.1674b	ppb	0.6373	6770	286.224

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	2.4265b	ppb	0.5355	22.1	-5.5709
B 249.678	681.510b	ppb	3.0959	0.5	13740.0
Ba 389.178	60.3988b	ppb	0.5606	0.9	1624.21
Be 313.042	-0.0250b	ppb	0.0021	8.2	-229.256
Ca 370.602	303734b	ppb	2558	0.8	961436
Cd 226.502	0.0977b	ppb	0.0620	63.4	22.8602
Co 228.615	0.6938b	ppb	0.3939	56.8	2.1954
Cr 267.716	0.4955b	ppb	0.0846	17.1	51.0909
Cu 324.754	4.7040b	ppb	0.1262	2.7	452.060
Fe 271.441	96.5265b	ppb	2.2944	2.4	209.213
K 766.491	147958xb	ppb	231.574	0.2	6363792
Mg 279.078	24068.2b	ppb	13.8394	0.1	75414.8
Mn 257.610	18.6617b	ppb	0.0248	0.1	5359.88
Mo 202.032	31.3489b	ppb	0.1770	0.6	282.310
Na 330.237	24783.2b	ppb	192.671	0.8	1611.42
Ni 231.604	42.6074b	ppb	0.1872	0.4	170.495
Pb 220.353	0.1722b	ppb	1.4178	823.2	13.4855
Sb 206.834	4.8235b	ppb	1.2220	25.3	7.7785
Se 196.026	31.1166b	ppb	5.2141	16.8	16.9574
Sn 189.925	1.0442b	ppb	1.3964	133.7	-11.8550
Sr 216.596	1834.90b	ppb	2.3808	0.1	31342.7
Ti 334.941	0.7790b	ppb	0.0162	2.1	270.411
Tl 190.794	-0.0030b	ppb	2.0633	69060.1	-13.0834
V 292.401	99.3685b	ppb	0.0926	0.1	3136.34
Zn 206.200	10.2496b	ppb	1.4112	13.8	25.3266

640-45155-c-8-a (Samp) **9/30/2013, 11:21:44 PM** **Rack 3, Tube 35**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.7443u	0.7019u	0.7968u
Al 308.215	16.1235	18.7605	14.5434
As 188.980	7.8305	12.2519	12.4126
B 249.678	2673.56	2671.01	2679.34
Ba 389.178	47.9743	48.7284	48.4300
Be 313.042	-0.0366	-0.0322	-0.0237
Ca 370.602	344867	343652	344592
Cd 226.502	0.5138	0.4518	0.5754
Co 228.615	2.7936	2.8128	2.9437
Cr 267.716	0.5860	0.3250	0.3784
Cu 324.754	27.7452	28.0102	27.9897
Fe 271.441	16.5402	10.2546	15.0911
K 766.491	390364x	391088x	392028x
Mg 279.078	52615.3	52493.4	52763.1
Mn 257.610	778.499	777.667	778.755
Mo 202.032	49.8986	49.7112	49.1486
Na 330.237	69628.4	69404.8	69680.3
Ni 231.604	101.333	101.248	100.681
Pb 220.353	0.9411	2.6715	-2.0438u
Sb 206.834	6.9325	2.8950	8.1212
Se 196.026	57.9488	61.9946	59.8733
Sn 189.925	0.5249	-0.4842u	1.3552
Sr 216.596	2045.99	2041.86	2052.65
Ti 334.941	0.0509	0.1672	0.0563

Label	Replicates Concentration		
Tl 190.794	1.4330	-3.8166u	-1.8810u
V 292.401	34.1437	34.2466	34.0182
Zn 206.200	4672.78	4646.45	4680.98

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.7477b	ppb	0.0475	6.4	-62.5825
Al 308.215	16.4758b	ppb	2.1305	12.9	53.1885
As 188.980	10.8317b	ppb	2.6003	24.0	2.5740
B 249.678	2674.64b	ppb	4.2704	0.2	53624.0
Ba 389.178	48.3776b	ppb	0.3797	0.8	1395.10
Be 313.042	-0.0308b	ppb	0.0065	21.2	-247.389
Ca 370.602	344370b	ppb	637.4	0.2	1090096
Cd 226.502	0.5137b	ppb	0.0618	12.0	47.5641
Co 228.615	2.8500b	ppb	0.0817	2.9	33.9903
Cr 267.716	0.4298b	ppb	0.1379	32.1	53.0442
Cu 324.754	27.9150b	ppb	0.1475	0.5	2064.51
Fe 271.441	13.9620b	ppb	3.2914	23.6	44.1876
K 766.491	391160xb	ppb	834.116	0.2	16823746
Mg 279.078	52624.0b	ppb	135.071	0.3	164834
Mn 257.610	778.307b	ppb	0.5690	0.1	212685
Mo 202.032	49.5861b	ppb	0.3903	0.8	442.267
Na 330.237	69571.2b	ppb	146.387	0.2	4358.53
Ni 231.604	101.087b	ppb	0.3543	0.4	408.766
Pb 220.353	0.5229b	ppb	2.3853	456.2	14.4156
Sb 206.834	5.9829b	ppb	2.7395	45.8	9.3274
Se 196.026	59.9389b	ppb	2.0237	3.4	31.6909
Sn 189.925	0.4653b	ppb	0.9212	198.0	-12.4739
Sr 216.596	2046.84b	ppb	5.4453	0.3	34960.9
Ti 334.941	0.0915b	ppb	0.0656	71.7	199.279
Tl 190.794	-1.4215b	ppb	2.6548	186.8	-15.8074
V 292.401	34.1362b	ppb	0.1144	0.3	1067.43
Zn 206.200	4666.74b	ppb	18.0388	0.4	8586.53

640-45155-c-9-a (Samp) **9/30/2013, 11:26:21 PM** **Rack 3, Tube 36**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.5255u	0.6808u	0.7250u
Al 308.215	18.4691	20.1377	18.3922
As 188.980	13.5755	8.6493	8.9114
B 249.678	2610.20	2607.64	2605.86
Ba 389.178	46.1823	46.5658	47.5337
Be 313.042	-0.0341	-0.0322	-0.0336
Ca 370.602	335660	335572	332283
Cd 226.502	0.7034	0.6459	0.6839
Co 228.615	2.8409	3.1058	3.0537
Cr 267.716	0.3197	0.3971	0.1965
Cu 324.754	27.3526	26.9427	27.3236
Fe 271.441	6.9422	21.9384	16.4186
K 766.491	382062x	381782x	383137x
Mg 279.078	51311.7	51267.3	51129.2
Mn 257.610	757.890	756.691	756.496
Mo 202.032	48.5147	47.8310	47.7723
Na 330.237	67588.9	67560.7	67636.1

Label	Replicates Concentration		
Ni 231.604	98.0164	97.3257	98.2826
Pb 220.353	-0.0001	0.0775	2.4048
Sb 206.834	5.1536	8.2303	7.9523
Se 196.026	58.2220	55.7253	53.7483
Sn 189.925	-1.8406u	-0.0578	-0.8975u
Sr 216.596	1987.15	1986.99	1983.84
Ti 334.941	0.0447	0.0900	0.0988
Tl 190.794	-1.6740u	-2.6999u	0.6382
V 292.401	32.7625	33.4185	32.7952
Zn 206.200	4592.84	4575.48	4570.97

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.6438b	ppb	0.1048	16.3	-68.5067
Al 308.215	18.9997b	ppb	0.9863	5.2	68.4790
As 188.980	10.3787b	ppb	2.7716	26.7	2.1353
B 249.678	2607.90b	ppb	2.1821	0.1	52288.6
Ba 389.178	46.7606b	ppb	0.6964	1.5	1349.04
Be 313.042	-0.0333b	ppb	0.0010	2.9	-256.110
Ca 370.602	334505b	ppb	1925	0.6	1058866
Cd 226.502	0.6777b	ppb	0.0293	4.3	57.3806
Co 228.615	3.0001b	ppb	0.1404	4.7	36.2782
Cr 267.716	0.3044b	ppb	0.1012	33.2	44.8752
Cu 324.754	27.2063b	ppb	0.2287	0.8	2015.28
Fe 271.441	15.0998b	ppb	7.5846	50.2	46.4723
K 766.491	382327xb	ppb	715.389	0.2	16443857
Mg 279.078	51236.1b	ppb	95.1896	0.2	160487
Mn 257.610	757.026b	ppb	0.7548	0.1	206871
Mo 202.032	48.0393b	ppb	0.4127	0.9	428.716
Na 330.237	67595.2b	ppb	38.1190	0.1	4235.17
Ni 231.604	97.8749b	ppb	0.4939	0.5	395.676
Pb 220.353	0.8274b	ppb	1.3667	165.2	15.0685
Sb 206.834	7.1121b	ppb	1.7018	23.9	11.2383
Se 196.026	55.8985b	ppb	2.2419	4.0	29.6468
Sn 189.925	-0.9320b	ppb	0.8919	95.7	-14.0879
Sr 216.596	1985.99b	ppb	1.8637	0.1	33921.9
Ti 334.941	0.0778b	ppb	0.0291	37.3	188.965
Tl 190.794	-1.2453b	ppb	1.7098	137.3	-15.5246
V 292.401	32.9920b	ppb	0.3696	1.1	1031.49
Zn 206.200	4579.76b	ppb	11.5439	0.3	8426.62

Cont Calib Verif (CCV) **9/30/2013, 11:30:57 PM** **Rack 3, Tube 37**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	496.824	495.683	498.401
Al 308.215	4936.74	4940.43	4960.21
As 188.980	486.181	492.275	494.893
B 249.678	503.353	504.667	504.588
Ba 389.178	5049.74	5048.62	5055.44
Be 313.042	501.982	503.548	503.050
Ca 370.602	5081	5081	5099
Cd 226.502	502.113	502.975	502.740
Co 228.615	503.885	502.975	504.316
Cr 267.716	5130.08	5134.45	5126.34

Label	Replicates Concentration		
Cu 324.754	5283.53	5217.76	5340.62
Fe 271.441	4868.53	4885.97	4869.49
K 766.491	10504.4	10492.8	10469.8
Mg 279.078	5012.62	5022.53	5012.64
Mn 257.610	5122.07	5135.11	5159.29
Mo 202.032	512.296	512.936	512.051
Na 330.237	6984.25	7185.18	7140.70
Ni 231.604	2513.84	2521.76	2517.44
Pb 220.353	501.693	500.291	499.788
Sb 206.834	1016.13	1016.29	1022.34
Se 196.026	5161.62	5163.89	5176.69
Sn 189.925	5062.22	5096.05	5091.97
Sr 216.596	2574.40	2577.83	2571.76
Ti 334.941	492.268	493.093	494.307
Tl 190.794	5110.13	5133.02	5124.81
V 292.401	5032.99	5030.77	5032.80
Zn 206.200	2506.04	2510.60	2506.09

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	496.969	ppb	1.3648	0.3	46004.2	99.39387
Al 308.215	4945.79	ppb	12.6182	0.3	28880.1	98.91587
As 188.980	491.116	ppb	4.4703	0.9	468.194	98.22324
B 249.678	504.203	ppb	0.7366	0.1	10178.1	100.84053
Ba 389.178	5051.27	ppb	3.6532	0.1	131476	101.02533
Be 313.042	502.860	ppb	0.8002	0.2	1103334	100.57199
Ca 370.602	5087	ppb	10.27	0.2	16164	101.73665
Cd 226.502	502.610	ppb	0.4460	0.1	30131.6	100.52190
Co 228.615	503.725	ppb	0.6847	0.1	7535.96	100.74501
Cr 267.716	5130.29	ppb	4.0617	0.1	327658	102.60582
Cu 324.754	5280.64	ppb	61.4798	1.2	366562	105.61275
Fe 271.441	4874.66	ppb	9.8046	0.2	9877.44	97.49329
K 766.491	10489.0	ppb	17.6518	0.2	451367	104.89018
Mg 279.078	5015.93	ppb	5.7145	0.1	15620.4	100.31860
Mn 257.610	5138.82	ppb	18.8867	0.4	1400748	102.77647
Mo 202.032	512.428	ppb	0.4573	0.1	4486.20	102.48551
Na 330.237	7103.38	ppb	105.540	1.5	444.549	94.71169
Ni 231.604	2517.68	ppb	3.9664	0.2	10253.6	100.70735
Pb 220.353	500.591	ppb	0.9873	0.2	1092.70	100.11812
Sb 206.834	1018.25	ppb	3.5356	0.3	1770.92	101.82534
Se 196.026	5167.40	ppb	8.1227	0.2	2609.86	103.34800
Sn 189.925	5083.41	ppb	18.4680	0.4	5831.95	101.66824
Sr 216.596	2574.66	ppb	3.0446	0.1	43838.7	102.98658
Ti 334.941	493.223	ppb	1.0258	0.2	146210	98.64461
Tl 190.794	5122.65	ppb	11.5954	0.2	7737.23	102.45305
V 292.401	5032.19	ppb	1.2318	0.0	158919	100.64375
Zn 206.200	2507.58	ppb	2.6209	0.1	4593.66	100.30301

Cont Calib Blank (CCB) **9/30/2013, 11:35:34 PM** **Rack 3, Tube 38**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.1397	0.0168	-0.0242u
Al 308.215	-2.0839u	-3.5684u	-1.1542u
As 188.980	0.9057	1.0040	1.5233

Label	Replicates Concentration		
B 249.678	6.9113	6.7579	5.7011
Ba 389.178	0.8062	0.9956	0.3449
Be 313.042	0.0042	0.0140	-0.0021u
Ca 370.602	2.099	7.293	3.419
Cd 226.502	-0.0424u	0.0360	-0.1292u
Co 228.615	0.1436	0.0780	0.6884
Cr 267.716	0.0705	0.0923	-0.0180u
Cu 324.754	-0.3178u	0.1232	-0.4359u
Fe 271.441	-0.3271u	-0.0104	-2.8736u
K 766.491	19.5195	19.3052	19.0832
Mg 279.078	-2.6803u	1.3746	0.4274
Mn 257.610	0.0138	0.0077	0.0222
Mo 202.032	0.0955	0.2504	0.0734
Na 330.237	-82.5171u	32.4629	-23.0579u
Ni 231.604	-0.0756u	0.5301	0.4763
Pb 220.353	0.6033	0.9530	2.9860
Sb 206.834	3.3411	2.9319	2.8532
Se 196.026	-2.3197u	-2.0494u	-2.0707u
Sn 189.925	1.7679	2.8474	0.7726
Sr 216.596	-0.1399u	0.0898	-0.0827u
Ti 334.941	0.1186	0.1619	0.0657
Tl 190.794	-2.4259u	-0.9762u	0.6901
V 292.401	0.3931	-0.1072u	-0.0852u
Zn 206.200	-1.0270u	-1.0343u	-0.3043u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.0441	ppb	0.0853	193.4	-17.1798	0.04410
Al 308.215	-2.2688	ppb	1.2176	53.7	-56.3720	-2.26882
As 188.980	1.1444	ppb	0.3319	29.0	-6.8010	1.14435
B 249.678	6.4567	ppb	0.6589	10.2	231.808	6.45675
Ba 389.178	0.7155	ppb	0.3347	46.8	-0.3275	0.71554
Be 313.042	0.0054	ppb	0.0081	150.5	-261.841	0.00539
Ca 370.602	4.270	ppb	2.699	63.2	8.984	4.27033
Cd 226.502	-0.0452	ppb	0.0826	182.7	13.6074	-0.04523
Co 228.615	0.3033	ppb	0.3351	110.5	-2.6921	0.30333
Cr 267.716	0.0483	ppb	0.0584	121.1	23.0279	0.04825
Cu 324.754	-0.2101	ppb	0.2946	140.2	111.164	-0.21015
Fe 271.441	-1.0704	ppb	1.5697	146.6	13.4514	-1.07036
K 766.491	19.3026	ppb	0.2182	1.1	1071.60	19.30265
Mg 279.078	-0.2928	ppb	2.1212	724.6	32.1367	-0.29275
Mn 257.610	0.0146	ppb	0.0073	50.0	41.0592	0.01457
Mo 202.032	0.1398	ppb	0.0964	69.0	9.0741	0.13977
Na 330.237	-24.3707	ppb	57.5012	235.9	43.1665	-24.37068
Ni 231.604	0.3103	ppb	0.3353	108.1	-1.8445	0.31027
Pb 220.353	1.5141	ppb	1.2866	85.0	16.4201	1.51413
Sb 206.834	3.0421	ppb	0.2619	8.6	5.4527	3.04208
Se 196.026	-2.1466	ppb	0.1503	7.0	0.1686	-2.14660
Sn 189.925	1.7960	ppb	1.0377	57.8	-11.1792	1.79596
Sr 216.596	-0.0443	ppb	0.1196	269.9	9.3319	-0.04430
Ti 334.941	0.1154	ppb	0.0482	41.7	-39.3462	0.11542
Tl 190.794	-0.9040	ppb	1.5593	172.5	-14.4796	-0.90398
V 292.401	0.0669	ppb	0.2827	422.5	-1.7748	0.06691
Zn 206.200	-0.7885	ppb	0.4194	53.2	5.0331	-0.78854

640-45155-c-10-a (Samp) **9/30/2013, 11:40:12 PM** **Rack 3, Tube 39**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.4185u	0.4478u	0.4276u
Al 308.215	13.7787	12.0176	13.7558
As 188.980	6.0181	1.7903	3.4478
B 249.678	140.151	140.521	141.463
Ba 389.178	19.4688	20.6973	20.6136
Be 313.042	-0.0055	-0.0037	-0.0088
Ca 370.602	116066	116104	115835
Cd 226.502	-0.0492u	-0.0328u	-0.1838u
Co 228.615	0.9697	1.4840	1.2902
Cr 267.716	0.3983	0.5083	0.4825
Cu 324.754	-0.3288u	-0.4968u	-0.3539u
Fe 271.441	53.1374	52.4463	51.0818
K 766.491	25087.7	25090.6	25096.5
Mg 279.078	21387.7	21364.6	21441.1
Mn 257.610	2.3675	2.4035	2.4151
Mo 202.032	0.3525	0.5232	0.7476
Na 330.237	101827x	101657x	101889x
Ni 231.604	2.6861	3.0955	1.4691
Pb 220.353	0.2734	0.0624	0.5411
Sb 206.834	1.9712	0.2762	3.3518
Se 196.026	-9.0220u	-2.0314u	-0.0057u
Sn 189.925	0.6814	1.8371	1.6477
Sr 216.596	1231.45	1229.65	1234.45
Ti 334.941	0.5309	0.4453	0.4904
Tl 190.794	2.0339	0.1345	0.4497
V 292.401	3.1373	2.8613	2.7881
Zn 206.200	1.7032	0.2126	0.9002

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.4313b	ppb	0.0150	3.5	-49.9520
Al 308.215	13.1840b	ppb	1.0102	7.7	36.1061
As 188.980	3.7521b	ppb	2.1303	56.8	-4.2725
B 249.678	140.712b	ppb	0.6765	0.5	2918.23
Ba 389.178	20.2599b	ppb	0.6864	3.4	571.315
Be 313.042	-0.0060b	ppb	0.0026	43.1	-257.291
Ca 370.602	116002b	ppb	145.5	0.1	367188
Cd 226.502	-0.0886b	ppb	0.0829	93.5	10.7050
Co 228.615	1.2480b	ppb	0.2597	20.8	11.4617
Cr 267.716	0.4630b	ppb	0.0576	12.4	52.0852
Cu 324.754	-0.3932b	ppb	0.0906	23.0	98.4550
Fe 271.441	52.2219b	ppb	1.0461	2.0	120.001
K 766.491	25091.6b	ppb	4.5038	0.0	1079412
Mg 279.078	21397.8b	ppb	39.2313	0.2	67051.3
Mn 257.610	2.3954b	ppb	0.0248	1.0	897.160
Mo 202.032	0.5411b	ppb	0.1982	36.6	12.5811
Na 330.237	101791xb	ppb	120.466	0.1	6480.49
Ni 231.604	2.4169b	ppb	0.8459	35.0	6.7375
Pb 220.353	0.2923b	ppb	0.2399	82.1	13.7896
Sb 206.834	1.8664b	ppb	1.5404	82.5	3.4934
Se 196.026	-3.6864b	ppb	4.7305	128.3	-0.6073
Sn 189.925	1.3887b	ppb	0.6198	44.6	-11.5272
Sr 216.596	1231.85b	ppb	2.4240	0.2	21032.0

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ti 334.941	0.4889b	ppb	0.0428	8.8	164.889
Tl 190.794	0.8727b	ppb	1.0179	116.6	-11.7932
V 292.401	2.9289b	ppb	0.1842	6.3	88.0674
Zn 206.200	0.9387b	ppb	0.7461	79.5	8.2072

640-45155-c-11-a (Samp) **9/30/2013, 11:44:49 PM** **Rack 3, Tube 40**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.3089u	0.2666u	0.6242
Al 308.215	52.9638	50.9473	53.4666
As 188.980	9.3700	4.8691	4.6990
B 249.678	132.978	132.880	131.968
Ba 389.178	38.9802	39.4811	39.2024
Be 313.042	-0.0031	0.0014	0.0027
Ca 370.602	111956	111875	111842
Cd 226.502	0.1382	-0.0288u	0.0161
Co 228.615	0.8921	0.6792	0.3401
Cr 267.716	0.4158	0.4644	0.2819
Cu 324.754	1.8683	1.9060	2.0232
Fe 271.441	153.276	152.929	145.880
K 766.491	18234.3	18226.7	18221.8
Mg 279.078	11922.6	11893.8	11901.2
Mn 257.610	3.8656	3.8568	3.8752
Mo 202.032	6.9200	6.5733	6.4572
Na 330.237	39398.0	39037.0	39258.1
Ni 231.604	4.9572	5.2779	4.8932
Pb 220.353	-0.0826u	0.0166	0.8669
Sb 206.834	5.5304	1.0480	4.8833
Se 196.026	-1.8411u	1.9757	3.3115
Sn 189.925	1.8062	-0.1952u	1.3317
Sr 216.596	941.342	937.654	938.583
Ti 334.941	0.8092	0.7990	0.8799
Tl 190.794	-0.4380u	-1.5887u	0.7122
V 292.401	6.4251	6.4697	6.5667
Zn 206.200	4.0524	4.1335	2.9129

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.3999	ppb	0.1954	48.9	-36.4725
Al 308.215	52.4592	ppb	1.3333	2.5	272.186
As 188.980	6.3127	ppb	2.6491	42.0	-1.7925
B 249.678	132.609	ppb	0.5568	0.4	2755.78
Ba 389.178	39.2212	ppb	0.2510	0.6	1037.08
Be 313.042	0.0003	ppb	0.0031	956.2	-236.556
Ca 370.602	111891	ppb	58.85	0.1	354167
Cd 226.502	0.0418	ppb	0.0864	206.5	19.3782
Co 228.615	0.6371	ppb	0.2784	43.7	2.1123
Cr 267.716	0.3874	ppb	0.0945	24.4	45.6696
Cu 324.754	1.9325	ppb	0.0808	4.2	260.088
Fe 271.441	150.695	ppb	4.1736	2.8	316.521
K 766.491	18227.6	ppb	6.3005	0.0	784199
Mg 279.078	11905.9	ppb	14.9764	0.1	37322.4
Mn 257.610	3.8659	ppb	0.0092	0.2	1207.33
Mo 202.032	6.6502	ppb	0.2407	3.6	66.0975

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Na 330.237	39231.0	ppb	182.020	0.5	2525.00
Ni 231.604	5.0428	ppb	0.2061	4.1	17.4416
Pb 220.353	0.2670	ppb	0.5219	195.5	13.7331
Sb 206.834	3.8206	ppb	2.4228	63.4	6.6241
Se 196.026	1.1487	ppb	2.6740	232.8	1.8329
Sn 189.925	0.9809	ppb	1.0458	106.6	-12.0311
Sr 216.596	939.193	ppb	1.9182	0.2	16041.5
Ti 334.941	0.8293	ppb	0.0441	5.3	225.941
Tl 190.794	-0.4382	ppb	1.1505	262.6	-13.7906
V 292.401	6.4872	ppb	0.0724	1.1	200.014
Zn 206.200	3.6996	ppb	0.6825	18.4	13.2850

640-45155-c-12-a (Samp) **9/30/2013, 11:49:26 PM** **Rack 3, Tube 41**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.4653u	0.4168u	0.5360u
Al 308.215	15.0012	17.2316	15.2808
As 188.980	5.8916	-1.4285u	-1.3158u
B 249.678	169.139	170.129	172.092
Ba 389.178	14.7405	13.9647	13.8143
Be 313.042	-0.0052	-0.0107	-0.0166u
Ca 370.602	140755	142143	142709
Cd 226.502	0.0201	-0.1359u	-0.0805u
Co 228.615	0.9423	0.6322	0.5449
Cr 267.716	0.2661	0.3969	0.2807
Cu 324.754	-0.5444u	-0.5766u	-0.5044u
Fe 271.441	14.9025	15.7239	18.2531
K 766.491	12372.3	12373.0	12426.1
Mg 279.078	31881.4	31999.0	32144.1
Mn 257.610	1.9040	1.9587	1.9402
Mo 202.032	0.8209	0.3604	0.8373
Na 330.237	156863x	157732x	159247x
Ni 231.604	3.4761	1.6966	2.0078
Pb 220.353	3.1334	-1.1788u	-0.5247u
Sb 206.834	3.1430	0.9990	1.9088
Se 196.026	4.9062	2.2873	-9.7275u
Sn 189.925	0.1574	0.4010	1.3467
Sr 216.596	1353.84	1359.11	1363.96
Ti 334.941	0.2004	0.1526	0.1560
Tl 190.794	0.0963	-0.3086u	-0.1739u
V 292.401	0.9812	1.4182	1.5244
Zn 206.200	46.0061	44.7668	44.6910

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.4727b	ppb	0.0600	12.7	-53.5149
Al 308.215	15.8378b	ppb	1.2151	7.7	52.3797
As 188.980	1.0491b	ppb	4.1941	399.8	-6.8936
B 249.678	170.453b	ppb	1.5030	0.9	3513.40
Ba 389.178	14.1731b	ppb	0.4970	3.5	444.004
Be 313.042	-0.0108b	ppb	0.0057	52.6	-265.166
Ca 370.602	141869b	ppb	1005	0.7	449070
Cd 226.502	-0.0654b	ppb	0.0791	120.8	11.6253
Co 228.615	0.7065b	ppb	0.2088	29.6	3.3417

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Cr 267.716	0.3146b	ppb	0.0716	22.8	44.0293
Cu 324.754	-0.5418b	ppb	0.0362	6.7	88.1575
Fe 271.441	16.2931b	ppb	1.7463	10.7	48.1853
K 766.491	12390.5b	ppb	30.8388	0.2	533147
Mg 279.078	32008.2b	ppb	131.598	0.4	100283
Mn 257.610	1.9343b	ppb	0.0278	1.4	873.342
Mo 202.032	0.6729b	ppb	0.2707	40.2	13.7412
Na 330.237	157948xb	ppb	1206.55	0.8	10030.3
Ni 231.604	2.3935b	ppb	0.9503	39.7	6.6429
Pb 220.353	0.4767b	ppb	2.3240	487.5	14.1843
Sb 206.834	2.0169b	ppb	1.0761	53.4	3.7372
Se 196.026	-0.8447b	ppb	7.8034	923.8	0.8264
Sn 189.925	0.6350b	ppb	0.6282	98.9	-12.3493
Sr 216.596	1358.97b	ppb	5.0601	0.4	23203.7
Ti 334.941	0.1697b	ppb	0.0267	15.7	115.990
Tl 190.794	-0.1288b	ppb	0.2062	160.1	-13.3086
V 292.401	1.3079b	ppb	0.2879	22.0	36.3139
Zn 206.200	45.1546b	ppb	0.7384	1.6	89.5008

640-45155-c-13-a (Samp) **9/30/2013, 11:54:03 PM** **Rack 3, Tube 42**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	0.6856	0.4678u	0.2160u
Al 308.215	17.9094	17.5702	16.3215
As 188.980	11.1946	9.8581	11.2524
B 249.678	102.139	102.067	102.554
Ba 389.178	31.1542	31.2182	30.9275
Be 313.042	-0.0022	-0.0028	0.0037
Ca 370.602	126194	125985	125701
Cd 226.502	0.0168	-0.1028u	-0.0211u
Co 228.615	0.5577	0.8978	0.7771
Cr 267.716	0.5411	0.5940	0.4480
Cu 324.754	1.0011	0.6411	0.6028
Fe 271.441	152.406	158.902	153.462
K 766.491	14669.4	14726.0	14701.0
Mg 279.078	9203.79	9201.92	9227.17
Mn 257.610	3.3532	3.3462	3.3427
Mo 202.032	3.0294	3.6005	3.4708
Na 330.237	25301.1	25104.5	25247.5
Ni 231.604	7.0763	7.2222	7.7506
Pb 220.353	2.2941	-0.2179u	0.9570
Sb 206.834	4.3321	6.2536	6.3264
Se 196.026	-2.1036u	-4.5215u	3.8619
Sn 189.925	-1.5990u	1.7042	2.9450
Sr 216.596	933.768	930.612	937.957
Ti 334.941	0.4105	0.4466	0.4164
Tl 190.794	-2.9927u	-3.0622u	-1.7292u
V 292.401	13.6540	13.6197	13.3361
Zn 206.200	0.5576	1.8838	0.0617

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.4565	ppb	0.2350	51.5	-31.0426
Al 308.215	17.2670	ppb	0.8362	4.8	59.0648

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	10.7684	ppb	0.7888	7.3	2.5296
B 249.678	102.253	ppb	0.2626	0.3	2148.34
Ba 389.178	31.1000	ppb	0.1528	0.5	817.783
Be 313.042	-0.0004	ppb	0.0036	853.4	-229.791
Ca 370.602	125960	ppb	247.4	0.2	398701
Cd 226.502	-0.0357	ppb	0.0611	171.1	14.8284
Co 228.615	0.7442	ppb	0.1724	23.2	3.8155
Cr 267.716	0.5277	ppb	0.0739	14.0	54.1851
Cu 324.754	0.7483	ppb	0.2197	29.4	177.681
Fe 271.441	154.923	ppb	3.4857	2.2	325.035
K 766.491	14698.8	ppb	28.3260	0.2	632426
Mg 279.078	9210.96	ppb	14.0716	0.2	28881.9
Mn 257.610	3.3474	ppb	0.0053	0.2	1040.33
Mo 202.032	3.3669	ppb	0.2994	8.9	37.3119
Na 330.237	25217.7	ppb	101.663	0.4	1639.04
Ni 231.604	7.3497	ppb	0.3548	4.8	26.8407
Pb 220.353	1.0111	ppb	1.2569	124.3	15.3442
Sb 206.834	5.6374	ppb	1.1310	20.1	9.7244
Se 196.026	-0.9211	ppb	4.3150	468.5	0.7884
Sn 189.925	1.0167	ppb	2.3487	231.0	-11.9890
Sr 216.596	934.112	ppb	3.6846	0.4	15957.1
Ti 334.941	0.4245	ppb	0.0194	4.6	94.1811
Tl 190.794	-2.5947	ppb	0.7503	28.9	-17.0445
V 292.401	13.5366	ppb	0.1745	1.3	423.936
Zn 206.200	0.8344	ppb	0.9421	112.9	8.0166

640-45155-c-14-a (Samp) **9/30/2013, 11:58:40 PM** **Rack 3, Tube 43**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.4590u	0.5292u	0.5870
Al 308.215	28.2235	26.7697	27.1633
As 188.980	2.4582	1.8644	5.9201
B 249.678	88.0235	88.2288	88.5863
Ba 389.178	39.7062	39.5625	40.2169
Be 313.042	-0.0094	-0.0065	-0.0123
Ca 370.602	118606	118177	118042
Cd 226.502	0.0357	-0.0621u	-0.0172
Co 228.615	0.4143	0.3255	0.2071
Cr 267.716	0.4653	0.5366	0.4677
Cu 324.754	2.4131	2.5250	1.9484
Fe 271.441	286.754	291.703	296.252
K 766.491	22524.3	22546.7	22531.1
Mg 279.078	6915.90	6910.66	6910.95
Mn 257.610	16.0841	16.1197	16.1250
Mo 202.032	5.0741	4.8982	4.2713
Na 330.237	10861.7	10714.4	10939.4
Ni 231.604	2.0769	1.2665	2.5551
Pb 220.353	1.2857	1.5248	0.2973
Sb 206.834	0.9433	4.4798	0.4634
Se 196.026	-2.3212u	2.1058	-4.5112u
Sn 189.925	1.6082	-0.3724u	0.9933
Sr 216.596	965.472	963.775	965.115
Ti 334.941	0.6363	0.6854	0.6255

Label	Replicates	Concentration	
Tl 190.794	-1.3682u	1.2519	0.1397
V 292.401	16.3643	16.6461	16.3086
Zn 206.200	1.5442	2.3405	3.2305

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.5251	ppb	0.0641	12.2	-26.2013
Al 308.215	27.3855	ppb	0.7519	2.7	119.549
As 188.980	3.4142	ppb	2.1903	64.2	-4.6053
B 249.678	88.2795	ppb	0.2848	0.3	1868.38
Ba 389.178	39.8286	ppb	0.3439	0.9	1038.43
Be 313.042	-0.0094	ppb	0.0029	30.7	-251.539
Ca 370.602	118275	ppb	294.5	0.2	374365
Cd 226.502	-0.0145	ppb	0.0490	337.2	16.7982
Co 228.615	0.3156	ppb	0.1039	32.9	-2.6211
Cr 267.716	0.4899	ppb	0.0405	8.3	51.4834
Cu 324.754	2.2955	ppb	0.3057	13.3	285.123
Fe 271.441	291.570	ppb	4.7506	1.6	597.774
K 766.491	22534.0	ppb	11.4580	0.1	969414
Mg 279.078	6912.50	ppb	2.9459	0.0	21682.8
Mn 257.610	16.1096	ppb	0.0222	0.1	4497.16
Mo 202.032	4.7479	ppb	0.4220	8.9	49.3974
Na 330.237	10838.5	ppb	114.253	1.1	729.831
Ni 231.604	1.9662	ppb	0.6514	33.1	4.9117
Pb 220.353	1.0359	ppb	0.6508	62.8	15.4109
Sb 206.834	1.9622	ppb	2.1935	111.8	3.5737
Se 196.026	-1.5755	ppb	3.3710	214.0	0.4619
Sn 189.925	0.7431	ppb	1.0137	136.4	-12.3159
Sr 216.596	964.787	ppb	0.8949	0.1	16479.2
Ti 334.941	0.6491	ppb	0.0319	4.9	151.079
Tl 190.794	0.0078	ppb	1.3150	16809.3	-13.1301
V 292.401	16.4397	ppb	0.1809	1.1	515.704
Zn 206.200	2.3718	ppb	0.8436	35.6	10.8450

640-45155-c-15-a (Samp) **10/1/2013, 12:03:17 AM** **Rack 3, Tube 44**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	0.5204u	0.7021u	0.5065u
Al 308.215	36.0097	34.0767	35.6091
As 188.980	5.1684	7.7437	8.3675
B 249.678	149.746	150.160	150.173
Ba 389.178	47.4715	47.9845	47.3013
Be 313.042	-0.0231	-0.0246	-0.0291
Ca 370.602	219742	220674	220834
Cd 226.502	-0.1226	-0.0295	0.0082
Co 228.615	0.3310	-0.0290u	0.1479
Cr 267.716	0.5631	0.5370	0.5342
Cu 324.754	0.1946	0.1927	0.1430
Fe 271.441	1550.36	1546.78	1555.09
K 766.491	38214.9x	38158.2x	38183.3x
Mg 279.078	29358.0	29320.0	29297.6
Mn 257.610	71.7349	71.9577	71.7239
Mo 202.032	6.8851	6.7346	7.1305
Na 330.237	35461.3	35309.4	35333.8

Label	Replicates Concentration		
Ni 231.604	4.1794	3.6457	4.8360
Pb 220.353	1.5889	1.9603	1.8402
Sb 206.834	1.7092	2.9723	6.5266
Se 196.026	-8.1119u	0.0796	3.0956
Sn 189.925	-2.5723u	1.9142	0.3711
Sr 216.596	1439.40	1437.15	1439.89
Ti 334.941	0.6053	0.4885	0.6113
Tl 190.794	-1.5594u	-0.0707u	-1.8632u
V 292.401	27.8280	27.6620	28.0447
Zn 206.200	1.3290	0.8075	0.3755

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.5763b	ppb	0.1092	18.9	-47.9687
Al 308.215	35.2318b	ppb	1.0203	2.9	164.975
As 188.980	7.0932b	ppb	1.6958	23.9	-1.0573
B 249.678	150.026b	ppb	0.2430	0.2	3100.49
Ba 389.178	47.5858b	ppb	0.3557	0.7	1308.25
Be 313.042	-0.0256b	ppb	0.0031	12.2	-252.110
Ca 370.602	220417b	ppb	589.4	0.3	697589
Cd 226.502	-0.0480b	ppb	0.0673	140.3	20.8175
Co 228.615	0.1499b	ppb	0.1800	120.1	-5.1000
Cr 267.716	0.5448b	ppb	0.0159	2.9	56.1798
Cu 324.754	0.1768b	ppb	0.0293	16.5	138.523
Fe 271.441	1550.74b	ppb	4.1643	0.3	3111.45
K 766.491	38185.4xb	ppb	28.3666	0.1	1642571
Mg 279.078	29325.2b	ppb	30.5268	0.1	91878.9
Mn 257.610	71.8055b	ppb	0.1319	0.2	19898.9
Mo 202.032	6.9167b	ppb	0.1998	2.9	68.2998
Na 330.237	35368.2b	ppb	81.5481	0.2	2280.29
Ni 231.604	4.2204b	ppb	0.5962	14.1	14.1372
Pb 220.353	1.7965b	ppb	0.1895	10.6	17.1774
Sb 206.834	3.7360b	ppb	2.4979	66.9	6.5318
Se 196.026	-1.6456b	ppb	5.7995	352.4	0.4451
Sn 189.925	-0.0957b	ppb	2.2794	2382.3	-13.2084
Sr 216.596	1438.81b	ppb	1.4621	0.1	24579.6
Ti 334.941	0.5683b	ppb	0.0692	12.2	232.413
Tl 190.794	-1.1644b	ppb	0.9593	82.4	-15.0586
V 292.401	27.8449b	ppb	0.1919	0.7	876.455
Zn 206.200	0.8373b	ppb	0.4775	57.0	8.0396

640-45155-c-16-a (Samp) **10/1/2013, 12:07:54 AM** **Rack 3, Tube 45**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.2844u	0.4744u	0.5020u
Al 308.215	13.3005	15.2229	14.2524
As 188.980	6.0575	5.8039	6.2529
B 249.678	142.074	142.147	142.416
Ba 389.178	64.7814	64.9657	64.5630
Be 313.042	-0.0231	-0.0164	-0.0188
Ca 370.602	149537	149286	149439
Cd 226.502	-0.1185u	-0.1469u	-0.0071
Co 228.615	0.4693	0.3162	0.3326
Cr 267.716	0.2102	0.2345	0.1606

Label	Replicates	Concentration	
Cu 324.754	1.3313	1.8280	1.5413
Fe 271.441	412.667	420.649	410.468
K 766.491	37406.9x	37364.1x	37181.8x
Mg 279.078	6885.76	6881.66	6883.48
Mn 257.610	11.7059	11.7251	11.7275
Mo 202.032	7.4334	7.4414	7.4288
Na 330.237	3094.86	3280.21	3283.13
Ni 231.604	2.6301	2.4762	1.8232
Pb 220.353	0.2104	0.7166	2.4872
Sb 206.834	0.0107u	4.2644	2.4175
Se 196.026	8.8649	9.9902	-0.5701u
Sn 189.925	2.0724	2.6781	0.0351
Sr 216.596	1054.25	1054.34	1056.56
Ti 334.941	0.6360	0.6286	0.6476
Tl 190.794	-3.9509u	0.8380	-6.7363u
V 292.401	4.5772	4.9603	4.3972
Zn 206.200	3.3012	2.8467	1.8649

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.4203b	ppb	0.1185	28.2	-41.2648
Al 308.215	14.2586b	ppb	0.9612	6.7	42.6798
As 188.980	6.0381b	ppb	0.2251	3.7	-2.0638
B 249.678	142.212b	ppb	0.1800	0.1	2947.28
Ba 389.178	64.7700b	ppb	0.2016	0.3	1687.60
Be 313.042	-0.0194b	ppb	0.0034	17.6	-260.262
Ca 370.602	149421b	ppb	126.2	0.1	472944
Cd 226.502	-0.0908b	ppb	0.0739	81.3	12.8905
Co 228.615	0.3727b	ppb	0.0841	22.6	-1.8468
Cr 267.716	0.2018b	ppb	0.0377	18.7	33.0585
Cu 324.754	1.5669b	ppb	0.2493	15.9	234.876
Fe 271.441	414.595b	ppb	5.3571	1.3	843.270
K 766.491	37317.6xb	ppb	119.520	0.3	1605246
Mg 279.078	6883.63b	ppb	2.0537	0.0	21592.5
Mn 257.610	11.7195b	ppb	0.0118	0.1	3301.19
Mo 202.032	7.4346b	ppb	0.0064	0.1	72.9587
Na 330.237	3219.40b	ppb	107.864	3.4	248.056
Ni 231.604	2.3098b	ppb	0.4284	18.5	6.3158
Pb 220.353	1.1381b	ppb	1.1955	105.0	15.6372
Sb 206.834	2.2309b	ppb	2.1330	95.6	3.9663
Se 196.026	6.0950b	ppb	5.7995	95.2	4.3315
Sn 189.925	1.5952b	ppb	1.3847	86.8	-11.3214
Sr 216.596	1055.05b	ppb	1.3084	0.1	18023.5
Ti 334.941	0.6374b	ppb	0.0096	1.5	148.115
Tl 190.794	-3.2830b	ppb	3.8311	116.7	-18.1279
V 292.401	4.6449b	ppb	0.2876	6.2	141.832
Zn 206.200	2.6710b	ppb	0.7341	27.5	11.3981

mb 680-295676/1-a (Samp) **10/1/2013, 12:12:31 AM** **Rack 3, Tube 46**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	-0.1782u	0.0953	0.2682
Al 308.215	-2.7121u	-2.0736u	-0.8629u
As 188.980	0.9738	-0.0629u	-1.7969u

Label	Replicates	Concentration	
B 249.678	3.7430	3.9271	3.9993
Ba 389.178	0.7503	0.8347	0.6278
Be 313.042	0.0033	0.0005	-0.0036u
Ca 370.602	4.136	5.568	2.659
Cd 226.502	-0.0266u	0.0966	-0.0743u
Co 228.615	0.2131	0.1835	0.5560
Cr 267.716	0.0529	0.0158	-0.1229u
Cu 324.754	0.0390	-0.6277u	-0.1070u
Fe 271.441	-1.5746u	-4.2188u	-4.2194u
K 766.491	6.9622	6.9679	6.6095
Mg 279.078	-1.8068u	-0.6607u	-1.3191u
Mn 257.610	0.0035	-0.0171u	-0.0264u
Mo 202.032	0.2660	-0.0284u	-0.0195u
Na 330.237	2.6826	-168.677u	22.7115
Ni 231.604	0.2097	0.1599	0.5617
Pb 220.353	1.5411	0.0341	0.4180
Sb 206.834	2.5004	4.7027	0.3304
Se 196.026	1.4383	3.5052	-0.0655u
Sn 189.925	-1.8310u	2.0167	-2.0074u
Sr 216.596	-0.3267u	-0.0502u	-0.0764u
Ti 334.941	0.0169	-0.0120u	0.0665
Tl 190.794	1.6310	-0.3041u	3.2450
V 292.401	0.2305	-0.0484u	-0.0505u
Zn 206.200	0.0711	0.8161	0.5308

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0618	ppb	0.2251	364.3	-15.5394
Al 308.215	-1.8829	ppb	0.9393	49.9	-54.0539
As 188.980	-0.2953	ppb	1.3999	474.0	-8.1973
B 249.678	3.8898	ppb	0.1322	3.4	180.448
Ba 389.178	0.7376	ppb	0.1040	14.1	0.2423
Be 313.042	0.0001	ppb	0.0034	4566.2	-273.481
Ca 370.602	4.121	ppb	1.455	35.3	8.610
Cd 226.502	-0.0015	ppb	0.0882	6055.1	16.2206
Co 228.615	0.3176	ppb	0.2070	65.2	-2.4774
Cr 267.716	-0.0181	ppb	0.0927	513.1	18.7901
Cu 324.754	-0.2319	ppb	0.3505	151.1	109.649
Fe 271.441	-3.3376	ppb	1.5268	45.7	8.9265
K 766.491	6.8465	ppb	0.2053	3.0	535.869
Mg 279.078	-1.2622	ppb	0.5752	45.6	29.1007
Mn 257.610	-0.0133	ppb	0.0153	114.6	33.4412
Mo 202.032	0.0727	ppb	0.1675	230.4	8.4863
Na 330.237	-47.7609	ppb	105.194	220.3	41.6730
Ni 231.604	0.3104	ppb	0.2191	70.6	-1.8440
Pb 220.353	0.6644	ppb	0.7831	117.9	14.5882
Sb 206.834	2.5112	ppb	2.1861	87.1	4.5674
Se 196.026	1.6260	ppb	1.7927	110.3	2.0721
Sn 189.925	-0.6072	ppb	2.2742	374.5	-13.9425
Sr 216.596	-0.1511	ppb	0.1527	101.0	7.4976
Ti 334.941	0.0238	ppb	0.0397	166.9	-66.5146
Tl 190.794	1.5239	ppb	1.7770	116.6	-10.8068
V 292.401	0.0439	ppb	0.1616	368.4	-2.4892
Zn 206.200	0.4727	ppb	0.3759	79.5	7.3522

lcs 680-295676/2-a (Samp) **10/1/2013, 12:17:08 AM** **Rack 3, Tube 47**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	58.0682	59.3892	59.5467
Al 308.215	5161.04	5290.46	5262.12
As 188.980	105.230	107.332	105.103
B 249.678	200.337	206.881	205.330
Ba 389.178	104.898	108.074	107.697
Be 313.042	51.9094	53.2181	52.9813
Ca 370.602	5140	5277	5224
Cd 226.502	50.9337	52.4952	52.4062
Co 228.615	52.0761	53.2504	52.6931
Cr 267.716	105.386	107.875	107.471
Cu 324.754	107.859	110.363	110.374
Fe 271.441	5019.89	5143.24	5111.16
K 766.491	5190.22	5318.85	5291.19
Mg 279.078	5101.72	5237.76	5209.34
Mn 257.610	536.547	549.720	546.610
Mo 202.032	103.639	106.971	106.909
Na 330.237	4492.27	4614.75	5010.08
Ni 231.604	102.249	103.997	105.555
Pb 220.353	50.3507	51.8815	52.0563
Sb 206.834	49.1723	51.3999	55.4523
Se 196.026	108.041	107.456	103.838
Sn 189.925	206.156	214.887	208.755
Sr 216.596	103.220	105.222	104.432
Ti 334.941	102.604	105.278	104.571
Tl 190.794	41.7641	42.2703	43.0139
V 292.401	102.939	106.010	105.344
Zn 206.200	103.369	104.148	104.493

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	59.0014	ppb	0.8120	1.4	5449.90
Al 308.215	5237.87	ppb	68.0302	1.3	31460.1
As 188.980	105.888	ppb	1.2518	1.2	94.7413
B 249.678	204.183	ppb	3.4196	1.7	4174.21
Ba 389.178	106.890	ppb	1.7350	1.6	2786.99
Be 313.042	52.7029	ppb	0.6973	1.3	115401
Ca 370.602	5214	ppb	69.22	1.3	16167
Cd 226.502	51.9450	ppb	0.8770	1.7	3149.89
Co 228.615	52.6732	ppb	0.5874	1.1	779.911
Cr 267.716	106.911	ppb	1.3355	1.2	6851.59
Cu 324.754	109.532	ppb	1.4490	1.3	7732.07
Fe 271.441	5091.43	ppb	63.9992	1.3	10188.4
K 766.491	5266.75	ppb	67.7088	1.3	226761
Mg 279.078	5182.94	ppb	71.7612	1.4	16252.4
Mn 257.610	544.292	ppb	6.8858	1.3	148457
Mo 202.032	105.840	ppb	1.9062	1.8	934.717
Na 330.237	4705.70	ppb	270.620	5.8	337.996
Ni 231.604	103.934	ppb	1.6537	1.6	420.360
Pb 220.353	51.4295	ppb	0.9383	1.8	124.256
Sb 206.834	52.0082	ppb	3.1839	6.1	87.4042
Se 196.026	106.445	ppb	2.2765	2.1	55.1145
Sn 189.925	209.933	ppb	4.4830	2.1	228.154
Sr 216.596	104.291	ppb	1.0082	0.85	1791.32

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ti 334.941	104.151	ppb	1.3853	1.3	30836.4
Tl 190.794	42.3495	ppb	0.6286	1.5	50.3146
V 292.401	104.764	ppb	1.6156	1.5	3288.10
Zn 206.200	104.003	ppb	0.5758	0.6	197.279

680-94536-b-6-a (Samp) **10/1/2013, 12:21:45 AM** **Rack 3, Tube 48**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.0616	-0.1666u	0.2000
Al 308.215	25.2875	24.7502	24.8765
As 188.980	-1.9865u	-0.0095u	2.6954
B 249.678	32.0499	32.2980	32.2685
Ba 389.178	94.2146	94.9887	94.3331
Be 313.042	0.0328	0.0286	0.0341
Ca 370.602	12921	13130	13074
Cd 226.502	0.1727	0.0818	0.0727
Co 228.615	18.2028	18.4410	18.1557
Cr 267.716	0.0232	-0.1218	-0.0836
Cu 324.754	0.4750	0.4357	0.4914
Fe 271.441	5.9783	-1.6474u	1.3642
K 766.491	3254.66	3275.30	3262.13
Mg 279.078	6305.85	6375.31	6332.19
Mn 257.610	2358.95	2385.68	2374.85
Mo 202.032	0.1589	-0.1475u	0.0474
Na 330.237	12617.3	12697.0	12654.5
Ni 231.604	2.7886	4.0669	3.2255
Pb 220.353	1.6027	-1.0139u	-1.0510u
Sb 206.834	0.7655	1.2404	-0.2708u
Se 196.026	0.0928	-3.0771u	2.8585
Sn 189.925	2.7278	0.1037	2.0504
Sr 216.596	76.4685	77.0043	75.8468
Ti 334.941	0.0146	-0.0417	-0.0129
Tl 190.794	0.1202u	-0.5479u	1.5808
V 292.401	-0.2091u	-0.2227u	-0.3208u
Zn 206.200	11.3781	11.6062	11.1600

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0317	ppb	0.1851	584.6	-9.3773
Al 308.215	24.9714	ppb	0.2809	1.1	106.829
As 188.980	0.2331	ppb	2.3503	1008.1	-7.6843
B 249.678	32.2055	ppb	0.1355	0.4	747.051
Ba 389.178	94.5121	ppb	0.4170	0.4	2459.28
Be 313.042	0.0318	ppb	0.0029	9.0	-201.619
Ca 370.602	13042	ppb	107.8	0.8	41345
Cd 226.502	0.1091	ppb	0.0553	50.7	22.8637
Co 228.615	18.2665	ppb	0.1529	0.8	265.834
Cr 267.716	-0.0607	ppb	0.0752	123.7	29.9467
Cu 324.754	0.4674	ppb	0.0286	6.1	158.186
Fe 271.441	1.8984	ppb	3.8408	202.3	22.0773
K 766.491	3264.03	ppb	10.4482	0.3	140625
Mg 279.078	6337.79	ppb	35.0669	0.6	19827.0
Mn 257.610	2373.16	ppb	13.4445	0.6	646930
Mo 202.032	0.0196	ppb	0.1551	7986	8.0217

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Na 330.237	12656.2	ppb	39.8797	0.3	844.701
Ni 231.604	3.3604	ppb	0.6498	19.3	10.5246
Pb 220.353	-0.1541	ppb	1.5215	987.6	13.4767
Sb 206.834	0.5784	ppb	0.7728	133.6	1.3490
Se 196.026	-0.0420	ppb	2.9701	7079.8	1.8256
Sn 189.925	1.6273	ppb	1.3622	83.7	-11.3590
Sr 216.596	76.4399	ppb	0.5793	0.8	1315.41
Ti 334.941	-0.0133	ppb	0.0282	211.2	-48.3974
Tl 190.794	0.3844	ppb	1.0886	283.2	-14.1143
V 292.401	-0.2509	ppb	0.0610	24.3	-11.8644
Zn 206.200	11.3815	ppb	0.2231	2.0	27.4078

Cont Calib Verif (CCV) **10/1/2013, 12:26:22 AM** **Rack 3, Tube 49**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	481.077	484.788	483.531
Al 308.215	4841.48	4825.41	4790.25
As 188.980	471.813	476.756	480.289
B 249.678	481.851	480.031	482.042
Ba 389.178	4916.96	4926.75	4901.69
Be 313.042	491.757	491.298	491.704
Ca 370.602	4973	4982	4923
Cd 226.502	489.985	488.979	488.473
Co 228.615	491.361	489.757	490.240
Cr 267.716	5000.86	4989.26	4996.17
Cu 324.754	5133.10	5110.88	5100.70
Fe 271.441	4756.86	4747.55	4732.70
K 766.491	10179.0	10179.4	10178.9
Mg 279.078	4884.02	4882.09	4889.93
Mn 257.610	4999.57	5018.16	4979.88
Mo 202.032	499.592	498.620	500.735
Na 330.237	6912.92	6845.33	6770.65
Ni 231.604	2450.48	2440.89	2440.95
Pb 220.353	492.580	490.284	487.529
Sb 206.834	985.927	982.955	986.700
Se 196.026	5040.06	5045.68	4989.43
Sn 189.925	4967.02	4948.21	4893.24
Sr 216.596	2504.25	2506.33	2503.88
Ti 334.941	482.768	482.490	478.947
Tl 190.794	4991.01	4991.20	4972.12
V 292.401	4911.54	4901.98	4896.03
Zn 206.200	2446.59	2441.86	2437.02

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	483.132	ppb	1.8874	0.4	44722.7	96.62645
Al 308.215	4819.05	ppb	26.1977	0.5	28138.8	96.38093
As 188.980	476.286	ppb	4.2573	0.9	453.816	95.25723
B 249.678	481.308	ppb	1.1102	0.2	9720.32	96.26161
Ba 389.178	4915.14	ppb	12.6294	0.3	127933	98.30273
Be 313.042	491.586	ppb	0.2511	0.1	1078593	98.31725
Ca 370.602	4960	ppb	32.02	0.6	15760	99.19025
Cd 226.502	489.146	ppb	0.7697	0.2	29324.9	97.82916
Co 228.615	490.453	ppb	0.8227	0.2	7337.28	98.09052

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Cr 267.716	4995.43	ppb	5.8338	0.1	319045	99.90856
Cu 324.754	5114.90	ppb	16.5674	0.3	355061	102.29791
Fe 271.441	4745.71	ppb	12.1843	0.3	9616.59	94.91411
K 766.491	10179.1	ppb	0.2543	0.0	438036	101.79071
Mg 279.078	4885.34	ppb	4.0852	0.1	15214.9	97.70689
Mn 257.610	4999.20	ppb	19.1423	0.4	1362692	99.98403
Mo 202.032	499.649	ppb	1.0585	0.2	4374.53	99.92985
Na 330.237	6842.97	ppb	71.1667	1.0	429.405	91.23956
Ni 231.604	2444.11	ppb	5.5239	0.2	9953.83	97.76427
Pb 220.353	490.131	ppb	2.5289	0.5	1070.14	98.02617
Sb 206.834	985.194	ppb	1.9769	0.2	1713.91	98.51938
Se 196.026	5025.06	ppb	30.9807	0.6	2538.00	100.50119
Sn 189.925	4936.16	ppb	38.3356	0.8	5662.63	98.72318
Sr 216.596	2504.82	ppb	1.3196	0.1	42649.8	100.19278
Ti 334.941	481.402	ppb	2.1305	0.4	142704	96.28034
Tl 190.794	4984.78	ppb	10.9641	0.2	7528.65	99.69559
V 292.401	4903.18	ppb	7.8239	0.2	154846	98.06367
Zn 206.200	2441.82	ppb	4.7822	0.2	4473.37	97.67288

Cont Calib Blank (CCB) **10/1/2013, 12:30:59 AM** **Rack 3, Tube 50**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.1448	0.3008	-0.0393u
Al 308.215	-3.2100u	-1.4890u	0.1370
As 188.980	-0.4163u	-0.7507u	0.9318
B 249.678	2.5773	2.0792	1.9111
Ba 389.178	1.4612	0.9938	0.4732
Be 313.042	0.0026	0.0088	0.0089
Ca 370.602	8.167	1.034	2.092
Cd 226.502	0.0922	-0.0293u	0.0393
Co 228.615	0.0850	0.3532	0.1726
Cr 267.716	-0.1277u	0.1483	0.1817
Cu 324.754	-0.0375u	0.1409	0.1188
Fe 271.441	-1.1858u	3.9501	0.8354
K 766.491	4.6492	5.0696	6.0317
Mg 279.078	-0.3643u	-0.2143u	-2.6780u
Mn 257.610	0.0992	0.1018	0.1229
Mo 202.032	-0.0800u	-0.3239u	-0.2822u
Na 330.237	115.417	-53.3794u	19.5679
Ni 231.604	-0.3206u	1.0334	1.1453
Pb 220.353	0.9107	0.0036	0.1721
Sb 206.834	2.4845	4.2396	0.7047
Se 196.026	6.6314	-4.1723u	-2.4852u
Sn 189.925	1.5443	1.5774	1.7704
Sr 216.596	-0.0184u	0.1619	0.1270
Ti 334.941	0.1511	0.1070	0.1296
Tl 190.794	1.4925	2.9305	0.7647
V 292.401	-0.1009u	0.0627	0.2340
Zn 206.200	-0.0979u	-0.0065u	-0.8177u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.1354	ppb	0.1703	125.7	-8.7293	0.13543
Al 308.215	-1.5207	ppb	1.6737	110.1	-51.8863	-1.52069

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
As 188.980	-0.0784	ppb	0.8907	1136.6	-7.9867	-0.07837
B 249.678	2.1892	ppb	0.3465	15.8	146.410	2.18922
Ba 389.178	0.9760	ppb	0.4942	50.6	6.4519	0.97605
Be 313.042	0.0068	ppb	0.0036	53.1	-258.763	0.00676
Ca 370.602	3.764	ppb	3.849	102.3	7.274	3.76419
Cd 226.502	0.0341	ppb	0.0609	178.6	18.3627	0.03408
Co 228.615	0.2036	ppb	0.1368	67.2	-4.1702	0.20359
Cr 267.716	0.0674	ppb	0.1698	251.8	24.2545	0.06744
Cu 324.754	0.0741	ppb	0.0972	131.3	130.877	0.07408
Fe 271.441	1.1999	ppb	2.5873	215.6	17.9670	1.19988
K 766.491	5.2502	ppb	0.7087	13.5	467.210	5.25015
Mg 279.078	-1.0855	ppb	1.3811	127.2	29.6512	-1.08554
Mn 257.610	0.1079	ppb	0.0130	12.0	66.5098	0.10794
Mo 202.032	-0.2287	ppb	0.1305	57.0	5.8451	-0.22872
Na 330.237	27.2019	ppb	84.6568	311.2	46.4205	27.20190
Ni 231.604	0.6193	ppb	0.8159	131.7	-0.5848	0.61934
Pb 220.353	0.3621	ppb	0.4825	133.2	13.9373	0.36215
Sb 206.834	2.4763	ppb	1.7674	71.4	4.5168	2.47628
Se 196.026	-0.0087	ppb	5.8120	66896.5	1.2474	-0.00869
Sn 189.925	1.6307	ppb	0.1221	7.5	-11.3692	1.63070
Sr 216.596	0.0901	ppb	0.0956	106.1	11.6362	0.09013
Ti 334.941	0.1292	ppb	0.0220	17.1	-35.2545	0.12923
Tl 190.794	1.7292	ppb	1.1022	63.7	-10.4970	1.72921
V 292.401	0.0652	ppb	0.1675	256.7	-1.7636	0.06523
Zn 206.200	-0.3074	ppb	0.4443	144.5	5.9176	-0.30738

680-94536-b-6-aSD^5 (Samp) **10/1/2013, 12:35:36 AM** **Rack 3, Tube 51**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.3405	-0.0100	-0.1032u
Al 308.215	1.7737	1.3702	2.8086
As 188.980	-2.6556u	-0.3288u	-2.8095u
B 249.678	7.2583	6.8294	7.1700
Ba 389.178	19.5525	18.8730	19.2316
Be 313.042	0.0051	0.0166	0.0064
Ca 370.602	2571	2566	2569
Cd 226.502	0.0575	-0.1807u	-0.0835u
Co 228.615	3.8778	3.8122	3.9949
Cr 267.716	-0.0618u	0.0681	-0.2109u
Cu 324.754	-0.1980u	0.0741	-0.1595u
Fe 271.441	-0.0445	3.0243	-1.8061u
K 766.491	641.067	641.272	642.006
Mg 279.078	1270.34	1261.81	1263.39
Mn 257.610	482.543	480.697	481.274
Mo 202.032	0.4661	0.0701	0.2067
Na 330.237	2300.99	2459.46	2411.78
Ni 231.604	2.2443	-0.0366u	0.9257
Pb 220.353	-0.5006u	-0.5598u	-0.9375u
Sb 206.834	-0.4116u	0.4621	1.1107
Se 196.026	4.2100	-0.4867u	-3.5098u
Sn 189.925	1.3021	1.0909	1.5579
Sr 216.596	15.1296	15.1148	15.4405
Ti 334.941	0.0644	0.0792	0.0154

Label	Replicates	Concentration	
Tl 190.794	1.3480	-1.0251u	0.2654
V 292.401	0.1400	-0.0267u	-0.0832u
Zn 206.200	1.8633	1.7384	2.0568

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0758	ppb	0.2340	308.8	-12.4047
Al 308.215	1.9842	ppb	0.7419	37.4	-30.9221
As 188.980	-1.9313	ppb	1.3900	72.0	-9.7839
B 249.678	7.0859	ppb	0.2265	3.2	244.404
Ba 389.178	19.2190	ppb	0.3399	1.8	484.928
Be 313.042	0.0094	ppb	0.0063	67.3	-252.712
Ca 370.602	2569	ppb	2.718	0.1	8140
Cd 226.502	-0.0689	ppb	0.1198	173.9	12.1874
Co 228.615	3.8950	ppb	0.0926	2.4	50.9930
Cr 267.716	-0.0682	ppb	0.1396	204.6	18.4009
Cu 324.754	-0.0945	ppb	0.1473	155.9	119.194
Fe 271.441	0.3912	ppb	2.4445	624.8	16.9085
K 766.491	641.448	ppb	0.4938	0.1	27829.6
Mg 279.078	1265.18	ppb	4.5372	0.4	3984.24
Mn 257.610	481.505	ppb	0.9445	0.2	131289
Mo 202.032	0.2476	ppb	0.2012	81.2	10.0194
Na 330.237	2390.74	ppb	81.3028	3.4	195.827
Ni 231.604	1.0445	ppb	1.1451	109.6	1.1352
Pb 220.353	-0.6660	ppb	0.2370	35.6	11.8523
Sb 206.834	0.3871	ppb	0.7639	197.4	1.0239
Se 196.026	0.0712	ppb	3.8900	5465.7	1.4084
Sn 189.925	1.3170	ppb	0.2339	17.8	-11.7272
Sr 216.596	15.2283	ppb	0.1839	1.2	270.128
Ti 334.941	0.0530	ppb	0.0334	63.0	-52.0162
Tl 190.794	0.1961	ppb	1.1881	605.8	-13.1370
V 292.401	0.0100	ppb	0.1161	1159.6	-3.5949
Zn 206.200	1.8862	ppb	0.1605	8.5	9.9510

680-94536-b-6-aPDS (Samp) **10/1/2013, 12:40:13 AM** **Rack 3, Tube 52**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	31.2207	31.0680	31.1370
Al 308.215	1936.81	1937.69	1934.64
As 188.980	195.624	190.826	195.466
B 249.678	486.283	488.096	491.536
Ba 389.178	290.712	291.672	291.280
Be 313.042	49.0175	49.1478	49.1462
Ca 370.602	14755	14745	14715
Cd 226.502	47.9180	48.1846	48.1055
Co 228.615	210.557	211.894	211.213
Cr 267.716	193.831	195.075	194.814
Cu 324.754	200.983	203.215	202.546
Fe 271.441	1876.51	1894.37	1883.20
K 766.491	5309.44	5333.34	5328.20
Mg 279.078	8300.00	8325.69	8345.84
Mn 257.610	2573.46	2578.13	2581.00
Mo 202.032	196.158	197.081	198.929
Na 330.237	14371.8	14644.9	14484.5

Label	Replicates	Concentration	
Ni 231.604	193.667	191.886	195.682
Pb 220.353	189.049	191.195	192.099
Sb 206.834	185.801	187.036	186.645
Se 196.026	190.033	197.955	194.133
Sn 189.925	191.984	192.941	196.234
Sr 216.596	269.813	270.731	272.675
Ti 334.941	193.057	193.214	192.681
Tl 190.794	187.575	187.391	189.894
V 292.401	192.321	193.453	193.540
Zn 206.200	199.792	197.334	200.443

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	31.1419	ppb	0.0765	0.2	2868.32
Al 308.215	1936.38	ppb	1.5710	0.1	11577.9
As 188.980	193.972	ppb	2.7257	1.4	180.134
B 249.678	488.638	ppb	2.6679	0.5	9875.10
Ba 389.178	291.221	ppb	0.4825	0.2	7589.00
Be 313.042	49.1038	ppb	0.0748	0.2	107481
Ca 370.602	14738	ppb	21.18	0.1	46676
Cd 226.502	48.0694	ppb	0.1369	0.3	2903.12
Co 228.615	211.221	ppb	0.6684	0.3	3149.53
Cr 267.716	194.573	ppb	0.6556	0.3	12460.7
Cu 324.754	202.248	ppb	1.1456	0.6	14167.7
Fe 271.441	1884.69	ppb	9.0224	0.5	3811.94
K 766.491	5323.66	ppb	12.5818	0.2	229208
Mg 279.078	8323.84	ppb	22.9727	0.3	26042.1
Mn 257.610	2577.53	ppb	3.8053	0.1	702659
Mo 202.032	197.389	ppb	1.4106	0.7	1736.91
Na 330.237	14500.4	ppb	137.224	0.9	956.333
Ni 231.604	193.745	ppb	1.8988	1.0	785.672
Pb 220.353	190.781	ppb	1.5664	0.8	424.743
Sb 206.834	186.494	ppb	0.6313	0.3	310.791
Se 196.026	194.040	ppb	3.9618	2.0	99.8120
Sn 189.925	193.720	ppb	2.2296	1.2	209.522
Sr 216.596	271.073	ppb	1.4610	0.5	4627.80
Ti 334.941	192.984	ppb	0.2740	0.1	57192.3
Tl 190.794	188.287	ppb	1.3948	0.7	270.653
V 292.401	193.105	ppb	0.6799	0.4	6063.58
Zn 206.200	199.190	ppb	1.6394	0.8	371.847

680-94536-a-6-a ms (Samp) **10/1/2013, 12:44:51 AM** **Rack 3, Tube 53**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	58.1024	59.2718	58.4464
Al 308.215	5131.54	5241.55	5120.89
As 188.980	102.166	109.531	102.432
B 249.678	226.126	231.110	227.299
Ba 389.178	194.166	199.447	194.286
Be 313.042	51.5595	52.6278	51.7855
Ca 370.602	17350	17773	17321
Cd 226.502	50.5810	51.4363	50.5831
Co 228.615	69.5217	69.3993	69.2271
Cr 267.716	103.766	106.193	103.843

Label	Replicates Concentration		
Cu 324.754	107.489	108.230	106.675
Fe 271.441	4959.62	5058.55	4973.54
K 766.491	8557.81	8748.07	8582.47
Mg 279.078	11138.9	11344.6	11151.3
Mn 257.610	2789.50	2854.56	2793.67
Mo 202.032	103.052	106.187	103.334
Na 330.237	16953.5	17373.2	16764.2
Ni 231.604	103.729	106.589	104.376
Pb 220.353	51.1461	51.2150	50.8841
Sb 206.834	51.3142	52.5131	53.1491
Se 196.026	104.102	112.014	101.512
Sn 189.925	203.382	203.172	203.343
Sr 216.596	174.133	176.829	174.373
Ti 334.941	101.010	103.231	100.930
Tl 190.794	42.2651	41.7217	41.5219
V 292.401	101.838	104.608	102.356
Zn 206.200	113.132	113.932	111.183

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	58.6068	ppb	0.6010	1.0	5421.98
Al 308.215	5164.66	ppb	66.8017	1.3	31019.1
As 188.980	104.710	ppb	4.1772	4.0	93.6002
B 249.678	228.178	ppb	2.6054	1.1	4654.64
Ba 389.178	195.967	ppb	3.0151	1.5	5122.71
Be 313.042	51.9909	ppb	0.5630	1.1	113841
Ca 370.602	17481	ppb	253.5	1.4	55070
Cd 226.502	50.8668	ppb	0.4932	1.0	3084.89
Co 228.615	69.3827	ppb	0.1480	0.2	1029.68
Cr 267.716	104.601	ppb	1.3794	1.3	6717.30
Cu 324.754	107.465	ppb	0.7778	0.7	7588.53
Fe 271.441	4997.24	ppb	53.5519	1.1	10002.8
K 766.491	8629.45	ppb	103.463	1.2	371388
Mg 279.078	11211.6	ppb	115.314	1.0	35080.6
Mn 257.610	2812.58	ppb	36.4210	1.3	766762
Mo 202.032	104.191	ppb	1.7348	1.7	920.281
Na 330.237	17030.3	ppb	311.708	1.8	1117.13
Ni 231.604	104.898	ppb	1.4998	1.4	424.231
Pb 220.353	51.0817	ppb	0.1746	0.3	124.127
Sb 206.834	52.3255	ppb	0.9317	1.8	87.9193
Se 196.026	105.876	ppb	5.4714	5.2	55.3956
Sn 189.925	203.299	ppb	0.1118	0.1	220.539
Sr 216.596	175.111	ppb	1.4921	0.9	3000.67
Ti 334.941	101.724	ppb	1.3058	1.3	30144.3
Tl 190.794	41.8362	ppb	0.3846	0.9	48.0321
V 292.401	102.934	ppb	1.4727	1.4	3230.50
Zn 206.200	112.749	ppb	1.4138	1.3	213.367

680-94536-a-6-b msd (Samp) **10/1/2013, 12:49:28 AM** **Rack 3, Tube 54**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	58.5749	57.8648	58.9131
Al 308.215	5161.22	5156.47	5164.11
As 188.980	105.628	99.7661	105.388

Label	Replicates Concentration		
B 249.678	227.413	227.256	227.068
Ba 389.178	194.749	193.801	194.429
Be 313.042	51.7357	51.7722	51.8778
Ca 370.602	17338	17336	17326
Cd 226.502	50.9835	51.0891	51.1097
Co 228.615	68.5150	68.3053	68.4756
Cr 267.716	104.613	104.594	104.956
Cu 324.754	107.764	107.829	108.675
Fe 271.441	4994.72	4989.48	4989.36
K 766.491	8510.15	8513.69	8554.01
Mg 279.078	11114.7	11111.5	11130.4
Mn 257.610	2776.46	2770.07	2782.51
Mo 202.032	104.523	103.739	103.618
Na 330.237	16950.7	16971.9	16761.2
Ni 231.604	105.940	104.109	105.656
Pb 220.353	50.8149	50.5574	51.7259
Sb 206.834	55.3477	53.2438	52.0339
Se 196.026	105.585	108.768	96.6770
Sn 189.925	204.293	198.915	205.194
Sr 216.596	175.279	173.307	174.448
Ti 334.941	101.490	101.365	101.652
Tl 190.794	42.5076	44.9780	42.9782
V 292.401	103.009	103.088	102.893
Zn 206.200	111.537	110.826	110.118

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	58.4509	ppb	0.5350	0.9	5407.35
Al 308.215	5160.60	ppb	3.8590	0.1	30994.7
As 188.980	103.594	ppb	3.3171	3.2	92.5179
B 249.678	227.245	ppb	0.1728	0.1	4635.98
Ba 389.178	194.327	ppb	0.4826	0.2	5079.76
Be 313.042	51.7952	ppb	0.0738	0.1	113411
Ca 370.602	17333	ppb	6.873	0.0	54601
Cd 226.502	51.0608	ppb	0.0677	0.1	3096.49
Co 228.615	68.4320	ppb	0.1115	0.2	1015.46
Cr 267.716	104.721	ppb	0.2034	0.2	6724.80
Cu 324.754	108.089	ppb	0.5081	0.5	7631.87
Fe 271.441	4991.19	ppb	3.0623	0.1	9990.64
K 766.491	8525.95	ppb	24.3639	0.3	366936
Mg 279.078	11118.9	ppb	10.1015	0.1	34791.1
Mn 257.610	2776.35	ppb	6.2206	0.2	756886
Mo 202.032	103.960	ppb	0.4916	0.5	918.257
Na 330.237	16894.6	ppb	115.995	0.7	1108.57
Ni 231.604	105.235	ppb	0.9852	0.9	425.608
Pb 220.353	51.0327	ppb	0.6140	1.2	124.012
Sb 206.834	53.5418	ppb	1.6769	3.1	89.9472
Se 196.026	103.676	ppb	6.2671	6.0	54.2771
Sn 189.925	202.801	ppb	3.3953	1.7	219.966
Sr 216.596	174.344	ppb	0.9898	0.6	2987.57
Ti 334.941	101.502	ppb	0.1440	0.1	30078.3
Tl 190.794	43.4880	ppb	1.3117	3.0	50.5512
V 292.401	102.997	ppb	0.0979	0.1	3232.49
Zn 206.200	110.827	ppb	0.7097	0.6	209.833

680-94536-b-7-a (Samp) **10/1/2013, 12:54:06 AM** **Rack 3, Tube 55**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.0445	-0.1628u	0.2876
Al 308.215	22.6360	24.0404	25.9827
As 188.980	0.6032	1.6031	1.9733
B 249.678	31.2441	31.6288	32.3221
Ba 389.178	92.4824	93.1843	95.1735
Be 313.042	0.0384	0.0340	0.0318
Ca 370.602	12644	12769	13030
Cd 226.502	0.0568	0.1182	0.0106
Co 228.615	18.0434	18.0581	18.3623
Cr 267.716	-0.2756u	-0.0206	-0.3398u
Cu 324.754	0.1477	0.2250	-0.0614u
Fe 271.441	-0.6171	-0.5944	5.2087
K 766.491	3205.86	3220.87	3280.55
Mg 279.078	6252.65	6282.27	6368.53
Mn 257.610	2328.61	2347.43	2388.75
Mo 202.032	0.0241	-0.6490u	0.1847
Na 330.237	12276.4	12432.6	12596.9
Ni 231.604	3.6719	3.9685	2.4961
Pb 220.353	0.4815	0.0443	0.8569
Sb 206.834	0.6366	0.1283	1.6581
Se 196.026	-2.5425u	0.4842	4.4886
Sn 189.925	-0.6182u	-0.7951u	0.2530
Sr 216.596	75.0074	75.4956	76.7315
Ti 334.941	0.0378	0.0542	0.0639
Tl 190.794	0.5149u	2.6856	2.1375
V 292.401	-0.0807u	-0.1069u	-0.2377u
Zn 206.200	10.3373	10.2764	11.1571

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0564	ppb	0.2254	399.5	-7.1278
Al 308.215	24.2197	ppb	1.6806	6.9	102.273
As 188.980	1.3932	ppb	0.7088	50.9	-6.5591
B 249.678	31.7317	ppb	0.5463	1.7	737.569
Ba 389.178	93.6134	ppb	1.3959	1.5	2435.77
Be 313.042	0.0347	ppb	0.0033	9.6	-195.202
Ca 370.602	12814	ppb	197.0	1.5	40624
Cd 226.502	0.0619	ppb	0.0540	87.2	20.0388
Co 228.615	18.1546	ppb	0.1800	1.0	264.175
Cr 267.716	-0.2120	ppb	0.1688	79.6	20.2081
Cu 324.754	0.1038	ppb	0.1482	142.8	132.938
Fe 271.441	1.3324	ppb	3.3570	251.9	20.9302
K 766.491	3235.76	ppb	39.5109	1.2	139409
Mg 279.078	6301.15	ppb	60.2049	1.0	19712.5
Mn 257.610	2354.93	ppb	30.7669	1.3	641962
Mo 202.032	-0.1467	ppb	0.4423	301.5	6.5641
Na 330.237	12435.3	ppb	160.276	1.3	830.743
Ni 231.604	3.3788	ppb	0.7787	23.0	10.6002
Pb 220.353	0.4609	ppb	0.4067	88.2	14.7996
Sb 206.834	0.8077	ppb	0.7791	96.5	1.7357
Se 196.026	0.8101	ppb	3.5269	435.4	2.2523
Sn 189.925	-0.3868	ppb	0.5611	145.1	-13.6750
Sr 216.596	75.7448	ppb	0.8887	1.2	1303.55

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ti 334.941	0.0520	ppb	0.0132	25.4	-29.2007
Tl 190.794	1.7794	ppb	1.1288	63.4	-11.9956
V 292.401	-0.1418	ppb	0.0841	59.3	-8.3370
Zn 206.200	10.5903	ppb	0.4918	4.6	25.9538

680-94536-b-3-a (Samp) **10/1/2013, 12:58:43 AM** **Rack 3, Tube 56**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.1718	-0.0998u	-0.0513
Al 308.215	217.056	218.418	211.546
As 188.980	20.7368	21.8263	24.7682
B 249.678	33.4486	33.4878	33.1727
Ba 389.178	98.7969	98.2291	95.8066
Be 313.042	0.1075	0.1130	0.1101
Ca 370.602	13241	13260	12891
Cd 226.502	-0.3400	-0.2799	-0.4231
Co 228.615	18.5140	18.6941	17.6349
Cr 267.716	-0.3627	-0.2149	-0.3220
Cu 324.754	1.0108	0.6590	0.4615
Fe 271.441	45983.8	45993.1	44870.4
K 766.491	3320.24	3329.84	3243.22
Mg 279.078	6372.25	6397.89	6233.33
Mn 257.610	2444.26	2445.53	2384.53
Mo 202.032	0.7950	0.8205	0.4648
Na 330.237	12630.6	12541.5	12280.4
Ni 231.604	2.7950	3.7497	1.7672
Pb 220.353	-1.1225	2.6670	1.9850
Sb 206.834	1.8495	-0.4442	-0.6685
Se 196.026	9.9919	1.2541	-1.6847u
Sn 189.925	2.3388	1.4412	-0.3892u
Sr 216.596	77.1400	77.4451	75.0731
Ti 334.941	0.0193	0.0149	0.0372
Tl 190.794	2.2667u	-1.4331u	1.2654u
V 292.401	0.2608	0.3402	0.3526
Zn 206.200	14.3043	16.2170	15.7615

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0069	ppb	0.1449	2099.9	-11.7321
Al 308.215	215.673	ppb	3.6384	1.7	1254.21
As 188.980	22.4438	ppb	2.0854	9.3	13.1626
B 249.678	33.3697	ppb	0.1718	0.5	643.610
Ba 389.178	97.6109	ppb	1.5881	1.6	2612.41
Be 313.042	0.1102	ppb	0.0027	2.5	-30.9529
Ca 370.602	13131	ppb	207.4	1.6	38018
Cd 226.502	-0.3477	ppb	0.0719	20.7	205.295
Co 228.615	18.2810	ppb	0.5668	3.1	268.055
Cr 267.716	-0.2999	ppb	0.0764	25.5	29.2859
Cu 324.754	0.7104	ppb	0.2782	39.2	193.761
Fe 271.441	45615.8	ppb	645.502	1.4	91077.7
K 766.491	3297.77	ppb	47.4831	1.4	142076
Mg 279.078	6334.49	ppb	88.5434	1.4	19827.5
Mn 257.610	2424.77	ppb	34.8552	1.4	661146
Mo 202.032	0.6934	ppb	0.1984	28.5	11.1692

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Na 330.237	12484.1	ppb	182.010	1.5	816.948
Ni 231.604	2.7706	ppb	0.9915	35.8	9.5857
Pb 220.353	1.1765	ppb	2.0200	171.7	20.5201
Sb 206.834	0.2456	ppb	1.3935	567.3	2.5105
Se 196.026	3.1871	ppb	6.0736	190.6	3.6276
Sn 189.925	1.1303	ppb	1.3903	123.0	-11.9325
Sr 216.596	76.5528	ppb	1.2904	1.7	1381.19
Ti 334.941	0.0238	ppb	0.0118	49.7	-31.8543
Tl 190.794	0.6997	ppb	1.9137	273.5	-18.0925
V 292.401	0.3179	ppb	0.0498	15.7	6.0848
Zn 206.200	15.4276	ppb	0.9991	6.5	35.4250

680-94536-b-2-a (Samp) **10/1/2013, 1:03:20 AM** **Rack 3, Tube 57**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.2502u	-0.1088u	0.0396
Al 308.215	29.9139	29.4578	30.1471
As 188.980	14.9810	11.8049	11.9558
B 249.678	33.7044	33.9870	33.6883
Ba 389.178	108.446	110.836	111.016
Be 313.042	0.0828	0.0811	0.0821
Ca 370.602	13926	14211	14276
Cd 226.502	-0.2268	-0.2052	-0.0712
Co 228.615	14.5232	14.6024	14.9955
Cr 267.716	-0.3374	-0.3599u	-0.0818
Cu 324.754	2.0255	1.7049	1.8923
Fe 271.441	25806.3	26344.2	26476.0
K 766.491	3268.43	3324.82	3347.92
Mg 279.078	6140.58	6269.15	6280.28
Mn 257.610	2368.56	2420.41	2429.29
Mo 202.032	0.2312	-0.1846u	-0.2271u
Na 330.237	14787.4	15156.8	15341.6
Ni 231.604	1.4598	1.5542	2.3490
Pb 220.353	1.7075	-0.3901	2.1834
Sb 206.834	0.6967	1.2348	-0.9272u
Se 196.026	0.2187	-1.1750	1.3787
Sn 189.925	1.1415	-1.0228u	-0.3389u
Sr 216.596	78.2803	80.8894	80.7889
Ti 334.941	-0.0197	0.0168	0.0297
Tl 190.794	1.8284u	2.6366u	-0.7765u
V 292.401	0.2164	0.4178	0.0170
Zn 206.200	7.0064	6.4740	7.1190

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1065	ppb	0.1449	136.1	-22.4053
Al 308.215	29.8396	ppb	0.3506	1.2	136.164
As 188.980	12.9139	ppb	1.7917	13.9	4.2142
B 249.678	33.7933	ppb	0.1680	0.5	706.031
Ba 389.178	110.099	ppb	1.4346	1.3	2906.25
Be 313.042	0.0820	ppb	0.0009	1.0	-92.1444
Ca 370.602	14137	ppb	186.1	1.3	42740
Cd 226.502	-0.1677	ppb	0.0843	50.3	126.751
Co 228.615	14.7070	ppb	0.2530	1.7	213.796

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Cr 267.716	-0.2597	ppb	0.1545	59.5	25.7033
Cu 324.754	1.8742	ppb	0.1610	8.6	266.547
Fe 271.441	26208.8	ppb	354.776	1.4	52336.5
K 766.491	3313.72	ppb	40.8930	1.2	142762
Mg 279.078	6230.00	ppb	77.6430	1.2	19495.6
Mn 257.610	2406.09	ppb	32.7998	1.4	655988
Mo 202.032	-0.0602	ppb	0.2532	421.0	5.7391
Na 330.237	15095.3	ppb	282.194	1.9	989.350
Ni 231.604	1.7877	ppb	0.4884	27.3	4.9690
Pb 220.353	1.1669	ppb	1.3693	117.3	18.7277
Sb 206.834	0.3348	ppb	1.1255	336.2	1.9379
Se 196.026	0.1408	ppb	1.2786	908.2	2.0175
Sn 189.925	-0.0734	ppb	1.1063	1506.9	-13.3138
Sr 216.596	79.9862	ppb	1.4782	1.8	1412.76
Ti 334.941	0.0089	ppb	0.0256	287.2	-39.3406
Tl 190.794	1.2295	ppb	1.7836	145.1	-15.4114
V 292.401	0.2171	ppb	0.2004	92.3	2.9945
Zn 206.200	6.8665	ppb	0.3445	5.0	19.4391

680-94536-b-1-a (Samp) **10/1/2013, 1:07:57 AM** **Rack 3, Tube 58**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.3186u	0.0327	-0.0471
Al 308.215	52.0200	54.0573	53.8406
As 188.980	16.2641	17.0385	19.0541
B 249.678	31.1685	31.5520	31.0867
Ba 389.178	76.2887	76.0680	75.8463
Be 313.042	0.1477	0.1495	0.1509
Ca 370.602	11477	11541	11478
Cd 226.502	0.0358	-0.1367	0.0669
Co 228.615	30.6511	30.5305	31.3225
Cr 267.716	0.0332	0.1208	0.0644
Cu 324.754	0.9968	0.9121	0.4554
Fe 271.441	34719.1	34815.2	34552.8
K 766.491	3343.46	3332.54	3320.17
Mg 279.078	6805.24	6809.46	6776.45
Mn 257.610	2496.76	2502.26	2488.29
Mo 202.032	0.3580	0.0602u	0.5434
Na 330.237	8602.93	8347.44	8371.85
Ni 231.604	6.1424	6.5585	6.0092
Pb 220.353	0.2714	-0.3030	-1.3892
Sb 206.834	3.1916	-0.9660u	-1.4729u
Se 196.026	0.0169	0.3867	3.2101
Sn 189.925	-0.6181u	4.0895	0.4331
Sr 216.596	72.6259	72.6056	71.6875
Ti 334.941	0.0234	0.0222	0.0746
Tl 190.794	1.8757u	1.5200u	-0.5884u
V 292.401	0.3224	0.0313	0.2877
Zn 206.200	14.1653	16.4926	14.7454

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1110	ppb	0.1842	165.9	-21.9821
Al 308.215	53.3060	ppb	1.1189	2.1	276.704

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	17.4522	ppb	1.4403	8.3	8.4863
B 249.678	31.2690	ppb	0.2484	0.8	631.946
Ba 389.178	76.0676	ppb	0.2212	0.3	2035.75
Be 313.042	0.1493	ppb	0.0016	1.1	55.2264
Ca 370.602	11499	ppb	36.55	0.3	33719
Cd 226.502	-0.0113	ppb	0.1097	967.0	175.211
Co 228.615	30.8347	ppb	0.4267	1.4	455.242
Cr 267.716	0.0728	ppb	0.0444	61.0	49.9146
Cu 324.754	0.7881	ppb	0.2912	36.9	194.662
Fe 271.441	34695.7	ppb	132.795	0.4	69280.7
K 766.491	3332.06	ppb	11.6511	0.3	143551
Mg 279.078	6797.05	ppb	17.9602	0.3	21271.9
Mn 257.610	2495.77	ppb	7.0335	0.3	680466
Mo 202.032	0.3205	ppb	0.2438	76.1	8.5622
Na 330.237	8440.74	ppb	140.988	1.7	565.333
Ni 231.604	6.2367	ppb	0.2865	4.6	23.3164
Pb 220.353	-0.4736	ppb	0.8433	178.1	15.9810
Sb 206.834	0.2509	ppb	2.5593	1020.0	2.1173
Se 196.026	1.2046	ppb	1.7466	145.0	2.6050
Sn 189.925	1.3015	ppb	2.4710	189.9	-11.7382
Sr 216.596	72.3064	ppb	0.5360	0.7	1293.14
Ti 334.941	0.0401	ppb	0.0299	74.5	-25.7629
Tl 190.794	0.9357	ppb	1.3319	142.3	-16.6656
V 292.401	0.2138	ppb	0.1590	74.4	2.8694
Zn 206.200	15.1344	ppb	1.2114	8.0	34.7460

680-94536-b-5-a (Samp) **10/1/2013, 1:12:34 AM** **Rack 3, Tube 59**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.1744	-0.2143u	0.1243
Al 308.215	6.7600	3.7865	6.0478
As 188.980	2.8560	-0.5394u	-4.1105u
B 249.678	31.6238	30.4718	31.4339
Ba 389.178	95.5909	92.4322	94.4437
Be 313.042	0.0374	0.0381	0.0295
Ca 370.602	13022	12634	12948
Cd 226.502	0.0010	-0.0256u	-0.0166u
Co 228.615	18.9381	18.8210	18.4651
Cr 267.716	-0.1095	-0.0448	-0.1920
Cu 324.754	0.3350	0.2297	0.3351
Fe 271.441	10.9778	11.8562	7.1398
K 766.491	3296.33	3200.09	3254.91
Mg 279.078	6379.78	6213.52	6351.27
Mn 257.610	2388.04	2323.61	2376.22
Mo 202.032	-0.0447u	0.2426	0.2001
Na 330.237	12596.0	12157.0	12512.8
Ni 231.604	3.5371	3.9300	3.7718
Pb 220.353	1.3291	1.2194	1.2791
Sb 206.834	3.9123	0.7619	-3.0335u
Se 196.026	-0.6087	-6.1814u	4.8272
Sn 189.925	1.0730	0.6990	0.9825
Sr 216.596	76.2975	74.1539	76.4526
Ti 334.941	0.0232	0.0498	-0.0047

Label	Replicates Concentration		
Tl 190.794	0.5719u	3.5875	2.9567
V 292.401	-0.4271u	-0.1873u	-0.1383u
Zn 206.200	11.9285	11.6354	11.1362

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0281	ppb	0.2114	751.9	-9.7192
Al 308.215	5.5314	ppb	1.5526	28.1	-10.1586
As 188.980	-0.5980	ppb	3.4836	582.6	-8.4908
B 249.678	31.1765	ppb	0.6176	2.0	726.441
Ba 389.178	94.1556	ppb	1.5990	1.7	2449.93
Be 313.042	0.0350	ppb	0.0047	13.5	-194.666
Ca 370.602	12868	ppb	206.0	1.6	40793
Cd 226.502	-0.0138	ppb	0.0136	98.6	15.5429
Co 228.615	18.7414	ppb	0.2464	1.3	272.930
Cr 267.716	-0.1154	ppb	0.0738	63.9	26.3988
Cu 324.754	0.3000	ppb	0.0608	20.3	146.575
Fe 271.441	9.9913	ppb	2.5082	25.1	38.3021
K 766.491	3250.44	ppb	48.2754	1.5	140041
Mg 279.078	6314.86	ppb	88.9117	1.4	19755.4
Mn 257.610	2362.63	ppb	34.3023	1.5	644059
Mo 202.032	0.1327	ppb	0.1551	116.9	9.0122
Na 330.237	12421.9	ppb	233.173	1.9	829.871
Ni 231.604	3.7463	ppb	0.1977	5.3	12.0958
Pb 220.353	1.2759	ppb	0.0549	4.3	16.5575
Sb 206.834	0.5469	ppb	3.4779	635.9	1.2931
Se 196.026	-0.6543	ppb	5.5044	841.3	1.5143
Sn 189.925	0.9182	ppb	0.1951	21.2	-12.1745
Sr 216.596	75.6347	ppb	1.2847	1.7	1301.67
Ti 334.941	0.0228	ppb	0.0273	119.8	-37.8009
Tl 190.794	2.3721	ppb	1.5905	67.1	-11.0999
V 292.401	-0.2509	ppb	0.1546	61.6	-11.8838
Zn 206.200	11.5667	ppb	0.4006	3.5	27.7487

680-94536-b-4-a (Samp) **10/1/2013, 1:17:11 AM** **Rack 3, Tube 60**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.1165u	-0.1798u	-0.1199u
Al 308.215	6.8017	7.5582	4.8808
As 188.980	0.0132	-1.6641u	0.7135
B 249.678	30.6962	31.0086	30.5262
Ba 389.178	94.0599	94.0906	93.4269
Be 313.042	0.0430	0.0348	0.0333
Ca 370.602	12878	12934	12822
Cd 226.502	0.1386	0.0350	0.0630
Co 228.615	18.6499	18.1251	18.5652
Cr 267.716	-0.2987u	-0.1188	0.0234
Cu 324.754	0.0627	0.2824	-0.1185u
Fe 271.441	8.4827	3.7212	7.2184
K 766.491	3223.89	3223.25	3222.57
Mg 279.078	6271.06	6282.27	6276.85
Mn 257.610	2351.76	2363.20	2353.59
Mo 202.032	-0.3068u	0.0830	-0.1069u
Na 330.237	12398.0	12383.4	12457.3

Label	Replicates Concentration		
Ni 231.604	2.9181	2.9886	3.9467
Pb 220.353	-0.7078u	-1.4750u	-0.7039u
Sb 206.834	4.2937	2.9973	-0.6539u
Se 196.026	1.0335	6.7842	-0.4446
Sn 189.925	-1.6550u	0.4740	-0.9041u
Sr 216.596	74.7858	74.7493	75.6187
Ti 334.941	-0.0093	0.0237	-0.0108
Tl 190.794	3.8824	3.2942	1.8950
V 292.401	-0.1298u	-0.4338u	-0.5838u
Zn 206.200	10.3752	10.3360	10.1385

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1387	ppb	0.0356	25.7	-25.2139
Al 308.215	6.4136	ppb	1.3802	21.5	-4.8301
As 188.980	-0.3125	ppb	1.2217	391.0	-8.2138
B 249.678	30.7437	ppb	0.2447	0.8	717.785
Ba 389.178	93.8591	ppb	0.3747	0.4	2442.13
Be 313.042	0.0370	ppb	0.0052	14.1	-190.172
Ca 370.602	12878	ppb	56.23	0.4	40826
Cd 226.502	0.0789	ppb	0.0536	68.0	21.0803
Co 228.615	18.4467	ppb	0.2818	1.5	268.536
Cr 267.716	-0.1313	ppb	0.1614	122.9	25.3178
Cu 324.754	0.0755	ppb	0.2008	265.8	130.990
Fe 271.441	6.4741	ppb	2.4665	38.1	31.2375
K 766.491	3223.24	ppb	0.6634	0.0	138871
Mg 279.078	6276.73	ppb	5.6057	0.1	19636.2
Mn 257.610	2356.18	ppb	6.1448	0.3	642304
Mo 202.032	-0.1102	ppb	0.1950	176.8	6.8839
Na 330.237	12412.9	ppb	39.1491	0.3	829.333
Ni 231.604	3.2845	ppb	0.5746	17.5	10.2150
Pb 220.353	-0.9623	ppb	0.4441	46.1	11.7296
Sb 206.834	2.2124	ppb	2.5655	116.0	4.0751
Se 196.026	2.4577	ppb	3.8191	155.4	3.0816
Sn 189.925	-0.6950	ppb	1.0798	155.4	-14.0295
Sr 216.596	75.0513	ppb	0.4917	0.7	1291.73
Ti 334.941	0.0012	ppb	0.0195	1624.1	-44.3357
Tl 190.794	3.0239	ppb	1.0209	33.8	-10.1069
V 292.401	-0.3825	ppb	0.2313	60.5	-15.9943
Zn 206.200	10.2833	ppb	0.1269	1.2	25.3891

Cont Calib Verif (CCV) **10/1/2013, 1:21:48 AM** **Rack 4, Tube 1**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	480.139	481.021	480.797
Al 308.215	4866.76	4872.18	4862.19
As 188.980	479.349	479.290	485.642
B 249.678	482.112	483.901	483.002
Ba 389.178	4909.42	4910.07	4911.59
Be 313.042	488.272	489.096	490.039
Ca 370.602	5009	5017	5002
Cd 226.502	489.878	491.596	489.598
Co 228.615	490.600	491.043	490.392
Cr 267.716	4977.77	4993.42	4982.40

Label	Replicates Concentration		
Cu 324.754	5060.38	5125.35	5057.36
Fe 271.441	4745.91	4760.95	4745.12
K 766.491	10116.6	10133.3	10150.5
Mg 279.078	4886.23	4893.77	4877.33
Mn 257.610	5038.41	5033.52	5034.82
Mo 202.032	499.832	501.841	498.516
Na 330.237	7032.87	6995.46	7043.04
Ni 231.604	2455.31	2457.78	2445.50
Pb 220.353	488.177	490.564	484.033
Sb 206.834	985.417	994.254	995.538
Se 196.026	5105.72	5099.23	5088.70
Sn 189.925	4944.32	4970.37	4922.59
Sr 216.596	2505.37	2512.24	2506.75
Ti 334.941	483.430	484.308	483.756
Tl 190.794	5013.55	4996.47	4999.80
V 292.401	4883.37	4901.66	4888.68
Zn 206.200	2456.58	2465.24	2450.74

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	480.652	ppb	0.4583	0.1	44493.9	96.13043
Al 308.215	4867.04	ppb	5.0001	0.1	28429.6	97.34089
As 188.980	481.427	ppb	3.6507	0.8	458.803	96.28542
B 249.678	483.005	ppb	0.8948	0.2	9754.27	96.60102
Ba 389.178	4910.36	ppb	1.1125	0.0	127808	98.20724
Be 313.042	489.136	ppb	0.8839	0.2	1073215	97.82719
Ca 370.602	5009	ppb	7.212	0.1	15916	100.18415
Cd 226.502	490.357	ppb	1.0819	0.2	29397.4	98.07143
Co 228.615	490.679	ppb	0.3326	0.1	7340.63	98.13573
Cr 267.716	4984.53	ppb	8.0421	0.2	318349	99.69057
Cu 324.754	5081.03	ppb	38.4094	0.8	352710	101.62060
Fe 271.441	4750.66	ppb	8.9216	0.2	9626.38	95.01315
K 766.491	10133.5	ppb	16.9765	0.2	436075	101.33475
Mg 279.078	4885.78	ppb	8.2308	0.2	15216.0	97.71561
Mn 257.610	5035.58	ppb	2.5315	0.1	1372608	100.71168
Mo 202.032	500.063	ppb	1.6743	0.3	4378.18	100.01262
Na 330.237	7023.79	ppb	25.0541	0.4	440.635	93.65054
Ni 231.604	2452.86	ppb	6.4987	0.3	9989.51	98.11458
Pb 220.353	487.591	ppb	3.3046	0.7	1064.68	97.51826
Sb 206.834	991.736	ppb	5.5105	0.6	1724.68	99.17363
Se 196.026	5097.88	ppb	8.5923	0.2	2574.75	101.95766
Sn 189.925	4945.76	ppb	23.9204	0.5	5673.67	98.91518
Sr 216.596	2508.12	ppb	3.6359	0.1	42706.0	100.32484
Ti 334.941	483.831	ppb	0.4434	0.1	143424	96.76627
Tl 190.794	5003.28	ppb	9.0560	0.2	7556.61	100.06553
V 292.401	4891.24	ppb	9.4079	0.2	154468	97.82475
Zn 206.200	2457.52	ppb	7.2960	0.3	4502.29	98.30090

Cont Calib Blank (CCB) **10/1/2013, 1:26:27 AM** **Rack 4, Tube 2**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.1535	0.3968	-0.0006u
Al 308.215	-2.7997u	-2.9588u	-1.5532u
As 188.980	1.8270	-0.3347u	4.0779

Label	Replicates	Concentration	
B 249.678	1.9685	1.6602	1.1510
Ba 389.178	0.6157	1.0076	0.4256
Be 313.042	0.0047	0.0015	0.0123
Ca 370.602	2.570	1.908	-1.135u
Cd 226.502	0.0086	-0.0373u	-0.0889u
Co 228.615	-0.1923u	-0.0361u	0.3803
Cr 267.716	0.1978	0.0351	0.1982
Cu 324.754	-0.4641u	-0.0194u	-0.3625u
Fe 271.441	-0.9985u	-0.4426u	-2.8594u
K 766.491	3.8995	3.4536	3.0282
Mg 279.078	-1.9827u	-0.6570u	-0.9312u
Mn 257.610	0.1615	0.1411	0.2300
Mo 202.032	0.2129	0.4312	-0.0559u
Na 330.237	-4.9610u	84.3196	-34.1735u
Ni 231.604	-0.5585u	0.8467	0.4735
Pb 220.353	-0.9859u	-0.5303u	0.0287
Sb 206.834	1.5254	2.8891	3.1108
Se 196.026	-0.4488u	1.9770	2.9257
Sn 189.925	3.4157	0.1327	-0.0074u
Sr 216.596	0.1756	-0.1060u	0.1568
Ti 334.941	0.1238	0.0986	0.0775
Tl 190.794	0.0008	1.5031	0.5235
V 292.401	-0.0775u	0.0562	0.3816
Zn 206.200	-1.0724u	1.0018	-0.0762u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.1833	ppb	0.2004	109.3	-4.2878	0.18326
Al 308.215	-2.4372	ppb	0.7697	31.6	-57.3802	-2.43725
As 188.980	1.8567	ppb	2.2065	118.8	-6.1101	1.85673
B 249.678	1.5932	ppb	0.4129	25.9	134.491	1.59321
Ba 389.178	0.6830	ppb	0.2968	43.5	-1.1775	0.68296
Be 313.042	0.0062	ppb	0.0055	89.3	-260.132	0.00617
Ca 370.602	1.114	ppb	1.976	177.3	-0.9177	1.11444
Cd 226.502	-0.0392	ppb	0.0488	124.5	13.9649	-0.03917
Co 228.615	0.0506	ppb	0.2960	584.4	-6.4717	0.05064
Cr 267.716	0.1437	ppb	0.0941	65.5	29.1252	0.14371
Cu 324.754	-0.2820	ppb	0.2330	82.6	106.180	-0.28198
Fe 271.441	-1.4335	ppb	1.2658	88.3	12.6879	-1.43349
K 766.491	3.4604	ppb	0.4357	12.6	390.236	3.46044
Mg 279.078	-1.1903	ppb	0.6998	58.8	29.3207	-1.19032
Mn 257.610	0.1776	ppb	0.0465	26.2	85.4771	0.17756
Mo 202.032	0.1961	ppb	0.2440	124.5	9.5673	0.19607
Na 330.237	15.0617	ppb	61.7320	409.9	45.6454	15.06169
Ni 231.604	0.2539	ppb	0.7279	286.7	-2.0733	0.25391
Pb 220.353	-0.4959	ppb	0.5082	102.5	12.0867	-0.49587
Sb 206.834	2.5084	ppb	0.8585	34.2	4.5626	2.50841
Se 196.026	1.4846	ppb	1.7403	117.2	2.0009	1.48465
Sn 189.925	1.1803	ppb	1.9371	164.1	-11.8871	1.18032
Sr 216.596	0.0755	ppb	0.1575	208.7	11.3728	0.07545
Ti 334.941	0.0999	ppb	0.0232	23.2	-43.9374	0.09995
Tl 190.794	0.6758	ppb	0.7626	112.8	-12.0911	0.67582
V 292.401	0.1201	ppb	0.2361	196.6	-0.1109	0.12012
Zn 206.200	-0.0490	ppb	1.0374	2118.5	6.3924	-0.04897

680-94528-b-5-a (Samp) **10/1/2013, 1:31:05 AM** **Rack 4, Tube 3**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.1573	0.3356	0.1646
Al 308.215	110.048	108.701	107.847
As 188.980	-1.7237u	0.3367	-2.9962u
B 249.678	11.6493	12.0968	12.5551
Ba 389.178	73.6007	74.7186	74.0016
Be 313.042	0.0741	0.0758	0.0810
Ca 370.602	877.2	887.8	883.8
Cd 226.502	0.0223	-0.0744u	-0.0040u
Co 228.615	1.7198	1.4177	1.8313
Cr 267.716	0.1120	0.1978	0.0016
Cu 324.754	10.2683	10.0568	10.0469
Fe 271.441	31.6379	33.6501	34.1642
K 766.491	734.304	748.722	742.814
Mg 279.078	1046.23	1065.16	1063.94
Mn 257.610	25.1284	25.5527	25.4216
Mo 202.032	0.2796	-0.1037u	0.1313
Na 330.237	5186.53	5427.62	5393.26
Ni 231.604	125.873	128.450	126.903
Pb 220.353	0.5062	1.8073	0.6219
Sb 206.834	1.2797	3.2689	0.8930
Se 196.026	3.7983	2.3165	3.5282
Sn 189.925	0.8921	1.4641	0.4788
Sr 216.596	11.2441	11.3274	10.9658
Ti 334.941	0.0963	0.0347	0.0519
Tl 190.794	-1.3063u	-0.7631u	0.9167
V 292.401	0.2532	-0.2505u	-0.0637u
Zn 206.200	6.1955	7.4906	6.5336

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.2192	ppb	0.1009	46.0	-1.4275
Al 308.215	108.865	ppb	1.1099	1.0	612.285
As 188.980	-1.4611	ppb	1.6819	115.1	-9.3268
B 249.678	12.1004	ppb	0.4529	3.7	344.642
Ba 389.178	74.1070	ppb	0.5663	0.8	1912.83
Be 313.042	0.0770	ppb	0.0036	4.7	-105.187
Ca 370.602	882.9	ppb	5.375	0.6	2788
Cd 226.502	-0.0187	ppb	0.0500	267.6	15.3315
Co 228.615	1.6562	ppb	0.2140	12.9	17.5368
Cr 267.716	0.1038	ppb	0.0984	94.8	26.8700
Cu 324.754	10.1240	ppb	0.1251	1.2	828.383
Fe 271.441	33.1507	ppb	1.3351	4.0	81.9665
K 766.491	741.947	ppb	7.2480	1.0	32152.0
Mg 279.078	1058.44	ppb	10.5971	1.0	3347.48
Mn 257.610	25.3675	ppb	0.2172	0.9	6961.58
Mo 202.032	0.1024	ppb	0.1933	188.7	8.7448
Na 330.237	5335.80	ppb	130.411	2.4	381.925
Ni 231.604	127.075	ppb	1.2973	1.0	514.649
Pb 220.353	0.9785	ppb	0.7202	73.6	15.2727
Sb 206.834	1.8139	ppb	1.2748	70.3	3.4095
Se 196.026	3.2143	ppb	0.7892	24.6	2.8801
Sn 189.925	0.9450	ppb	0.4948	52.4	-12.1543
Sr 216.596	11.1791	ppb	0.1894	1.7	197.503

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ti 334.941	0.0609	ppb	0.0318	52.1	-50.8982
Tl 190.794	-0.3842	ppb	1.1589	301.6	-13.7087
V 292.401	-0.0204	ppb	0.2546	1251.1	-4.5661
Zn 206.200	6.7399	ppb	0.6717	10.0	18.8747

680-94528-a-5-a ms (Samp) **10/1/2013, 1:35:43 AM** **Rack 4, Tube 4**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	55.4476	57.8164	55.5113
Al 308.215	5071.99	5198.78	5067.66
As 188.980	105.109	102.584	97.2888
B 249.678	200.804	207.028	202.026
Ba 389.178	170.487	176.518	172.270
Be 313.042	50.1802	51.7493	50.5663
Ca 370.602	5776	5913	5766
Cd 226.502	49.3401	50.8462	49.5565
Co 228.615	51.4534	52.9121	52.0844
Cr 267.716	101.644	104.321	102.152
Cu 324.754	113.294	115.892	113.047
Fe 271.441	4867.78	4995.26	4873.52
K 766.491	5718.50	5908.49	5799.06
Mg 279.078	5937.34	6124.58	5960.21
Mn 257.610	541.770	556.080	542.921
Mo 202.032	101.206	104.235	101.101
Na 330.237	9818.41	10103.1	9730.97
Ni 231.604	99.8277	102.921	100.759
Pb 220.353	51.7645	50.6754	49.1418
Sb 206.834	48.7675	53.9710	49.0497
Se 196.026	107.137	101.050	100.577
Sn 189.925	198.494	199.978	200.133
Sr 216.596	109.949	113.492	109.903
Ti 334.941	98.6789	101.225	99.0805
Tl 190.794	40.4887	38.1620	40.2305
V 292.401	99.3617	102.494	100.212
Zn 206.200	106.536	106.452	104.470

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	56.2584	ppb	1.3496	2.4	5195.05
Al 308.215	5112.81	ppb	74.4832	1.5	30708.1
As 188.980	101.661	ppb	3.9910	3.9	90.6441
B 249.678	203.286	ppb	3.2977	1.6	4156.76
Ba 389.178	173.092	ppb	3.0983	1.8	4512.00
Be 313.042	50.8319	ppb	0.8176	1.6	111294
Ca 370.602	5818	ppb	82.50	1.4	18093
Cd 226.502	49.9143	ppb	0.8143	1.6	3027.44
Co 228.615	52.1500	ppb	0.7316	1.4	772.076
Cr 267.716	102.705	ppb	1.4220	1.4	6583.15
Cu 324.754	114.078	ppb	1.5764	1.4	8047.40
Fe 271.441	4912.19	ppb	71.9992	1.5	9830.45
K 766.491	5808.69	ppb	95.3630	1.6	250069
Mg 279.078	6007.38	ppb	102.144	1.7	18834.5
Mn 257.610	546.924	ppb	7.9505	1.5	149181
Mo 202.032	102.181	ppb	1.7800	1.7	902.678

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Na 330.237	9884.15	ppb	194.569	2.0	665.469
Ni 231.604	101.169	ppb	1.5871	1.6	409.092
Pb 220.353	50.5272	ppb	1.3176	2.6	122.307
Sb 206.834	50.5961	ppb	2.9262	5.8	85.0299
Se 196.026	102.921	ppb	3.6586	3.6	53.3366
Sn 189.925	199.535	ppb	0.9052	0.5	216.201
Sr 216.596	111.115	ppb	2.0589	1.9	1907.66
Ti 334.941	99.6613	ppb	1.3686	1.4	29508.6
Tl 190.794	39.6271	ppb	1.2753	3.2	46.2091
V 292.401	100.689	ppb	1.6198	1.6	3159.93
Zn 206.200	105.819	ppb	1.1694	1.1	200.635

680-94528-a-5-b msd (Samp) **10/1/2013, 1:40:20 AM** **Rack 4, Tube 5**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	55.0541	55.2539	54.8422
Al 308.215	4968.67	4994.34	4978.55
As 188.980	99.0613	95.9061	98.7454
B 249.678	198.205	198.688	198.558
Ba 389.178	166.300	166.402	164.434
Be 313.042	49.4822	49.3969	49.3047
Ca 370.602	5653	5673	5651
Cd 226.502	48.5574	48.7106	48.6467
Co 228.615	51.3644	50.8248	51.2496
Cr 267.716	100.091	99.9934	99.5982
Cu 324.754	111.413	112.091	110.804
Fe 271.441	4784.04	4796.26	4774.28
K 766.491	5621.44	5635.74	5638.60
Mg 279.078	5833.94	5822.99	5810.68
Mn 257.610	531.768	532.913	530.703
Mo 202.032	99.3501	99.0968	98.7253
Na 330.237	9502.24	9359.67	9161.29
Ni 231.604	99.3423	99.3864	98.4665
Pb 220.353	48.0088	46.7492	47.5262
Sb 206.834	48.4029	51.3677	47.6750
Se 196.026	104.986	106.456	106.768
Sn 189.925	197.806	191.436	193.987
Sr 216.596	107.350	108.571	107.070
Ti 334.941	96.6915	97.1319	96.6418
Tl 190.794	37.6445	35.9527	40.9730
V 292.401	98.5531	98.0631	97.8815
Zn 206.200	102.730	103.019	103.772

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	55.0501	ppb	0.2059	0.4	5083.04
Al 308.215	4980.52	ppb	12.9521	0.3	29912.4
As 188.980	97.9043	ppb	1.7376	1.8	87.0020
B 249.678	198.484	ppb	0.2497	0.1	4061.03
Ba 389.178	165.712	ppb	1.1082	0.7	4319.17
Be 313.042	49.3946	ppb	0.0888	0.2	108140
Ca 370.602	5659	ppb	12.58	0.2	17597
Cd 226.502	48.6382	ppb	0.0770	0.2	2950.44
Co 228.615	51.1463	ppb	0.2842	0.6	757.085

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Cr 267.716	99.8942	ppb	0.2610	0.3	6403.49
Cu 324.754	111.436	ppb	0.6438	0.6	7863.94
Fe 271.441	4784.86	ppb	11.0145	0.2	9576.09
K 766.491	5631.92	ppb	9.1914	0.2	242466
Mg 279.078	5822.54	ppb	11.6359	0.2	18256.0
Mn 257.610	531.795	ppb	1.1054	0.2	145056
Mo 202.032	99.0574	ppb	0.3143	0.3	875.323
Na 330.237	9341.07	ppb	171.232	1.8	631.240
Ni 231.604	99.0651	ppb	0.5188	0.5	400.517
Pb 220.353	47.4281	ppb	0.6355	1.3	115.620
Sb 206.834	49.1485	ppb	1.9560	4.0	82.6145
Se 196.026	106.070	ppb	0.9517	0.9	54.9212
Sn 189.925	194.410	ppb	3.2059	1.6	210.307
Sr 216.596	107.664	ppb	0.7979	0.7	1848.74
Ti 334.941	96.8217	ppb	0.2698	0.3	28665.7
Tl 190.794	38.1901	ppb	2.5542	6.7	44.0544
V 292.401	98.1659	ppb	0.3474	0.4	3080.75
Zn 206.200	103.174	ppb	0.5380	0.5	195.783

680-94528-a-6-a (Samp) **10/1/2013, 1:44:58 AM** **Rack 4, Tube 6**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.1209	0.0187	-0.1037u
Al 308.215	100.533	102.176	100.121
As 188.980	3.4180	-1.2620u	1.3043
B 249.678	12.2326	12.2162	11.9136
Ba 389.178	72.5318	73.6231	71.7753
Be 313.042	0.0793	0.0731	0.0682
Ca 370.602	852.2	872.8	854.4
Cd 226.502	-0.0432u	-0.1388u	-0.0604u
Co 228.615	2.0814	1.8148	1.5408
Cr 267.716	-0.0391u	0.0744	-0.0349u
Cu 324.754	14.0496	14.3109	14.4586
Fe 271.441	18.8191	17.4494	21.4786
K 766.491	717.341	729.228	727.319
Mg 279.078	1038.68	1054.60	1050.10
Mn 257.610	24.6959	25.1626	24.9892
Mo 202.032	-0.2454u	-0.0874u	-0.2107u
Na 330.237	5317.40	5319.90	5301.53
Ni 231.604	1.7205	1.8359	1.6725
Pb 220.353	3.0076	1.0085	0.3262
Sb 206.834	1.5071	2.4401	2.2958
Se 196.026	9.1820	0.9298	2.9673
Sn 189.925	-2.0591u	-0.4682u	-1.3092u
Sr 216.596	10.8740	11.1209	11.1056
Ti 334.941	0.0327	0.0865	0.0486
Tl 190.794	1.8710	3.6981	-0.1765u
V 292.401	-0.3353u	-0.3541u	-0.0217u
Zn 206.200	6.6716	7.0169	5.7802

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0120	ppb	0.1125	939.8	-20.6705
Al 308.215	100.944	ppb	1.0873	1.1	564.640

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	1.1534	ppb	2.3437	203.2	-6.7908
B 249.678	12.1208	ppb	0.1796	1.5	345.095
Ba 389.178	72.6434	ppb	0.9290	1.3	1874.68
Be 313.042	0.0735	ppb	0.0055	7.5	-112.666
Ca 370.602	859.8	ppb	11.35	1.3	2716
Cd 226.502	-0.0808	ppb	0.0509	63.0	11.5382
Co 228.615	1.8123	ppb	0.2703	14.9	19.8797
Cr 267.716	0.0002	ppb	0.0644	41618.6	20.2438
Cu 324.754	14.2730	ppb	0.2071	1.5	1116.32
Fe 271.441	19.2490	ppb	2.0487	10.6	54.2356
K 766.491	724.629	ppb	6.3837	0.9	31407.2
Mg 279.078	1047.79	ppb	8.2103	0.8	3314.13
Mn 257.610	24.9492	ppb	0.2359	0.9	6847.42
Mo 202.032	-0.1812	ppb	0.0831	45.8	6.2614
Na 330.237	5312.94	ppb	9.9640	0.2	380.489
Ni 231.604	1.7430	ppb	0.0840	4.8	3.9888
Pb 220.353	1.4475	ppb	1.3936	96.3	16.2827
Sb 206.834	2.0810	ppb	0.5022	24.1	3.8572
Se 196.026	4.3597	ppb	4.2987	98.6	3.4578
Sn 189.925	-1.2788	ppb	0.7959	62.2	-14.7115
Sr 216.596	11.0335	ppb	0.1383	1.3	198.347
Ti 334.941	0.0559	ppb	0.0277	49.4	-52.4277
Tl 190.794	1.7975	ppb	1.9384	107.8	-10.4060
V 292.401	-0.2370	ppb	0.1867	78.8	-11.3715
Zn 206.200	6.4895	ppb	0.6381	9.8	18.4147

680-94528-b-1-a (Samp) **10/1/2013, 1:49:36 AM** **Rack 4, Tube 7**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.1194	-0.0667u	0.0386
Al 308.215	177.694	175.184	172.151
As 188.980	2.8645	-1.9694u	1.2082
B 249.678	17.9917	17.8383	17.1608
Ba 389.178	106.363	104.762	103.383
Be 313.042	0.1335	0.1215	0.1282
Ca 370.602	1652	1638	1604
Cd 226.502	-0.0583u	0.0061	0.0417
Co 228.615	2.9903	3.1348	3.0520
Cr 267.716	0.1265	0.1015	-0.0582u
Cu 324.754	0.5505	0.7380	0.8175
Fe 271.441	-1.2785u	3.2871	-1.0289u
K 766.491	868.880	859.933	848.993
Mg 279.078	1565.04	1549.72	1527.01
Mn 257.610	43.5141	43.1290	42.3748
Mo 202.032	0.2787	0.1169	0.1659
Na 330.237	8085.98	8043.13	7834.98
Ni 231.604	3.4554	1.7875	1.7909
Pb 220.353	-0.9973u	1.6158	1.5530
Sb 206.834	0.0641	3.1997	0.4994
Se 196.026	-3.0365u	-4.8992u	7.8930
Sn 189.925	1.9201	3.3596	-1.3166u
Sr 216.596	17.4020	17.1612	16.9162
Ti 334.941	0.0724	0.0737	0.0598

Label	Replicates Concentration		
Tl 190.794	0.8141	3.2582	-0.4584u
V 292.401	0.0950	0.3482	0.1507
Zn 206.200	0.4490	1.8437	1.6746

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0304	ppb	0.0933	306.8	-19.1879
Al 308.215	175.010	ppb	2.7760	1.6	1010.20
As 188.980	0.7011	ppb	2.4565	350.4	-7.2282
B 249.678	17.6636	ppb	0.4421	2.5	456.071
Ba 389.178	104.836	ppb	1.4913	1.4	2713.92
Be 313.042	0.1277	ppb	0.0060	4.7	6.0955
Ca 370.602	1631	ppb	24.54	1.5	5160
Cd 226.502	-0.0035	ppb	0.0507	1446.9	16.0467
Co 228.615	3.0590	ppb	0.0725	2.4	38.4988
Cr 267.716	0.0566	ppb	0.1002	177.0	24.0086
Cu 324.754	0.7020	ppb	0.1371	19.5	174.467
Fe 271.441	0.3266	ppb	2.5670	786.0	16.6551
K 766.491	859.269	ppb	9.9600	1.2	37197.9
Mg 279.078	1547.26	ppb	19.1303	1.2	4878.00
Mn 257.610	43.0060	ppb	0.5795	1.3	11773.7
Mo 202.032	0.1872	ppb	0.0830	44.3	9.4891
Na 330.237	7988.03	ppb	134.265	1.7	549.726
Ni 231.604	2.3446	ppb	0.9620	41.0	6.4354
Pb 220.353	0.7239	ppb	1.4909	206.0	14.7228
Sb 206.834	1.2544	ppb	1.6987	135.4	2.4731
Se 196.026	-0.0142	ppb	6.9109	48550.2	1.2553
Sn 189.925	1.3210	ppb	2.3950	181.3	-11.7202
Sr 216.596	17.1598	ppb	0.2429	1.4	302.874
Ti 334.941	0.0686	ppb	0.0077	11.2	-46.5075
Tl 190.794	1.2047	ppb	1.8888	156.8	-11.3077
V 292.401	0.1980	ppb	0.1330	67.2	2.3044
Zn 206.200	1.3224	ppb	0.7611	57.6	8.9141

680-94528-b-2-a (Samp) **10/1/2013, 1:54:14 AM** **Rack 4, Tube 8**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.0005u	-0.0534u	0.3685
Al 308.215	70.1207	69.1258	71.0043
As 188.980	0.5169	1.5132	-0.9172u
B 249.678	7.6264	7.6332	7.3097
Ba 389.178	52.0251	53.0674	53.8635
Be 313.042	0.0352	0.0310	0.0356
Ca 370.602	364.1	366.2	371.7
Cd 226.502	-0.0047	0.0791	0.0560
Co 228.615	0.8632	1.1770	0.8942
Cr 267.716	0.0492	-0.1101u	-0.0226u
Cu 324.754	-0.1152u	0.1665	0.0491
Fe 271.441	76.2411	76.6398	78.5867
K 766.491	640.481	658.991	662.144
Mg 279.078	723.271	738.825	745.172
Mn 257.610	13.2013	13.6126	13.6433
Mo 202.032	-0.3349u	-0.0371u	0.2800
Na 330.237	3590.03	3714.27	3885.21

Label	Replicates Concentration		
Ni 231.604	0.7582	1.7442	1.3097
Pb 220.353	2.2537	0.5946	0.6367
Sb 206.834	-0.4548u	5.2134	0.4894
Se 196.026	-5.0411u	6.2945	2.1198
Sn 189.925	0.2077	-0.3771u	-0.2235u
Sr 216.596	7.5947	7.7401	7.3549
Ti 334.941	0.0803	0.0912	0.0858
Tl 190.794	0.2785	-1.1879u	-0.2189u
V 292.401	-0.1952u	-0.1356u	0.1497
Zn 206.200	2.1342	1.4847	2.6061

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1049	ppb	0.2298	219.2	-11.9023
Al 308.215	70.0836	ppb	0.9398	1.3	378.967
As 188.980	0.3710	ppb	1.2218	329.3	-7.5511
B 249.678	7.5231	ppb	0.1848	2.5	252.928
Ba 389.178	52.9853	ppb	0.9219	1.7	1362.27
Be 313.042	0.0339	ppb	0.0025	7.5	-199.582
Ca 370.602	367.4	ppb	3.945	1.1	1152
Cd 226.502	0.0435	ppb	0.0433	99.6	19.2638
Co 228.615	0.9781	ppb	0.1729	17.7	7.4059
Cr 267.716	-0.0278	ppb	0.0798	287.0	18.3673
Cu 324.754	0.0334	ppb	0.1415	423.3	128.096
Fe 271.441	77.1558	ppb	1.2551	1.6	169.708
K 766.491	653.872	ppb	11.7033	1.8	28364.0
Mg 279.078	735.756	ppb	11.2684	1.5	2337.13
Mn 257.610	13.4857	ppb	0.2468	1.8	3720.11
Mo 202.032	-0.0307	ppb	0.3075	1002.6	7.5761
Na 330.237	3729.84	ppb	148.206	4.0	280.458
Ni 231.604	1.2707	ppb	0.4942	38.9	2.0692
Pb 220.353	1.1617	ppb	0.9460	81.4	15.6696
Sb 206.834	1.7493	ppb	3.0369	173.6	3.3029
Se 196.026	1.1244	ppb	5.7330	509.9	1.8227
Sn 189.925	-0.1310	ppb	0.3032	231.5	-13.3927
Sr 216.596	7.5633	ppb	0.1945	2.6	139.186
Ti 334.941	0.0857	ppb	0.0054	6.3	-44.9300
Tl 190.794	-0.3761	ppb	0.7457	198.3	-13.6952
V 292.401	-0.0604	ppb	0.1844	305.5	-5.7948
Zn 206.200	2.0750	ppb	0.5631	27.1	10.2992

680-94528-b-3-a (Samp) **10/1/2013, 1:58:52 AM** **Rack 4, Tube 9**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.1524u	0.2874	-0.0621u
Al 308.215	105.108	107.376	108.107
As 188.980	1.4975	0.6398	3.2940
B 249.678	11.6429	10.6608	11.5540
Ba 389.178	71.0956	71.4195	70.8325
Be 313.042	0.0737	0.0812	0.0667
Ca 370.602	840.6	843.3	846.6
Cd 226.502	0.0871	0.0355	0.1096
Co 228.615	1.2430	1.4220	1.6486
Cr 267.716	0.0340	-0.0874u	0.0510

Label	Replicates	Concentration	
Cu 324.754	0.5812	0.3739	0.7173
Fe 271.441	23.6080	28.2108	28.6985
K 766.491	713.763	714.826	717.360
Mg 279.078	1029.89	1027.05	1032.41
Mn 257.610	24.6451	24.7751	24.8715
Mo 202.032	0.1521	-0.0194u	-0.1017u
Na 330.237	5036.32	5213.87	5325.97
Ni 231.604	1.3162	2.1222	1.4972
Pb 220.353	2.5552	1.1879	4.6296
Sb 206.834	2.8555	1.9793	2.8341
Se 196.026	5.5744	6.0858	-2.8624u
Sn 189.925	-0.8859u	0.8810	1.4456
Sr 216.596	11.3058	10.8871	11.1373
Ti 334.941	0.0302	0.0213	-0.0038
Tl 190.794	-1.8922u	-0.0792u	1.1000
V 292.401	-0.1779u	0.0891	-0.3766u
Zn 206.200	39.9469	39.7908	38.9693

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0243	ppb	0.2323	955.7	-19.5204
Al 308.215	106.863	ppb	1.5638	1.5	600.271
As 188.980	1.8104	ppb	1.3545	74.8	-6.1537
B 249.678	11.2859	ppb	0.5432	4.8	328.376
Ba 389.178	71.1159	ppb	0.2941	0.4	1834.88
Be 313.042	0.0739	ppb	0.0072	9.8	-111.959
Ca 370.602	843.5	ppb	3.005	0.4	2664
Cd 226.502	0.0774	ppb	0.0380	49.0	21.0327
Co 228.615	1.4379	ppb	0.2033	14.1	14.2733
Cr 267.716	-0.0008	ppb	0.0755	9350.6	20.1758
Cu 324.754	0.5575	ppb	0.1729	31.0	164.444
Fe 271.441	26.8391	ppb	2.8088	10.5	69.3328
K 766.491	715.316	ppb	1.8482	0.3	31006.7
Mg 279.078	1029.78	ppb	2.6781	0.3	3257.73
Mn 257.610	24.7639	ppb	0.1136	0.5	6796.76
Mo 202.032	0.0103	ppb	0.1295	1254.1	7.9388
Na 330.237	5192.06	ppb	146.050	2.8	372.248
Ni 231.604	1.6452	ppb	0.4229	25.7	3.5918
Pb 220.353	2.7909	ppb	1.7329	62.1	19.1791
Sb 206.834	2.5563	ppb	0.4998	19.6	4.6468
Se 196.026	2.9326	ppb	5.0251	171.4	2.7377
Sn 189.925	0.4802	ppb	1.2163	253.3	-12.6889
Sr 216.596	11.1101	ppb	0.2107	1.9	199.662
Ti 334.941	0.0159	ppb	0.0176	110.8	-64.3773
Tl 190.794	-0.2905	ppb	1.5073	518.9	-13.5664
V 292.401	-0.1552	ppb	0.2337	150.6	-8.8141
Zn 206.200	39.5690	ppb	0.5252	1.3	79.2331

680-94528-b-4-a (Samp) **10/1/2013, 2:03:30 AM** **Rack 4, Tube 10**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	0.1811	0.4290	0.2051
Al 308.215	107.094	104.681	108.658
As 188.980	1.8396	-3.3532u	1.0215

Label	Replicates Concentration		
B 249.678	12.3800	12.3526	12.1727
Ba 389.178	75.2851	76.0732	76.3192
Be 313.042	0.0742	0.0690	0.0721
Ca 370.602	890.9	886.0	894.6
Cd 226.502	0.0416	0.0661	-0.0952u
Co 228.615	1.9801	2.2754	1.9476
Cr 267.716	0.0916	0.1393	0.1328
Cu 324.754	12.4966	12.3113	12.3499
Fe 271.441	24.1122	31.1699	28.9028
K 766.491	758.636	756.986	756.483
Mg 279.078	1094.94	1096.18	1099.78
Mn 257.610	26.2584	26.2264	26.2221
Mo 202.032	0.2831	-0.6225u	-0.0093u
Na 330.237	5354.72	5458.95	5358.90
Ni 231.604	2.0583	1.1453	1.7249
Pb 220.353	2.3565	2.9518	0.4385
Sb 206.834	-1.5304u	2.4979	0.6551
Se 196.026	-1.3221u	4.4505	3.9367
Sn 189.925	1.7778	-0.7508u	1.7965
Sr 216.596	11.9350	12.1859	11.6730
Ti 334.941	0.0327	-0.0061	0.0598
Tl 190.794	-0.2575u	1.4223	-0.0136u
V 292.401	-0.0989u	-0.1194u	-0.0412u
Zn 206.200	119.468	122.148	119.345

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.2717	ppb	0.1367	50.3	3.3805
Al 308.215	106.811	ppb	2.0037	1.9	599.914
As 188.980	-0.1640	ppb	2.7921	1702.3	-8.0686
B 249.678	12.3018	ppb	0.1126	0.9	348.700
Ba 389.178	75.8925	ppb	0.5402	0.7	1959.39
Be 313.042	0.0718	ppb	0.0026	3.6	-116.609
Ca 370.602	890.5	ppb	4.347	0.5	2813
Cd 226.502	0.0042	ppb	0.0869	2072.2	16.6549
Co 228.615	2.0677	ppb	0.1806	8.7	23.6906
Cr 267.716	0.1212	ppb	0.0259	21.4	27.9850
Cu 324.754	12.3859	ppb	0.0978	0.8	985.357
Fe 271.441	28.0616	ppb	3.6033	12.8	71.8676
K 766.491	757.368	ppb	1.1264	0.1	32815.3
Mg 279.078	1096.97	ppb	2.5114	0.2	3468.12
Mn 257.610	26.2356	ppb	0.0198	0.1	7198.53
Mo 202.032	-0.1162	ppb	0.4622	397.6	6.8295
Na 330.237	5390.86	ppb	59.0038	1.1	383.344
Ni 231.604	1.6428	ppb	0.4620	28.1	3.5802
Pb 220.353	1.9156	ppb	1.3134	68.6	17.2924
Sb 206.834	0.5409	ppb	2.0166	372.9	1.2897
Se 196.026	2.3551	ppb	3.1948	135.7	2.4467
Sn 189.925	0.9412	ppb	1.4653	155.7	-12.1587
Sr 216.596	11.9313	ppb	0.2565	2.1	213.663
Ti 334.941	0.0288	ppb	0.0331	115.0	-60.2488
Tl 190.794	0.3837	ppb	0.9077	236.5	-12.5449
V 292.401	-0.0865	ppb	0.0405	46.9	-6.6399
Zn 206.200	120.320	ppb	1.5840	1.3	227.698

X (Samp) **10/1/2013, 2:08:08 AM** **Rack 4, Tube 11**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.2997u	-0.4189u	0.2878
Al 308.215	-2.5715u	-3.2498u	-3.9711u
As 188.980	0.1115	3.5009	0.6565
B 249.678	-0.0970u	-0.0963u	0.0506
Ba 389.178	2.0346	0.3648	0.0904
Be 313.042	-0.0006u	-0.0002u	-0.0012u
Ca 370.602	1.000	3.568	-4.448u
Cd 226.502	-0.0507u	-0.0232u	-0.0015u
Co 228.615	0.4673	0.2747	0.0485
Cr 267.716	-0.1412u	-0.0496u	0.0741
Cu 324.754	0.3605	-0.2108u	0.2211
Fe 271.441	-1.3634u	-1.9041u	-4.0780u
K 766.491	2.0409	3.3152	1.8049
Mg 279.078	-1.6550u	-0.3699u	1.8862
Mn 257.610	-0.0571u	-0.0054u	-0.0302u
Mo 202.032	0.3689	0.1309	-0.0309u
Na 330.237	-51.6283u	86.3566	49.8681
Ni 231.604	-0.1194u	-0.4196u	-0.5392u
Pb 220.353	-0.0688u	0.5990	0.7398
Sb 206.834	1.9411	1.4163	-0.4902u
Se 196.026	1.1388	-3.2987u	3.7710
Sn 189.925	1.0096	0.1340	-6.6963u
Sr 216.596	-0.2102u	-0.1819u	0.0568
Ti 334.941	0.0469	0.0566	0.0203
Tl 190.794	0.1717	-0.2968u	-0.5205u
V 292.401	-0.3490u	-0.1232u	0.1527
Zn 206.200	-0.6707u	-0.6264u	-1.4387u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1436	ppb	0.3783	263.5	-34.6125
Al 308.215	-3.2641	ppb	0.6999	21.4	-62.3332
As 188.980	1.4229	ppb	1.8201	127.9	-6.5307
B 249.678	-0.0475	ppb	0.0850	178.9	101.668
Ba 389.178	0.8299	ppb	1.0522	126.8	2.6438
Be 313.042	-0.0007	ppb	0.0005	80.4	-275.118
Ca 370.602	0.0400	ppb	4.093	10222.9	-4.095
Cd 226.502	-0.0252	ppb	0.0247	98.0	14.7878
Co 228.615	0.2635	ppb	0.2096	79.6	-3.2864
Cr 267.716	-0.0389	ppb	0.1081	277.8	17.4633
Cu 324.754	0.1236	ppb	0.2979	240.9	134.329
Fe 271.441	-2.4485	ppb	1.4369	58.7	10.6915
K 766.491	2.3870	ppb	0.8125	34.0	344.068
Mg 279.078	-0.0462	ppb	1.7926	3878.1	32.9089
Mn 257.610	-0.0309	ppb	0.0258	83.7	28.6567
Mo 202.032	0.1563	ppb	0.2011	128.7	9.2193
Na 330.237	28.1988	ppb	71.4992	253.6	46.4992
Ni 231.604	-0.3594	ppb	0.2163	60.2	-4.5730
Pb 220.353	0.4233	ppb	0.4320	102.0	14.0681
Sb 206.834	0.9557	ppb	1.2794	133.9	1.9723
Se 196.026	0.5370	ppb	3.5730	665.3	1.5227
Sn 189.925	-1.8509	ppb	4.2190	227.9	-15.3725
Sr 216.596	-0.1118	ppb	0.1466	131.2	8.1956

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ti 334.941	0.0413	ppb	0.0188	45.5	-61.3400
Tl 190.794	-0.2152	ppb	0.3532	164.1	-13.4377
V 292.401	-0.1065	ppb	0.2513	235.9	-7.2623
Zn 206.200	-0.9119	ppb	0.4567	50.1	4.8065

X (Samp) **10/1/2013, 2:12:46 AM** **Rack 4, Tube 12**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	10.2559	10.1883	10.5330
Al 308.215	216.548	217.165	219.442
As 188.980	24.6162	22.8830	19.6581
B 249.678	100.185	100.874	101.153
Ba 389.178	10.3534	10.3979	10.8090
Be 313.042	4.1419	4.1850	4.2020
Ca 370.602	524.5	528.8	528.3
Cd 226.502	5.0247	5.0136	5.1955
Co 228.615	10.4657	10.1813	10.3906
Cr 267.716	10.2908	10.4421	10.6247
Cu 324.754	21.2393	21.1041	20.8220
Fe 271.441	49.4041	52.5099	52.8770
K 766.491	1035.51	1044.00	1051.72
Mg 279.078	530.128	530.430	533.746
Mn 257.610	10.6725	10.7462	10.7438
Mo 202.032	10.3249	10.3990	10.1086
Na 330.237	988.541	836.147	840.296
Ni 231.604	41.9725	43.2423	42.0472
Pb 220.353	10.8858	8.9233	8.1560
Sb 206.834	21.6581	21.8135	21.8152
Se 196.026	24.4869	21.8647	26.4472
Sn 189.925	49.6743	49.7142	53.8763
Sr 216.596	10.0366	10.3571	9.9397
Ti 334.941	10.1762	10.2508	10.2304
Tl 190.794	26.5792	28.4177	27.3967
V 292.401	10.1267	10.2279	10.2392
Zn 206.200	18.7377	19.8325	19.6934

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	10.3257	ppb	0.1826	1.8	936.143
Al 308.215	217.719	ppb	1.5243	0.7	1265.74
As 188.980	22.3858	ppb	2.5161	11.2	13.7986
B 249.678	100.737	ppb	0.4984	0.5	2118.24
Ba 389.178	10.5201	ppb	0.2512	2.4	256.568
Be 313.042	4.1763	ppb	0.0310	0.7	8892.17
Ca 370.602	527.2	ppb	2.330	0.4	1666
Cd 226.502	5.0779	ppb	0.1019	2.0	320.587
Co 228.615	10.3458	ppb	0.1474	1.4	147.361
Cr 267.716	10.4525	ppb	0.1672	1.6	687.494
Cu 324.754	21.0551	ppb	0.2129	1.0	1587.28
Fe 271.441	51.5970	ppb	1.9079	3.7	120.219
K 766.491	1043.74	ppb	8.1073	0.8	45132.0
Mg 279.078	531.435	ppb	2.0077	0.4	1697.18
Mn 257.610	10.7208	ppb	0.0419	0.4	2964.49
Mo 202.032	10.2775	ppb	0.1509	1.5	97.8789

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Na 330.237	888.328	ppb	86.8118	9.8	100.447
Ni 231.604	42.4206	ppb	0.7125	1.7	169.701
Pb 220.353	9.3217	ppb	1.4078	15.1	33.2264
Sb 206.834	21.7623	ppb	0.0902	0.4	36.6733
Se 196.026	24.2663	ppb	2.2992	9.5	13.4986
Sn 189.925	51.0883	ppb	2.4146	4.7	45.5006
Sr 216.596	10.1111	ppb	0.2184	2.2	181.305
Ti 334.941	10.2191	ppb	0.0386	0.4	2959.28
Tl 190.794	27.4645	ppb	0.9211	3.4	28.4644
V 292.401	10.1980	ppb	0.0620	0.6	316.567
Zn 206.200	19.4212	ppb	0.5960	3.1	42.1434

Cont Calib Verif (CCV) **10/1/2013, 2:17:23 AM** **Rack 4, Tube 13**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	493.287	484.474	482.040
Al 308.215	4897.14	4796.92	4797.63
As 188.980	490.156	480.189	481.515
B 249.678	494.141	483.714	483.961
Ba 389.178	5012.87	4887.84	4888.41
Be 313.042	507.103	494.583	491.734
Ca 370.602	5029	4933	4927
Cd 226.502	500.370	492.126	490.922
Co 228.615	505.094	495.021	493.795
Cr 267.716	5143.24	5017.34	5003.88
Cu 324.754	5243.37	5077.79	5086.65
Fe 271.441	4890.59	4770.52	4749.81
K 766.491	10379.2	10161.8	10132.6
Mg 279.078	5055.89	4938.16	4920.35
Mn 257.610	5132.73	5021.02	5006.87
Mo 202.032	512.141	501.068	500.369
Na 330.237	6853.93	6983.69	6999.52
Ni 231.604	2518.65	2465.93	2462.27
Pb 220.353	503.964	490.674	489.227
Sb 206.834	1008.75	991.539	989.833
Se 196.026	5136.46	5021.34	5015.95
Sn 189.925	5075.29	4979.70	4978.69
Sr 216.596	2583.73	2522.03	2516.53
Ti 334.941	488.641	477.941	478.015
Tl 190.794	5117.24	4999.56	4998.82
V 292.401	5030.25	4914.31	4899.11
Zn 206.200	2523.50	2471.62	2460.57

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	486.600	ppb	5.9169	1.2	45042.6	97.32009
Al 308.215	4830.56	ppb	57.6583	1.2	28200.8	96.61122
As 188.980	483.953	ppb	5.4125	1.1	461.249	96.79068
B 249.678	487.272	ppb	5.9503	1.2	9839.51	97.45436
Ba 389.178	4929.71	ppb	72.0242	1.5	128312	98.59415
Be 313.042	497.806	ppb	8.1762	1.6	1092244	99.56126
Ca 370.602	4963	ppb	56.86	1.1	15770	99.26168
Cd 226.502	494.473	ppb	5.1426	1.0	29644.1	98.89456
Co 228.615	497.970	ppb	6.2000	7124	7449.63	99.59401

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Cr 267.716	5054.82	ppb	76.8697	1.5	322838	101.09636
Cu 324.754	5135.94	ppb	93.1460	1.8	356521	102.71872
Fe 271.441	4803.64	ppb	76.0117	1.6	9733.90	96.07278
K 766.491	10224.5	ppb	134.741	1.3	439990	102.24505
Mg 279.078	4971.47	ppb	73.6531	1.5	15483.1	99.42934
Mn 257.610	5053.54	ppb	68.9420	1.4	1377502	101.07076
Mo 202.032	504.526	ppb	6.6038	1.3	4417.16	100.90517
Na 330.237	6945.71	ppb	79.8805	1.2	434.992	92.60950
Ni 231.604	2482.28	ppb	31.5441	1.3	10109.4	99.29135
Pb 220.353	494.622	ppb	8.1228	1.6	1079.83	98.92435
Sb 206.834	996.709	ppb	10.4664	1.1	1733.95	99.67086
Se 196.026	5057.92	ppb	68.0754	1.3	2554.60	101.15840
Sn 189.925	5011.23	ppb	55.4830	1.1	5748.95	100.22453
Sr 216.596	2540.76	ppb	37.3081	1.5	43261.6	101.63052
Ti 334.941	481.532	ppb	6.1566	1.3	142743	96.30642
Tl 190.794	5038.54	ppb	68.1548	1.4	7609.97	100.77078
V 292.401	4947.89	ppb	71.7332	1.4	156256	98.95779
Zn 206.200	2485.23	ppb	33.5975	1.4	4552.91	99.40916

Cont Calib Blank (CCB) **10/1/2013, 2:22:01 AM** **Rack 4, Tube 14**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	0.0075	-0.0821u	0.2624
Al 308.215	-3.3259u	-1.6169u	-1.3525u
As 188.980	1.3860	1.5759	0.9488
B 249.678	1.9580	1.3771	1.2613
Ba 389.178	1.1187	1.4074	0.8068
Be 313.042	0.0065	0.0037	0.0167
Ca 370.602	1.885	12.39	-0.7686u
Cd 226.502	-0.0370u	-0.0679u	-0.0940u
Co 228.615	0.0216	0.5732	0.1678
Cr 267.716	-0.0985u	0.1441	0.2490
Cu 324.754	0.0429	0.0166	0.3466
Fe 271.441	2.5843	-5.6044u	-0.5343u
K 766.491	2.1252	1.5943	2.7085
Mg 279.078	-2.8865u	-0.2161u	-0.4480u
Mn 257.610	0.0205	0.0465	0.1238
Mo 202.032	-0.0033u	0.3693	0.6432
Na 330.237	52.8875	-123.737u	29.8862
Ni 231.604	-0.0564u	-0.0652u	-0.1823u
Pb 220.353	-3.1714u	1.8307	-0.3618u
Sb 206.834	3.6506	-0.3075u	2.3992
Se 196.026	5.4541	3.6058	3.3791
Sn 189.925	0.0990	-1.2388u	1.2476
Sr 216.596	-0.0661u	-0.2925u	0.2478
Ti 334.941	0.1824	0.0814	0.0693
Tl 190.794	0.2298	0.6836	1.8641
V 292.401	-0.0353u	0.2923	0.4884
Zn 206.200	-0.2188u	-1.5826u	-0.1011u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.0626	ppb	0.1787	285.6	-15.4807	0.06257
Al 308.215	-2.0984	ppb	1.0712	-51.0	-55.3671	-2.09844

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
As 188.980	1.3036	ppb	0.3216	24.7	-6.6466	1.30359
B 249.678	1.5321	ppb	0.3733	24.4	133.275	1.53212
Ba 389.178	1.1110	ppb	0.3004	27.0	9.9601	1.11097
Be 313.042	0.0090	ppb	0.0068	76.2	-254.004	0.00898
Ca 370.602	4.504	ppb	6.962	154.6	9.989	4.50376
Cd 226.502	-0.0663	ppb	0.0286	43.1	12.3299	-0.06631
Co 228.615	0.2542	ppb	0.2858	112.4	-3.4320	0.25422
Cr 267.716	0.0982	ppb	0.1782	181.5	26.2153	0.09819
Cu 324.754	0.1353	ppb	0.1834	135.5	135.145	0.13534
Fe 271.441	-1.1848	ppb	4.1329	348.8	13.2155	-1.18479
K 766.491	2.1426	ppb	0.5573	26.0	333.558	2.14265
Mg 279.078	-1.1835	ppb	1.4794	125.0	29.3448	-1.18354
Mn 257.610	0.0636	ppb	0.0537	84.5	54.4073	0.06358
Mo 202.032	0.3364	ppb	0.3245	96.5	10.7968	0.33640
Na 330.237	-13.6545	ppb	96.0256	703.3	43.8374	-13.65452
Ni 231.604	-0.1013	ppb	0.0703	69.4	-3.5213	-0.10129
Pb 220.353	-0.5675	ppb	2.5074	441.8	11.9318	-0.56751
Sb 206.834	1.9141	ppb	2.0232	105.7	3.5686	1.91411
Se 196.026	4.1463	ppb	1.1382	27.5	3.3438	4.14634
Sn 189.925	0.0359	ppb	1.2444	3463.2	-13.2030	0.03593
Sr 216.596	-0.0369	ppb	0.2713	734.6	9.4539	-0.03693
Ti 334.941	0.1110	ppb	0.0621	56.0	-40.6515	0.11102
Tl 190.794	0.9259	ppb	0.8437	91.1	-11.7117	0.92586
V 292.401	0.2484	ppb	0.2646	106.5	3.9316	0.24843
Zn 206.200	-0.6342	ppb	0.8235	129.9	5.3166	-0.63417

mb 680-296102/1-a (Samp) **10/1/2013, 2:26:39 AM** **Rack 4, Tube 15**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.3444u	0.0262	0.2517
Al 308.215	-1.2614u	-0.9776u	-2.1936u
As 188.980	-4.6512u	-2.0776u	2.6301
B 249.678	2.7835	2.9548	2.6429
Ba 389.178	1.1990	0.7525	0.5092
Be 313.042	-0.0000u	0.0048	0.0050
Ca 370.602	7.268	2.767	4.498
Cd 226.502	-0.0324u	0.0534	-0.0931u
Co 228.615	0.4676	-0.0132u	0.1643
Cr 267.716	0.0632	0.2215	-0.0346u
Cu 324.754	-0.0308u	0.2090	-0.3495u
Fe 271.441	0.9130	0.6598	4.8771
K 766.491	2.4017	2.5935	2.7262
Mg 279.078	-1.9582u	-1.1472u	-1.3878u
Mn 257.610	-0.0011u	0.0258	-0.0217u
Mo 202.032	0.0772	0.1279	-0.3831u
Na 330.237	-11.1098u	-62.7747u	3.8319
Ni 231.604	0.9846	-0.1011u	0.2971
Pb 220.353	3.6768	1.0825	2.5161
Sb 206.834	0.6396	1.6669	1.8944
Se 196.026	-2.6795u	2.2399	9.6646
Sn 189.925	1.3848	0.6652	0.0701
Sr 216.596	-0.0844u	-0.2616u	0.1073
Ti 334.941	0.0667	0.0400	0.0720

Label	Replicates	Concentration	
Tl 190.794	-2.5850u	-1.3909u	-0.0475u
V 292.401	-0.1129u	0.2113	0.0283
Zn 206.200	0.1659	-0.2628u	-0.1773u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0222	ppb	0.3010	1356.3	-23.3408
Al 308.215	-1.4775	ppb	0.6361	43.1	-51.6135
As 188.980	-1.3662	ppb	3.6924	270.3	-9.2358
B 249.678	2.7937	ppb	0.1562	5.6	158.507
Ba 389.178	0.8203	ppb	0.3498	42.7	2.3965
Be 313.042	0.0033	ppb	0.0028	87.2	-266.465
Ca 370.602	4.844	ppb	2.270	46.9	10.69
Cd 226.502	-0.0241	ppb	0.0736	306.0	14.8804
Co 228.615	0.2062	ppb	0.2431	117.9	-4.1378
Cr 267.716	0.0833	ppb	0.1292	155.0	25.2708
Cu 324.754	-0.0571	ppb	0.2802	490.7	121.779
Fe 271.441	2.1500	ppb	2.3652	110.0	19.8640
K 766.491	2.5738	ppb	0.1631	6.3	352.102
Mg 279.078	-1.4977	ppb	0.4166	27.8	28.3621
Mn 257.610	0.0010	ppb	0.0238	2339.9	37.3622
Mo 202.032	-0.0593	ppb	0.2815	474.6	7.3295
Na 330.237	-23.3509	ppb	34.9499	149.7	43.2227
Ni 231.604	0.3935	ppb	0.5492	139.6	-1.5050
Pb 220.353	2.4252	ppb	1.2995	53.6	18.3846
Sb 206.834	1.4003	ppb	0.6686	47.7	2.7194
Se 196.026	3.0750	ppb	6.2143	202.1	2.8033
Sn 189.925	0.7067	ppb	0.6583	93.2	-12.4317
Sr 216.596	-0.0796	ppb	0.1845	231.8	8.7263
Ti 334.941	0.0596	ppb	0.0172	28.8	-55.9100
Tl 190.794	-1.3411	ppb	1.2695	94.7	-15.1413
V 292.401	0.0422	ppb	0.1626	385.2	-2.5276
Zn 206.200	-0.0914	ppb	0.2269	248.3	6.3146

lcs 680-296102/2-a (Samp) **10/1/2013, 2:31:17 AM** **Rack 4, Tube 16**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	57.0168	58.4897	58.7595
Al 308.215	4928.46	5108.00	5038.57
As 188.980	101.070	106.169	101.446
B 249.678	193.518	200.333	198.244
Ba 389.178	101.815	105.988	104.025
Be 313.042	50.7069	52.6127	51.7488
Ca 370.602	4952	5125	5054
Cd 226.502	50.0229	51.6630	51.1447
Co 228.615	51.0185	52.6697	51.6142
Cr 267.716	103.403	107.523	105.578
Cu 324.754	105.724	108.528	108.192
Fe 271.441	4913.83	5103.53	5019.63
K 766.491	4944.43	5120.31	5067.82
Mg 279.078	4968.71	5144.60	5063.99
Mn 257.610	523.247	542.124	533.902
Mo 202.032	102.477	105.553	105.116
Na 330.237	4511.63	4575.42	4575.33

Label	Replicates Concentration		
Ni 231.604	100.346	103.092	104.373
Pb 220.353	50.2042	54.4999	51.9631
Sb 206.834	50.6788	48.3536	54.9573
Se 196.026	105.703	112.262	104.618
Sn 189.925	198.442	203.170	200.709
Sr 216.596	100.880	104.711	102.747
Ti 334.941	99.6977	103.490	101.895
Tl 190.794	39.9880	42.5799	38.9050
V 292.401	101.521	105.127	103.534
Zn 206.200	100.431	102.893	101.519

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	58.0887	ppb	0.9380	1.6	5365.23
Al 308.215	5025.01	ppb	90.5340	1.8	30179.5
As 188.980	102.895	ppb	2.8416	2.8	91.8385
B 249.678	197.365	ppb	3.4917	1.8	4038.01
Ba 389.178	103.943	ppb	2.0878	2.0	2709.81
Be 313.042	51.6894	ppb	0.9543	1.8	113177
Ca 370.602	5044	ppb	87.08	1.7	15635
Cd 226.502	50.9435	ppb	0.8384	1.6	3089.54
Co 228.615	51.7675	ppb	0.8362	1.6	766.341
Cr 267.716	105.502	ppb	2.0609	2.0	6761.52
Cu 324.754	107.482	ppb	1.5312	1.4	7589.75
Fe 271.441	5012.33	ppb	95.0570	1.9	10030.3
K 766.491	5044.18	ppb	90.2897	1.8	217188
Mg 279.078	5059.10	ppb	88.0462	1.7	15864.8
Mn 257.610	533.091	ppb	9.4648	1.8	145402
Mo 202.032	104.382	ppb	1.6643	1.6	921.951
Na 330.237	4554.13	ppb	36.8053	0.8	328.498
Ni 231.604	102.604	ppb	2.0573	2.0	414.940
Pb 220.353	52.2224	ppb	2.1596	4.1	125.961
Sb 206.834	51.3299	ppb	3.3497	6.5	86.2512
Se 196.026	107.527	ppb	4.1356	3.8	55.6580
Sn 189.925	200.774	ppb	2.3649	1.2	217.622
Sr 216.596	102.779	ppb	1.9157	1.9	1765.47
Ti 334.941	101.694	ppb	1.9043	1.9	30107.4
Tl 190.794	40.4910	ppb	1.8883	4.7	47.5132
V 292.401	103.394	ppb	1.8070	1.7	3244.94
Zn 206.200	101.614	ppb	1.2337	1.2	192.893

680-94499-g-2-a (Samp) **10/1/2013, 2:35:55 AM** **Rack 4, Tube 17**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.1521	-0.0219	-0.0442
Al 308.215	18.8392	17.3036	18.2901
As 188.980	2.3902	3.6685	0.6277
B 249.678	3.5685	3.4769	2.6167
Ba 389.178	184.363	183.412	184.151
Be 313.042	0.0117	0.0096	0.0122
Ca 370.602	796.0	796.6	798.5
Cd 226.502	0.0087	0.0806	0.2454
Co 228.615	0.9499	0.7367	1.2198
Cr 267.716	-0.3673	-0.6138	-0.4890

Label	Replicates Concentration		
Cu 324.754	0.2059	0.3517	0.4001
Fe 271.441	821.067	826.722	818.349
K 766.491	696.355	691.756	690.739
Mg 279.078	2047.65	2051.27	2066.91
Mn 257.610	7403.12	7412.94	7437.04
Mo 202.032	-0.2730u	0.3778	-0.0577u
Na 330.237	40098.6	40195.3	40285.7
Ni 231.604	0.0157	0.8450	0.5066
Pb 220.353	0.5454	0.0176	0.9289
Sb 206.834	3.6382	2.0589	-0.5474u
Se 196.026	-10.6172u	1.3063	1.8701
Sn 189.925	0.3841	2.5402	1.5764
Sr 216.596	8.4120	7.6099	7.9817
Ti 334.941	0.0536	0.1301	0.1231
Tl 190.794	5.6426	5.9841	7.6062
V 292.401	-0.3003u	0.0712	-0.2918u
Zn 206.200	32.6953	33.1810	32.9174

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0727	ppb	0.0696	95.8	13.3063
Al 308.215	18.1443	ppb	0.7781	4.3	66.4617
As 188.980	2.2288	ppb	1.5268	68.5	-5.7613
B 249.678	3.2207	ppb	0.5251	16.3	164.786
Ba 389.178	183.976	ppb	0.4996	0.3	4776.14
Be 313.042	0.0111	ppb	0.0014	12.6	-257.233
Ca 370.602	797.1	ppb	1.301	0.2	2662
Cd 226.502	0.1115	ppb	0.1213	108.8	26.4090
Co 228.615	0.9688	ppb	0.2421	25.0	7.2988
Cr 267.716	-0.4900	ppb	0.1233	25.2	32.4129
Cu 324.754	0.3192	ppb	0.1011	31.7	148.237
Fe 271.441	822.046	ppb	4.2717	0.5	1656.68
K 766.491	692.950	ppb	2.9921	0.4	30044.7
Mg 279.078	2055.28	ppb	10.2330	0.5	6294.45
Mn 257.610	7417.70	ppb	17.4534	0.2	2021840
Mo 202.032	0.0157	ppb	0.3315	2113.6	7.9380
Na 330.237	40193.2	ppb	93.5941	0.2	2585.05
Ni 231.604	0.4557	ppb	0.4170	91.5	-1.2276
Pb 220.353	0.4973	ppb	0.4576	92.0	16.3740
Sb 206.834	1.7166	ppb	2.1137	123.1	3.2790
Se 196.026	-2.4803	ppb	7.0524	284.3	1.8682
Sn 189.925	1.5002	ppb	1.0801	72.0	-11.4978
Sr 216.596	8.0012	ppb	0.4014	5.0	147.776
Ti 334.941	0.1023	ppb	0.0423	41.4	-37.0895
Tl 190.794	6.4109	ppb	1.0491	16.4	-8.7023
V 292.401	-0.1736	ppb	0.2120	122.1	-9.7353
Zn 206.200	32.9312	ppb	0.2431	0.7	67.0383

680-94499-g-2-aSD^5 (Samp) **10/1/2013, 2:40:33 AM** **Rack 4, Tube 18**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.1191	0.2439	0.0794
Al 308.215	2.2971	-0.1027u	2.7558
As 188.980	2.0827	1.1633	1.9890

Label	Replicates	Concentration	
B 249.678	0.8293	0.5999	1.0743
Ba 389.178	39.5619	39.0012	39.2448
Be 313.042	0.0027	-0.0017u	-0.0021u
Ca 370.602	167.9	168.8	177.1
Cd 226.502	-0.0449u	-0.0251u	-0.0690u
Co 228.615	0.4822	0.0418	0.0978
Cr 267.716	0.0101	0.0226	-0.1858u
Cu 324.754	0.2891	0.0974	0.1958
Fe 271.441	173.832	173.298	176.838
K 766.491	144.101	143.577	146.073
Mg 279.078	444.589	440.343	451.437
Mn 257.610	1641.65	1625.93	1644.74
Mo 202.032	0.0780	-0.1937u	-0.0615u
Na 330.237	8498.38	8305.21	8251.07
Ni 231.604	0.9824	-0.4521u	0.3694
Pb 220.353	2.3855	1.1823	1.9378
Sb 206.834	2.3299	0.2211	-0.2824u
Se 196.026	-2.5062u	2.8006	-4.0949u
Sn 189.925	-0.5834u	0.6530	0.6345
Sr 216.596	1.6822	1.7503	1.6137
Ti 334.941	0.0330	0.0434	0.0430
Tl 190.794	0.0187u	1.9825	-0.9547u
V 292.401	-0.0386u	-0.0558u	-0.0121u
Zn 206.200	6.1992	6.2779	7.1813

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1475	ppb	0.0859	58.2	1.5324
Al 308.215	1.6501	ppb	1.5352	93.0	-32.7792
As 188.980	1.7450	ppb	0.5059	29.0	-6.2210
B 249.678	0.8345	ppb	0.2372	28.4	118.819
Ba 389.178	39.2693	ppb	0.2811	0.7	1004.58
Be 313.042	-0.0004	ppb	0.0027	732.7	-276.144
Ca 370.602	171.3	ppb	5.046	2.9	569.7
Cd 226.502	-0.0463	ppb	0.0220	47.5	14.2768
Co 228.615	0.2073	ppb	0.2397	115.7	-4.1150
Cr 267.716	-0.0511	ppb	0.1169	228.9	26.3369
Cu 324.754	0.1941	ppb	0.0958	49.4	139.287
Fe 271.441	174.656	ppb	1.9087	1.1	364.226
K 766.491	144.584	ppb	1.3164	0.9	6459.85
Mg 279.078	445.457	ppb	5.5978	1.3	1389.42
Mn 257.610	1637.44	ppb	10.0900	0.6	446345
Mo 202.032	-0.0591	ppb	0.1359	230.0	7.3213
Na 330.237	8351.55	ppb	130.002	1.6	572.547
Ni 231.604	0.2999	ppb	0.7197	240.0	-1.8808
Pb 220.353	1.8352	ppb	0.6081	33.1	17.5861
Sb 206.834	0.7562	ppb	1.3859	183.3	1.6522
Se 196.026	-1.2668	ppb	3.6110	285.0	1.0250
Sn 189.925	0.2347	ppb	0.7086	301.9	-12.9699
Sr 216.596	1.6821	ppb	0.0683	4.1	39.0383
Ti 334.941	0.0398	ppb	0.0059	14.8	-60.4054
Tl 190.794	0.3488	ppb	1.4962	428.9	-13.7527
V 292.401	-0.0355	ppb	0.0220	62.1	-5.0683
Zn 206.200	6.5528	ppb	0.5457	8.3	18.5325

680-94499-g-2-a PDS (Samp) **10/1/2013, 2:45:11 AM** **Rack 4, Tube 19**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	32.4241	32.2478	32.4417
Al 308.215	1855.15	1855.29	1852.16
As 188.980	184.325	182.990	185.469
B 249.678	444.200	443.895	442.902
Ba 389.178	373.139	373.194	373.726
Be 313.042	47.5377	47.6059	47.5577
Ca 370.602	2512	2507	2508
Cd 226.502	47.0854	46.4844	46.6158
Co 228.615	190.575	188.633	189.106
Cr 267.716	189.461	189.531	189.643
Cu 324.754	197.262	196.567	197.028
Fe 271.441	2653.74	2642.48	2643.43
K 766.491	2642.17	2644.31	2645.21
Mg 279.078	3899.85	3890.54	3900.15
Mn 257.610	7554.34	7562.11	7540.12
Mo 202.032	191.274	192.684	192.264
Na 330.237	41996.6	41958.0	42082.3
Ni 231.604	185.776	185.617	186.561
Pb 220.353	182.555	185.309	182.261
Sb 206.834	180.727	185.946	180.257
Se 196.026	186.570	189.101	184.060
Sn 189.925	186.888	185.443	187.284
Sr 216.596	196.665	195.523	194.857
Ti 334.941	187.551	187.641	187.674
Tl 190.794	188.547	188.088	185.567
V 292.401	188.330	188.858	188.161
Zn 206.200	218.980	217.161	220.288

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	32.3712	ppb	0.1072	0.3	3014.68
Al 308.215	1854.20	ppb	1.7696	0.1	11084.9
As 188.980	184.261	ppb	1.2407	0.7	170.705
B 249.678	443.666	ppb	0.6785	0.2	8973.06
Ba 389.178	373.353	ppb	0.3242	0.1	9714.52
Be 313.042	47.5671	ppb	0.0351	0.1	104099
Ca 370.602	2509	ppb	2.848	0.1	8042
Cd 226.502	46.7285	ppb	0.3160	0.7	2825.98
Co 228.615	189.438	ppb	1.0129	0.5	2823.93
Cr 267.716	189.545	ppb	0.0918	0.0	12169.0
Cu 324.754	196.952	ppb	0.3537	0.2	13800.4
Fe 271.441	2646.55	ppb	6.2434	0.2	5329.46
K 766.491	2643.90	ppb	1.5605	0.1	113954
Mg 279.078	3896.85	ppb	5.4614	0.1	12058.8
Mn 257.610	7552.19	ppb	11.1513	0.1	2058522
Mo 202.032	192.074	ppb	0.7238	0.4	1690.30
Na 330.237	42012.3	ppb	63.6101	0.2	2695.17
Ni 231.604	185.985	ppb	0.5052	0.3	754.147
Pb 220.353	183.375	ppb	1.6810	0.9	410.259
Sb 206.834	182.310	ppb	3.1576	1.7	303.856
Se 196.026	186.577	ppb	2.5209	1.4	97.3006
Sn 189.925	186.538	ppb	0.9693	0.5	201.271
Sr 216.596	195.682	ppb	0.9141	0.5	3341.75

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ti 334.941	187.622	ppb	0.0635	0.0	55578.7
Tl 190.794	187.400	ppb	1.6042	0.9	265.646
V 292.401	188.450	ppb	0.3635	0.2	5916.96
Zn 206.200	218.810	ppb	1.5702	0.7	407.949

680-94499-g-2-b ms (Samp) **10/1/2013, 2:49:49 AM** **Rack 4, Tube 20**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	57.3954	57.9339	57.3372
Al 308.215	5107.41	5104.88	5117.06
As 188.980	109.189	106.311	103.149
B 249.678	196.862	197.617	197.176
Ba 389.178	290.801	291.028	290.262
Be 313.042	51.2633	51.2357	51.2531
Ca 370.602	5868	5849	5866
Cd 226.502	50.5721	50.5298	50.4821
Co 228.615	52.6745	52.2803	52.9838
Cr 267.716	103.722	103.932	103.606
Cu 324.754	106.344	106.289	107.469
Fe 271.441	5783.63	5766.92	5796.74
K 766.491	6065.46	6075.66	6077.53
Mg 279.078	7102.68	7110.44	7099.04
Mn 257.610	8071.49	8074.01	8066.07
Mo 202.032	103.915	103.211	103.625
Na 330.237	46326.8	46290.1	46376.9
Ni 231.604	102.262	101.968	99.4931
Pb 220.353	50.2738	50.5081	50.3574
Sb 206.834	49.9088	52.9925	53.8879
Se 196.026	95.1481	109.025	104.267
Sn 189.925	202.877	205.521	200.193
Sr 216.596	109.609	109.591	109.856
Ti 334.941	101.170	101.173	101.316
Tl 190.794	45.4562	47.5158	43.7911
V 292.401	101.899	102.433	102.110
Zn 206.200	134.057	136.106	135.274

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	57.5555	ppb	0.3290	0.6	5357.69
Al 308.215	5109.78	ppb	6.4283	0.1	30689.7
As 188.980	106.216	ppb	3.0213	2.8	95.0482
B 249.678	197.218	ppb	0.3791	0.2	4032.94
Ba 389.178	290.697	ppb	0.3935	0.1	7577.09
Be 313.042	51.2507	ppb	0.0139	0.0	112205
Ca 370.602	5861	ppb	10.26	0.2	18371
Cd 226.502	50.5280	ppb	0.0450	0.1	3067.85
Co 228.615	52.6462	ppb	0.3526	0.7	779.524
Cr 267.716	103.753	ppb	0.1652	0.2	6694.14
Cu 324.754	106.700	ppb	0.6661	0.6	7535.81
Fe 271.441	5782.43	ppb	14.9452	0.3	11567.7
K 766.491	6072.89	ppb	6.4974	0.1	261432
Mg 279.078	7104.06	ppb	5.8254	0.1	22091.9
Mn 257.610	8070.53	ppb	4.0565	0.1	2199841
Mo 202.032	103.584	ppb	0.3537	7.2	914.917

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Na 330.237	46331.3	ppb	43.5696	0.1	2969.02
Ni 231.604	101.241	ppb	1.5207	1.5	409.410
Pb 220.353	50.3797	ppb	0.1187	0.2	124.157
Sb 206.834	52.2631	ppb	2.0874	4.0	87.8430
Se 196.026	102.814	ppb	7.0519	6.9	55.1684
Sn 189.925	202.864	ppb	2.6642	1.3	220.047
Sr 216.596	109.685	ppb	0.1484	0.1	1884.47
Ti 334.941	101.220	ppb	0.0834	0.1	29972.6
Tl 190.794	45.5877	ppb	1.8658	4.1	49.8817
V 292.401	102.147	ppb	0.2693	0.3	3205.40
Zn 206.200	135.146	ppb	1.0304	0.8	254.556

680-94499-g-2-c msd (Samp) **10/1/2013, 2:54:27 AM** **Rack 4, Tube 21**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	57.2724	56.9424	56.9173
Al 308.215	5033.99	5014.39	5055.17
As 188.980	101.742	104.536	107.531
B 249.678	193.959	194.338	195.797
Ba 389.178	288.226	287.588	288.068
Be 313.042	50.9009	51.0361	50.9584
Ca 370.602	5790	5742	5813
Cd 226.502	49.6687	50.0008	50.1286
Co 228.615	52.3264	51.9135	51.9050
Cr 267.716	102.643	103.003	103.051
Cu 324.754	106.950	106.951	107.019
Fe 271.441	5825.07	5830.01	5843.21
K 766.491	6032.48	6016.52	6023.30
Mg 279.078	7039.69	7069.70	7059.39
Mn 257.610	7991.56	7986.71	8021.33
Mo 202.032	100.891	102.326	103.445
Na 330.237	45956.6	45594.9	45974.9
Ni 231.604	99.4984	100.203	100.065
Pb 220.353	48.8574	48.1505	51.2414
Sb 206.834	50.3539	51.1821	49.6869
Se 196.026	95.9518	98.9354	103.530
Sn 189.925	200.998	201.923	200.379
Sr 216.596	108.059	109.416	108.642
Ti 334.941	100.043	99.5436	100.040
Tl 190.794	43.8155	45.0569	44.8453
V 292.401	101.022	101.250	101.819
Zn 206.200	135.454	134.486	135.003

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	57.0440	ppb	0.1982	0.3	5309.96
Al 308.215	5034.52	ppb	20.3930	0.4	30236.9
As 188.980	104.603	ppb	2.8953	2.8	93.4828
B 249.678	194.698	ppb	0.9707	0.5	3982.37
Ba 389.178	287.961	ppb	0.3325	0.1	7505.80
Be 313.042	50.9651	ppb	0.0679	0.1	111579
Ca 370.602	5781	ppb	36.27	0.6	18114
Cd 226.502	49.9327	ppb	0.2374	0.5	3032.44
Co 228.615	52.0483	ppb	0.2409	0.5	770.607

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Cr 267.716	102.899	ppb	0.2228	0.2	6639.31
Cu 324.754	106.973	ppb	0.0395	0.0	7554.73
Fe 271.441	5832.76	ppb	9.3747	0.2	11668.1
K 766.491	6024.10	ppb	8.0134	0.1	259334
Mg 279.078	7056.26	ppb	15.2488	0.2	21943.4
Mn 257.610	7999.87	ppb	18.7458	0.2	2180581
Mo 202.032	102.221	ppb	1.2805	1.3	902.970
Na 330.237	45842.1	ppb	214.334	0.5	2938.07
Ni 231.604	99.9219	ppb	0.3732	0.4	404.039
Pb 220.353	49.4164	ppb	1.6195	3.3	122.074
Sb 206.834	50.4076	ppb	0.7490	1.5	84.7577
Se 196.026	99.4723	ppb	3.8174	3.8	53.4697
Sn 189.925	201.100	ppb	0.7772	0.4	218.019
Sr 216.596	108.706	ppb	0.6807	0.6	1867.89
Ti 334.941	99.8756	ppb	0.2875	0.3	29573.8
Tl 190.794	44.5725	ppb	0.6641	1.5	48.3751
V 292.401	101.363	ppb	0.4108	0.4	3180.83
Zn 206.200	134.981	ppb	0.4845	0.4	254.258

680-94572-c-4-a (Samp) **10/1/2013, 2:59:05 AM** **Rack 4, Tube 22**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	0.4814	0.5335	0.8444
Al 308.215	677.240	677.662	676.658
As 188.980	-2.3061u	-0.2566u	2.6873
B 249.678	8.6248	8.0519	8.0903
Ba 389.178	5.7258	5.7467	5.4609
Be 313.042	0.0194	0.0190	0.0218
Ca 370.602	7408	7435	7373
Cd 226.502	0.1137	0.1589	0.0982
Co 228.615	0.2791	-0.0016	0.3002
Cr 267.716	17.2000	17.2782	17.1775
Cu 324.754	8.7747	8.4796	8.9659
Fe 271.441	140.756	140.250	143.927
K 766.491	1371.76	1378.23	1376.96
Mg 279.078	215.670	216.897	214.292
Mn 257.610	4.5064	4.5169	4.4860
Mo 202.032	0.5980	1.1247	0.3803
Na 330.237	6318.64	6470.69	6391.97
Ni 231.604	15.5317	14.2194	14.6367
Pb 220.353	0.3109	1.0238	3.8993
Sb 206.834	1.2352	2.8998	2.8933
Se 196.026	10.1566	4.3072	4.1639
Sn 189.925	1.4197	-0.2310u	1.1969
Sr 216.596	49.3150	48.9190	49.2575
Ti 334.941	2.1155	2.1867	2.1985
Tl 190.794	-2.2033u	0.9004	-0.0123u
V 292.401	1.1663	0.8042	0.8832
Zn 206.200	5.4180	5.6918	4.9398

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.6198	ppb	0.1963	31.7	33.5064
Al 308.215	677.187	ppb	0.5041	0.1	4031.89

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	0.0415	ppb	2.5100	6043.7	-7.8629
B 249.678	8.2557	ppb	0.3202	3.9	267.418
Ba 389.178	5.6444	ppb	0.1593	2.8	128.811
Be 313.042	0.0201	ppb	0.0015	7.4	-227.672
Ca 370.602	7405	ppb	31.50	0.4	23427
Cd 226.502	0.1236	ppb	0.0315	25.5	24.3066
Co 228.615	0.1926	ppb	0.1685	87.5	-4.2259
Cr 267.716	17.2186	ppb	0.0529	0.3	1119.94
Cu 324.754	8.7401	ppb	0.2450	2.8	732.388
Fe 271.441	141.644	ppb	1.9929	1.4	298.374
K 766.491	1375.65	ppb	3.4276	0.2	59407.3
Mg 279.078	215.619	ppb	1.3032	0.6	708.022
Mn 257.610	4.5031	ppb	0.0157	0.3	1267.07
Mo 202.032	0.7010	ppb	0.3828	54.6	13.9812
Na 330.237	6393.77	ppb	76.0386	1.2	448.801
Ni 231.604	14.7959	ppb	0.6705	4.5	57.1817
Pb 220.353	1.7447	ppb	1.8997	108.9	16.9137
Sb 206.834	2.3428	ppb	0.9592	40.9	4.5331
Se 196.026	6.2092	ppb	3.4193	55.1	4.3863
Sn 189.925	0.7952	ppb	0.8957	112.6	-12.3222
Sr 216.596	49.1638	ppb	0.2140	0.4	849.347
Ti 334.941	2.1669	ppb	0.0449	2.1	569.518
Tl 190.794	-0.4384	ppb	1.5951	363.8	-13.7924
V 292.401	0.9513	ppb	0.1904	20.0	25.0430
Zn 206.200	5.3499	ppb	0.3806	7.1	16.2430

680-94591-r-2-b (Samp) **10/1/2013, 3:03:43 AM** **Rack 4, Tube 23**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.8562u	1.0159u	0.9328u
Al 308.215	6.2088	6.8990	7.6861
As 188.980	2.6936	0.8372	1.5650
B 249.678	506.003	507.736	511.578
Ba 389.178	72.4510	71.8583	72.9403
Be 313.042	-0.0025u	0.0059	-0.0048u
Ca 370.602	40006	40064	40340
Cd 226.502	-0.1499u	-0.0615u	-0.0920u
Co 228.615	0.4332	0.3585	-0.0839u
Cr 267.716	0.1001	0.3338	0.1170
Cu 324.754	0.0774	0.0449	0.3279
Fe 271.441	536.395	532.170	529.945
K 766.491	2590.82	2586.29	2604.73
Mg 279.078	48722.8	48593.3	48981.3
Mn 257.610	17.8247	17.8048	17.9440
Mo 202.032	55.6647	55.0477	56.0617
Na 330.237	38298.0	38193.3	38541.5
Ni 231.604	2.5165	2.6161	2.9215
Pb 220.353	2.4342	0.4654	0.3468
Sb 206.834	-1.2766u	1.6782	0.0518u
Se 196.026	-4.0924u	0.4705	1.0505
Sn 189.925	0.0588	-2.6743u	1.3067
Sr 216.596	2654.49	2650.76	2671.17
Ti 334.941	-0.4541	-0.4597	-0.4992

Label	Replicates	Concentration	
Tl 190.794	-1.1900u	-1.4553u	0.1070
V 292.401	0.0744u	0.3576	0.4965
Zn 206.200	2.3628	3.4596	2.3309

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.9349	ppb	0.0799	8.5	-81.8893
Al 308.215	6.9313	ppb	0.7392	10.7	1.8565
As 188.980	1.6986	ppb	0.9353	55.1	-6.2945
B 249.678	508.439	ppb	2.8531	0.6	10275.1
Ba 389.178	72.4166	ppb	0.5419	0.7	2010.31
Be 313.042	-0.0005	ppb	0.0057	1250.7	-276.247
Ca 370.602	40136	ppb	178.4	0.4	127002
Cd 226.502	-0.1011	ppb	0.0449	44.4	13.3438
Co 228.615	0.2359	ppb	0.2795	118.5	-5.6452
Cr 267.716	0.1837	ppb	0.1303	71.0	32.9236
Cu 324.754	0.1501	ppb	0.1549	103.2	138.489
Fe 271.441	532.836	ppb	3.2763	0.6	1079.30
K 766.491	2593.95	ppb	9.6107	0.4	111805
Mg 279.078	48765.8	ppb	197.503	0.4	152768
Mn 257.610	17.8578	ppb	0.0753	0.4	5376.13
Mo 202.032	55.5914	ppb	0.5110	0.9	494.934
Na 330.237	38344.3	ppb	178.629	0.5	2468.81
Ni 231.604	2.6847	ppb	0.2110	7.9	7.8478
Pb 220.353	1.0821	ppb	1.1724	108.3	15.4477
Sb 206.834	0.1511	ppb	1.4799	979.4	-0.5039
Se 196.026	-0.8572	ppb	2.8168	328.6	0.8260
Sn 189.925	-0.4363	ppb	2.0361	466.7	-13.7027
Sr 216.596	2658.81	ppb	10.8684	0.4	45349.3
Ti 334.941	-0.4710	ppb	0.0246	5.2	17.0182
Tl 190.794	-0.8461	ppb	0.8360	98.8	-14.4947
V 292.401	0.3095	ppb	0.2151	69.5	-4.4958
Zn 206.200	2.7178	ppb	0.6426	23.6	11.4857

680-94591-r-3-b (Samp) **10/1/2013, 3:08:20 AM** **Rack 4, Tube 24**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	2.2306u	1.9176u	1.8734u
Al 308.215	27.5681	26.5885	26.9067
As 188.980	3.4009	4.2533	0.6021
B 249.678	424.934	426.658	426.325
Ba 389.178	20.0727	19.6306	19.1509
Be 313.042	-0.0135u	-0.0131u	-0.0091
Ca 370.602	106645	107038	106843
Cd 226.502	-0.0348u	-0.0251	-0.1113u
Co 228.615	1.7093	0.8297	0.8286
Cr 267.716	0.2161	0.1979	0.0745
Cu 324.754	1.2220	1.0041	1.0184
Fe 271.441	48.2121	48.7760	37.0467
K 766.491	3664.81	3642.60	3648.09
Mg 279.078	113663	113648	113190
Mn 257.610	54.9659	54.9552	54.8888
Mo 202.032	25.0751	25.3880	24.1190
Na 330.237	47667.3	47449.0	47518.5

Label	Replicates Concentration		
Ni 231.604	5.3962	5.1694	4.9650
Pb 220.353	1.2013	0.4208	0.8285
Sb 206.834	-1.5307u	2.4972	-1.2245u
Se 196.026	-10.0058u	-1.8630u	-8.2019u
Sn 189.925	2.3849	-2.8567u	0.1717
Sr 216.596	6378.28x	6374.77x	6344.87x
Ti 334.941	-0.9013	-0.9809	-0.9911
Tl 190.794	-0.3516u	-0.6022u	-2.9901u
V 292.401	0.6453	0.5938	0.6771
Zn 206.200	1.1603	3.5561	2.8472

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	2.0072b	ppb	0.1948	9.7	-186.475
Al 308.215	27.0211b	ppb	0.4997	1.8	121.025
As 188.980	2.7521b	ppb	1.9101	69.4	-5.2522
B 249.678	425.972b	ppb	0.9144	0.2	8626.27
Ba 389.178	19.6181b	ppb	0.4610	2.4	825.669
Be 313.042	-0.0119b	ppb	0.0025	20.7	-273.305
Ca 370.602	106842b	ppb	196.7	0.2	338194
Cd 226.502	-0.0571b	ppb	0.0472	82.7	14.9700
Co 228.615	1.1225b	ppb	0.5081	45.3	8.6994
Cr 267.716	0.1628b	ppb	0.0771	47.3	31.8903
Cu 324.754	1.0815b	ppb	0.1219	11.3	201.757
Fe 271.441	44.6783b	ppb	6.6152	14.8	104.932
K 766.491	3651.83b	ppb	11.5648	0.3	157304
Mg 279.078	113500b	ppb	268.707	0.2	355517
Mn 257.610	54.9366b	ppb	0.0418	0.1	16104.8
Mo 202.032	24.8607b	ppb	0.6611	2.7	225.686
Na 330.237	47544.9b	ppb	111.493	0.2	3050.70
Ni 231.604	5.1769b	ppb	0.2157	4.2	17.9834
Pb 220.353	0.8169b	ppb	0.3904	47.8	14.8940
Sb 206.834	-0.0860b	ppb	2.2423	2607.9	-0.2756
Se 196.026	-6.6902b	ppb	4.2767	63.9	-2.1091
Sn 189.925	-0.1000b	ppb	2.6313	2631.3	-13.2727
Sr 216.596	6365.97xb	ppb	18.3642	0.3	108568
Ti 334.941	-0.9577b	ppb	0.0492	5.1	181.688
Tl 190.794	-1.3146b	ppb	1.4564	110.8	-15.1592
V 292.401	0.6387b	ppb	0.0420	6.6	12.6892
Zn 206.200	2.5212b	ppb	1.2307	48.8	11.1182

Cont Calib Verif (CCV) **10/1/2013, 3:12:59 AM** **Rack 4, Tube 25**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	480.979	482.561	482.525
Al 308.215	4860.67	4819.57	4846.34
As 188.980	474.206	479.146	481.511
B 249.678	484.942	486.452	485.182
Ba 389.178	4916.12	4892.55	4904.66
Be 313.042	501.184	496.376	497.280
Ca 370.602	5004	4956	4996
Cd 226.502	492.801	491.176	492.900
Co 228.615	494.499	494.090	494.486
Cr 267.716	5032.99	5032.21	5020.05

Label	Replicates Concentration		
Cu 324.754	5112.99	5062.08	5067.99
Fe 271.441	4782.84	4782.19	4780.57
K 766.491	10145.2	10137.0	10112.9
Mg 279.078	4954.71	4957.66	4942.98
Mn 257.610	5066.30	5017.34	5043.61
Mo 202.032	501.193	500.470	501.033
Na 330.237	6970.93	7040.52	6947.14
Ni 231.604	2467.67	2461.91	2472.49
Pb 220.353	489.144	489.886	493.276
Sb 206.834	995.906	982.906	996.072
Se 196.026	5041.09	5023.63	5062.63
Sn 189.925	4947.38	4977.76	4951.36
Sr 216.596	2524.98	2521.19	2521.21
Ti 334.941	483.451	480.776	481.641
Tl 190.794	5012.28	5010.03	5002.27
V 292.401	4920.19	4913.12	4905.25
Zn 206.200	2484.25	2485.30	2488.54

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	482.021	ppb	0.9029	0.2	44619.3	96.40429
Al 308.215	4842.19	ppb	20.8647	0.4	28276.5	96.84386
As 188.980	478.288	ppb	3.7272	0.8	455.757	95.65757
B 249.678	485.525	ppb	0.8117	0.2	9804.60	97.10502
Ba 389.178	4904.44	ppb	11.7881	0.2	127655	98.08884
Be 313.042	498.280	ppb	2.5554	0.5	1093286	99.65596
Ca 370.602	4985	ppb	26.19	0.5	15840	99.70781
Cd 226.502	492.292	ppb	0.9676	0.2	29513.4	98.45846
Co 228.615	494.358	ppb	0.2325	0.0	7395.73	98.87169
Cr 267.716	5028.42	ppb	7.2591	0.1	321152	100.56836
Cu 324.754	5081.02	ppb	27.8455	0.5	352710	101.62040
Fe 271.441	4781.87	ppb	1.1716	0.0	9689.52	95.63731
K 766.491	10131.7	ppb	16.7910	0.2	435998	101.31696
Mg 279.078	4951.78	ppb	7.7636	0.2	15422.1	99.03567
Mn 257.610	5042.42	ppb	24.5048	0.5	1374471	100.84832
Mo 202.032	500.899	ppb	0.3798	0.1	4385.46	100.17976
Na 330.237	6986.20	ppb	48.5255	0.7	437.633	93.14928
Ni 231.604	2467.36	ppb	5.2996	0.2	10048.5	98.69427
Pb 220.353	490.769	ppb	2.2030	0.4	1071.53	98.15372
Sb 206.834	991.628	ppb	7.5539	0.8	1725.20	99.16282
Se 196.026	5042.45	ppb	19.5343	0.4	2546.79	100.84908
Sn 189.925	4958.83	ppb	16.5094	0.3	5688.70	99.17666
Sr 216.596	2522.46	ppb	2.1834	0.1	42950.0	100.89829
Ti 334.941	481.956	ppb	1.3650	0.3	142869	96.39125
Tl 190.794	5008.19	ppb	5.2537	0.1	7564.06	100.16386
V 292.401	4912.85	ppb	7.4704	0.2	155150	98.25709
Zn 206.200	2486.03	ppb	2.2354	0.1	4554.51	99.44129

Cont Calib Blank (CCB) **10/1/2013, 3:17:37 AM** **Rack 4, Tube 26**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.2319	0.2565	0.0304
Al 308.215	-0.9010u	0.7721	-1.9501u
As 188.980	2.9951	5.6339	-1.0388u

Label	Replicates Concentration		
B 249.678	2.4605	2.3056	1.6809
Ba 389.178	0.4133	1.1177	1.0297
Be 313.042	0.0079	0.0101	0.0099
Ca 370.602	3.279	1.502	3.448
Cd 226.502	-0.0919u	0.0178	-0.1897u
Co 228.615	-0.1049u	0.2319	0.6107
Cr 267.716	0.1517	0.0839	0.0320
Cu 324.754	-0.7717u	-0.0660u	-0.5675u
Fe 271.441	-3.4997u	-0.9013u	1.3241
K 766.491	1.4095	1.5805	1.6211
Mg 279.078	0.7480	1.9561	1.1097
Mn 257.610	0.0606	0.0474	0.1358
Mo 202.032	0.2899	-0.1312u	0.0508
Na 330.237	-30.5369u	52.4385	-106.648u
Ni 231.604	-0.2580u	0.4494	0.7862
Pb 220.353	2.0299	-0.2294u	-1.2553u
Sb 206.834	3.7739	0.7371	3.6227
Se 196.026	10.8209	-1.5035u	6.5979
Sn 189.925	2.4058	-0.1893u	0.8471
Sr 216.596	0.0041	-0.4624u	0.2410
Ti 334.941	0.0774	0.1275	0.0946
Tl 190.794	4.0528	1.0265	0.0094
V 292.401	-0.1035u	-0.2280u	0.0315
Zn 206.200	0.0492	-0.6028u	0.1859

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.1729	ppb	0.1241	71.8	-5.2318	0.17294
Al 308.215	-0.6930	ppb	1.3730	198.1	-46.8708	-0.69300
As 188.980	2.5300	ppb	3.3606	132.8	-5.4570	2.53003
B 249.678	2.1490	ppb	0.4127	19.2	145.606	2.14900
Ba 389.178	0.8536	ppb	0.3838	45.0	3.2715	0.85359
Be 313.042	0.0093	ppb	0.0012	13.2	-253.227	0.00930
Ca 370.602	2.743	ppb	1.078	39.3	4.065	2.74295
Cd 226.502	-0.0880	ppb	0.1038	118.0	11.0538	-0.08796
Co 228.615	0.2459	ppb	0.3580	145.6	-3.5438	0.24592
Cr 267.716	0.0892	ppb	0.0600	67.3	25.6469	0.08921
Cu 324.754	-0.4684	ppb	0.3631	77.5	93.2365	-0.46841
Fe 271.441	-1.0256	ppb	2.4143	235.4	13.5298	-1.02563
K 766.491	1.5370	ppb	0.1123	7.3	307.511	1.53704
Mg 279.078	1.2712	ppb	0.6201	48.8	37.0328	1.27123
Mn 257.610	0.0812	ppb	0.0477	58.7	59.2535	0.08124
Mo 202.032	0.0698	ppb	0.2112	302.5	8.4614	0.06982
Na 330.237	-28.2489	ppb	79.5680	281.7	42.9143	-28.24889
Ni 231.604	0.3259	ppb	0.5329	163.5	-1.7806	0.32588
Pb 220.353	0.1817	ppb	1.6808	924.8	13.5480	0.18175
Sb 206.834	2.7112	ppb	1.7113	63.1	4.9045	2.71124
Se 196.026	5.3051	ppb	6.2631	118.1	3.9285	5.30509
Sn 189.925	1.0212	ppb	1.3063	127.9	-12.0701	1.02119
Sr 216.596	-0.0724	ppb	0.3579	494.1	8.8575	-0.07244
Ti 334.941	0.0998	ppb	0.0254	25.5	-43.9677	0.09980
Tl 190.794	1.6962	ppb	2.1032	124.0	-10.5469	1.69624
V 292.401	-0.1000	ppb	0.1298	129.8	-7.0338	-0.10000
Zn 206.200	-0.1226	ppb	0.4215	343.9	6.2573	-0.12256

680-94591-r-4-b (Samp) **10/1/2013, 3:22:15 AM** **Rack 4, Tube 27**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.9003u	0.7737u	0.9750u
Al 308.215	9.0482	8.8239	7.5191
As 188.980	0.8912	2.1555	0.6885
B 249.678	531.735	533.885	533.073
Ba 389.178	75.5025	75.5407	75.2261
Be 313.042	0.0128	0.0088	-0.0015u
Ca 370.602	42497	42541	42519
Cd 226.502	-0.1877u	-0.0657u	-0.0546u
Co 228.615	0.4000	0.5205	0.1568
Cr 267.716	0.0034	0.2602	0.1675
Cu 324.754	-0.2075u	-0.3727u	-0.3498u
Fe 271.441	561.680	559.478	561.616
K 766.491	2679.93	2688.11	2689.28
Mg 279.078	50789.8	50667.0	50724.0
Mn 257.610	19.0289	19.0182	19.0238
Mo 202.032	57.8333	58.1518	58.4529
Na 330.237	39648.7	39838.5	39871.1
Ni 231.604	3.0474	2.6048	3.4522
Pb 220.353	2.4897	0.6539	0.4301
Sb 206.834	0.1959u	0.4527u	0.1887u
Se 196.026	0.5600	1.0228	-4.1596u
Sn 189.925	0.9913	-0.7211u	2.5683
Sr 216.596	2778.06	2768.25	2769.35
Ti 334.941	-0.5179	-0.5474	-0.5105
Tl 190.794	2.0293	1.6832	-1.6505u
V 292.401	-0.0774u	0.2401u	0.3716
Zn 206.200	1.8282	3.2349	4.1060

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.8830	ppb	0.1018	11.5	-90.3888
Al 308.215	8.4637	ppb	0.8257	9.8	11.1953
As 188.980	1.2451	ppb	0.7949	63.8	-6.7355
B 249.678	532.898	ppb	1.0858	0.2	10764.4
Ba 389.178	75.4231	ppb	0.1716	0.2	2094.47
Be 313.042	0.0067	ppb	0.0074	110.1	-260.637
Ca 370.602	42519	ppb	22.12	0.1	134542
Cd 226.502	-0.1027	ppb	0.0738	71.9	13.3941
Co 228.615	0.3591	ppb	0.1852	51.6	-3.8758
Cr 267.716	0.1437	ppb	0.1300	90.5	30.4239
Cu 324.754	-0.3100	ppb	0.0895	28.9	106.647
Fe 271.441	560.925	ppb	1.2531	0.2	1135.39
K 766.491	2685.77	ppb	5.0911	0.2	115755
Mg 279.078	50726.9	ppb	61.4908	0.1	158910
Mn 257.610	19.0236	ppb	0.0054	0.0	5713.18
Mo 202.032	58.1460	ppb	0.3098	0.5	517.317
Na 330.237	39786.1	ppb	120.094	0.3	2559.96
Ni 231.604	3.0348	ppb	0.4238	14.0	9.2747
Pb 220.353	1.1912	ppb	1.1301	94.9	15.6821
Sb 206.834	0.2791	ppb	0.1504	53.9	-0.3319
Se 196.026	-0.8589	ppb	2.8678	333.9	0.8254
Sn 189.925	0.9462	ppb	1.6451	173.9	-12.1115
Sr 216.596	2771.89	ppb	5.3748	0.2	47277.6

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ti 334.941	-0.5253	ppb	0.0195	3.7	10.3489
Tl 190.794	0.6873	ppb	2.0320	295.6	-12.1792
V 292.401	0.1781	ppb	0.2308	129.6	-9.0247
Zn 206.200	3.0564	ppb	1.1494	37.6	12.1087

680-94644-b-1-a (Samp) **10/1/2013, 3:26:54 AM** **Rack 4, Tube 28**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.2433u	-0.2054u	0.0852
Al 308.215	4.2183	3.6036	5.2973
As 188.980	4.3083	0.5312	2.1097
B 249.678	19.6353	18.2992	18.5612
Ba 389.178	17.6448	16.7950	16.3838
Be 313.042	0.0017	0.0038	0.0062
Ca 370.602	14462	14468	14554
Cd 226.502	0.0785	0.0363	-0.0360u
Co 228.615	-0.0452u	0.4447	0.1373
Cr 267.716	0.1072	0.0643	0.3041
Cu 324.754	0.3361	0.5688	0.5715
Fe 271.441	18.5546	19.7439	15.7879
K 766.491	1648.24	1649.51	1650.76
Mg 279.078	3541.89	3534.17	3528.51
Mn 257.610	0.3614	0.3266	0.3343
Mo 202.032	1.0289	0.4590	-0.1486u
Na 330.237	5086.06	5106.81	5094.08
Ni 231.604	0.8274	0.5150	1.9347
Pb 220.353	-1.2202u	1.8955	0.9751
Sb 206.834	4.5809	3.6538	0.8142
Se 196.026	-3.0041u	5.2282	-2.0856u
Sn 189.925	1.2999	0.1968	-1.8085u
Sr 216.596	54.4994	54.4652	54.3828
Ti 334.941	0.1755	0.1549	0.1422
Tl 190.794	-0.8908u	0.3998	-2.3399u
V 292.401	0.5873	0.8578	0.8141
Zn 206.200	1.2770	2.5016	1.2686

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1211	ppb	0.1797	148.4	-35.5540
Al 308.215	4.3731	ppb	0.8574	19.6	-16.5072
As 188.980	2.3164	ppb	1.8970	81.9	-5.6645
B 249.678	18.8319	ppb	0.7080	3.8	479.393
Ba 389.178	16.9412	ppb	0.6431	3.8	432.371
Be 313.042	0.0039	ppb	0.0023	58.5	-260.506
Ca 370.602	14495	ppb	51.09	0.4	45876
Cd 226.502	0.0262	ppb	0.0579	220.7	17.9914
Co 228.615	0.1789	ppb	0.2476	138.4	-4.5550
Cr 267.716	0.1585	ppb	0.1279	80.7	30.1990
Cu 324.754	0.4921	ppb	0.1351	27.5	159.912
Fe 271.441	18.0288	ppb	2.0297	11.3	51.5648
K 766.491	1649.50	ppb	1.2636	0.1	71185.4
Mg 279.078	3534.86	ppb	6.7119	0.2	11104.3
Mn 257.610	0.3408	ppb	0.0183	5.4	164.251
Mo 202.032	0.4464	ppb	0.5889	131.9	11.7583

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Na 330.237	5095.65	ppb	10.4623	0.2	366.847
Ni 231.604	1.0924	ppb	0.7460	68.3	1.3432
Pb 220.353	0.5501	ppb	1.6007	291.0	14.3430
Sb 206.834	3.0163	ppb	1.9626	65.1	5.4049
Se 196.026	0.0462	ppb	4.5112	9770.8	1.2752
Sn 189.925	-0.1039	ppb	1.5759	1516.5	-13.3529
Sr 216.596	54.4491	ppb	0.0599	0.1	940.746
Ti 334.941	0.1575	ppb	0.0168	10.7	-10.3803
Tl 190.794	-0.9436	ppb	1.3706	145.3	-14.5419
V 292.401	0.7531	ppb	0.1452	19.3	19.8903
Zn 206.200	1.6824	ppb	0.7094	42.2	9.5757

680-94644-b-3-a (Samp) **10/1/2013, 3:31:32 AM** **Rack 4, Tube 29**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.0030u	0.0819	0.1735
Al 308.215	3.4862	2.5165	3.4165
As 188.980	-0.7053u	2.5888	1.7778
B 249.678	17.2728	17.6675	17.2344
Ba 389.178	17.1778	17.5185	17.1336
Be 313.042	0.0032	0.0049	0.0091
Ca 370.602	14341	14300	14201
Cd 226.502	-0.0896u	-0.0519u	-0.0075u
Co 228.615	0.3794	0.3789	-0.0195u
Cr 267.716	0.1498	-0.1091u	0.0278
Cu 324.754	0.7788	0.3497	0.2585
Fe 271.441	1.8946	2.5796	6.5635
K 766.491	1728.06	1732.88	1728.59
Mg 279.078	3525.07	3515.95	3513.25
Mn 257.610	0.3726	0.3789	0.3726
Mo 202.032	0.6413	0.2972	0.4814
Na 330.237	5044.25	5083.05	5134.97
Ni 231.604	0.5822	0.5733	0.3507
Pb 220.353	-0.3484u	-0.8801u	0.6181
Sb 206.834	4.9666	2.5071	3.9294
Se 196.026	-1.4297u	0.2616	6.6802
Sn 189.925	2.6280	2.0289	-1.1165u
Sr 216.596	54.6570	54.3598	54.9453
Ti 334.941	0.1154	0.0917	0.1546
Tl 190.794	-2.0355u	-3.3660u	-2.9558u
V 292.401	0.8353	0.8308	0.8451
Zn 206.200	1.4119	2.1690	2.3600

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0861	ppb	0.0853	99.0	-16.3592
Al 308.215	3.1397	ppb	0.5409	17.2	-23.9455
As 188.980	1.2204	ppb	1.7163	140.6	-6.7272
B 249.678	17.3916	ppb	0.2397	1.4	450.614
Ba 389.178	17.2767	ppb	0.2106	1.2	441.030
Be 313.042	0.0058	ppb	0.0030	52.8	-256.399
Ca 370.602	14280	ppb	71.71	0.5	45199
Cd 226.502	-0.0497	ppb	0.0411	82.7	13.3772
Co 228.615	0.2463	ppb	0.2302	93.2	-3.5512

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Cr 267.716	0.0228	ppb	0.1295	567.4	21.5266
Cu 324.754	0.4624	ppb	0.2778	60.1	157.837
Fe 271.441	3.6792	ppb	2.5212	68.5	22.9296
K 766.491	1729.84	ppb	2.6418	0.2	74640.6
Mg 279.078	3518.09	ppb	6.1963	0.2	11051.8
Mn 257.610	0.3747	ppb	0.0036	1.0	173.296
Mo 202.032	0.4733	ppb	0.1722	36.4	11.9944
Na 330.237	5087.42	ppb	45.5135	0.9	366.325
Ni 231.604	0.5020	ppb	0.1312	26.1	-1.0629
Pb 220.353	-0.2035	ppb	0.7595	373.3	12.7169
Sb 206.834	3.8011	ppb	1.2348	32.5	6.7111
Se 196.026	1.8374	ppb	4.2784	232.9	2.1789
Sn 189.925	1.1802	ppb	2.0114	170.4	-11.8765
Sr 216.596	54.6540	ppb	0.2928	0.5	944.221
Ti 334.941	0.1206	ppb	0.0318	26.3	-21.4129
Tl 190.794	-2.7858	ppb	0.6814	24.5	-17.3266
V 292.401	0.8371	ppb	0.0073	0.9	22.5596
Zn 206.200	1.9803	ppb	0.5014	25.3	10.1239

680-94644-b-5-a (Samp) **10/1/2013, 3:36:10 AM** **Rack 4, Tube 30**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.2399	0.0127u	0.1713
Al 308.215	5.2302	4.0138	5.2387
As 188.980	-1.0539u	1.7811	-2.5158u
B 249.678	17.0590	17.3195	17.7383
Ba 389.178	17.3625	17.2150	16.9033
Be 313.042	-0.0011	0.0030	0.0023
Ca 370.602	14606	14574	14587
Cd 226.502	-0.1668u	0.0178	-0.0415u
Co 228.615	-0.0651u	0.8489	0.0913
Cr 267.716	-0.0072u	0.2194	0.0514
Cu 324.754	0.9407	0.9541	1.3260
Fe 271.441	9.2615	7.1387	7.2111
K 766.491	1663.99	1668.76	1666.05
Mg 279.078	3545.44	3538.27	3548.95
Mn 257.610	0.3351	0.3148	0.3228
Mo 202.032	0.3654	0.8233	0.6881
Na 330.237	5201.26	5099.35	5170.99
Ni 231.604	0.3133	0.8001	1.4724
Pb 220.353	-0.9895u	2.2469	1.2394
Sb 206.834	0.7630	6.8096	-0.5874u
Se 196.026	-0.6545u	3.4834	-1.8216u
Sn 189.925	-3.7911u	0.4024	-0.3881u
Sr 216.596	55.0457	54.6582	54.4660
Ti 334.941	0.1232	0.1430	0.1088
Tl 190.794	0.9308	-0.0025u	-1.7380u
V 292.401	0.7114	0.7073	1.1499
Zn 206.200	1.8404	1.7396	1.6421

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1413	ppb	0.1166	82.5	-11.2277
Al 308.215	4.8276	ppb	0.7048	14.6	-13.7867

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	-0.5962	ppb	2.1847	366.5	-8.4892
B 249.678	17.3723	ppb	0.3427	2.0	450.218
Ba 389.178	17.1602	ppb	0.2344	1.4	438.090
Be 313.042	0.0014	ppb	0.0022	152.7	-265.949
Ca 370.602	14589	ppb	16.26	0.1	46175
Cd 226.502	-0.0635	ppb	0.0942	148.5	12.5671
Co 228.615	0.2917	ppb	0.4889	167.6	-2.8752
Cr 267.716	0.0879	ppb	0.1176	133.8	25.6836
Cu 324.754	1.0736	ppb	0.2187	20.4	200.266
Fe 271.441	7.8704	ppb	1.2053	15.3	31.3037
K 766.491	1666.27	ppb	2.3967	0.1	71906.3
Mg 279.078	3544.22	ppb	5.4435	0.2	11133.6
Mn 257.610	0.3242	ppb	0.0102	3.2	159.822
Mo 202.032	0.6256	ppb	0.2352	37.6	13.3288
Na 330.237	5157.20	ppb	52.3320	1.0	370.739
Ni 231.604	0.8619	ppb	0.5821	67.5	0.4035
Pb 220.353	0.8323	ppb	1.6562	199.0	14.9499
Sb 206.834	2.3284	ppb	3.9392	169.2	4.2529
Se 196.026	0.3358	ppb	2.7877	830.2	1.4213
Sn 189.925	-1.2589	ppb	2.2283	177.0	-14.6810
Sr 216.596	54.7233	ppb	0.2953	0.5	945.414
Ti 334.941	0.1250	ppb	0.0172	13.7	-19.9796
Tl 190.794	-0.2699	ppb	1.3543	501.8	-13.5212
V 292.401	0.8562	ppb	0.2543	29.7	23.1308
Zn 206.200	1.7407	ppb	0.0992	5.7	9.6831

680-94644-b-22-a (Samp) **10/1/2013, 3:40:48 AM** **Rack 4, Tube 31**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.0742u	-0.0612u	-0.2137u
Al 308.215	1.8286	4.6333	4.1377
As 188.980	1.8959	0.7049	-1.0983u
B 249.678	17.5063	17.5183	17.8987
Ba 389.178	19.8506	20.2350	19.3460
Be 313.042	-0.0005	0.0023	0.0040
Ca 370.602	16578	16465	16440
Cd 226.502	-0.0199u	-0.1903u	-0.0716u
Co 228.615	0.3558	0.9724	-0.2293u
Cr 267.716	0.2110	0.1455	0.3247
Cu 324.754	2.9963	3.0362	2.9896
Fe 271.441	14.9159	8.9192	9.1109
K 766.491	1656.61	1638.99	1636.15
Mg 279.078	3664.23	3617.72	3610.02
Mn 257.610	9.4401	9.2473	9.2997
Mo 202.032	0.3436	0.6662	0.3446
Na 330.237	4934.64	4927.44	5030.73
Ni 231.604	0.4988	1.9822	0.6762
Pb 220.353	1.4227	-0.7645u	1.8032
Sb 206.834	1.7504	0.4456	-1.7926u
Se 196.026	1.4400	0.1222	6.9805
Sn 189.925	-0.2653u	1.3297	-0.5629u
Sr 216.596	65.2303	64.6001	63.9369
Ti 334.941	0.1510	0.1077	0.1196

Label	Replicates Concentration		
Tl 190.794	0.1878	-3.8688u	-1.1974u
V 292.401	0.6264	0.7214	0.3326
Zn 206.200	2.1151	2.5953	3.2954

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1164	ppb	0.0845	72.6	-35.6115
Al 308.215	3.5332	ppb	1.4969	42.4	-21.5344
As 188.980	0.5008	ppb	1.5075	301.0	-7.4252
B 249.678	17.6411	ppb	0.2232	1.3	455.595
Ba 389.178	19.8105	ppb	0.4459	2.3	507.324
Be 313.042	0.0019	ppb	0.0023	120.3	-264.109
Ca 370.602	16495	ppb	73.67	0.4	52208
Cd 226.502	-0.0939	ppb	0.0874	93.0	10.7523
Co 228.615	0.3663	ppb	0.6009	164.0	-1.7559
Cr 267.716	0.2271	ppb	0.0907	39.9	34.6257
Cu 324.754	3.0073	ppb	0.0252	0.8	334.469
Fe 271.441	10.9820	ppb	3.4082	31.0	37.5235
K 766.491	1643.92	ppb	11.0847	0.7	70945.1
Mg 279.078	3630.66	ppb	29.3304	0.8	11404.1
Mn 257.610	9.3290	ppb	0.0997	1.1	2615.07
Mo 202.032	0.4515	ppb	0.1860	41.2	11.8038
Na 330.237	4964.27	ppb	57.6655	1.2	358.524
Ni 231.604	1.0524	ppb	0.8101	77.0	1.1795
Pb 220.353	0.8205	ppb	1.3858	168.9	14.9272
Sb 206.834	0.1345	ppb	1.7919	1332.4	0.6011
Se 196.026	2.8476	ppb	3.6394	127.8	2.6909
Sn 189.925	0.1672	ppb	1.0177	608.8	-13.0401
Sr 216.596	64.5891	ppb	0.6468	1.0	1113.92
Ti 334.941	0.1261	ppb	0.0224	17.7	-19.2039
Tl 190.794	-1.6261	ppb	2.0620	126.8	-15.5787
V 292.401	0.5601	ppb	0.2027	36.2	13.7791
Zn 206.200	2.6686	ppb	0.5935	22.2	11.3884

680-94644-b-24-a (Samp) **10/1/2013, 3:45:27 AM** **Rack 4, Tube 32**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.0346u	0.0451	0.4157
Al 308.215	4.2289	4.1207	5.4902
As 188.980	0.7982	-0.0485u	0.7703
B 249.678	17.1800	17.4294	17.3312
Ba 389.178	18.7683	19.3296	18.8773
Be 313.042	0.0061	0.0071	0.0046
Ca 370.602	15828	15850	15897
Cd 226.502	-0.0161u	0.0428	-0.1206u
Co 228.615	-0.0830u	-0.1715u	-0.1279u
Cr 267.716	0.0683	0.0258	-0.1170u
Cu 324.754	3.0279	2.9464	2.8241
Fe 271.441	4.8364	3.0787	7.1854
K 766.491	1660.94	1653.70	1644.23
Mg 279.078	3625.89	3638.21	3629.65
Mn 257.610	1.6741	1.6718	1.6759
Mo 202.032	1.0395	0.8998	0.3521
Na 330.237	4946.78	5038.35	5071.30

Label	Replicates	Concentration	
Ni 231.604	1.0545	0.9515	0.8636
Pb 220.353	1.0709	1.7785	0.5729
Sb 206.834	2.5618	2.2453	0.7331
Se 196.026	2.3309	2.6078	5.5737
Sn 189.925	-2.7559u	1.8481	1.5426
Sr 216.596	61.9784	61.8733	62.1155
Ti 334.941	0.1042	0.1544	0.1579
Tl 190.794	-0.4107u	0.9265	-2.3830u
V 292.401	0.8110	0.6131	0.2012
Zn 206.200	0.7801	1.3969	2.7724

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1421	ppb	0.2403	169.2	-11.5636
Al 308.215	4.6132	ppb	0.7614	16.5	-14.9941
As 188.980	0.5067	ppb	0.4810	94.9	-7.4197
B 249.678	17.3135	ppb	0.1256	0.7	449.050
Ba 389.178	18.9917	ppb	0.2976	1.6	485.992
Be 313.042	0.0059	ppb	0.0013	21.4	-255.515
Ca 370.602	15859	ppb	35.08	0.2	50194
Cd 226.502	-0.0313	ppb	0.0828	264.4	14.4852
Co 228.615	-0.1275	ppb	0.0442	34.7	-9.1490
Cr 267.716	-0.0076	ppb	0.0971	1270.9	19.5911
Cu 324.754	2.9328	ppb	0.1026	3.5	329.309
Fe 271.441	5.0335	ppb	2.0604	40.9	25.5754
K 766.491	1652.96	ppb	8.3800	0.5	71333.9
Mg 279.078	3631.25	ppb	6.3177	0.2	11406.1
Mn 257.610	1.6739	ppb	0.0020	0.1	528.503
Mo 202.032	0.7638	ppb	0.3633	47.6	14.5408
Na 330.237	5018.81	ppb	64.5211	1.3	361.988
Ni 231.604	0.9565	ppb	0.0955	10.0	0.7901
Pb 220.353	1.1408	ppb	0.6058	53.1	15.6149
Sb 206.834	1.8467	ppb	0.9773	52.9	3.4453
Se 196.026	3.5041	ppb	1.7976	51.3	3.0202
Sn 189.925	0.2116	ppb	2.5744	1216.7	-12.9893
Sr 216.596	61.9890	ppb	0.1215	0.2	1069.51
Ti 334.941	0.1389	ppb	0.0300	21.6	-15.4595
Tl 190.794	-0.6224	ppb	1.6649	267.5	-14.0573
V 292.401	0.5417	ppb	0.3111	57.4	13.1468
Zn 206.200	1.6498	ppb	1.0199	61.8	9.5164

680-94644-b-25-a (Samp) **10/1/2013, 3:50:05 AM** **Rack 4, Tube 33**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	0.0969	0.2682	-0.1466u
Al 308.215	3.9838	2.8645	2.4884
As 188.980	-2.1996u	1.8899	1.2097
B 249.678	17.2322	17.4915	17.5562
Ba 389.178	19.1283	19.4538	18.6579
Be 313.042	-0.0023	0.0055	-0.0051u
Ca 370.602	16024	15955	15953
Cd 226.502	0.0110	-0.0023u	-0.2433u
Co 228.615	-0.1096u	0.2281	0.5949
Cr 267.716	0.1400	0.1291	0.0972

Label	Replicates Concentration		
Cu 324.754	3.3144	3.0872	3.1097
Fe 271.441	4.6338	6.5628	8.7693
K 766.491	1675.44	1659.83	1666.20
Mg 279.078	3658.98	3647.21	3672.14
Mn 257.610	1.4877	1.4590	1.4877
Mo 202.032	0.3526	0.5755	0.2367
Na 330.237	4893.64	5126.84	5147.41
Ni 231.604	0.9397	1.8513	1.7414
Pb 220.353	-0.6728u	0.0528	1.6678
Sb 206.834	0.7870	-0.5591u	2.9714
Se 196.026	-2.5593u	0.6972	2.7521
Sn 189.925	-2.6412u	-1.5899u	-1.2905u
Sr 216.596	63.1439	62.6109	62.5644
Ti 334.941	0.0995	0.0477	0.0970
Tl 190.794	-2.2486u	-2.1860u	-0.1414u
V 292.401	0.8892	0.8090	0.4700
Zn 206.200	1.6020	2.4258	3.5781

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0728	ppb	0.2084	286.1	-18.0512
Al 308.215	3.1123	ppb	0.7778	25.0	-24.0895
As 188.980	0.3000	ppb	2.1913	730.5	-7.6200
B 249.678	17.4266	ppb	0.1715	1.0	451.315
Ba 389.178	19.0800	ppb	0.4001	2.1	488.374
Be 313.042	-0.0007	ppb	0.0055	839.3	-269.789
Ca 370.602	15977	ppb	40.16	0.3	50570
Cd 226.502	-0.0782	ppb	0.1431	183.0	11.6716
Co 228.615	0.2378	ppb	0.3523	148.2	-3.6756
Cr 267.716	0.1221	ppb	0.0222	18.2	27.8749
Cu 324.754	3.1704	ppb	0.1252	3.9	345.783
Fe 271.441	6.6553	ppb	2.0693	31.1	28.8700
K 766.491	1667.15	ppb	7.8496	0.5	71944.5
Mg 279.078	3659.44	ppb	12.4745	0.3	11494.5
Mn 257.610	1.4782	ppb	0.0166	1.1	475.434
Mo 202.032	0.3883	ppb	0.1722	44.4	11.2498
Na 330.237	5055.97	ppb	140.950	2.8	364.325
Ni 231.604	1.5108	ppb	0.4976	32.9	3.0473
Pb 220.353	0.3493	ppb	1.1981	343.0	13.9090
Sb 206.834	1.0664	ppb	1.7818	167.1	2.1532
Se 196.026	0.2966	ppb	2.6782	902.9	1.4018
Sn 189.925	-1.8405	ppb	0.7094	38.5	-15.3488
Sr 216.596	62.7731	ppb	0.3220	0.5	1082.90
Ti 334.941	0.0814	ppb	0.0292	35.9	-32.3561
Tl 190.794	-1.5253	ppb	1.1989	78.6	-15.4208
V 292.401	0.7227	ppb	0.2225	30.8	18.9377
Zn 206.200	2.5353	ppb	0.9926	39.2	11.1438

680-94644-b-28-a (Samp) **10/1/2013, 3:54:43 AM** **Rack 4, Tube 34**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.1058u	0.1743	-0.0120u
Al 308.215	2.0028	3.2408	3.7048
As 188.980	2.8426	2.0288	4.2445

Label	Replicates Concentration		
B 249.678	16.6521	17.0458	16.5572
Ba 389.178	17.8207	19.1226	18.7619
Be 313.042	0.0017	0.0058	-0.0053u
Ca 370.602	15410	15450	15393
Cd 226.502	0.0617	-0.0276u	0.0366
Co 228.615	-0.1205u	0.5850	0.5023
Cr 267.716	0.0866	0.1786	0.1945
Cu 324.754	2.6079	2.4260	2.4571
Fe 271.441	6.0899	5.0806	5.1825
K 766.491	1629.37	1655.94	1627.83
Mg 279.078	3552.44	3565.16	3561.44
Mn 257.610	1.8924	1.8977	1.9040
Mo 202.032	0.7857	0.8673	0.6153
Na 330.237	5032.18	5037.77	5132.71
Ni 231.604	0.8239	0.5404	0.8629
Pb 220.353	1.3566	-0.5165u	-0.6560u
Sb 206.834	1.9149	2.8912	-0.6302u
Se 196.026	-9.5506u	3.2413	8.1865
Sn 189.925	-0.2358u	0.9913	0.2693
Sr 216.596	59.2256	59.4409	59.2204
Ti 334.941	0.1071	0.0708	0.1243
Tl 190.794	-1.0153u	-1.5280u	-2.3282u
V 292.401	0.6609	0.7455	0.7026
Zn 206.200	1.9800	2.1658	1.9306

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0188	ppb	0.1426	756.9	-22.8254
Al 308.215	2.9828	ppb	0.8798	29.5	-24.8504
As 188.980	3.0386	ppb	1.1208	36.9	-4.9640
B 249.678	16.7517	ppb	0.2591	1.5	437.804
Ba 389.178	18.5684	ppb	0.6722	3.6	474.783
Be 313.042	0.0007	ppb	0.0056	766.3	-267.096
Ca 370.602	15418	ppb	29.06	0.2	48798
Cd 226.502	0.0236	ppb	0.0461	195.7	17.7722
Co 228.615	0.3222	ppb	0.3857	119.7	-2.4270
Cr 267.716	0.1532	ppb	0.0582	38.0	29.8668
Cu 324.754	2.4970	ppb	0.0973	3.9	299.059
Fe 271.441	5.4510	ppb	0.5556	10.2	26.4791
K 766.491	1637.71	ppb	15.8035	1.0	70678.3
Mg 279.078	3559.68	ppb	6.5413	0.2	11182.0
Mn 257.610	1.8980	ppb	0.0058	0.3	588.942
Mo 202.032	0.7561	ppb	0.1286	17.0	14.4727
Na 330.237	5067.55	ppb	56.4990	1.1	365.069
Ni 231.604	0.7424	ppb	0.1760	23.7	-0.0838
Pb 220.353	0.0614	ppb	1.1239	1831.5	13.2879
Sb 206.834	1.3920	ppb	1.8180	130.6	2.6896
Se 196.026	0.6257	ppb	9.1532	1462.8	1.5680
Sn 189.925	0.3416	ppb	0.6167	180.5	-12.8400
Sr 216.596	59.2956	ppb	0.1258	0.2	1023.51
Ti 334.941	0.1007	ppb	0.0273	27.1	-27.0942
Tl 190.794	-1.6238	ppb	0.6617	40.7	-15.5702
V 292.401	0.7030	ppb	0.0423	6.0	18.2407
Zn 206.200	2.0254	ppb	0.1240	6.1	10.2063

680-94636-a-1-a (Samp) **10/1/2013, 3:59:22 AM** **Rack 4, Tube 35**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.2255	0.0008	-0.0292u
Al 308.215	434.805	435.967	440.366
As 188.980	4.6941	2.8164	-1.4300u
B 249.678	42.0296	41.2781	41.7888
Ba 389.178	4.5589	3.5065	4.5941
Be 313.042	0.0640	0.0596	0.0649
Ca 370.602	8243	8217	8282
Cd 226.502	0.0127	0.0418	-0.0414u
Co 228.615	1.2332	1.4298	1.1934
Cr 267.716	23.9058	24.0061	24.0197
Cu 324.754	1.4688	1.2461	1.2564
Fe 271.441	136.679	136.846	137.898
K 766.491	9362.99	9327.82	9344.89
Mg 279.078	1322.84	1315.75	1323.91
Mn 257.610	1.4492	1.4693	1.5054
Mo 202.032	32.6778	32.2987	32.5929
Na 330.237	129501x	128272x	129532x
Ni 231.604	2.6773	2.6413	2.0836
Pb 220.353	4.1237	0.5936	0.2326
Sb 206.834	3.8392	3.6858	1.4107
Se 196.026	1.2888	3.1561	4.4571
Sn 189.925	-1.1114u	-0.3696u	-0.5005u
Sr 216.596	33.3339	33.0734	33.8402
Ti 334.941	0.2236	0.1901	0.2597
Tl 190.794	-0.1335u	-0.1093u	-1.8554u
V 292.401	253.250	252.370	253.627
Zn 206.200	2.7444	3.6021	1.7863

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0657b	ppb	0.1392	211.8	-15.1297
Al 308.215	437.046b	ppb	2.9334	0.7	2546.29
As 188.980	2.0268b	ppb	3.1375	154.8	-5.9540
B 249.678	41.6989b	ppb	0.3837	0.9	936.658
Ba 389.178	4.2198b	ppb	0.6180	14.6	95.7915
Be 313.042	0.0629b	ppb	0.0028	4.5	-167.771
Ca 370.602	8248b	ppb	32.72	0.4	26095
Cd 226.502	0.0044b	ppb	0.0422	968.7	16.0099
Co 228.615	1.2855b	ppb	0.1265	9.8	10.9689
Cr 267.716	23.9772b	ppb	0.0622	0.3	1551.46
Cu 324.754	1.3238b	ppb	0.1257	9.5	215.372
Fe 271.441	137.141b	ppb	0.6609	0.5	291.730
K 766.491	9345.23b	ppb	17.5885	0.2	402173
Mg 279.078	1320.83b	ppb	4.4366	0.3	4169.73
Mn 257.610	1.4746b	ppb	0.0285	1.9	451.456
Mo 202.032	32.5231b	ppb	0.1989	0.6	292.246
Na 330.237	129102xb	ppb	718.556	0.6	8207.16
Ni 231.604	2.4674b	ppb	0.3329	13.5	6.9463
Pb 220.353	1.6500b	ppb	2.1499	130.3	16.6608
Sb 206.834	2.9786b	ppb	1.3600	45.7	5.0342
Se 196.026	2.9673b	ppb	1.5926	53.7	2.7498
Sn 189.925	-0.6605b	ppb	0.3959	59.9	-13.9318
Sr 216.596	33.4158b	ppb	0.3899	1.2	580.615

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ti 334.941	0.2245b	ppb	0.0348	15.5	-11.9498
Tl 190.794	-0.6994b	ppb	1.0012	143.1	-14.0097
V 292.401	253.082b	ppb	0.6453	0.3	8000.27
Zn 206.200	2.7110b	ppb	0.9084	33.5	11.3606

680-94636-a-2-a (Samp) **10/1/2013, 4:04:00 AM** **Rack 4, Tube 36**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.0363u	0.2542	0.1158
Al 308.215	31.4031	31.8579	31.5728
As 188.980	-0.9348u	2.4362	-0.4273u
B 249.678	87.5092	88.8982	89.5174
Ba 389.178	92.8229	93.4238	94.3284
Be 313.042	0.0147	0.0129	0.0159
Ca 370.602	41092	41415	41554
Cd 226.502	0.6618	0.6326	0.5826
Co 228.615	0.5707	0.0578u	0.5218
Cr 267.716	89.4982	90.8681	89.8771
Cu 324.754	1.4277	1.5639	1.2907
Fe 271.441	188.641	188.530	191.231
K 766.491	2050.50	2060.60	2046.57
Mg 279.078	6662.23	6731.56	6692.01
Mn 257.610	0.3235	0.3086	0.2762
Mo 202.032	96.0553	97.1582	96.3782
Na 330.237	32071.6	32758.0	32306.1
Ni 231.604	1.8341	1.7753	0.8672
Pb 220.353	2.5824	1.5085	-1.3094u
Sb 206.834	2.8234	2.8898	4.6970
Se 196.026	1.1558	3.7440	4.5132
Sn 189.925	-3.0284u	-2.1380u	-2.6041u
Sr 216.596	172.239	174.068	173.901
Ti 334.941	0.2756	0.1515	0.2592
Tl 190.794	0.6947	-0.1114u	-0.9404u
V 292.401	48.1649	48.9168	48.2216
Zn 206.200	3.7224	3.7162	2.7973

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1354	ppb	0.1103	81.4	-18.0447
Al 308.215	31.6113	ppb	0.2299	0.7	144.436
As 188.980	0.3580	ppb	1.8175	507.7	-7.6057
B 249.678	88.6416	ppb	1.0284	1.2	1875.83
Ba 389.178	93.5250	ppb	0.7579	0.8	2435.66
Be 313.042	0.0145	ppb	0.0015	10.4	-249.502
Ca 370.602	41354	ppb	237.3	0.6	130883
Cd 226.502	0.6257	ppb	0.0400	6.4	54.4669
Co 228.615	0.3835	ppb	0.2831	73.8	-4.5156
Cr 267.716	90.0811	ppb	0.7073	0.8	5773.77
Cu 324.754	1.4274	ppb	0.1366	9.6	227.865
Fe 271.441	189.468	ppb	1.5285	0.8	394.546
K 766.491	2052.56	ppb	7.2390	0.4	88520.5
Mg 279.078	6695.27	ppb	34.7824	0.5	21002.8
Mn 257.610	0.3028	ppb	0.0242	8.0	185.086
Mo 202.032	96.5306	ppb	0.5670	7.0	853.574

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Na 330.237	32378.6	ppb	348.884	1.1	2091.74
Ni 231.604	1.4922	ppb	0.5421	36.3	2.9778
Pb 220.353	0.9272	ppb	2.0100	216.8	15.0068
Sb 206.834	3.4700	ppb	1.0631	30.6	5.4910
Se 196.026	3.1377	ppb	1.7589	56.1	2.8357
Sn 189.925	-2.5902	ppb	0.4454	17.2	-16.1820
Sr 216.596	173.403	ppb	1.0114	0.6	2971.52
Ti 334.941	0.2288	ppb	0.0674	29.5	23.5020
Tl 190.794	-0.1190	ppb	0.8176	686.8	-13.3377
V 292.401	48.4344	ppb	0.4187	0.9	1505.39
Zn 206.200	3.4120	ppb	0.5323	15.6	12.3511

Cont Calib Verif (CCV) **10/1/2013, 4:08:38 AM** **Rack 4, Tube 37**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	483.789	482.423	485.455
Al 308.215	4917.31	4896.28	4898.09
As 188.980	484.218	483.681	484.546
B 249.678	488.079	487.184	489.557
Ba 389.178	4891.73	4885.14	4899.96
Be 313.042	498.198	495.311	496.080
Ca 370.602	5033	5044	5050
Cd 226.502	494.412	492.055	492.889
Co 228.615	494.265	494.148	493.561
Cr 267.716	5013.65	5006.68	5006.12
Cu 324.754	5125.07	5129.19	5091.52
Fe 271.441	4782.56	4777.41	4779.43
K 766.491	10176.7	10136.7	10187.8
Mg 279.078	4967.79	4945.20	4953.02
Mn 257.610	5082.80	5065.39	5066.75
Mo 202.032	500.537	498.968	498.508
Na 330.237	7106.62	7004.27	6962.56
Ni 231.604	2477.97	2465.05	2471.28
Pb 220.353	496.524	491.964	493.882
Sb 206.834	996.497	988.616	997.509
Se 196.026	5141.87	5114.78	5123.75
Sn 189.925	5007.28	4934.32	4946.29
Sr 216.596	2521.40	2514.19	2511.89
Ti 334.941	484.657	484.479	485.658
Tl 190.794	5032.24	4998.61	5001.07
V 292.401	4912.64	4898.20	4908.05
Zn 206.200	2516.18	2492.82	2491.29

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	483.889	ppb	1.5187	0.3	44794.3	96.77784
Al 308.215	4903.89	ppb	11.6552	0.2	28649.0	98.07782
As 188.980	484.148	ppb	0.4370	0.1	461.442	96.82967
B 249.678	488.274	ppb	1.1985	0.2	9859.63	97.65472
Ba 389.178	4892.27	ppb	7.4251	0.2	127338	97.84549
Be 313.042	496.530	ppb	1.4952	0.3	1089446	99.30598
Ca 370.602	5042	ppb	8.393	0.2	16020	100.84927
Cd 226.502	493.119	ppb	1.1952	0.2	29562.9	98.62376
Co 228.615	493.992	ppb	0.3775	0.1	7390.24	98.79830

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Cr 267.716	5008.82	ppb	4.1964	0.1	319901	100.17636
Cu 324.754	5115.26	ppb	20.6598	0.4	355086	102.30522
Fe 271.441	4779.80	ppb	2.5945	0.1	9685.22	95.59592
K 766.491	10167.1	ppb	26.8864	0.3	437519	101.67052
Mg 279.078	4955.33	ppb	11.4704	0.2	15433.1	99.10667
Mn 257.610	5071.65	ppb	9.6813	0.2	1382438	101.43297
Mo 202.032	499.338	ppb	1.0640	0.2	4371.80	99.86755
Na 330.237	7024.48	ppb	74.1233	1.1	439.922	93.65978
Ni 231.604	2471.43	ppb	6.4595	0.3	10065.2	98.85725
Pb 220.353	494.124	ppb	2.2893	0.5	1078.77	98.82471
Sb 206.834	994.207	ppb	4.8689	0.5	1729.27	99.42073
Se 196.026	5126.80	ppb	13.7994	0.3	2589.35	102.53595
Sn 189.925	4962.63	ppb	39.1258	0.8	5693.07	99.25259
Sr 216.596	2515.83	ppb	4.9604	0.2	42836.9	100.63305
Ti 334.941	484.931	ppb	0.6355	0.1	143751	96.98622
Tl 190.794	5010.64	ppb	18.7475	0.4	7567.75	100.21281
V 292.401	4906.29	ppb	7.3796	0.2	154944	98.12590
Zn 206.200	2500.10	ppb	13.9492	0.6	4580.45	100.00393

Cont Calib Blank (CCB) **10/1/2013, 4:13:17 AM** **Rack 4, Tube 38**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	0.3212	0.1816	0.1656
Al 308.215	-0.8694u	-3.0464u	-1.3660u
As 188.980	-0.2142u	1.6664	3.2404
B 249.678	1.5102	1.7550	1.2727
Ba 389.178	0.1150	0.6562	0.6618
Be 313.042	0.0044	0.0085	0.0130
Ca 370.602	1.092	4.461	-0.9550u
Cd 226.502	-0.0303u	-0.1769u	-0.0582u
Co 228.615	0.1416	-0.3344u	0.1882
Cr 267.716	0.1484	0.0368	0.0879
Cu 324.754	-0.2280u	-0.9928u	-0.1154u
Fe 271.441	-1.3739u	-5.0316u	0.6564
K 766.491	2.1221	2.4319	1.4418
Mg 279.078	-0.6129u	-2.7736u	-1.2136u
Mn 257.610	0.0354	0.0438	0.0028
Mo 202.032	0.6102	-0.5309u	0.3816
Na 330.237	-120.581u	44.1662	-104.103u
Ni 231.604	-0.2030u	-0.0274u	0.5852
Pb 220.353	1.7401	-0.7939u	-0.0314u
Sb 206.834	2.9234	4.0813	0.6747
Se 196.026	4.3413	7.4507	-0.7967u
Sn 189.925	-1.6189u	-0.3336u	0.5530
Sr 216.596	0.0772	-0.4007u	0.2302
Ti 334.941	0.1323	0.1067	0.1448
Tl 190.794	-0.3591u	0.7207	4.1264
V 292.401	-0.0337u	-0.1573u	-0.1190u
Zn 206.200	-0.8356u	-0.1172u	-0.0701u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.2228	ppb	0.0856	38.4	-0.6026	0.22280
Al 308.215	-1.7606	ppb	1.1409	64.8	-53.2721	-1.76064

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
As 188.980	1.5642	ppb	1.7296	110.6	-6.3937	1.56423
B 249.678	1.5127	ppb	0.2412	15.9	132.882	1.51267
Ba 389.178	0.4777	ppb	0.3141	65.8	-6.5215	0.47767
Be 313.042	0.0086	ppb	0.0043	50.0	-254.789	0.00860
Ca 370.602	1.533	ppb	2.735	178.4	0.4982	1.53282
Cd 226.502	-0.0885	ppb	0.0778	88.0	11.0103	-0.08845
Co 228.615	-0.0016	ppb	0.2892	18579.3	-7.2478	-0.00156
Cr 267.716	0.0910	ppb	0.0559	61.4	25.7619	0.09103
Cu 324.754	-0.4454	ppb	0.4774	107.2	94.8374	-0.44543
Fe 271.441	-1.9164	ppb	2.8825	150.4	11.7148	-1.91637
K 766.491	1.9986	ppb	0.5065	25.3	327.363	1.99860
Mg 279.078	-1.5334	ppb	1.1153	72.7	28.2489	-1.53338
Mn 257.610	0.0273	ppb	0.0217	79.3	44.5230	0.02730
Mo 202.032	0.1536	ppb	0.6037	393.0	9.1958	0.15361
Na 330.237	-60.1726	ppb	90.7349	150.8	40.8948	-60.17261
Ni 231.604	0.1183	ppb	0.4138	349.9	-2.6259	0.11826
Pb 220.353	0.3049	ppb	1.3001	426.4	13.8130	0.30491
Sb 206.834	2.5598	ppb	1.7322	67.7	4.6479	2.55981
Se 196.026	3.6651	ppb	4.1651	113.6	3.1010	3.66513
Sn 189.925	-0.4665	ppb	1.0920	234.1	-13.7807	-0.46651
Sr 216.596	-0.0311	ppb	0.3291	1057.4	9.5613	-0.03112
Ti 334.941	0.1280	ppb	0.0194	15.2	-35.6253	0.12796
Tl 190.794	1.4960	ppb	2.3411	156.5	-10.8506	1.49601
V 292.401	-0.1033	ppb	0.0633	61.2	-7.1720	-0.10334
Zn 206.200	-0.3410	ppb	0.4290	125.8	5.8557	-0.34099

680-94636-b-3-b (Samp) **10/1/2013, 4:17:55 AM** **Rack 4, Tube 39**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.5490	0.2902u	0.4843
Al 308.215	8.7384	9.0293	7.2290
As 188.980	3.3450	1.8973	3.5753
B 249.678	191.573	191.651	192.279
Ba 389.178	72.4648	72.5770	72.1492
Be 313.042	-0.0204u	-0.0212u	-0.0155
Ca 370.602	132283	132194	131686
Cd 226.502	1.0188	0.9978	0.8942
Co 228.615	-0.1643u	-0.2336u	0.3177
Cr 267.716	43.7572	43.8825	43.6951
Cu 324.754	3.2339	3.2945	3.2613
Fe 271.441	66.1392	70.6890	72.9196
K 766.491	6143.46	6145.13	6120.55
Mg 279.078	20916.8	20929.8	20871.5
Mn 257.610	1.0112	0.9715	0.9988
Mo 202.032	33.6245	32.8502	32.4248
Na 330.237	39757.5	39609.1	39740.7
Ni 231.604	4.9194	4.1631	4.4309
Pb 220.353	3.7634	3.1266	-0.2532u
Sb 206.834	2.1715	5.0634	2.7009
Se 196.026	3.2570	0.4605	6.7781
Sn 189.925	1.4376	-2.3775u	-0.5875u
Sr 216.596	710.788	710.560	707.422
Ti 334.941	0.2487	0.2873	0.2342

Label	Replicates Concentration		
Tl 190.794	-2.4057u	0.4939	-2.1997u
V 292.401	2.2982	2.4275	2.2943
Zn 206.200	6.9809	6.8430	7.3210

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.4412	ppb	0.1347	30.5	-19.4445
Al 308.215	8.3322	ppb	0.9664	11.6	8.7679
As 188.980	2.9392	ppb	0.9097	30.9	-5.0745
B 249.678	191.834	ppb	0.3871	0.2	3941.08
Ba 389.178	72.3970	ppb	0.2218	0.3	1927.03
Be 313.042	-0.0190	ppb	0.0031	16.4	-276.574
Ca 370.602	132054	ppb	321.8	0.2	417999
Cd 226.502	0.9703	ppb	0.0667	6.9	74.7614
Co 228.615	-0.0267	ppb	0.3003	1124.1	-8.5816
Cr 267.716	43.7783	ppb	0.0954	0.2	2817.10
Cu 324.754	3.2633	ppb	0.0303	0.9	353.457
Fe 271.441	69.9159	ppb	3.4557	4.9	155.262
K 766.491	6136.38	ppb	13.7376	0.2	264163
Mg 279.078	20906.0	ppb	30.5912	0.1	65511.1
Mn 257.610	0.9938	ppb	0.0203	2.0	511.439
Mo 202.032	32.9665	ppb	0.6083	1.8	296.708
Na 330.237	39702.4	ppb	81.2975	0.2	2554.78
Ni 231.604	4.5044	ppb	0.3835	8.5	15.2480
Pb 220.353	2.2123	ppb	2.1588	97.6	17.8757
Sb 206.834	3.3119	ppb	1.5397	46.5	5.8658
Se 196.026	3.4985	ppb	3.1657	90.5	3.0176
Sn 189.925	-0.5092	ppb	1.9087	374.9	-13.7347
Sr 216.596	709.590	ppb	1.8809	0.3	12128.7
Ti 334.941	0.2567	ppb	0.0275	10.7	99.3304
Tl 190.794	-1.3705	ppb	1.6179	118.1	-15.2144
V 292.401	2.3400	ppb	0.0758	3.2	61.1503
Zn 206.200	7.0483	ppb	0.2460	3.5	19.2446

680-94636-b-4-b (Samp) **10/1/2013, 4:22:34 AM** **Rack 4, Tube 40**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.3063	-0.6500u	0.2646
Al 308.215	5.3538	5.5320	7.4742
As 188.980	-7.0597u	-10.9643u	-5.6806u
B 249.678	1758.66	1756.39	1760.43
Ba 389.178	17.3119	18.3260	17.7542
Be 313.042	0.1362	0.1230	0.1362
Ca 370.602	66593	66036	66139
Cd 226.502	-0.3291u	-0.5463u	-0.4014u
Co 228.615	-8.4512	-8.6498	-8.7628
Cr 267.716	51283.2x	51201.4x	50998.0x
Cu 324.754	0.5278	0.5006	0.1598
Fe 271.441	78.9799	79.7534	76.5945
K 766.491	5561.82	5544.16	5507.55
Mg 279.078	26644.5	26619.3	26544.6
Mn 257.610	43.9854	43.7473	43.6835
Mo 202.032	871.495	869.328	869.186
Na 330.237	757728x	761422x	750247x

Label	Replicates Concentration		
Ni 231.604	13.0393	13.0312	11.0330
Pb 220.353	-1.3757u	1.3014	-0.5835u
Sb 206.834	254.120	253.795	249.653
Se 196.026	10.7965	-5.5331u	3.2423
Sn 189.925	-0.5277u	-2.0199u	-2.7844u
Sr 216.596	380.614	380.234	379.393
Ti 334.941	4.0809	4.0261	3.9364
Tl 190.794	13.7668	10.5908	13.8985
V 292.401	271.979	270.057	270.520
Zn 206.200	60.0702u	55.9349u	59.0236u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0264b	ppb	0.5405	2049.1	-43.6044
Al 308.215	6.1200b	ppb	1.1762	19.2	10.4206
As 188.980	-7.9016b	ppb	2.7406	34.7	-15.9347
B 249.678	1758.49b	ppb	2.0280	0.1	35290.0
Ba 389.178	17.7974b	ppb	0.5084	2.9	528.014
Be 313.042	0.1318b	ppb	0.0076	5.8	-229.683
Ca 370.602	66256b	ppb	296.3	0.4	209720
Cd 226.502	-0.4256b	ppb	0.1106	26.0	-15.1297
Co 228.615	-8.6212b	ppb	0.1578	1.8	47.4824
Cr 267.716	51160.9xb	ppb	146.871	0.3	3267729
Cu 324.754	0.3961b	ppb	0.2051	51.8	183.776
Fe 271.441	78.4426b	ppb	1.6466	2.1	293.908
K 766.491	5537.84b	ppb	27.6820	0.5	238420
Mg 279.078	26602.8b	ppb	51.9688	0.2	83352.4
Mn 257.610	43.8054b	ppb	0.1591	0.4	12229.2
Mo 202.032	870.003b	ppb	1.2944	0.1	7630.82
Na 330.237	756466xb	ppb	5693.64	0.8	47875.6
Ni 231.604	12.3678b	ppb	1.1560	9.3	47.3347
Pb 220.353	-0.2193b	ppb	1.3752	627.1	11.2196
Sb 206.834	252.523b	ppb	2.4905	1.0	1153.86
Se 196.026	2.8352b	ppb	8.1724	288.2	2.6940
Sn 189.925	-1.7773b	ppb	1.1477	64.6	-14.8547
Sr 216.596	380.080b	ppb	0.6249	0.2	6483.40
Ti 334.941	4.0145b	ppb	0.0729	1.8	1177.88
Tl 190.794	12.7520b	ppb	1.8729	14.7	5.7105
V 292.401	270.852b	ppb	1.0032	0.4	5255.58
Zn 206.200	58.3429b	ppb	2.1500	3.7	-117.649

680-94644-b-12-a (Samp) **10/1/2013, 4:27:13 AM** **Rack 4, Tube 41**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.1790	0.0077u	0.1376
Al 308.215	2.3932	2.3911	3.7721
As 188.980	-1.0593u	3.9778	-3.0397u
B 249.678	21.6631	20.8357	20.0372
Ba 389.178	14.9085	15.3311	15.1508
Be 313.042	-0.0025u	0.0028	0.0020
Ca 370.602	14781	14697	14680
Cd 226.502	-0.0593u	-0.0282u	0.0153
Co 228.615	-0.0157u	0.2401	0.4823
Cr 267.716	3.0698	2.7108	2.4904

Label	Replicates	Concentration	
Cu 324.754	0.9816	1.1689	0.7790
Fe 271.441	5.3865	4.5327	10.1465
K 766.491	1640.78	1646.21	1645.10
Mg 279.078	3510.64	3513.50	3506.67
Mn 257.610	0.3485	0.3125	0.3371
Mo 202.032	0.8144	0.7393	0.8513
Na 330.237	4859.42	4913.50	5071.68
Ni 231.604	0.4777	-0.6348u	0.6354
Pb 220.353	-0.5730u	0.8830	-1.5166u
Sb 206.834	2.5138	2.2516	-3.1828u
Se 196.026	0.3787	0.7295	2.7739
Sn 189.925	-3.1611u	-1.3424u	-0.2589u
Sr 216.596	54.9715	55.4754	55.2575
Ti 334.941	0.1248	0.0669	0.1045
Tl 190.794	-0.9800u	-2.6612u	-3.0334u
V 292.401	0.7417	0.8680	1.2396
Zn 206.200	0.8347	2.6733	1.4634

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1081	ppb	0.0893	82.6	-14.3521
Al 308.215	2.8521	ppb	0.7967	27.9	-25.6726
As 188.980	-0.0404	ppb	3.6180	8956.5	-7.9503
B 249.678	20.8454	ppb	0.8130	3.9	519.712
Ba 389.178	15.1301	ppb	0.2120	1.4	385.161
Be 313.042	0.0008	ppb	0.0029	373.7	-267.256
Ca 370.602	14719	ppb	53.95	0.4	46588
Cd 226.502	-0.0240	ppb	0.0374	155.7	14.9334
Co 228.615	0.2356	ppb	0.2490	105.7	-3.7101
Cr 267.716	2.7570	ppb	0.2924	10.6	196.157
Cu 324.754	0.9765	ppb	0.1950	20.0	193.533
Fe 271.441	6.6886	ppb	3.0249	45.2	28.9428
K 766.491	1644.03	ppb	2.8715	0.2	70949.9
Mg 279.078	3510.27	ppb	3.4268	0.1	11027.3
Mn 257.610	0.3327	ppb	0.0184	5.5	161.805
Mo 202.032	0.8017	ppb	0.0571	7.1	14.8715
Na 330.237	4948.20	ppb	110.307	2.2	357.525
Ni 231.604	0.1595	ppb	0.6923	434.2	-2.4584
Pb 220.353	-0.4022	ppb	1.2089	300.6	12.2883
Sb 206.834	0.5275	ppb	3.2159	609.6	1.2857
Se 196.026	1.2940	ppb	1.2936	100.0	1.9048
Sn 189.925	-1.5875	ppb	1.4666	92.4	-15.0587
Sr 216.596	55.2348	ppb	0.2527	0.5	954.181
Ti 334.941	0.0987	ppb	0.0294	29.8	-27.9049
Tl 190.794	-2.2249	ppb	1.0940	49.2	-16.4788
V 292.401	0.9497	ppb	0.2588	27.3	25.8915
Zn 206.200	1.6572	ppb	0.9345	56.4	9.5174

680-94644-b-14-a (Samp) **10/1/2013, 4:31:52 AM** **Rack 4, Tube 42**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	-0.1541u	-0.0210u	0.2025
Al 308.215	2.9782	4.1885	1.8469
As 188.980	-2.1743u	4.5657	-1.9445u

Label	Replicates Concentration		
B 249.678	18.5252	18.7113	17.9252
Ba 389.178	15.7592	15.8494	14.8671
Be 313.042	-0.0044u	0.0039	0.0047
Ca 370.602	14897	15364	14967
Cd 226.502	-0.2405u	-0.1227u	0.0209
Co 228.615	-0.0390u	-0.5555u	0.6613
Cr 267.716	1.2928	1.3862	1.1812
Cu 324.754	0.6122	0.3461	1.3573
Fe 271.441	9.9404	8.9453	1.6253
K 766.491	1638.99	1688.31	1658.39
Mg 279.078	3550.60	3664.66	3561.67
Mn 257.610	0.4024	0.4024	0.3680
Mo 202.032	0.7084	0.2221	0.6153
Na 330.237	5027.73	5107.32	4946.87
Ni 231.604	1.0668	0.8675	0.7629
Pb 220.353	2.3792	-0.3550u	0.0641
Sb 206.834	1.8076	2.4015	2.6045
Se 196.026	1.9533	6.4539	5.7000
Sn 189.925	2.0861	-0.7927u	-1.2479u
Sr 216.596	55.7747	57.4935	55.5148
Ti 334.941	0.1077	0.1075	0.1084
Tl 190.794	-2.6867u	-1.1258u	-1.3801u
V 292.401	0.7831	1.0352	0.7540
Zn 206.200	0.6511	1.3267	1.2405

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0091	ppb	0.1802	1973.4	-23.5791
Al 308.215	3.0045	ppb	1.1710	39.0	-24.7435
As 188.980	0.1489	ppb	3.8267	2569.3	-7.7665
B 249.678	18.3872	ppb	0.4108	2.2	470.529
Ba 389.178	15.4919	ppb	0.5430	3.5	394.810
Be 313.042	0.0014	ppb	0.0050	356.9	-265.733
Ca 370.602	15076	ppb	252.1	1.7	47717
Cd 226.502	-0.1141	ppb	0.1309	114.8	9.5362
Co 228.615	0.0223	ppb	0.6107	2742.2	-6.8990
Cr 267.716	1.2867	ppb	0.1027	8.0	102.254
Cu 324.754	0.7719	ppb	0.5242	67.9	179.323
Fe 271.441	6.8370	ppb	4.5408	66.4	29.2039
K 766.491	1661.90	ppb	24.8450	1.5	71718.4
Mg 279.078	3592.31	ppb	62.8988	1.8	11284.2
Mn 257.610	0.3910	ppb	0.0199	5.1	178.469
Mo 202.032	0.5152	ppb	0.2581	50.1	12.3618
Na 330.237	5027.31	ppb	80.2267	1.6	362.531
Ni 231.604	0.8990	ppb	0.1544	17.2	0.5555
Pb 220.353	0.6961	ppb	1.4726	211.5	14.6565
Sb 206.834	2.2712	ppb	0.4141	18.2	4.1760
Se 196.026	4.7024	ppb	2.4104	51.3	3.6245
Sn 189.925	0.0152	ppb	1.8079	11901.2	-13.2157
Sr 216.596	56.2610	ppb	1.0753	1.9	971.710
Ti 334.941	0.1079	ppb	0.0005	0.4	-24.8123
Tl 190.794	-1.7309	ppb	0.8375	48.4	-15.7323
V 292.401	0.8574	ppb	0.1546	18.0	23.1020
Zn 206.200	1.0728	ppb	0.3677	34.3	8.4496

680-94644-b-16-a (Samp) **10/1/2013, 4:36:30 AM** **Rack 4, Tube 43**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.2425	0.1152	-0.0675u
Al 308.215	4.9255	5.6385	4.9570
As 188.980	0.2132	-0.7676u	0.8219
B 249.678	17.6522	18.1983	17.9451
Ba 389.178	15.0909	15.1939	15.2949
Be 313.042	0.0030	0.0003	0.0011
Ca 370.602	14796	14865	14883
Cd 226.502	0.0548	0.1419	0.0406
Co 228.615	-0.3207u	0.2047	-0.3012u
Cr 267.716	0.8002	0.7717	0.7638
Cu 324.754	0.6925	1.0014	0.6060
Fe 271.441	13.2179	14.9487	17.9511
K 766.491	1651.41	1645.81	1648.41
Mg 279.078	3562.00	3553.08	3552.20
Mn 257.610	0.4376	0.4416	0.4260
Mo 202.032	0.3743	0.9044	0.2200
Na 330.237	5046.02	4923.27	4906.00
Ni 231.604	1.1712	0.8280	0.3536
Pb 220.353	-0.4822u	1.2445	-0.6958u
Sb 206.834	0.1704	4.8512	-0.1543u
Se 196.026	1.4951	-4.0572u	0.6619
Sn 189.925	-2.1159u	-0.8233u	1.2316
Sr 216.596	55.4321	55.7865	55.4510
Ti 334.941	0.2544	0.1403	0.1561
Tl 190.794	1.4567	-3.1958u	-1.5182u
V 292.401	1.1570	0.9457	1.0770
Zn 206.200	0.6411	0.8742	0.5274

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0967	ppb	0.1558	161.1	-15.4151
Al 308.215	5.1737	ppb	0.4028	7.8	-11.7219
As 188.980	0.0892	ppb	0.8020	899.4	-7.8247
B 249.678	17.9319	ppb	0.2733	1.5	461.385
Ba 389.178	15.1932	ppb	0.1020	0.7	386.947
Be 313.042	0.0015	ppb	0.0014	92.4	-265.596
Ca 370.602	14848	ppb	45.70	0.3	46995
Cd 226.502	0.0791	ppb	0.0549	69.3	21.1583
Co 228.615	-0.1391	ppb	0.2979	214.2	-9.3078
Cr 267.716	0.7786	ppb	0.0192	2.5	69.7930
Cu 324.754	0.7667	ppb	0.2079	27.1	178.962
Fe 271.441	15.3726	ppb	2.3949	15.6	46.2200
K 766.491	1648.55	ppb	2.8063	0.2	71144.2
Mg 279.078	3555.76	ppb	5.4248	0.2	11169.8
Mn 257.610	0.4351	ppb	0.0081	1.9	190.173
Mo 202.032	0.4995	ppb	0.3590	71.9	12.2232
Na 330.237	4958.43	ppb	76.3462	1.5	358.183
Ni 231.604	0.7843	ppb	0.4106	52.4	0.0887
Pb 220.353	0.0221	ppb	1.0639	4805.4	13.2046
Sb 206.834	1.6224	ppb	2.8009	172.6	3.0878
Se 196.026	-0.6334	ppb	2.9942	472.7	0.9323
Sn 189.925	-0.5692	ppb	1.6881	296.6	-13.8878
Sr 216.596	55.5565	ppb	0.1994	748	959.684

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ti 334.941	0.1836	ppb	0.0619	33.7	-2.5340
Tl 190.794	-1.0858	ppb	2.3562	217.0	-14.7581
V 292.401	1.0599	ppb	0.1067	10.1	29.5519
Zn 206.200	0.6809	ppb	0.1768	26.0	7.7317

X (Samp) **10/1/2013, 4:41:09 AM** **Rack 4, Tube 44**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	9.9877	10.2075	9.9798
Al 308.215	216.869	218.054	215.242
As 188.980	21.4634	22.0654	24.6556
B 249.678	99.3748	99.1685	100.366
Ba 389.178	10.2494	10.4188	10.3359
Be 313.042	4.0943	4.1043	4.1031
Ca 370.602	531.3	532.7	521.5
Cd 226.502	5.0490	4.9086	4.9032
Co 228.615	9.9373	10.5383	9.9189
Cr 267.716	10.7400	10.5981	10.6468
Cu 324.754	20.4677	19.8557	20.3977
Fe 271.441	49.2833	53.4199	48.7168
K 766.491	1019.51	1019.21	1019.70
Mg 279.078	519.519	523.226	518.576
Mn 257.610	10.5340	10.6062	10.5821
Mo 202.032	10.1506	10.0245	9.7253
Na 330.237	778.265	882.285	843.252
Ni 231.604	41.3516	41.6030	41.5388
Pb 220.353	10.5094	11.7395	11.0665
Sb 206.834	21.1074	18.8125	21.5667
Se 196.026	21.5711	20.2892	19.0168
Sn 189.925	49.0085	50.4432	51.2987
Sr 216.596	10.2551	10.0981	9.9074
Ti 334.941	10.1090	10.0586	9.9928
Tl 190.794	26.8098	24.2100	26.8807
V 292.401	9.9158	10.0843	9.9459
Zn 206.200	19.6833	19.4802	20.3368

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	10.0583	ppb	0.1292	1.3	911.352
Al 308.215	216.721	ppb	1.4118	0.7	1259.76
As 188.980	22.7281	ppb	1.6961	7.5	14.1307
B 249.678	99.6365	ppb	0.6403	0.6	2096.21
Ba 389.178	10.3347	ppb	0.0847	0.8	251.703
Be 313.042	4.1006	ppb	0.0055	0.1	8726.04
Ca 370.602	528.5	ppb	6.103	1.2	1670
Cd 226.502	4.9536	ppb	0.0827	1.7	313.141
Co 228.615	10.1315	ppb	0.3524	3.5	144.167
Cr 267.716	10.6616	ppb	0.0721	0.7	700.852
Cu 324.754	20.2404	ppb	0.3349	1.7	1530.72
Fe 271.441	50.4733	ppb	2.5675	5.1	117.944
K 766.491	1019.47	ppb	0.2455	0.0	44088.2
Mg 279.078	520.440	ppb	2.4583	0.5	1662.76
Mn 257.610	10.5741	ppb	0.0368	0.3	2924.38
Mo 202.032	9.9668	ppb	0.2185	2.2	95.1574

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Na 330.237	834.601	ppb	52.5466	6.3	97.0464
Ni 231.604	41.4978	ppb	0.1306	0.3	165.942
Pb 220.353	11.1051	ppb	0.6160	5.5	37.0721
Sb 206.834	20.4956	ppb	1.4755	7.2	34.5724
Se 196.026	20.2924	ppb	1.2772	6.3	11.4934
Sn 189.925	50.2502	ppb	1.1572	2.3	44.5369
Sr 216.596	10.0869	ppb	0.1741	1.7	180.927
Ti 334.941	10.0535	ppb	0.0583	0.6	2910.10
Tl 190.794	25.9668	ppb	1.5219	5.9	26.1984
V 292.401	9.9820	ppb	0.0899	0.9	309.799
Zn 206.200	19.8334	ppb	0.4476	2.3	42.9003

CRI (Samp) **10/1/2013, 4:45:47 AM** **Rack 4, Tube 45**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	9.5716	9.9275	9.8316
Al 308.215	217.050	214.865	214.622
As 188.980	22.0811	25.4590	21.8396
B 249.678	99.1986	99.1460	99.3021
Ba 389.178	9.8691	9.9899	10.5193
Be 313.042	4.1047	4.0732	4.0876
Ca 370.602	529.0	520.6	522.4
Cd 226.502	5.0777	5.0198	4.8588
Co 228.615	9.9072	10.1420	9.9109
Cr 267.716	10.4818	10.5871	10.6252
Cu 324.754	20.3350	20.3152	20.5974
Fe 271.441	52.4976	48.2394	51.9203
K 766.491	1019.49	1013.19	1019.23
Mg 279.078	521.686	520.160	525.623
Mn 257.610	10.6567	10.5824	10.5830
Mo 202.032	10.0869	10.2999	9.8979
Na 330.237	888.659	960.438	866.956
Ni 231.604	42.2722	41.8173	41.0304
Pb 220.353	10.2420	9.9018	9.3859
Sb 206.834	22.4029	21.6922	23.0475
Se 196.026	16.7966	26.8359	26.3902
Sn 189.925	50.2571	49.0637	50.3747
Sr 216.596	10.2999	9.6878	9.6828
Ti 334.941	10.0639	9.8856	9.9750
Tl 190.794	27.4094	25.8323	26.9435
V 292.401	9.7974	9.6519	10.1249
Zn 206.200	18.0941	17.9834	19.7240

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	9.7769	ppb	0.1841	1.9	885.239
Al 308.215	215.512	ppb	1.3372	0.6	1252.52
As 188.980	23.1266	ppb	2.0236	8.8	14.5171
B 249.678	99.2156	ppb	0.0794	0.1	2087.79
Ba 389.178	10.1261	ppb	0.3458	3.4	246.282
Be 313.042	4.0885	ppb	0.0158	0.4	8699.53
Ca 370.602	524.0	ppb	4.438	0.8	1655
Cd 226.502	4.9854	ppb	0.1134	2.3	315.052
Co 228.615	9.9867	ppb	0.1345	1.3	141.996

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Cr 267.716	10.5647	ppb	0.0743	0.7	694.661
Cu 324.754	20.4159	ppb	0.1575	0.8	1542.90
Fe 271.441	50.8858	ppb	2.3099	4.5	118.743
K 766.491	1017.30	ppb	3.5631	0.4	43994.8
Mg 279.078	522.490	ppb	2.8186	0.5	1669.18
Mn 257.610	10.6073	ppb	0.0427	0.4	2933.46
Mo 202.032	10.0949	ppb	0.2011	2.0	96.2800
Na 330.237	905.351	ppb	48.9249	5.4	101.537
Ni 231.604	41.7066	ppb	0.6283	1.5	166.793
Pb 220.353	9.8432	ppb	0.4310	4.4	34.3517
Sb 206.834	22.3809	ppb	0.6779	3.0	37.7107
Se 196.026	23.3409	ppb	5.6719	24.3	13.0316
Sn 189.925	49.8985	ppb	0.7254	1.5	44.1325
Sr 216.596	9.8902	ppb	0.3548	3.6	177.569
Ti 334.941	9.9748	ppb	0.0891	0.9	2886.79
Tl 190.794	26.7284	ppb	0.8103	3.0	27.3493
V 292.401	9.8581	ppb	0.2423	2.5	305.854
Zn 206.200	18.6005	ppb	0.9745	5.2	40.6340

Cont Calib Verif (CCV) **10/1/2013, 4:50:26 AM** **Rack 4, Tube 49**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	484.374	479.395	478.708
Al 308.215	4921.54	4937.49	4933.84
As 188.980	488.440	490.275	487.348
B 249.678	489.805	493.174	493.794
Ba 389.178	4848.81	4862.78	4864.89
Be 313.042	494.258	495.728	494.193
Ca 370.602	5060	5080	5068
Cd 226.502	493.106	493.820	492.597
Co 228.615	493.287	493.586	494.266
Cr 267.716	4983.46	4987.91	4983.83
Cu 324.754	5102.64	5108.14	5072.65
Fe 271.441	4759.60	4773.00	4773.35
K 766.491	10136.8	10195.0	10245.5
Mg 279.078	4963.66	4968.18	4965.48
Mn 257.610	5057.78	5091.33	5069.43
Mo 202.032	499.442	499.222	499.361
Na 330.237	7064.72	6923.69	7120.05
Ni 231.604	2468.81	2475.46	2471.91
Pb 220.353	493.482	496.996	493.415
Sb 206.834	998.760	1001.29	1002.03
Se 196.026	5187.08	5205.48	5233.42
Sn 189.925	4991.36	4943.29	4955.96
Sr 216.596	2510.45	2511.43	2506.97
Ti 334.941	483.717	485.606	485.336
Tl 190.794	5013.09	5034.44	5009.40
V 292.401	4883.50	4894.23	4893.16
Zn 206.200	2512.79	2509.88	2493.35

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	480.826	ppb	3.0919	0.6	44511.4	96.16515
Al 308.215	4930.96	ppb	8.3565	0.2	28814.6	98.61914

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
As 188.980	488.688	ppb	1.4789	0.3	465.845	97.73753
B 249.678	492.258	ppb	2.1463	0.4	9939.37	98.45155
Ba 389.178	4858.83	ppb	8.7354	0.2	126467	97.17651
Be 313.042	494.726	ppb	0.8683	0.2	1085488	98.94527
Ca 370.602	5069	ppb	10.16	0.2	16103	101.38329
Cd 226.502	493.174	ppb	0.6144	0.1	29566.2	98.63483
Co 228.615	493.713	ppb	0.5016	0.1	7385.97	98.74257
Cr 267.716	4985.07	ppb	2.4658	0.0	318384	99.70134
Cu 324.754	5094.48	ppb	19.0990	0.4	353644	101.88958
Fe 271.441	4768.65	ppb	7.8376	0.2	9662.74	95.37304
K 766.491	10192.5	ppb	54.4038	0.5	438611	101.92450
Mg 279.078	4965.77	ppb	2.2791	0.0	15466.2	99.31544
Mn 257.610	5072.85	ppb	17.0298	0.3	1382765	101.45694
Mo 202.032	499.341	ppb	0.1110	0.0	4371.87	99.86830
Na 330.237	7036.15	ppb	101.251	1.4	440.588	93.81537
Ni 231.604	2472.06	ppb	3.3266	0.1	10067.7	98.88243
Pb 220.353	494.631	ppb	2.0484	0.4	1079.86	98.92619
Sb 206.834	1000.69	ppb	1.7121	0.2	1739.76	100.06904
Se 196.026	5208.66	ppb	23.3349	0.4	2630.65	104.17320
Sn 189.925	4963.54	ppb	24.9154	0.5	5694.11	99.27076
Sr 216.596	2509.62	ppb	2.3410	0.1	42731.0	100.38462
Ti 334.941	484.886	ppb	1.0218	0.2	143738	96.97723
Tl 190.794	5018.98	ppb	13.5204	0.3	7580.36	100.37951
V 292.401	4890.30	ppb	5.9136	0.1	154439	97.80592
Zn 206.200	2505.34	ppb	10.4835	0.4	4590.19	100.21349

Cont Calib Blank (CCB) **10/1/2013, 4:55:05 AM** **Rack 4, Tube 50**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.1362	0.0364	0.1428
Al 308.215	-0.2310u	-0.6927u	-2.0474u
As 188.980	6.9240	0.9657	-1.5322u
B 249.678	2.2713	1.8484	1.5709
Ba 389.178	0.5852	0.7275	0.3086
Be 313.042	0.0179	0.0199	0.0149
Ca 370.602	-0.5500u	-0.9551u	1.452
Cd 226.502	0.1052	0.0307	-0.1834u
Co 228.615	0.3718	0.7056	-0.0854u
Cr 267.716	0.5575	0.0981	0.5117
Cu 324.754	0.2619	0.0117	0.1198
Fe 271.441	0.0212	0.9631	0.2538
K 766.491	2.1075	1.8170	2.0347
Mg 279.078	-0.0231u	0.0436	-2.8373u
Mn 257.610	0.1548	0.1721	0.1871
Mo 202.032	-0.1516u	-0.0489u	0.0225
Na 330.237	114.221	-5.5286u	49.7404
Ni 231.604	0.1337	0.4376	0.5515
Pb 220.353	2.5417	1.3307	0.5638
Sb 206.834	1.9389	1.0366	0.3493
Se 196.026	0.8686	3.7641	2.4160
Sn 189.925	2.8842	1.9569	2.3438
Sr 216.596	0.4071	-0.0135u	-0.0271u
Ti 334.941	0.1324	0.1467	0.1298

Label	Replicates Concentration		
Tl 190.794	2.0337	-1.5322u	2.3456
V 292.401	-0.1681u	0.1077	0.2681
Zn 206.200	-0.8085u	0.3467	-0.0204u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.1051	ppb	0.0596	56.7	-11.5246	0.10513
Al 308.215	-0.9904	ppb	0.9441	95.3	-48.6916	-0.99035
As 188.980	2.1191	ppb	4.3445	205.0	-5.8554	2.11914
B 249.678	1.8969	ppb	0.3527	18.6	140.569	1.89689
Ba 389.178	0.5404	ppb	0.2130	39.4	-4.8904	0.54042
Be 313.042	0.0175	ppb	0.0025	14.4	-235.127	0.01755
Ca 370.602	-0.0176	ppb	1.289	7324.1	-4.460	-0.01760
Cd 226.502	-0.0158	ppb	0.1498	947.0	15.3612	-0.01582
Co 228.615	0.3306	ppb	0.3971	120.1	-2.2770	0.33062
Cr 267.716	0.3891	ppb	0.2531	65.0	44.8007	0.38912
Cu 324.754	0.1311	ppb	0.1255	95.7	134.842	0.13113
Fe 271.441	0.4127	ppb	0.4906	118.9	16.4167	0.41268
K 766.491	1.9864	ppb	0.1511	7.6	326.838	1.98639
Mg 279.078	-0.9389	ppb	1.6444	175.1	30.1069	-0.93892
Mn 257.610	0.1713	ppb	0.0162	9.4	83.7760	0.17134
Mo 202.032	-0.0593	ppb	0.0875	147.4	7.3294	-0.05934
Na 330.237	52.8111	ppb	59.9339	113.5	48.0501	52.81109
Ni 231.604	0.3743	ppb	0.2160	57.7	-1.5838	0.37429
Pb 220.353	1.4788	ppb	0.9972	67.4	16.3439	1.47876
Sb 206.834	1.1082	ppb	0.7972	71.9	2.2367	1.10823
Se 196.026	2.3496	ppb	1.4489	61.7	2.4373	2.34956
Sn 189.925	2.3950	ppb	0.4658	19.4	-10.4904	2.39498
Sr 216.596	0.1222	ppb	0.2468	202.0	12.1798	0.12218
Ti 334.941	0.1363	ppb	0.0091	6.7	-33.1613	0.13631
Tl 190.794	0.9490	ppb	2.1545	227.0	-11.6764	0.94902
V 292.401	0.0692	ppb	0.2206	318.7	-1.6916	0.06923
Zn 206.200	-0.1607	ppb	0.5903	367.2	6.1857	-0.16075

METALS BATCH WORKSHEET

Lab Name: TestAmerica Savannah Job No.: 680-94506-1

SDG No.: 680-94506-1

Batch Number: 295281 Batch Start Date: 09/24/13 15:38 Batch Analyst: Lawhon, Jon K

Batch Method: 3050B Batch End Date: 09/25/13 10:13

Lab Sample ID	Client Sample ID	Method Chain	Basis	CalcMsg	InitialAmount	FinalAmount	MS_Ag_LCS_SPK 00012	MS_LCS1_WK 00006	MS_LCS2_wk 00150
MB 680-295281/1		3050B, 6010C		CALC NOT SET TO RUN	1.00 g	100 mL			
LCS 680-295281/2		3050B, 6010C		CALC NOT SET TO RUN	1.00 g	100 mL	1 mL	1 mL	1 mL
680-94506-A-1	WCRW-GP01-0_6in	3050B, 6010C	T	CALC NOT SET TO RUN	1.07 g	100 mL			
680-94506-A-1 MS	WCRW-GP01-0_6in	3050B, 6010C	T	CALC NOT SET TO RUN	1.08 g	100 mL	1 mL	1 mL	1 mL
680-94506-A-1 MSD	WCRW-GP01-0_6in	3050B, 6010C	T	CALC NOT SET TO RUN	1.07 g	100 mL	1 mL	1 mL	1 mL
680-94506-A-2	WCRW-GP01-0_6inD	3050B, 6010C	T	CALC NOT SET TO RUN	1.14 g	100 mL			
680-94506-A-3	WCWL-GP08-0_2ft	3050B, 6010C	T	CALC NOT SET TO RUN	1.07 g	100 mL			

Batch Notes	
Analyst	JL
Balance ID	25
Blank Soil Lot Number	2958846
Hydrogen peroxide lot number	3245480
Lot # of hydrochloric acid	3272799
Lot # of Nitric Acid	3261248
Hood ID or number	FH8
Hot Block ID number	9
Nominal Amount Used	1.0 g
Oven, Bath or Block Temperature 1	94 Degrees C
Oven, Bath or Block Temperature 2	94 Degrees C
Pipette ID	ME4
Perform Calculation (0=No, 1=Yes)	0
Temperature	94 Degrees C
ID number of the thermometer	15
Digestion Tube/Cup Lot #	J169178-263

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: TestAmerica Savannah Job No.: 680-94506-1

SDG No.: 680-94506-1

Batch Number: 295281 Batch Start Date: 09/24/13 15:38 Batch Analyst: Lawhon, Jon K

Batch Method: 3050B Batch End Date: 09/25/13 10:13

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: TestAmerica Savannah Job No.: 680-94506-1

SDG No.: 680-94506-1

Batch Number: 295691 Batch Start Date: 09/26/13 22:56 Batch Analyst: Boyer, Blake

Batch Method: 1311 Batch End Date: 10/02/13 15:45

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	EFD_InitialpH	EFD_AddHClpH>5	InitialRoomTemp	FinalRoomTemp
680-94506-A-4	CV0409A-HA0_1ft	1311, 3010A, 6010C	P	100.48 g	2000 mL	7.97 SU	.72	22.3 Celsius	22.4 Celsius
680-94506-A-5	FM0351B-HA0-_1ft	1311, 3010A, 6010C	P	100.07 g	2000 mL	7.59 SU	.64	22.3 Celsius	22.4 Celsius
680-94506-A-6	HP0025B-GP0_1ft	1311, 3010A, 6010C	P	100.26 g	2000 mL	8.38 SU	.76	22.3 Celsius	22.4 Celsius
680-94506-A-7	FM0265B-GP0_1ft	1311, 3010A, 6010C	P	100.30 g	2000 mL	8.58 SU	.74	22.3 Celsius	22.4 Celsius
680-94506-A-8	HP0204B-HA0_1ft	1311, 3010A, 6010C	P	100.07 g	2000 mL	8.28 SU	.65	22.3 Celsius	22.4 Celsius
680-94506-A-9	HP0228A-GP0_1ft	1311, 3010A, 6010C	P	100.30 g	2000 mL	9.1 SU	.72	22.3 Celsius	22.4 Celsius
680-94506-A-10	FM0195C-GP0_1ft	1311, 3010A, 6010C	P	100.49 g	2000 mL	8.55 SU	.61	22.3 Celsius	22.4 Celsius
680-94506-A-11	CV1248A-HA0_1ft	1311, 3010A, 6010C	P	100.04 g	2000 mL	8.53 SU	.66	22.3 Celsius	22.4 Celsius
680-94506-A-12	CV0246B-HA0_1ft	1311, 3010A, 6010C	P	100.40 g	2000 mL	8.28 SU	.62	22.3 Celsius	22.4 Celsius
680-94506-A-13	HP0192B-GP0_1ft	1311, 3010A, 6010C	P	100.47 g	2000 mL	8.48 SU	.69	22.3 Celsius	22.4 Celsius
680-94506-A-14	HP0037B-HA0_1ft	1311, 3010A, 6010C	P	100.11 g	2000 mL	8.51 SU	.60	22.3 Celsius	22.4 Celsius
680-94506-A-15	CV023B-HA0_1ft	1311, 3010A, 6010C	P	100.09 g	2000 mL	8.97 SU	.91	22.3 Celsius	22.4 Celsius
680-94506-A-16	FM0139A-GP0_1ft	1311, 3010A, 6010C	P	100.13 g	2000 mL	8.38 SU	.61	22.3 Celsius	22.4 Celsius
680-94506-A-17	CV0003A-HA0_1ft	1311, 3010A, 6010C	P	100.38 g	2000 mL	8.58 SU	.65	22.3 Celsius	22.4 Celsius
LB 680-295691/21		1311, 3010A, 6010C			1000 mL			22.3 Celsius	22.4 Celsius

Lab Sample ID	Client Sample ID	Method Chain	Basis	LeachatepH	ExtractFluid	AnalysisComment			
680-94506-A-4	CV0409A-HA0_1ft	1311, 3010A, 6010C	P	5.83 SU	1	Temp. Min. 21.8 Max. 23.0			
680-94506-A-5	FM0351B-HA0-_1ft	1311, 3010A, 6010C	P	4.70 SU	1	Temp. Min. 21.8 Max. 23.0			
680-94506-A-6	HP0025B-GP0_1ft	1311, 3010A, 6010C	P	5.06 SU	1	Temp. Min. 21.8 Max. 23.0			
680-94506-A-7	FM0265B-GP0_1ft	1311, 3010A, 6010C	P	5.80 SU	1	Temp. Min. 21.8 Max. 23.0			
680-94506-A-8	HP0204B-HA0_1ft	1311, 3010A, 6010C	P	4.94 SU	1	Temp. Min. 21.8 Max. 23.0			

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: TestAmerica Savannah Job No.: 680-94506-1

SDG No.: 680-94506-1

Batch Number: 295691 Batch Start Date: 09/26/13 22:56 Batch Analyst: Boyer, Blake

Batch Method: 1311 Batch End Date: 10/02/13 15:45

Lab Sample ID	Client Sample ID	Method Chain	Basis	LeachatepH	ExtractFluid	AnalysisComment			
680-94506-A-9	HP0228A-GP0_1ft	1311, 3010A, 6010C	P	5.38 SU	1	Temp. Min. 21.8 Max. 23.0			
680-94506-A-10	FM0195C-GP0_1ft	1311, 3010A, 6010C	P	5.24 SU	1	Temp. Min. 21.8 Max. 23.0			
680-94506-A-11	CV1248A-HA0_1ft	1311, 3010A, 6010C	P	5.78 SU	1	Temp. Min. 21.8 Max. 23.0			
680-94506-A-12	CV0246B-HA0_1ft	1311, 3010A, 6010C	P	5.45 SU	1	Temp. Min. 21.8 Max. 23.0			
680-94506-A-13	HP0192B-GP0_1ft	1311, 3010A, 6010C	P	6.70 SU	1	Temp. Min. 21.8 Max. 23.0			
680-94506-A-14	HP0037B-HA0_1ft	1311, 3010A, 6010C	P	6.38 SU	1	Temp. Min. 21.8 Max. 23.0			
680-94506-A-15	CV023B-HA0_1ft	1311, 3010A, 6010C	P	7.21 SU	1	Temp. Min. 21.8 Max. 23.0			
680-94506-A-16	FM0139A-GP0_1ft	1311, 3010A, 6010C	P	6.22 SU	1	Temp. Min. 21.8 Max. 23.0			
680-94506-A-17	CV0003A-HA0_1ft	1311, 3010A, 6010C	P	6.78 SU	1	Temp. Min. 21.8 Max. 23.0			
LB 680-295691/21		1311, 3010A, 6010C			1	Temp. Min. 21.8 Max. 23.0			

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Lab Name: TestAmerica Savannah Job No.: 680-94506-1

SDG No.: 680-94506-1

Batch Number: 295691 Batch Start Date: 09/26/13 22:56 Batch Analyst: Boyer, Blake

Batch Method: 1311 Batch End Date: 10/02/13 15:45

Batch Notes	
1N Lot #	2988084
Balance ID	29
Batch Comment	0926T
Bottle Lot Number	0421301X
pH Buffer 1 ID	EX pH 2.00_00002/2998603
pH Buffer 2 ID	EX pH 4.00 _00004/ 2998453
pH Buffer 3 ID	EX pH 7.00_00005 /2845997
pH Buffer 4 ID	EX pH 10.00_00001 / 2846008
First End time	1456
Filter Lot #	9458611
pH Meter Calibration Slope	95.7
pH Meter ID	EXpH4
Room Temperature during Rotation	24.1 Degrees C
Room Temperature Thermometer ID	EXTCLP1
First Start time	2256
TCLP Fluid 1 ID	3054157
TCLP Fluid 1 pH	4.98
Temperature	23.8
Tumbler Rotations per Minute	30
Uncorrected Room Temperature	23 Celsius
Water Bath ID	WATERBATH 5
Water Bath Temperature	50 Degrees C
Water Bath Thermometer ID	EXTCLPWB1

Basis	Basis Description
P	TCLP

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: TestAmerica Savannah Job No.: 680-94506-1

SDG No.: 680-94506-1

Batch Number: 295884 Batch Start Date: 09/27/13 17:31 Batch Analyst: Boyer, Blake

Batch Method: 1311 Batch End Date: 09/28/13 09:31

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	EFD_InitialpH	EFD_AddHClpH>5	InitialRoomTemp	FinalRoomTemp
680-94506-A-18	CV0511AB-HA0_1ft	1311, 3010A, 6010C	P	100.26 g	2000 mL	8.43 SU	1.09	22.4 Celsius	23.9 Celsius
LB 680-295884/7		1311, 3010A, 6010C			1000 mL			22.4 Celsius	23.9 Celsius

Lab Sample ID	Client Sample ID	Method Chain	Basis	LeachatepH	ExtractFluid				
680-94506-A-18	CV0511AB-HA0_1ft	1311, 3010A, 6010C	P	7.12 SU	1				
LB 680-295884/7		1311, 3010A, 6010C			1				

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: TestAmerica Savannah Job No.: 680-94506-1

SDG No.: 680-94506-1

Batch Number: 295884 Batch Start Date: 09/27/13 17:31 Batch Analyst: Boyer, Blake

Batch Method: 1311 Batch End Date: 09/28/13 09:31

Batch Notes	
1N Lot #	2988084
Balance ID	29
Batch Comment	0927T
Bottle Lot Number	0421301X
pH Buffer 1 ID	EX pH 2.00_00002/2998603
pH Buffer 2 ID	EX pH 4.00 _00004/ 2998453
pH Buffer 3 ID	EX pH 7.00_00005 /2845997
pH Buffer 4 ID	EX pH 10.00_00001 / 2846008
First End time	0931
Filter Lot #	9458611
pH Meter Calibration Slope	95.7
pH Meter ID	EXpH4
Room Temperature during Rotation	22.4 Degrees C
Room Temperature Thermometer ID	EXTCLP1
First Start time	1731
TCLP Fluid 1 ID	3054157
TCLP Fluid 1 pH	4.98
Temperature	23.8
Tumbler Rotations per Minute	30
Uncorrected Room Temperature	23.9 Celsius
Uncorrected Temperature	23.9 Celsius
Water Bath ID	WATERBATH 5
Water Bath Temperature	50 Degrees C
Water Bath Thermometer ID	EXTCLPWB1

Basis	Basis Description
P	TCLP

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: TestAmerica Savannah Job No.: 680-94506-1

SDG No.: 680-94506-1

Batch Number: 296074 Batch Start Date: 09/30/13 09:26 Batch Analyst: Boyuk, Brian J

Batch Method: 3010A Batch End Date: 09/30/13 13:28

Lab Sample ID	Client Sample ID	Method Chain	Basis	Initial pH	InitialAmount	FinalAmount	MS_Ag_LCS_SPK 00012	MS_LCS1_WK 00006	MS_LCS2_wk 00151
MB 680-296074/1		3010A, 6010C			50 mL	50 mL			
LCS 680-296074/2		3010A, 6010C			5 mL	50 mL	1 mL	1 mL	1 mL
LB 680-295691/21-A		3010A, 6010C		<2 SU	5 mL	50 mL			
680-94461-A-2-E MS		3010A, 6010C	P	<2 SU	5 mL	50 mL			
680-94461-A-2-E MSD		3010A, 6010C	P	<2 SU	5 mL	50 mL			
680-94506-A-4-A	CV0409A-HA0_1ft	3010A, 6010C	P	<2 SU	5 mL	50 mL			
680-94506-A-5-A	FM0351B-HA0-_1ft	3010A, 6010C	P	<2 SU	5 mL	50 mL			
680-94506-A-6-A	HP0025B-GP0_1ft	3010A, 6010C	P	<2 SU	5 mL	50 mL			
680-94506-A-7-A	FM0265B-GP0_1ft	3010A, 6010C	P	<2 SU	5 mL	50 mL			
680-94506-A-8-A	HP0204B-HA0_1ft	3010A, 6010C	P	<2 SU	5 mL	50 mL			
680-94506-A-9-A	HP0228A-GP0_1ft	3010A, 6010C	P	<2 SU	5 mL	50 mL			
680-94506-A-10-A	FM0195C-GP0_1ft	3010A, 6010C	P	<2 SU	5 mL	50 mL			
680-94506-A-11-A	CV1248A-HA0_1ft	3010A, 6010C	P	<2 SU	5 mL	50 mL			
680-94506-A-12-A	CV0246B-HA0_1ft	3010A, 6010C	P	<2 SU	5 mL	50 mL			
680-94506-A-13-A	HP0192B-GP0_1ft	3010A, 6010C	P	<2 SU	5 mL	50 mL			
680-94506-A-14-A	HP0037B-HA0_1ft	3010A, 6010C	P	<2 SU	5 mL	50 mL			
680-94506-A-15-A	CV023B-HA0_1ft	3010A, 6010C	P	<2 SU	5 mL	50 mL			
680-94506-A-16-A	FM0139A-GP0_1ft	3010A, 6010C	P	<2 SU	5 mL	50 mL			
680-94506-A-17-A	CV0003A-HA0_1ft	3010A, 6010C	P	<2 SU	5 mL	50 mL			

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: TestAmerica Savannah Job No.: 680-94506-1

SDG No.: 680-94506-1

Batch Number: 296074 Batch Start Date: 09/30/13 09:26 Batch Analyst: Boyuk, Brian J

Batch Method: 3010A Batch End Date: 09/30/13 13:28

Batch Notes	
Lot # of hydrochloric acid	3272800
Lot # of Nitric Acid	3261252
Hot Block ID number	hb7
Pipette ID	me9 me8
ID number of the thermometer	meprep111
Digestion Tube/Cup Lot #	1303205
Uncorrected Temperature	93 Celsius

Basis	Basis Description
P	TCLP

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: TestAmerica Savannah Job No.: 680-94506-1

SDG No.: 680-94506-1

Batch Number: 296085 Batch Start Date: 09/30/13 09:47 Batch Analyst: Boyuk, Brian J

Batch Method: 3010A Batch End Date: 09/30/13 13:31

Lab Sample ID	Client Sample ID	Method Chain	Basis	Initial pH	InitialAmount	FinalAmount	MS_Ag_LCS_SPK 00012	MS_LCS1_WK 00006	MS_LCS2_wk 00151
MB 680-296085/1		3010A, 6010C			50 mL	50 mL			
LCS 680-296085/2		3010A, 6010C			5 mL	50 mL	1 mL	1 mL	1 mL
LB 680-295919/5-A		3010A, 6010C		<2 SU	5 mL	50 mL			
680-94579-A-1-A MS		3010A, 6010C	P	<2 SU	5 mL	50 mL			
680-94579-A-1-A MSD		3010A, 6010C	P	<2 SU	5 mL	50 mL			
LB 680-295884/7-A		3010A, 6010C		<2 SU	5 mL	50 mL			
680-94506-A-18-A	CV0511AB-HA0_1ft	3010A, 6010C	P	<2 SU	5 mL	50 mL			

Batch Notes	
Lot # of hydrochloric acid	3272800
Lot # of Nitric Acid	3261252
Hot Block ID number	hb5
Pipette ID	me9 me8
ID number of the thermometer	meprep13
Digestion Tube/Cup Lot #	1303205
Uncorrected Temperature	93 Celsius

Basis	Basis Description
P	TCLP

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY

COVER PAGE
GENERAL CHEMISTRY

Lab Name: TestAmerica Savannah Job Number: 680-94506-1

SDG No.: 680-94506-1

Project: 35th Avenue Superfund Site

Client Sample ID	Lab Sample ID
WCRW-GP01-0_6in	680-94506-1
WCRW-GP01-0_6inD	680-94506-2
WCWL-GP08-0_2ft	680-94506-3

Comments:

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Savannah Job Number: 680-94506-1

SDG Number: 680-94506-1

Matrix: Solid Instrument ID: NOEQUIP

Method: Moisture RL Date: 01/01/2005 13:43

Analyte	Wavelength/ Mass	RL (%)	
Percent Moisture		0.01	

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Savannah Job Number: 680-94506-1

SDG Number: 680-94506-1

Matrix: Solid Instrument ID: NOEQUIP

Method: Moisture XRL Date: 04/09/2011 17:03

Analyte	Wavelength/ Mass	XRL (%)	
Percent Moisture		0.01	

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Savannah Job No.: 680-94506-1

SDG No.: 680-94506-1

Instrument ID: NOEQUIP Method: Moisture

Start Date: 09/24/2013 15:28 End Date: 09/24/2013 15:28

Lab Sample ID	D / F	Type	Time	Analytes																			
				Moist																			
680-94506-1	1	T	15:28	X																			
680-94506-2	1	T	15:28	X																			
680-94506-3	1	T	15:28	X																			
ZZZZZZ			15:28																				
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680-94500-B-5 MS	1	T	15:28	X																			
680-94500-B-5 MSD	1	T	15:28	X																			
ZZZZZZ			15:28																				
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Prep Types

T = Total/NA

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Savannah Job No.: 680-94506-1

SDG No.: 680-94506-1

Batch Number: 295276 Batch Start Date: 09/24/13 15:28 Batch Analyst: Kicklighter, Marilyn D

Batch Method: Moisture Batch End Date: 09/25/13 09:05

Lab Sample ID	Client Sample ID	Method Chain	Basis	DishWeight	SampleMassWet	SampleMassDry			
680-94506-A-1	WCRW-GP01-0_6in	Moisture	T	1.29 g	8.65 g	8.24 g			
680-94506-A-2	WCRW-GP01-0_6inD	Moisture	T	1.28 g	9.40 g	8.91 g			
680-94506-A-3	WCWL-GP08-0_2ft	Moisture	T	1.27 g	8.15 g	7.78 g			
680-94500-B-5 MS		Moisture	T	1.27 g	8.57 g	7.69 g			
680-94500-B-5 MSD		Moisture	T	1.27 g	7.51 g	6.79 g			

Batch Notes	
Balance ID	19 No Unit
Date samples were placed in the oven	09/24/13
Oven Temp when samples are put in oven	110 Degrees C
Time samples were place in the oven	16.00
Date samples were removed from oven	09/25/13
Oven Temp when samples removed from oven	109 Degrees C
Time Samples were removed from oven	08.40
Oven ID	cuoi
ID number of the thermometer	meo2a

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Shipping and Receiving Documents

Serial Number 59221 (1)

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

Alternate Laboratory Name/Location
Phone:
Fax:

PROJECT REFERENCE: 35th Ave Removal Site	PROJECT NO.: 2005148-1356	PROJECT LOCATION (STATE): AL	PAGE 1 OF 2
TAL (LAB) PROJECT MANAGER:	P.O. NUMBER:	CONTRACT NO.:	STANDARD REPORT DELIVERY (●) DATE DUE
CLIENT (SITE) PM: Russell Henderson	CLIENT PHONE: 678-355-5550	CLIENT FAX: 770-528-0167	EXPEDITED REPORT DELIVERY (SURCHARGE) ( ) DATE DUE
CLIENT NAME: OTIE	CLIENT E-MAIL: rhenderson@otie.com		
CLIENT ADDRESS: 1220 Kennestone Suite 106, Marietta, GA 30066			NUMBER OF COOLERS SUBMITTED PER SHIPMENT: 1
COMPANY CONTRACTING THIS WORK (if applicable):			

MATRIX TYPE: COMPOSITE (C) OR GRAB (G) INDICATE; AQUEOUS (WATER); SOLID OR SEMISOLID; AIR; NONAQUEOUS LIQUID (OIL, SOLVENT, ...)

REQUIRED ANALYSIS: RCRA 7 metals; TCLP RCRA 7 metals

PRESERVATIVE: 3; ~~5~~ 9

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	RCRA 7 metals	TCLP RCRA 7 metals	REMARKS
9/18/13	1330	WCRW-GP01-0-6in	G					X		
9/18/13	1330	WCRW-GP01-0-6inD	G					X		
9/18/13	1730	WCWL-GP08-0-2ft	G					X		
9/19/13	1535	CV0409A-HA0-1ft	G						X	
9/19/13	0935	FM0351B-HA0-1ft	G						X	
9/18/13	1015	HP0025B-GP0-1ft	G						X	
9/19/13	1030	FM0265B-GP0-1ft	G						X	
9/19/13	1430	HP0204B-HA0-1ft	G						X	
9/18/13	1115	HP0228A-GP0-1ft	G						X	
9/19/13	1102	FM0195C-GP0-1ft	G						X	
9/20/13	0810	CV1248A-HA0-1ft	G						X	
9/17/13	1300	CV0246B-HA0-1ft	G						X	

680-94506 Chain of Custody

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
[signature]	9/23/13	1243						
RECEIVED BY: (SIGNATURE)	**DATE**	**TIME**	**RECEIVED BY: (SIGNATURE)**	**DATE**	**TIME**	**RECEIVED BY: (SIGNATURE)**	**DATE**	**TIME**

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS
[signature]	09/24/13	0919	YES ( ) NO ( )		680-94506	4.0°C

10/07/2013

TAL8240-680 (1008)

Serial Number 59218 (2)

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

Alternate Laboratory Name/Location
Phone:
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
TAL (LAB) PROJECT MANAGER: same	P.O. NUMBER: QS #1	CONTRACT NO.
CLIENT (SITE) PM	CLIENT PHONE	CLIENT FAX
CLIENT NAME	CLIENT E-MAIL	
CLIENT ADDRESS		
COMPANY CONTRACTING THIS WORK (if applicable)		

PAGE 2 OF 2

STANDARD REPORT DELIVERY (X)
DATE DUE
EXPEDITED REPORT DELIVERY (SURCHARGE) ( )
DATE DUE

NUMBER OF COOLERS SUBMITTED PER SHIPMENT: 1

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	MATRIX: AQUEOUS (WATER)	MATRIX: SOLID OR SEMISOLID	MATRIX: AIR	MATRIX: NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	REQUIRED ANALYSIS: TCLP 7 RCRA metals	NUMBER OF CONTAINERS SUBMITTED: 6	PRESERVATIVE	REMARKS
9/19/13	1400	HP0192B-GP0-1ft	G					X			
9/19/13	1505	HP0037B-HA0-1ft	G					X			
9/20/13	0855	CV023B-HA0-1ft	G					X			
9/19/13	1205	FM0139A-GP0-1ft	G					X			
9/19/13	1555	CV0003A-HA0-1ft	G					X			
9/20/13	0800	CV0511AB-HA0-1ft	G					X			

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
	9/23/13	1243						
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS
	09/24/13	0919	YES ( ) NO ( )		680-94506	4.0° C

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10/07/2013

TAL8240-680 (1008)

Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-94506-1
SDG Number: 680-94506-1

Login Number: 94506
List Source: TestAmerica Savannah
List Number: 1
Creator: Conner, Keaton

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Tel: (912)354-7858

TestAmerica Job ID: 680-94506-1
TestAmerica Sample Delivery Group: 680-94506-1
Client Project/Site: 35th Avenue Superfund Site

For:
Oneida Total Integrated Enterprises LLC
1220 Kennestone Circle
Suite 106
Marietta, Georgia 30060

Attn: Ms. Limari F Krebs

Authorized for release by:
10/7/2013 5:20:48 PM

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Results relate only to the items tested and the sample(s) as received by the laboratory.

Job ID: 680-94506-1

Laboratory: TestAmerica Savannah

Narrative

CASE NARRATIVE
Client: Oneida Total Integrated Enterprises LLC
Project: 35th Avenue Superfund Site
Report Number: 680-94506-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 9/24/2013 9:19 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 4.0º C and 4.5º C.

METALS (ICP) - TCLP

Samples CV0409A-HA0_1ft (680-94506-4), FM0351B-HA0-_1ft (680-94506-5), HP0025B-GP0_1ft (680-94506-6), FM0265B-GP0_1ft (680-94506-7), HP0204B-HA0_1ft (680-94506-8), HP0228A-GP0_1ft (680-94506-9), FM0195C-GP0_1ft (680-94506-10), CV1248A-HA0_1ft (680-94506-11), CV0246B-HA0_1ft (680-94506-12), HP0192B-GP0_1ft (680-94506-13), HP0037B-HA0_1ft (680-94506-14), CV023B-HA0_1ft (680-94506-15), FM0139A-GP0_1ft (680-94506-16), CV0003A-HA0_1ft (680-94506-17) and CV0511AB-HA0_1ft (680-94506-18) were analyzed for Metals (ICP) - TCLP in accordance with EPA SW-846 Methods 1311/6010C.

Method(s) 6010C: The serial dilution performed for the following sample(s) associated with batch 680-295281 was outside control limits for barium: (680-94506-1 SD)

Method(s) 6010C: The post digestion spike % recovery for lead associated with batch 680-295281 was outside of control limits.

Method(s) 6010C: Due to the high concentration of barium, the matrix spike / matrix spike duplicate (MS/MSD) for batch 680-295281 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria.

Method(s) 6010C: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 680-295281 were outside control limits for arsenic, cadmium, chromium, lead, and selenium. The associated laboratory control sample (LCS) recovery met acceptance criteria.

METALS (ICP)

Samples WCRW-GP01-0__6in (680-94506-1), WCRW-GP01-0_6inD (680-94506-2) and WCWL-GP08-0_2ft (680-94506-3) were analyzed for Metals (ICP) in accordance with EPA SW-846 Method 6010C.

Several analytes recoveries are outside criteria for the MS and MSD of sample WCRW-GP01-0__6in (680-94506-1) in batch 680-295566.

Method(s) 6010B, 6010C: The post digestion spike % recovery for silver associated with batch 680-296074 was outside of control limits.

PERCENT SOLIDS/MOISTURE

Samples WCRW-GP01-0__6in (680-94506-1), WCRW-GP01-0_6inD (680-94506-2) and WCWL-GP08-0_2ft (680-94506-3) were analyzed for Percent Solids/Moisture in accordance with TestAmerica SOP.

Sample Summary

Client: Oneida Total Integrated Enterprises LLC
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-94506-1
SDG: 680-94506-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-94506-1	WCRW-GP01-0_6in	Solid	09/18/13 13:30	09/24/13 09:19
680-94506-2	WCRW-GP01-0_6inD	Solid	09/18/13 13:30	09/24/13 09:19
680-94506-3	WCWL-GP08-0_2ft	Solid	09/18/13 17:30	09/24/13 09:19
680-94506-4	CV0409A-HA0_1ft	Solid	09/19/13 15:35	09/24/13 09:19
680-94506-5	FM0351B-HA0-_1ft	Solid	09/19/13 09:35	09/24/13 09:19
680-94506-6	HP0025B-GP0_1ft	Solid	09/18/13 10:15	09/24/13 09:19
680-94506-7	FM0265B-GP0_1ft	Solid	09/19/13 10:30	09/24/13 09:19
680-94506-8	HP0204B-HA0_1ft	Solid	09/19/13 14:30	09/24/13 09:19
680-94506-9	HP0228A-GP0_1ft	Solid	09/18/13 11:15	09/24/13 09:19
680-94506-10	FM0195C-GP0_1ft	Solid	09/19/13 11:02	09/24/13 09:19
680-94506-11	CV1248A-HA0_1ft	Solid	09/20/13 08:10	09/24/13 09:19
680-94506-12	CV0246B-HA0_1ft	Solid	09/17/13 13:00	09/24/13 09:19
680-94506-13	HP0192B-GP0_1ft	Solid	09/19/13 14:00	09/24/13 09:19
680-94506-14	HP0037B-HA0_1ft	Solid	09/19/13 15:05	09/24/13 09:19
680-94506-15	CV023B-HA0_1ft	Solid	09/20/13 08:55	09/24/13 09:19
680-94506-16	FM0139A-GP0_1ft	Solid	09/19/13 12:05	09/24/13 09:19
680-94506-17	CV0003A-HA0_1ft	Solid	09/19/13 15:55	09/24/13 09:19
680-94506-18	CV0511AB-HA0_1ft	Solid	09/20/13 08:00	09/24/13 09:19

Method Summary

Client: Oneida Total Integrated Enterprises LLC
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-94506-1
SDG: 680-94506-1

Method	Method Description	Protocol	Laboratory
6010C	Metals (ICP)	SW846	TAL SAV
Moisture	Percent Moisture	EPA	TAL SAV

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Qualifiers

Metals

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
F	MS/MSD Recovery and/or RPD exceeds the control limits
4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client Sample ID: WCRW-GP01-0_6in

Lab Sample ID: 680-94506-1
Date Collected: 09/18/13 13:30
Matrix: Solid
Date Received: 09/24/13 09:19
Percent Solids: 94.4

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**4.0**		2.0	0.58	mg/Kg	☼	09/24/13 15:40	09/25/13 19:50	1
Barium	**290**		0.99	0.30	mg/Kg	☼	09/24/13 15:40	09/25/13 19:50	1
Cadmium	0.49	U	0.49	0.099	mg/Kg	☼	09/24/13 15:40	09/25/13 19:50	1
Chromium	**15**		0.99	0.49	mg/Kg	☼	09/24/13 15:40	09/25/13 19:50	1
Lead	**4.3**		0.99	0.52	mg/Kg	☼	09/24/13 15:40	09/25/13 19:50	1
Selenium	**3.4**		2.5	0.99	mg/Kg	☼	09/24/13 15:40	09/25/13 19:50	1
Silver	0.99	U	0.99	0.095	mg/Kg	☼	09/24/13 15:40	09/25/13 19:50	1

Client Sample ID: WCRW-GP01-0_6inD

Lab Sample ID: 680-94506-2
Date Collected: 09/18/13 13:30
Matrix: Solid
Date Received: 09/24/13 09:19
Percent Solids: 94.0

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**4.3**		1.9	0.55	mg/Kg	☼	09/24/13 15:40	09/25/13 20:22	1
Barium	**290**		0.93	0.28	mg/Kg	☼	09/24/13 15:40	09/25/13 20:22	1
Cadmium	0.47	U	0.47	0.093	mg/Kg	☼	09/24/13 15:40	09/25/13 20:22	1
Chromium	**14**		0.93	0.47	mg/Kg	☼	09/24/13 15:40	09/25/13 20:22	1
Lead	**4.9**		0.93	0.49	mg/Kg	☼	09/24/13 15:40	09/25/13 20:22	1
Selenium	**4.0**		2.3	0.93	mg/Kg	☼	09/24/13 15:40	09/25/13 20:22	1
Silver	0.93	U	0.93	0.090	mg/Kg	☼	09/24/13 15:40	09/25/13 20:22	1

Client Sample ID: WCWL-GP08-0_2ft

Lab Sample ID: 680-94506-3
Date Collected: 09/18/13 17:30
Matrix: Solid
Date Received: 09/24/13 09:19
Percent Solids: 94.6

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**20**		2.0	0.58	mg/Kg	☼	09/24/13 15:40	09/25/13 20:27	1
Barium	**230**		0.99	0.30	mg/Kg	☼	09/24/13 15:40	09/25/13 20:27	1
Cadmium	**6.7**		0.49	0.099	mg/Kg	☼	09/24/13 15:40	09/25/13 20:27	1
Chromium	**57**		0.99	0.49	mg/Kg	☼	09/24/13 15:40	09/25/13 20:27	1
Lead	**700**		0.99	0.52	mg/Kg	☼	09/24/13 15:40	09/25/13 20:27	1
Selenium	2.5	U	2.5	0.99	mg/Kg	☼	09/24/13 15:40	09/25/13 20:27	1
Silver	**0.24**	**J**	0.99	0.095	mg/Kg	☼	09/24/13 15:40	09/25/13 20:27	1

Client Sample ID: CV0409A-HA0_1ft

Lab Sample ID: 680-94506-4
Date Collected: 09/19/13 15:35
Matrix: Solid
Date Received: 09/24/13 09:19

Method: 6010C - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.20	U	0.20	0.20	mg/L		09/30/13 09:27	09/30/13 17:23	1
Barium	1.0	U	1.0	1.0	mg/L		09/30/13 09:27	09/30/13 17:23	1
Cadmium	0.10	U	0.10	0.10	mg/L		09/30/13 09:27	09/30/13 17:23	1
Chromium	0.20	U	0.20	0.20	mg/L		09/30/13 09:27	09/30/13 17:23	1
Lead	0.20	U	0.20	0.20	mg/L		09/30/13 09:27	09/30/13 17:23	1
Selenium	0.50	U	0.50	0.50	mg/L		09/30/13 09:27	09/30/13 17:23	1
Silver	0.10	U	0.10	0.10	mg/L		09/30/13 09:27	09/30/13 17:23	1

Client Sample ID: FM0351B-HA0-_1ft

Lab Sample ID: 680-94506-5

Date Collected: 09/19/13 09:35
Matrix: Solid
Date Received: 09/24/13 09:19

Method: 6010C - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.20	U	0.20	0.20	mg/L		09/30/13 09:27	09/30/13 17:27	1
Barium	1.0	U	1.0	1.0	mg/L		09/30/13 09:27	09/30/13 17:27	1
Cadmium	0.10	U	0.10	0.10	mg/L		09/30/13 09:27	09/30/13 17:27	1
Chromium	0.20	U	0.20	0.20	mg/L		09/30/13 09:27	09/30/13 17:27	1
Lead	0.20	U	0.20	0.20	mg/L		09/30/13 09:27	09/30/13 17:27	1
Selenium	0.50	U	0.50	0.50	mg/L		09/30/13 09:27	09/30/13 17:27	1
Silver	0.10	U	0.10	0.10	mg/L		09/30/13 09:27	09/30/13 17:27	1

Client Sample ID: HP0025B-GP0_1ft

Lab Sample ID: 680-94506-6

Date Collected: 09/18/13 10:15
Matrix: Solid
Date Received: 09/24/13 09:19

Method: 6010C - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.20	U	0.20	0.20	mg/L		09/30/13 09:27	09/30/13 17:32	1
Barium	**3.8**		1.0	1.0	mg/L		09/30/13 09:27	09/30/13 17:32	1
Cadmium	0.10	U	0.10	0.10	mg/L		09/30/13 09:27	09/30/13 17:32	1
Chromium	0.20	U	0.20	0.20	mg/L		09/30/13 09:27	09/30/13 17:32	1
Lead	**1.0**		0.20	0.20	mg/L		09/30/13 09:27	09/30/13 17:32	1
Selenium	0.50	U	0.50	0.50	mg/L		09/30/13 09:27	09/30/13 17:32	1
Silver	0.10	U	0.10	0.10	mg/L		09/30/13 09:27	09/30/13 17:32	1

Client Sample ID: FM0265B-GP0_1ft

Lab Sample ID: 680-94506-7

Date Collected: 09/19/13 10:30
Matrix: Solid
Date Received: 09/24/13 09:19

Method: 6010C - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.20	U	0.20	0.20	mg/L		09/30/13 09:27	09/30/13 17:36	1
Barium	**1.1**		1.0	1.0	mg/L		09/30/13 09:27	09/30/13 17:36	1
Cadmium	0.10	U	0.10	0.10	mg/L		09/30/13 09:27	09/30/13 17:36	1
Chromium	0.20	U	0.20	0.20	mg/L		09/30/13 09:27	09/30/13 17:36	1
Lead	**1.5**		0.20	0.20	mg/L		09/30/13 09:27	09/30/13 17:36	1
Selenium	0.50	U	0.50	0.50	mg/L		09/30/13 09:27	09/30/13 17:36	1
Silver	0.10	U	0.10	0.10	mg/L		09/30/13 09:27	09/30/13 17:36	1

Client Sample ID: HP0204B-HA0_1ft

Lab Sample ID: 680-94506-8

Date Collected: 09/19/13 14:30
Matrix: Solid
Date Received: 09/24/13 09:19

Method: 6010C - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.20	U	0.20	0.20	mg/L		09/30/13 09:27	09/30/13 17:41	1
Barium	1.0	U	1.0	1.0	mg/L		09/30/13 09:27	09/30/13 17:41	1
Cadmium	0.10	U	0.10	0.10	mg/L		09/30/13 09:27	09/30/13 17:41	1
Chromium	0.20	U	0.20	0.20	mg/L		09/30/13 09:27	09/30/13 17:41	1
Lead	0.20	U	0.20	0.20	mg/L		09/30/13 09:27	09/30/13 17:41	1
Selenium	0.50	U	0.50	0.50	mg/L		09/30/13 09:27	09/30/13 17:41	1
Silver	0.10	U	0.10	0.10	mg/L		09/30/13 09:27	09/30/13 17:41	1

Client Sample ID: HP0228A-GP0_1ft

Lab Sample ID: 680-94506-9

Date Collected: 09/18/13 11:15
Matrix: Solid
Date Received: 09/24/13 09:19

Method: 6010C - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.20	U	0.20	0.20	mg/L		09/30/13 09:27	09/30/13 17:45	1
Barium	1.0	U	1.0	1.0	mg/L		09/30/13 09:27	09/30/13 17:45	1
Cadmium	0.10	U	0.10	0.10	mg/L		09/30/13 09:27	09/30/13 17:45	1
Chromium	0.20	U	0.20	0.20	mg/L		09/30/13 09:27	09/30/13 17:45	1
Lead	0.20	U	0.20	0.20	mg/L		09/30/13 09:27	09/30/13 17:45	1
Selenium	0.50	U	0.50	0.50	mg/L		09/30/13 09:27	09/30/13 17:45	1
Silver	0.10	U	0.10	0.10	mg/L		09/30/13 09:27	09/30/13 17:45	1

Client Sample ID: FM0195C-GP0_1ft

Lab Sample ID: 680-94506-10

Date Collected: 09/19/13 11:02
Matrix: Solid
Date Received: 09/24/13 09:19

Method: 6010C - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.20	U	0.20	0.20	mg/L		09/30/13 09:27	09/30/13 17:50	1
Barium	1.0	U	1.0	1.0	mg/L		09/30/13 09:27	09/30/13 17:50	1
Cadmium	0.10	U	0.10	0.10	mg/L		09/30/13 09:27	09/30/13 17:50	1
Chromium	0.20	U	0.20	0.20	mg/L		09/30/13 09:27	09/30/13 17:50	1
Lead	39		0.20	0.20	mg/L		09/30/13 09:27	09/30/13 17:50	1
Selenium	0.50	U	0.50	0.50	mg/L		09/30/13 09:27	09/30/13 17:50	1
Silver	0.10	U	0.10	0.10	mg/L		09/30/13 09:27	09/30/13 17:50	1

Client Sample ID: CV1248A-HA0_1ft

Lab Sample ID: 680-94506-11

Date Collected: 09/20/13 08:10
Matrix: Solid
Date Received: 09/24/13 09:19

Method: 6010C - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.20	U	0.20	0.20	mg/L		09/30/13 09:27	09/30/13 17:55	1
Barium	1.0	U	1.0	1.0	mg/L		09/30/13 09:27	09/30/13 17:55	1
Cadmium	0.10	U	0.10	0.10	mg/L		09/30/13 09:27	09/30/13 17:55	1
Chromium	0.20	U	0.20	0.20	mg/L		09/30/13 09:27	09/30/13 17:55	1
Lead	0.20	U	0.20	0.20	mg/L		09/30/13 09:27	09/30/13 17:55	1
Selenium	0.50	U	0.50	0.50	mg/L		09/30/13 09:27	09/30/13 17:55	1
Silver	0.10	U	0.10	0.10	mg/L		09/30/13 09:27	09/30/13 17:55	1

Client Sample ID: CV0246B-HA0_1ft

Lab Sample ID: 680-94506-12

Date Collected: 09/17/13 13:00
Matrix: Solid
Date Received: 09/24/13 09:19

Method: 6010C - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.20	U	0.20	0.20	mg/L		09/30/13 09:27	09/30/13 17:59	1
Barium	1.0	U	1.0	1.0	mg/L		09/30/13 09:27	09/30/13 17:59	1
Cadmium	0.10	U	0.10	0.10	mg/L		09/30/13 09:27	09/30/13 17:59	1
Chromium	0.20	U	0.20	0.20	mg/L		09/30/13 09:27	09/30/13 17:59	1
Lead	0.20	U	0.20	0.20	mg/L		09/30/13 09:27	09/30/13 17:59	1
Selenium	0.50	U	0.50	0.50	mg/L		09/30/13 09:27	09/30/13 17:59	1
Silver	0.10	U	0.10	0.10	mg/L		09/30/13 09:27	09/30/13 17:59	1

Client Sample ID: HP0192B-GP0_1ft — **Lab Sample ID: 680-94506-13**
Date Collected: 09/19/13 14:00 — **Matrix: Solid**
Date Received: 09/24/13 09:19

Method: 6010C - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.20	U	0.20	0.20	mg/L		09/30/13 09:27	09/30/13 18:13	1
Barium	1.0	U	1.0	1.0	mg/L		09/30/13 09:27	09/30/13 18:13	1
Cadmium	0.10	U	0.10	0.10	mg/L		09/30/13 09:27	09/30/13 18:13	1
Chromium	0.20	U	0.20	0.20	mg/L		09/30/13 09:27	09/30/13 18:13	1
Lead	0.20	U	0.20	0.20	mg/L		09/30/13 09:27	09/30/13 18:13	1
Selenium	0.50	U	0.50	0.50	mg/L		09/30/13 09:27	09/30/13 18:13	1
Silver	0.10	U	0.10	0.10	mg/L		09/30/13 09:27	09/30/13 18:13	1

Client Sample ID: HP0037B-HA0_1ft — **Lab Sample ID: 680-94506-14**
Date Collected: 09/19/13 15:05 — **Matrix: Solid**
Date Received: 09/24/13 09:19

Method: 6010C - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.20	U	0.20	0.20	mg/L		09/30/13 09:27	09/30/13 18:18	1
Barium	1.0	U	1.0	1.0	mg/L		09/30/13 09:27	09/30/13 18:18	1
Cadmium	0.10	U	0.10	0.10	mg/L		09/30/13 09:27	09/30/13 18:18	1
Chromium	0.20	U	0.20	0.20	mg/L		09/30/13 09:27	09/30/13 18:18	1
Lead	0.20	U	0.20	0.20	mg/L		09/30/13 09:27	09/30/13 18:18	1
Selenium	0.50	U	0.50	0.50	mg/L		09/30/13 09:27	09/30/13 18:18	1
Silver	0.10	U	0.10	0.10	mg/L		09/30/13 09:27	09/30/13 18:18	1

Client Sample ID: CV023B-HA0_1ft — **Lab Sample ID: 680-94506-15**
Date Collected: 09/20/13 08:55 — **Matrix: Solid**
Date Received: 09/24/13 09:19

Method: 6010C - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.20	U	0.20	0.20	mg/L		09/30/13 09:27	09/30/13 18:22	1
Barium	**1.4**		1.0	1.0	mg/L		09/30/13 09:27	09/30/13 18:22	1
Cadmium	0.10	U	0.10	0.10	mg/L		09/30/13 09:27	09/30/13 18:22	1
Chromium	0.20	U	0.20	0.20	mg/L		09/30/13 09:27	09/30/13 18:22	1
Lead	0.20	U	0.20	0.20	mg/L		09/30/13 09:27	09/30/13 18:22	1
Selenium	0.50	U	0.50	0.50	mg/L		09/30/13 09:27	09/30/13 18:22	1
Silver	0.10	U	0.10	0.10	mg/L		09/30/13 09:27	09/30/13 18:22	1

Client Sample ID: FM0139A-GP0_1ft — **Lab Sample ID: 680-94506-16**
Date Collected: 09/19/13 12:05 — **Matrix: Solid**
Date Received: 09/24/13 09:19

Method: 6010C - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.20	U	0.20	0.20	mg/L		09/30/13 09:27	09/30/13 18:27	1
Barium	1.0	U	1.0	1.0	mg/L		09/30/13 09:27	09/30/13 18:27	1
Cadmium	0.10	U	0.10	0.10	mg/L		09/30/13 09:27	09/30/13 18:27	1
Chromium	0.20	U	0.20	0.20	mg/L		09/30/13 09:27	09/30/13 18:27	1
Lead	0.20	U	0.20	0.20	mg/L		09/30/13 09:27	09/30/13 18:27	1
Selenium	0.50	U	0.50	0.50	mg/L		09/30/13 09:27	09/30/13 18:27	1
Silver	0.10	U	0.10	0.10	mg/L		09/30/13 09:27	09/30/13 18:27	1

Client: Oneida Total Integrated Enterprises LLC
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-94506-1
SDG: 680-94506-1

Client Sample ID: CV0003A-HA0_1ft — **Lab Sample ID: 680-94506-17**
Date Collected: 09/19/13 15:55 — **Matrix: Solid**
Date Received: 09/24/13 09:19

Method: 6010C - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.20	U	0.20	0.20	mg/L		09/30/13 09:27	09/30/13 18:31	1
Barium	1.0	U	1.0	1.0	mg/L		09/30/13 09:27	09/30/13 18:31	1
Cadmium	0.10	U	0.10	0.10	mg/L		09/30/13 09:27	09/30/13 18:31	1
Chromium	0.20	U	0.20	0.20	mg/L		09/30/13 09:27	09/30/13 18:31	1
Lead	0.20	U	0.20	0.20	mg/L		09/30/13 09:27	09/30/13 18:31	1
Selenium	0.50	U	0.50	0.50	mg/L		09/30/13 09:27	09/30/13 18:31	1
Silver	0.10	U	0.10	0.10	mg/L		09/30/13 09:27	09/30/13 18:31	1

Client Sample ID: CV0511AB-HA0_1ft — **Lab Sample ID: 680-94506-18**
Date Collected: 09/20/13 08:00 — **Matrix: Solid**
Date Received: 09/24/13 09:19

Method: 6010C - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.20	U	0.20	0.20	mg/L		09/30/13 09:47	09/30/13 19:49	1
Barium	1.0	U	1.0	1.0	mg/L		09/30/13 09:47	09/30/13 19:49	1
Cadmium	0.10	U	0.10	0.10	mg/L		09/30/13 09:47	09/30/13 19:49	1
Chromium	0.20	U	0.20	0.20	mg/L		09/30/13 09:47	09/30/13 19:49	1
Lead	0.20	U	0.20	0.20	mg/L		09/30/13 09:47	09/30/13 19:49	1
Selenium	0.50	U	0.50	0.50	mg/L		09/30/13 09:47	09/30/13 19:49	1
Silver	0.10	U	0.10	0.10	mg/L		09/30/13 09:47	09/30/13 19:49	1

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 680-295281/1-A
Matrix: Solid
Analysis Batch: 295566

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 295281

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.0	U	2.0	0.59	mg/Kg		09/24/13 15:40	09/25/13 19:41	1
Barium	1.0	U	1.0	0.30	mg/Kg		09/24/13 15:40	09/25/13 19:41	1
Cadmium	0.50	U	0.50	0.10	mg/Kg		09/24/13 15:40	09/25/13 19:41	1
Chromium	1.0	U	1.0	0.50	mg/Kg		09/24/13 15:40	09/25/13 19:41	1
Lead	1.0	U	1.0	0.53	mg/Kg		09/24/13 15:40	09/25/13 19:41	1
Selenium	2.5	U	2.5	1.0	mg/Kg		09/24/13 15:40	09/25/13 19:41	1
Silver	1.0	U	1.0	0.096	mg/Kg		09/24/13 15:40	09/25/13 19:41	1

Lab Sample ID: LCS 680-295281/2-A
Matrix: Solid
Analysis Batch: 295566

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 295281

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	10.0	9.69		mg/Kg		97	75 - 125
Barium	10.0	9.77		mg/Kg		98	75 - 125
Cadmium	5.00	4.89		mg/Kg		98	75 - 125
Chromium	10.0	10.2		mg/Kg		102	75 - 125
Lead	5.00	4.94		mg/Kg		99	75 - 125
Selenium	10.0	9.63		mg/Kg		96	75 - 125
Silver	5.00	5.60		mg/Kg		112	75 - 125

Lab Sample ID: 680-94506-1 MS
Matrix: Solid
Analysis Batch: 295566

Client Sample ID: WCRW-GP01-0_6in
Prep Type: Total/NA
Prep Batch: 295281

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	4.0		9.81	11.2	F	mg/Kg	☼	74	75 - 125
Barium	290		9.81	261	4	mg/Kg	☼	-261	75 - 125
Cadmium	0.49	U	4.90	3.01	F	mg/Kg	☼	61	75 - 125
Chromium	15		9.81	20.4	F	mg/Kg	☼	50	75 - 125
Lead	4.3		4.90	7.45	F	mg/Kg	☼	64	75 - 125
Selenium	3.4		9.81	10.5	F	mg/Kg	☼	72	75 - 125
Silver	0.99	U	4.90	4.18		mg/Kg	☼	85	75 - 125

Lab Sample ID: 680-94506-1 MSD
Matrix: Solid
Analysis Batch: 295566

Client Sample ID: WCRW-GP01-0_6in
Prep Type: Total/NA
Prep Batch: 295281

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	4.0		9.90	10.5	F	mg/Kg	☼	66	75 - 125	7	20
Barium	290		9.90	250	4	mg/Kg	☼	-378	75 - 125	5	20
Cadmium	0.49	U	4.95	2.84	F	mg/Kg	☼	57	75 - 125	6	20
Chromium	15		9.90	18.3	F	mg/Kg	☼	29	75 - 125	11	20
Lead	4.3		4.95	7.60	F	mg/Kg	☼	67	75 - 125	2	20
Selenium	3.4		9.90	9.55	F	mg/Kg	☼	62	75 - 125	10	20
Silver	0.99	U	4.95	3.88		mg/Kg	☼	78	75 - 125	7	20

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: MB 680-296074/1-A
Matrix: Solid
Analysis Batch: 296235

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 296074

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.020	U	0.020	0.020	mg/L		09/30/13 09:27	09/30/13 16:19	1
Barium	0.10	U	0.10	0.10	mg/L		09/30/13 09:27	09/30/13 16:19	1
Cadmium	0.010	U	0.010	0.010	mg/L		09/30/13 09:27	09/30/13 16:19	1
Chromium	0.020	U	0.020	0.020	mg/L		09/30/13 09:27	09/30/13 16:19	1
Lead	0.020	U	0.020	0.020	mg/L		09/30/13 09:27	09/30/13 16:19	1
Selenium	0.050	U	0.050	0.050	mg/L		09/30/13 09:27	09/30/13 16:19	1
Silver	0.010	U	0.010	0.010	mg/L		09/30/13 09:27	09/30/13 16:19	1

Lab Sample ID: LCS 680-296074/2-A
Matrix: Solid
Analysis Batch: 296235

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 296074

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	2.00	2.12		mg/L		106	75 - 125
Barium	2.00	2.13		mg/L		106	75 - 125
Cadmium	1.00	1.04		mg/L		104	75 - 125
Chromium	2.00	2.13		mg/L		106	75 - 125
Lead	1.00	1.05		mg/L		105	75 - 125
Selenium	2.00	2.20		mg/L		110	75 - 125
Silver	1.00	1.20		mg/L		120	75 - 125

Lab Sample ID: MB 680-296085/1-A
Matrix: Solid
Analysis Batch: 296235

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 296085

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.020	U	0.020	0.020	mg/L		09/30/13 09:47	09/30/13 18:45	1
Barium	0.10	U	0.10	0.10	mg/L		09/30/13 09:47	09/30/13 18:45	1
Cadmium	0.010	U	0.010	0.010	mg/L		09/30/13 09:47	09/30/13 18:45	1
Chromium	0.020	U	0.020	0.020	mg/L		09/30/13 09:47	09/30/13 18:45	1
Lead	0.020	U	0.020	0.020	mg/L		09/30/13 09:47	09/30/13 18:45	1
Selenium	0.050	U	0.050	0.050	mg/L		09/30/13 09:47	09/30/13 18:45	1
Silver	0.010	U	0.010	0.010	mg/L		09/30/13 09:47	09/30/13 18:45	1

Lab Sample ID: LCS 680-296085/2-A
Matrix: Solid
Analysis Batch: 296235

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 296085

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	2.00	2.14		mg/L		107	75 - 125
Barium	2.00	2.15		mg/L		107	75 - 125
Cadmium	1.00	1.04		mg/L		104	75 - 125
Chromium	2.00	2.15		mg/L		107	75 - 125
Lead	1.00	1.05		mg/L		105	75 - 125
Selenium	2.00	2.11		mg/L		106	75 - 125
Silver	1.00	1.20		mg/L		120	75 - 125

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LB 680-295691/21-C LB
Matrix: Solid
Analysis Batch: 296235

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 296074

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.20	U	0.20	0.20	mg/L		09/30/13 09:27	09/30/13 16:28	1
Barium	1.0	U	1.0	1.0	mg/L		09/30/13 09:27	09/30/13 16:28	1
Cadmium	0.10	U	0.10	0.10	mg/L		09/30/13 09:27	09/30/13 16:28	1
Chromium	0.20	U	0.20	0.20	mg/L		09/30/13 09:27	09/30/13 16:28	1
Lead	0.20	U	0.20	0.20	mg/L		09/30/13 09:27	09/30/13 16:28	1
Selenium	0.50	U	0.50	0.50	mg/L		09/30/13 09:27	09/30/13 16:28	1
Silver	0.10	U	0.10	0.10	mg/L		09/30/13 09:27	09/30/13 16:28	1

Lab Sample ID: LB 680-295884/7-C LB
Matrix: Solid
Analysis Batch: 296235

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 296085

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.20	U	0.20	0.20	mg/L		09/30/13 09:47	09/30/13 19:45	1
Barium	1.0	U	1.0	1.0	mg/L		09/30/13 09:47	09/30/13 19:45	1
Cadmium	0.10	U	0.10	0.10	mg/L		09/30/13 09:47	09/30/13 19:45	1
Chromium	0.20	U	0.20	0.20	mg/L		09/30/13 09:47	09/30/13 19:45	1
Lead	0.20	U	0.20	0.20	mg/L		09/30/13 09:47	09/30/13 19:45	1
Selenium	0.50	U	0.50	0.50	mg/L		09/30/13 09:47	09/30/13 19:45	1
Silver	0.10	U	0.10	0.10	mg/L		09/30/13 09:47	09/30/13 19:45	1

Lab Sample ID: LB 680-295919/5-B LB
Matrix: Solid
Analysis Batch: 296235

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 296085

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.20	U	0.20	0.20	mg/L		09/30/13 09:47	09/30/13 18:54	1
Barium	1.0	U	1.0	1.0	mg/L		09/30/13 09:47	09/30/13 18:54	1
Cadmium	0.10	U	0.10	0.10	mg/L		09/30/13 09:47	09/30/13 18:54	1
Chromium	0.20	U	0.20	0.20	mg/L		09/30/13 09:47	09/30/13 18:54	1
Lead	0.20	U	0.20	0.20	mg/L		09/30/13 09:47	09/30/13 18:54	1
Selenium	0.50	U	0.50	0.50	mg/L		09/30/13 09:47	09/30/13 18:54	1
Silver	0.10	U	0.10	0.10	mg/L		09/30/13 09:47	09/30/13 18:54	1

Metals

Prep Batch: 295281

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-94506-1	WCRW-GP01-0_6in	Total/NA	Solid	3050B	
680-94506-1 MS	WCRW-GP01-0_6in	Total/NA	Solid	3050B	
680-94506-1 MSD	WCRW-GP01-0_6in	Total/NA	Solid	3050B	
680-94506-2	WCRW-GP01-0_6inD	Total/NA	Solid	3050B	
680-94506-3	WCWL-GP08-0_2ft	Total/NA	Solid	3050B	
LCS 680-295281/2-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 680-295281/1-A	Method Blank	Total/NA	Solid	3050B	

Analysis Batch: 295566

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-94506-1	WCRW-GP01-0_6in	Total/NA	Solid	6010C	295281
680-94506-1 MS	WCRW-GP01-0_6in	Total/NA	Solid	6010C	295281
680-94506-1 MSD	WCRW-GP01-0_6in	Total/NA	Solid	6010C	295281
680-94506-2	WCRW-GP01-0_6inD	Total/NA	Solid	6010C	295281
680-94506-3	WCWL-GP08-0_2ft	Total/NA	Solid	6010C	295281
LCS 680-295281/2-A	Lab Control Sample	Total/NA	Solid	6010C	295281
MB 680-295281/1-A	Method Blank	Total/NA	Solid	6010C	295281

Leach Batch: 295691

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-94506-4	CV0409A-HA0_1ft	TCLP	Solid	1311	
680-94506-5	FM0351B-HA0-_1ft	TCLP	Solid	1311	
680-94506-6	HP0025B-GP0_1ft	TCLP	Solid	1311	
680-94506-7	FM0265B-GP0_1ft	TCLP	Solid	1311	
680-94506-8	HP0204B-HA0_1ft	TCLP	Solid	1311	
680-94506-9	HP0228A-GP0_1ft	TCLP	Solid	1311	
680-94506-10	FM0195C-GP0_1ft	TCLP	Solid	1311	
680-94506-11	CV1248A-HA0_1ft	TCLP	Solid	1311	
680-94506-12	CV0246B-HA0_1ft	TCLP	Solid	1311	
680-94506-13	HP0192B-GP0_1ft	TCLP	Solid	1311	
680-94506-14	HP0037B-HA0_1ft	TCLP	Solid	1311	
680-94506-15	CV023B-HA0_1ft	TCLP	Solid	1311	
680-94506-16	FM0139A-GP0_1ft	TCLP	Solid	1311	
680-94506-17	CV0003A-HA0_1ft	TCLP	Solid	1311	
LB 680-295691/21-C LB	Method Blank	TCLP	Solid	1311	

Leach Batch: 295884

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-94506-18	CV0511AB-HA0_1ft	TCLP	Solid	1311	
LB 680-295884/7-C LB	Method Blank	TCLP	Solid	1311	

Leach Batch: 295919

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LB 680-295919/5-B LB	Method Blank	TCLP	Solid	1311	

Prep Batch: 296074

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-94506-4	CV0409A-HA0_1ft	TCLP	Solid	3010A	295691
680-94506-5	FM0351B-HA0-_1ft	TCLP	Solid	3010A	295691
680-94506-6	HP0025B-GP0_1ft	TCLP	Solid	3010A	295691
680-94506-7	FM0265B-GP0_1ft	TCLP	Solid	3010A	295691

Metals (Continued)

Prep Batch: 296074 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-94506-8	HP0204B-HA0_1ft	TCLP	Solid	3010A	295691
680-94506-9	HP0228A-GP0_1ft	TCLP	Solid	3010A	295691
680-94506-10	FM0195C-GP0_1ft	TCLP	Solid	3010A	295691
680-94506-11	CV1248A-HA0_1ft	TCLP	Solid	3010A	295691
680-94506-12	CV0246B-HA0_1ft	TCLP	Solid	3010A	295691
680-94506-13	HP0192B-GP0_1ft	TCLP	Solid	3010A	295691
680-94506-14	HP0037B-HA0_1ft	TCLP	Solid	3010A	295691
680-94506-15	CV023B-HA0_1ft	TCLP	Solid	3010A	295691
680-94506-16	FM0139A-GP0_1ft	TCLP	Solid	3010A	295691
680-94506-17	CV0003A-HA0_1ft	TCLP	Solid	3010A	295691
LB 680-295691/21-C LB	Method Blank	TCLP	Solid	3010A	295691
LCS 680-296074/2-A	Lab Control Sample	Total/NA	Solid	3010A	
MB 680-296074/1-A	Method Blank	Total/NA	Solid	3010A	

Prep Batch: 296085

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-94506-18	CV0511AB-HA0_1ft	TCLP	Solid	3010A	295884
LB 680-295884/7-C LB	Method Blank	TCLP	Solid	3010A	295884
LB 680-295919/5-B LB	Method Blank	TCLP	Solid	3010A	295919
LCS 680-296085/2-A	Lab Control Sample	Total/NA	Solid	3010A	
MB 680-296085/1-A	Method Blank	Total/NA	Solid	3010A	

Analysis Batch: 296235

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-94506-4	CV0409A-HA0_1ft	TCLP	Solid	6010C	296074
680-94506-5	FM0351B-HA0-_1ft	TCLP	Solid	6010C	296074
680-94506-6	HP0025B-GP0_1ft	TCLP	Solid	6010C	296074
680-94506-7	FM0265B-GP0_1ft	TCLP	Solid	6010C	296074
680-94506-8	HP0204B-HA0_1ft	TCLP	Solid	6010C	296074
680-94506-9	HP0228A-GP0_1ft	TCLP	Solid	6010C	296074
680-94506-10	FM0195C-GP0_1ft	TCLP	Solid	6010C	296074
680-94506-11	CV1248A-HA0_1ft	TCLP	Solid	6010C	296074
680-94506-12	CV0246B-HA0_1ft	TCLP	Solid	6010C	296074
680-94506-13	HP0192B-GP0_1ft	TCLP	Solid	6010C	296074
680-94506-14	HP0037B-HA0_1ft	TCLP	Solid	6010C	296074
680-94506-15	CV023B-HA0_1ft	TCLP	Solid	6010C	296074
680-94506-16	FM0139A-GP0_1ft	TCLP	Solid	6010C	296074
680-94506-17	CV0003A-HA0_1ft	TCLP	Solid	6010C	296074
680-94506-18	CV0511AB-HA0_1ft	TCLP	Solid	6010C	296085
LB 680-295691/21-C LB	Method Blank	TCLP	Solid	6010C	296074
LB 680-295884/7-C LB	Method Blank	TCLP	Solid	6010C	296085
LB 680-295919/5-B LB	Method Blank	TCLP	Solid	6010C	296085
LCS 680-296074/2-A	Lab Control Sample	Total/NA	Solid	6010C	296074
LCS 680-296085/2-A	Lab Control Sample	Total/NA	Solid	6010C	296085
MB 680-296074/1-A	Method Blank	Total/NA	Solid	6010C	296074
MB 680-296085/1-A	Method Blank	Total/NA	Solid	6010C	296085

QC Association Summary

Client: Oneida Total Integrated Enterprises LLC
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-94506-1
SDG: 680-94506-1

General Chemistry

Analysis Batch: 295276

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-94506-1	WCRW-GP01-0_6in	Total/NA	Solid	Moisture	
680-94506-2	WCRW-GP01-0_6inD	Total/NA	Solid	Moisture	
680-94506-3	WCWL-GP08-0_2ft	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Oneida Total Integrated Enterprises LLC
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-94506-1
SDG: 680-94506-1

Client Sample ID: WCRW-GP01-0_6in

Lab Sample ID: 680-94506-1
Date Collected: 09/18/13 13:30
Matrix: Solid
Date Received: 09/24/13 09:19
Percent Solids: 94.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			295281	09/24/13 15:40	JKL	TAL SAV
Total/NA	Analysis	6010C		1	295566	09/25/13 19:50	BCB	TAL SAV
Total/NA	Analysis	Moisture		1	295276	09/24/13 15:28	MDK	TAL SAV

Client Sample ID: WCRW-GP01-0_6inD

Lab Sample ID: 680-94506-2
Date Collected: 09/18/13 13:30
Matrix: Solid
Date Received: 09/24/13 09:19
Percent Solids: 94.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			295281	09/24/13 15:40	JKL	TAL SAV
Total/NA	Analysis	6010C		1	295566	09/25/13 20:22	BCB	TAL SAV
Total/NA	Analysis	Moisture		1	295276	09/24/13 15:28	MDK	TAL SAV

Client Sample ID: WCWL-GP08-0_2ft

Lab Sample ID: 680-94506-3
Date Collected: 09/18/13 17:30
Matrix: Solid
Date Received: 09/24/13 09:19
Percent Solids: 94.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			295281	09/24/13 15:40	JKL	TAL SAV
Total/NA	Analysis	6010C		1	295566	09/25/13 20:27	BCB	TAL SAV
Total/NA	Analysis	Moisture		1	295276	09/24/13 15:28	MDK	TAL SAV

Client Sample ID: CV0409A-HA0_1ft

Lab Sample ID: 680-94506-4
Date Collected: 09/19/13 15:35
Matrix: Solid
Date Received: 09/24/13 09:19

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			295691	09/26/13 22:56	WBB	TAL SAV
TCLP	Prep	3010A			296074	09/30/13 09:27	BJB	TAL SAV
TCLP	Analysis	6010C		1	296235	09/30/13 17:23	BCB	TAL SAV

Client Sample ID: FM0351B-HA0-_1ft

Lab Sample ID: 680-94506-5
Date Collected: 09/19/13 09:35
Matrix: Solid
Date Received: 09/24/13 09:19

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			295691	09/26/13 22:56	WBB	TAL SAV
TCLP	Prep	3010A			296074	09/30/13 09:27	BJB	TAL SAV
TCLP	Analysis	6010C		1	296235	09/30/13 17:27	BCB	TAL SAV

Lab Chronicle

Client: Oneida Total Integrated Enterprises LLC
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-94506-1
SDG: 680-94506-1

Client Sample ID: HP0025B-GP0_1ft

Lab Sample ID: 680-94506-6

Date Collected: 09/18/13 10:15
Matrix: Solid
Date Received: 09/24/13 09:19

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			295691	09/26/13 22:56	WBB	TAL SAV
TCLP	Prep	3010A			296074	09/30/13 09:27	BJB	TAL SAV
TCLP	Analysis	6010C		1	296235	09/30/13 17:32	BCB	TAL SAV

Client Sample ID: FM0265B-GP0_1ft

Lab Sample ID: 680-94506-7

Date Collected: 09/19/13 10:30
Matrix: Solid
Date Received: 09/24/13 09:19

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			295691	09/26/13 22:56	WBB	TAL SAV
TCLP	Prep	3010A			296074	09/30/13 09:27	BJB	TAL SAV
TCLP	Analysis	6010C		1	296235	09/30/13 17:36	BCB	TAL SAV

Client Sample ID: HP0204B-HA0_1ft

Lab Sample ID: 680-94506-8

Date Collected: 09/19/13 14:30
Matrix: Solid
Date Received: 09/24/13 09:19

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			295691	09/26/13 22:56	WBB	TAL SAV
TCLP	Prep	3010A			296074	09/30/13 09:27	BJB	TAL SAV
TCLP	Analysis	6010C		1	296235	09/30/13 17:41	BCB	TAL SAV

Client Sample ID: HP0228A-GP0_1ft

Lab Sample ID: 680-94506-9

Date Collected: 09/18/13 11:15
Matrix: Solid
Date Received: 09/24/13 09:19

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			295691	09/26/13 22:56	WBB	TAL SAV
TCLP	Prep	3010A			296074	09/30/13 09:27	BJB	TAL SAV
TCLP	Analysis	6010C		1	296235	09/30/13 17:45	BCB	TAL SAV

Client Sample ID: FM0195C-GP0_1ft

Lab Sample ID: 680-94506-10

Date Collected: 09/19/13 11:02
Matrix: Solid
Date Received: 09/24/13 09:19

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			295691	09/26/13 22:56	WBB	TAL SAV
TCLP	Prep	3010A			296074	09/30/13 09:27	BJB	TAL SAV
TCLP	Analysis	6010C		1	296235	09/30/13 17:50	BCB	TAL SAV

Client Sample ID: CV1248A-HA0_1ft

Lab Sample ID: 680-94506-11

Date Collected: 09/20/13 08:10

Matrix: Solid

Date Received: 09/24/13 09:19

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			295691	09/26/13 22:56	WBB	TAL SAV
TCLP	Prep	3010A			296074	09/30/13 09:27	BJB	TAL SAV
TCLP	Analysis	6010C		1	296235	09/30/13 17:55	BCB	TAL SAV

Client Sample ID: CV0246B-HA0_1ft

Lab Sample ID: 680-94506-12

Date Collected: 09/17/13 13:00

Matrix: Solid

Date Received: 09/24/13 09:19

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			295691	09/26/13 22:56	WBB	TAL SAV
TCLP	Prep	3010A			296074	09/30/13 09:27	BJB	TAL SAV
TCLP	Analysis	6010C		1	296235	09/30/13 17:59	BCB	TAL SAV

Client Sample ID: HP0192B-GP0_1ft

Lab Sample ID: 680-94506-13

Date Collected: 09/19/13 14:00

Matrix: Solid

Date Received: 09/24/13 09:19

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			295691	09/26/13 22:56	WBB	TAL SAV
TCLP	Prep	3010A			296074	09/30/13 09:27	BJB	TAL SAV
TCLP	Analysis	6010C		1	296235	09/30/13 18:13	BCB	TAL SAV

Client Sample ID: HP0037B-HA0_1ft

Lab Sample ID: 680-94506-14

Date Collected: 09/19/13 15:05

Matrix: Solid

Date Received: 09/24/13 09:19

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			295691	09/26/13 22:56	WBB	TAL SAV
TCLP	Prep	3010A			296074	09/30/13 09:27	BJB	TAL SAV
TCLP	Analysis	6010C		1	296235	09/30/13 18:18	BCB	TAL SAV

Client Sample ID: CV023B-HA0_1ft

Lab Sample ID: 680-94506-15

Date Collected: 09/20/13 08:55

Matrix: Solid

Date Received: 09/24/13 09:19

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			295691	09/26/13 22:56	WBB	TAL SAV
TCLP	Prep	3010A			296074	09/30/13 09:27	BJB	TAL SAV
TCLP	Analysis	6010C		1	296235	09/30/13 18:22	BCB	TAL SAV

Lab Chronicle

Client: Oneida Total Integrated Enterprises LLC
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-94506-1
SDG: 680-94506-1

Client Sample ID: FM0139A-GP0_1ft

Lab Sample ID: 680-94506-16

Date Collected: 09/19/13 12:05
Matrix: Solid
Date Received: 09/24/13 09:19

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			295691	09/26/13 22:56	WBB	TAL SAV
TCLP	Prep	3010A			296074	09/30/13 09:27	BJB	TAL SAV
TCLP	Analysis	6010C		1	296235	09/30/13 18:27	BCB	TAL SAV

Client Sample ID: CV0003A-HA0_1ft

Lab Sample ID: 680-94506-17

Date Collected: 09/19/13 15:55
Matrix: Solid
Date Received: 09/24/13 09:19

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			295691	09/26/13 22:56	WBB	TAL SAV
TCLP	Prep	3010A			296074	09/30/13 09:27	BJB	TAL SAV
TCLP	Analysis	6010C		1	296235	09/30/13 18:31	BCB	TAL SAV

Client Sample ID: CV0511AB-HA0_1ft

Lab Sample ID: 680-94506-18

Date Collected: 09/20/13 08:00
Matrix: Solid
Date Received: 09/24/13 09:19

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			295884	09/27/13 17:31	WBB	TAL SAV
TCLP	Prep	3010A			296085	09/30/13 09:47	BJB	TAL SAV
TCLP	Analysis	6010C		1	296235	09/30/13 19:49	BCB	TAL SAV

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Serial Number 59221 (1)

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

Alternate Laboratory Name/Location
Phone:
Fax:

PROJECT REFERENCE: 35th Ave Removal Site	PROJECT NO.: 2005148-B56	PROJECT LOCATION (STATE): AL	PAGE 1 OF 2
TAL (LAB) PROJECT MANAGER:	P.O. NUMBER:	CONTRACT NO.:	STANDARD REPORT DELIVERY: (●) DATE DUE:
CLIENT (SITE) PM: Russell Henderson	CLIENT PHONE: 678-355-5550	CLIENT FAX: 770-528-0167	EXPEDITED REPORT DELIVERY (SURCHARGE): ( ) DATE DUE:
CLIENT NAME: OTIE	CLIENT E-MAIL: rhenderson@otie.com		
CLIENT ADDRESS: 1220 Kennestone Suite 106, Marietta, GA 30066			NUMBER OF COOLERS SUBMITTED PER SHIPMENT: 1
COMPANY CONTRACTING THIS WORK (if applicable):			

MATRIX TYPE: COMPOSITE (C) OR GRAB (G) INDICATE; AQUEOUS (WATER); SOLID OR SEMISOLID; AIR; NONAQUEOUS LIQUID (OIL, SOLVENT, ...)

REQUIRED ANALYSIS

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	RCRA 7 metals	TCLP RCRA 7 metals								REMARKS
								3	~~15~~ 9								
9/18/13	1330	WCRW-GP01-0.6in	G					X									
9/18/13	1330	WCRW-GP01-0.6inD	G					X									
9/18/13	1730	WCWL-GP08-0.2ft	G					X									
9/19/13	1535	CV0409A-HA0.1ft	G						X								
9/19/13	0935	FM0351B-HA0.1ft	G						X								
9/18/13	1015	HP0025B-GP0.1ft	G						X								
9/19/13	1030	FM0265B-GP0.1ft	G						X								
9/19/13	1430	HP0204B-HA0.1ft	G						X								
9/18/13	1115	HP0228A-GP0.1ft	G						X								
9/19/13	1102	FM0195C-GP0.1ft	G						X								
9/20/13	0810	CV1248A-HA0.1ft	G						X								
9/17/13	1300	CV0246B-HA0.1ft	G						X								

PRESERVATIVE

680-94506 Chain of Custody

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
[signature]	9/23/13	1243						
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS
[signature]	09/24/13	0919	YES ( ) NO ( )		680-94506	4.0°C

TAL8240-680 (1008)

Serial Number 59218 (2)

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

Alternate Laboratory Name/Location
Phone:
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
TAL (LAB) PROJECT MANAGER	P.O. NUMBER AS #1	CONTRACT NO.
CLIENT (SITE) PM Same	CLIENT PHONE	CLIENT FAX
CLIENT NAME	CLIENT E-MAIL	
CLIENT ADDRESS		
COMPANY CONTRACTING THIS WORK (if applicable)		

PAGE 2 OF 2

STANDARD REPORT DELIVERY (X)
DATE DUE
EXPEDITED REPORT DELIVERY (SURCHARGE) ( )
DATE DUE

NUMBER OF COOLERS SUBMITTED PER SHIPMENT: 1

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	MATRIX TYPE: COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	REQUIRED ANALYSIS: TCLP RCRA 8 metals	PRESERVATIVE	NUMBER OF CONTAINERS SUBMITTED	REMARKS
9/19/13	1400	HP0192B-SP0-1ft	G					X		6	
9/19/13	1505	HP0037B-HA0-1ft	G					X		6	
9/20/13	0855	CV0233B-HA0-1ft	G					X		6	
9/19/13	1205	FM0139A-SP0-1ft	G					X		6	
9/19/13	1555	CV0003A-HA0-1ft	G					X		6	
9/20/13	0800	CV0511AB-HA0-1ft	G					X		6	

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
	9/23/13	1243						
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS
	09/24/13	0919	YES ( ) NO ( )		680-94506	4.0° C

10/7/2013

TAL8240-680 (1008)

Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-94506-1
SDG Number: 680-94506-1

Login Number: 94506
List Number: 1
Creator: Conner, Keaton

List Source: TestAmerica Savannah

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Certification Summary

Client: Oneida Total Integrated Enterprises LLC
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-94506-1
SDG: 680-94506-1

Laboratory: TestAmerica Savannah

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
	AFCEE		SAVLAB	
A2LA	DoD ELAP		399.01	02-28-15
A2LA	ISO/IEC 17025		399.01	02-28-15
Alabama	State Program	4	41450	06-30-14
Arkansas DEQ	State Program	6	88-0692	02-01-14
California	NELAP	9	3217CA	07-31-14
Colorado	State Program	8	N/A	12-31-13
Connecticut	State Program	1	PH-0161	03-31-15
Florida	NELAP	4	E87052	06-30-14
GA Dept. of Agriculture	State Program	4	N/A	12-31-13
Georgia	State Program	4	N/A	06-30-14
Georgia	State Program	4	803	06-30-14
Guam	State Program	9	09-005r	06-17-14
Hawaii	State Program	9	N/A	06-30-14
Illinois	NELAP	5	200022	11-30-13
Indiana	State Program	5	N/A	06-30-14
Iowa	State Program	7	353	07-01-15
Kentucky	State Program	4	90084	12-31-13
Kentucky (UST)	State Program	4	18	06-30-14
Louisiana	NELAP	6	30690	06-30-14
Maine	State Program	1	GA00006	08-16-14
Maryland	State Program	3	250	12-31-13
Massachusetts	State Program	1	M-GA006	06-30-14
Michigan	State Program	5	9925	06-30-14
Mississippi	State Program	4	N/A	06-30-14
Montana	State Program	8	CERT0081	01-01-14
Nebraska	State Program	7	TestAmerica-Savannah	06-30-14
New Jersey	NELAP	2	GA769	06-30-14
New Mexico	State Program	6	N/A	06-30-14
New York	NELAP	2	10842	04-01-14
North Carolina DENR	State Program	4	269	12-31-13
North Carolina DHHS	State Program	4	13701	07-31-14
Oklahoma	State Program	6	9984	08-31-14
Pennsylvania	NELAP	3	68-00474	06-30-14
Puerto Rico	State Program	2	GA00006	01-01-14
South Carolina	State Program	4	98001	06-30-14
Tennessee	State Program	4	TN02961	06-30-14
Texas	NELAP	6	T104704185-08-TX	11-30-13
USDA	Federal		SAV 3-04	04-07-14
Virginia	NELAP	3	460161	06-14-14
Washington	State Program	10	C1794	06-10-14
West Virginia	State Program	3	9950C	12-31-13
West Virginia DEP	State Program	3	94	06-30-14
Wisconsin	State Program	5	999819810	08-31-14
Wyoming	State Program	8	8TMS-L	06-30-14

Data Validation Checklist
Semivolatile Organic Analyses

Project:	35TH Avenue Superfund Site	Project No:	2005148-1356
Laboratory:	TestAmerica – Tampa, FL	Job ID.:	680-92821-2
Method:	SW-846 8270C Low-Level (PAH)	Associated Samples:	Refer to Attachment A (Sample Summary)
Matrix:	Wipes	Samples Collected:	07/30/13 – 07/31/13
Reviewer:	Renea Anglin	Date:	08/16/2013
Concurrence:	Limari Krebs	Date:	

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
1. Were sample storage and preservation requirements met? If temperature >6°C, then J/UJ-flag results.	x			Samples received at 4.5 °C.	
2. Were all COC records signed and integrity seals intact, indicating that COC was maintained for all samples?	x				
3. Were there any problems noted in laboratory data package concerning condition of samples upon receipt?		x		.	
4. Do any soil samples contain more than 50% water? If yes, then results are to be reported on a wet-weight basis.			x		
5. Were holding times met (≤7 and 14 days from collection to extraction for aqueous and solid samples, respectively; ≤40 days from extraction to analysis)? If not, then J/UJ-flag sample results. If grossly (2x) exceeded, then flag J/R.	x			Samples extracted on 09/25/13 and analyzed 09/27/13 and 09/27/13.	
6. Were results for all project-specified target analytes reported?	x				
7. Were project-specified Reporting Limits achieved for undiluted sample analyses?	x				
8. Were samples with analyte concentrations exceeding the calibration range of the instrument re-analyzed at a higher dilution? If not, then J-flag sample result.	x				
9. Was a method blank extracted with each batch (i.e., one per 20 samples, per batch, per matrix and per level)?	x			One Batch.	
10. Were target analytes detected in the method blank?		x		No target analytes were detected in MB660-141709/1-A.	
11. Were target analytes detected in equipment/rinsate blanks?			x	No rinse blank for these samples	

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
12. Are equipment/rinsate blanks associated with every sample? If no, note in DV report.		x			
13. Were analytes detected in samples below the blank contamination action level? If yes, U-flag positive sample results <5x associated blank concentration (10x for common blank contaminants – phthalates)			x		
14. Is a field duplicate associated with this Job?	x			1 sets of duplicates: WCWL-GP08-0_2ft and WCWL-GP08D-0_2ft	
15. Was precision deemed acceptable as defined by the project plans? (<50%RPD) Analytes with RPD outside acceptable limits will be flagged as J or UJ.		x		Acenaphthene 101%RPD, Acenaphthylene at 59%RPD, Anthracene at 76%RPD, Benzo(a)pyrene at 64%RPD, Benzo(g,h,i)perylene at 63%RPD, Flourene at 126%RPD, Benzo(k)fluoranthene at 72%RPD, Dibenzo(a,h)anthracne at 59%RPD, Fluoranthene at 115%RPD, Indeno(1,2,3)pyrene at 180%RPD, 1-Methyl Naphthalene at 100%RPD, 2-Methyl Naphthalene at 95%RPD, Naphthalene at 76%RPD, Phenanthrene at 112%RPD, and Pyrene at 73%RPD.	J
16. Were DFTPP ion abundance criteria (i.e., Table 3 of SW-846 8270C) met? If no, professional judgment may be applied to determine to what extent the data may be utilized.	x				
17. Were samples analyzed within 12 hours of the DFTPP tune? If no, professional judgment may be applied to determine to what extent the data may be utilized.	x			2 DFTPP were analyzed with the SDG on BSMA5973.	

18. Were initial and continuing calibration standards analyzed at the proper frequency for each instrument? • Ensure that a minimum of five standards are used for the initial calibration. If no, use professional judgment to determine the effect on the data and note in the reviewer narrative. • An initial calibration is to be associated with each sample analysis. • A continuing calibration standard is to be analyzed for every 12 hours of sample analysis per instrument.	x			• ICAL on 09/26/13, instrument BSMA5973 • ICV on 09/26/13 @14:16 • ICAL on 09/27/13, instrument BSMA5973 • ICV on 09/27/13 @13:16	

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
19. Were calibration results within laboratory/project specifications? • ICAL (Criteria: ≤15 mean %RSD with no individual CCC %RSD ≤30 (≤50% for poor performers), OR r≥0.995, OR r^2≥0.99, and RRF ≥0.050 (≥0.010 for poor performers)): o If %RSD>15 (>50% for poor performers), or r <0.995, or r^2 <0.995, then J-flag positive results and UJ-flag non-detects o If mean RRF <0.050 (<0.010 for poor performers), then J-flag positive results and R-flag non-detects	x			Benzo(a)pyrene calculation verified for 09/26/13 calibration on BSMA5973. Naphthalene calculation verified for 09/27/13 calibration on BSMA5973. 9/26/13 ICV-Lab used 35%D, had 1 >20%D-Benzo(a)anthracene at 22.1%. Effects samples WCWR-GP-01-0_6in, WCWL-GP04-3_4ft, WCWL-GP06-2_3ft	J,UJ
• ICV and CCV (Criteria: ≤20%D (≤50% for poor performers) and RF ≥0.050 (≥0.010 for poor performers)): o If %D>20 (>50% for poor performers), then J-flag positive results and UJ-flag non-detects o If RF <0.050 (<0.010 for poor performers), then UJ-flag non-detected semivolatile target compounds	x			9/27/13 ICV- Lab used 35%D, had 4 >20%D. Pyrene 21.2%, Benzo(a)anthracene 23.7%, and Chrysene 28.2%D. Effects WCWL-GP05-2_4ft, WCWL-GP08-0_2ft, WCWL-08D-0_2ft, WCWL-GP08-0_2ft DL, WCWL-08D-0_2ft DL.	J
20. Was a LCS prepared for each batch and matrix?	x			One batch	
21. Were LCS recoveries within lab control limits? If no, J-flag positive results when %R >Upper Control Limit (UCL) and J/R-flag results when %R <Lower Control Limit (LCL).	x				
22. Were LCS/LCSD RPD within lab specifications? If no, J-flag positive results and UJ-flag non-detects			x	No LCSD	
23. Was a MS/MSD pair extracted at the proper frequency (one per 20 samples per batch)?	x				
24. Is the MS/MSD parent sample a project-specific sample?	x			WCW-GP05-2_4ft	

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
25. Were MS/MSD recoveries within laboratory/project specifications? Only QC results for project samples are evaluated. • If the native sample concentration > 4x spiking level, then an evaluation of interference is not possible. • If either MS or MSD recovery meets control limits, qualification of data is not warranted. • MS and MSD %R<10: J and R Flag positive and ND results, respectively • MS and MSD %R >10 and <LCL: J-Flag positive and UJ-flag non-detect results • MS and MSD R% >UCL (or 140): J-Flag positive results		x		Benzo(a)anthracene, Benzo(b)fluoranthene, Benzo(g,h,i)perylene, Chrysene, and Flouranthene were >4x spiking level and could not be evaluated. MS Failures biased low- Anthracene 19%R, Benzo(a)pyrene -125%R, Benzo(k)fluoranthene -117%R, dibenz(a,h) anthracene -74%R, Indeno(1,2,3-cd)pyrene -97%R, biased high- Naphthalene 160%R, Phenanthrene-194%R. MSD Failures biased low- Anthracene 35%R, biased high- Benzo(a)pyrene 245%R, Benzo(k)fluoranthene 192%R, Indeno(1,2,3-cd)pyrene 217%R, Pyrene 293%R. Flag WCW-GP05-2_4ft as J for Anthracene, Benzo(a)pyrene, Benzo(k)fluoranthene, and Indeno(1,2,3-cd)pyrene.	J
26. Were laboratory criteria met for precision during the MS/MSD analysis? Only QC results for project samples are evaluated. • If the native sample concentration > 4x spiking level, then an evaluation of interference is not possible. • If %RPD > UCL, J-flag positive result and UJ-flag non-detect result		x		RPD failures- Benzo(a)anthracene, Benzo(a)pyrene, Benzo(k)fluoranthene, Indeno(1,2,3-cd)pyrene, and Pyrene.	J
27. Were surrogate recoveries within lab/project specifications? • If %R for 1 Acid or BN surrogates <10, then J-flag positive and R-flag non-detect associated sample results • If 2 or more Acid or BN %R >UCL, then J-flag positive results • If 2 or more Acid or BN %R ≥10%, but <LCL, then J-flag positive results and UJ-flag non-detect results • If 2 or more Acid or BN , with 1 %R >UCL and 1 %R ≥10%, but <LCL, then J-flag positive results and UJ-flag non-detect results	x				

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
28. Were internal standard (IS) results within lab/project specifications? • If IS area counts are less than 50% of the midpoint calibration standard, then J-flag positive and UJ-flag non-detect associated sample results • If IS area counts are greater than 100% of the midpoint calibration standard, then J-flag positive results • If extremely low area counts are reported or performance exhibits a major abrupt drop-off, then a severe loss of sensitivity is indicated, J-flag positive and R-flag non-detect results • If retention time of sample's internal standard is not within 30 seconds of the associated calibration standard, R-flag associated data. • The chromatographic profile for that sample must be examined to determine if any false positives or negatives exists. For shifts of large magnitude, the reviewer may consider partial or total rejection of the data for that sample fraction. Positive results need not be qualified as R, if mass spectral criteria are met.	x				
29. Were lab comments included in report?				Refer to Attachment B (Case Narrative)	
Comments: The data review process was modeled after the USEPA Contract Laboratory Program (CLP) National Functional Guidelines (NFG) for Organic Methods Data Review (EPA, October 1999) and USEPA CLP NFG for Low Concentration Organic Methods Data Review (EPA, June 2001). Sample results have been qualified based on the results of the data review process (Attachment C). Criteria for acceptability of data were based upon available site information, analytical method requirements, guidance documents, and professional judgment.					

DV Flag Definitions:

J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
R The sample results are unusable. The analyte may or may not be present in the sample.
U The analyte was analyzed for, but was not detected above the associated level; blank contamination may exist.
UJ The analyte was not detected above the limit, and the limit is approximate and may be inaccurate or imprecise.

ATTACHMENT A

SAMPLE SUMMARY

SAMPLE SUMMARY

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-94506-2
Sdg Number: 680-94506-2

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
680-94506-19	WCWL-GP05-2_4ft	Solid	09/16/2013 1348	09/24/2013 1015
680-94506-20	WCRW-GP01-0_6in	Solid	09/18/2013 1330	09/24/2013 1015
680-94506-21	WCWL-GP04-3_4ft	Solid	09/18/2013 1550	09/24/2013 1015
680-94506-22	WCWL-GP06-2_3ft	Solid	09/18/2013 1630	09/24/2013 1015
680-94506-23	WCWL-GP08-0_2ft	Solid	09/18/2013 1730	09/24/2013 1015
680-94506-24	WCWL-GP08D-0_2ft	Solid	09/18/2013 1730	09/24/2013 1015

10-18-13

ATTACHMENT B

CASE NARRATIVE

CASE NARRATIVE
Client: Oneida Total Integrated Enterprises LLC
Project: 35th Avenue Superfund Site
Report Number: 680-94506-2

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 9/24/2013 9:19 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 4.0° C and 4.5° C.

SEMIVOLATILE ORGANIC COMPOUNDS BY GCMS - LOW LEVEL

Samples WCWL-GP05-2_4ft (680-94506-19), WCRW-GP01-0_6in (680-94506-20), WCWL-GP04-3_4ft (680-94506-21), WCWL-GP06-2_3ft (680-94506-22), WCWL-GP08-0_2ft (680-94506-23) and WCWL-GP08D-0_2ft (680-94506-24) were analyzed for Semivolatile Organic Compounds by GCMS - Low Level in accordance with EPA SW-846 Method 8270C.

Method(s) 8270C LL: The matrix spike / matrix spike duplicate (MS/MSD) percent recoveries and %RPD for batch 141824 were outside control limits. This is attributed to matrix interferences.

Method(s) 8270C LL: The following samples were diluted due to the nature of the sample matrix: (680-94506-19 MS), (680-94506-19 MSD), WCWL-GP05-2_4ft (680-94506-19), WCWL-GP08-0_2ft (680-94506-23), WCWL-GP08D-0_2ft (680-94506-24). Elevated reporting limits (RLs) are provided. Batch: 141824.

Several analytes recoveries and RPD are outside criteria for the MS and MSD of sample WCWL-GP05-2_4ft (680-94506-19) in batch 660-141824.

Samples WCWL-GP05-2_4ft (680-94506-19)[4X], WCWL-GP08-0_2ft (680-94506-23)[20X], WCWL-GP08-0_2ft (680-94506-23)[4X], WCWL-GP08D-0_2ft (680-94506-24)[20X] and WCWL-GP08D-0_2ft (680-94506-24)[4X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

10-18-13

ATTACHMENT C

QUALIFIED SAMPLE RESULTS

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-94506-2

SDG No.: 680-94506-2

Client Sample ID: WCWL-GP05-2_4ft | Lab Sample ID: 680-94506-19

Matrix: Solid | Lab File ID: 1AI27012.D

Analysis Method: 8270C LL | Date Collected: 09/16/2013 13:48

Extract. Method: 3546 | Date Extracted: 09/25/2013 09:48

Sample wt/vol: 14.97(g) | Date Analyzed: 09/27/2013 13:47

Con. Extract Vol.: 1(mL) | Dilution Factor: 4

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 6.7 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 141824 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	520		430	86
208-96-8	Acenaphthylene	170	U	170	21
120-12-7	Anthracene	500	F J	36	18
56-55-3	Benzo[a]anthracene	3300	F J	34	17
50-32-8	Benzo[a]pyrene	2600	F J	45	22
205-99-2	Benzo[b]fluoranthene	8200	F	52	26
191-24-2	Benzo[g,h,i]perylene	2900	F	86	19
207-08-9	Benzo[k]fluoranthene	2100	F J	34	15
218-01-9	Chrysene	7000	F J	39	19
53-70-3	Dibenz(a,h)anthracene	1200	F	86	18
206-44-0	Fluoranthene	3800	F	86	17
86-73-7	Fluorene	450		86	18
193-39-5	Indeno[1,2,3-cd]pyrene	2200	F J	86	31
90-12-0	1-Methylnaphthalene	410		170	19
91-57-6	2-Methylnaphthalene	420		170	31
91-20-3	Naphthalene	1200	F	170	19
85-01-8	Phenanthrene	1900	F	34	17
129-00-0	Pyrene	2600	F J	86	16

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	93		30-130

10-18-13

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-94506-2

SDG No.: 680-94506-2

Client Sample ID: WCRW-GP01-0_6in | Lab Sample ID: 680-94506-20

Matrix: Solid | Lab File ID: 1AI26021.D

Analysis Method: 8270C LL | Date Collected: 09/18/2013 13:30

Extract. Method: 3546 | Date Extracted: 09/25/2013 09:48

Sample wt/vol: 15.33(g) | Date Analyzed: 09/26/2013 17:28

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 7.4 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 141781 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	110	U	110	21
208-96-8	Acenaphthylene	42	U	42	5.3
120-12-7	Anthracene	8.9	U	8.9	4.4
56-55-3	Benzo[a]anthracene	8.5	PU J	8.5	4.1
50-32-8	Benzo[a]pyrene	11	U	11	5.5
205-99-2	Benzo[b]fluoranthene	9.0	J	13	6.4
191-24-2	Benzo[g,h,i]perylene	21	U	21	4.6
207-08-9	Benzo[k]fluoranthene	8.5	U	8.5	3.8
218-01-9	Chrysene	8.6	J	9.5	4.8
53-70-3	Dibenz(a,h)anthracene	21	U	21	4.3
206-44-0	Fluoranthene	59		21	4.2
86-73-7	Fluorene	21	U	21	4.3
193-39-5	Indeno[1,2,3-cd]pyrene	21	U	21	7.5
90-12-0	1-Methylnaphthalene	42	U	42	4.6
91-57-6	2-Methylnaphthalene	42	U	42	7.5
91-20-3	Naphthalene	42	U	42	4.6
85-01-8	Phenanthrene	8.5	U	8.5	4.1
129-00-0	Pyrene	21		21	3.9

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	60		30-130

10-15-13

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-94506-2

SDG No.: 680-94506-2

Client Sample ID: WCWL-GP04-3_4ft | Lab Sample ID: 680-94506-21

Matrix: Solid | Lab File ID: 1AI26022.D

Analysis Method: 8270C LL | Date Collected: 09/18/2013 15:50

Extract. Method: 3546 | Date Extracted: 09/25/2013 09:48

Sample wt/vol: 15.22(g) | Date Analyzed: 09/26/2013 17:43

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 15.9 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 141781 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	120	U	120	23
208-96-8	Acenaphthylene	62		47	5.9
120-12-7	Anthracene	96		9.8	4.9
56-55-3	Benzo[a]anthracene	150	J	9.4	4.6
50-32-8	Benzo[a]pyrene	55		12	6.1
205-99-2	Benzo[b]fluoranthene	130		14	7.1
191-24-2	Benzo[g,h,i]perylene	61		23	5.2
207-08-9	Benzo[k]fluoranthene	79		9.4	4.2
218-01-9	Chrysene	250		11	5.3
53-70-3	Dibenz(a,h)anthracene	24		23	4.8
206-44-0	Fluoranthene	190		23	4.7
86-73-7	Fluorene	70		23	4.8
193-39-5	Indeno[1,2,3-cd]pyrene	41		23	8.3
90-12-0	1-Methylnaphthalene	180		47	5.2
91-57-6	2-Methylnaphthalene	190		47	8.3
91-20-3	Naphthalene	220		47	5.2
85-01-8	Phenanthrene	310		9.4	4.6
129-00-0	Pyrene	160		23	4.3

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	58		30-130

10-18-13

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-94506-2

SDG No.: 680-94506-2

Client Sample ID: WCWL-GP06-2_3ft | Lab Sample ID: 680-94506-22

Matrix: Solid | Lab File ID: 1AI26023.D

Analysis Method: 8270C LL | Date Collected: 09/18/2013 16:30

Extract. Method: 3546 | Date Extracted: 09/25/2013 09:48

Sample wt/vol: 15.09(g) | Date Analyzed: 09/26/2013 17:58

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 7.6 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 141781 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	110	U	110	22
208-96-8	Acenaphthylene	54		43	5.4
120-12-7	Anthracene	84		9.0	4.5
56-55-3	Benzo[a]anthracene	180		8.6	4.2
50-32-8	Benzo[a]pyrene	110		11	5.6
205-99-2	Benzo[b]fluoranthene	180		13	6.6
191-24-2	Benzo[g,h,i]perylene	92		22	4.7
207-08-9	Benzo[k]fluoranthene	110		8.6	3.9
218-01-9	Chrysene	210		9.7	4.8
53-70-3	Dibenz(a,h)anthracene	28		22	4.4
206-44-0	Fluoranthene	480		22	4.3
86-73-7	Fluorene	65		22	4.4
193-39-5	Indeno[1,2,3-cd]pyrene	77		22	7.6
90-12-0	1-Methylnaphthalene	140		43	4.7
91-57-6	2-Methylnaphthalene	170		43	7.6
91-20-3	Naphthalene	150		43	4.7
85-01-8	Phenanthrene	240		8.6	4.2
129-00-0	Pyrene	260		22	4.0

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	52		30-130

10-8-13

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-94506-2

SDG No.: 680-94506-2

Client Sample ID: WCWL-GP08-0_2ft | Lab Sample ID: 680-94506-23

Matrix: Solid | Lab File ID: 1AI27015.D

Analysis Method: 8270C LL | Date Collected: 09/18/2013 17:30

Extract. Method: 3546 | Date Extracted: 09/25/2013 09:48

Sample wt/vol: 14.96(g) | Date Analyzed: 09/27/2013 14:32

Con. Extract Vol.: 1(mL) | Dilution Factor: 4

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 6.7 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 141824 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	3000		430	86
208-96-8	Acenaphthylene	3300		170	21
50-32-8	Benzo[a]pyrene	12000		45	22
191-24-2	Benzo[g,h,i]perylene	7700		86	19
207-08-9	Benzo[k]fluoranthene	8300		34	15
53-70-3	Dibenz(a,h)anthracene	3300		86	18
206-44-0	Fluoranthene	4300		86	17
86-73-7	Fluorene	12000		86	18
193-39-5	Indeno[1,2,3-cd]pyrene	7100		86	31
90-12-0	1-Methylnaphthalene	3600		170	19
91-57-6	2-Methylnaphthalene	6500		170	31
91-20-3	Naphthalene	6700		170	19

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	89		30-130

10-14-13

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-94506-2

SDG No.: 680-94506-2

Client Sample ID: WCWL-GP08-0_2ft DL | Lab Sample ID: 680-94506-23 DL

Matrix: Solid | Lab File ID: 1AI27017.D

Analysis Method: 8270C LL | Date Collected: 09/18/2013 17:30

Extract. Method: 3546 | Date Extracted: 09/25/2013 09:48

Sample wt/vol: 14.96(g) | Date Analyzed: 09/27/2013 16:07

Con. Extract Vol.: 1(mL) | Dilution Factor: 20

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 6.7 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 141824 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
120-12-7	Anthracene	12000	J	180	90
56-55-3	Benzo[a]anthracene	18000	J	170	84
205-99-2	Benzo[b]fluoranthene	13000		260	130
218-01-9	Chrysene	17000	J	190	97
85-01-8	Phenanthrene	50000	J	170	84
129-00-0	Pyrene	28000	J	430	80

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-94506-2

SDG No.: 680-94506-2

Client Sample ID: WCWL-GP08D-0_2ft | Lab Sample ID: 680-94506-24

Matrix: Solid | Lab File ID: 1AI27016.D

Analysis Method: 8270C LL | Date Collected: 09/18/2013 17:30

Extract. Method: 3546 | Date Extracted: 09/25/2013 09:48

Sample wt/vol: 14.97(g) | Date Analyzed: 09/27/2013 14:47

Con. Extract Vol.: 1(mL) | Dilution Factor: 4

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 5.8 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 141824 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	990		430	85
208-96-8	Acenaphthylene	1800		170	21
120-12-7	Anthracene	5400		36	18
56-55-3	Benzo[a]anthracene	11000		34	17
50-32-8	Benzo[a]pyrene	6200		44	22
205-99-2	Benzo[b]fluoranthene	9800		52	26
191-24-2	Benzo[g,h,i]perylene	4000		85	19
207-08-9	Benzo[k]fluoranthene	3900		34	15
218-01-9	Chrysene	12000		38	19
53-70-3	Dibenz(a,h)anthracene	1800		85	17
86-73-7	Fluorene	2700		85	17
193-39-5	Indeno[1,2,3-cd]pyrene	3800		85	30
90-12-0	1-Methylnaphthalene	1200		170	19
91-57-6	2-Methylnaphthalene	2300		170	30
91-20-3	Naphthalene	3000		170	19
85-01-8	Phenanthrene	14000		34	17
129-00-0	Pyrene	13000		85	16

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	105		30-130

10-18-13

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-94506-2

SDG No.: 680-94506-2

Client Sample ID: WCWL-GP08D-0_2ft DL | Lab Sample ID: 680-94506-24 DL

Matrix: Solid | Lab File ID: 1AI27018.D

Analysis Method: 8270C LL | Date Collected: 09/18/2013 17:30

Extract. Method: 3546 | Date Extracted: 09/25/2013 09:48

Sample wt/vol: 14.97(g) | Date Analyzed: 09/27/2013 16:22

Con. Extract Vol.: 1(mL) | Dilution Factor: 20

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 5.8 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 141824 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
206-44-0	Fluoranthene	16000	J	430	85

10-18-13

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-94506-2

SDG No.: 680-94506-2

Client Sample ID: | Lab Sample ID: MB 660-141709/1-A

Matrix: Solid | Lab File ID: 1AI26013.D

Analysis Method: 8270C LL | Date Collected:

Extract. Method: 3546 | Date Extracted: 09/25/2013 09:48

Sample wt/vol: 14.99(g) | Date Analyzed: 09/26/2013 15:26

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 141781 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	100	U	100	20
208-96-8	Acenaphthylene	40	U	40	5.0
120-12-7	Anthracene	8.4	U	8.4	4.2
56-55-3	Benzo[a]anthracene	8.0	U	8.0	3.9
50-32-8	Benzo[a]pyrene	10	U	10	5.2
205-99-2	Benzo[b]fluoranthene	12	U	12	6.1
191-24-2	Benzo[g,h,i]perylene	20	U	20	4.4
207-08-9	Benzo[k]fluoranthene	8.0	U	8.0	3.6
218-01-9	Chrysene	9.0	U	9.0	4.5
53-70-3	Dibenz(a,h)anthracene	20	U	20	4.1
206-44-0	Fluoranthene	20	U	20	4.0
86-73-7	Fluorene	20	U	20	4.1
193-39-5	Indeno[1,2,3-cd]pyrene	20	U	20	7.1
90-12-0	1-Methylnaphthalene	40	U	40	4.4
91-57-6	2-Methylnaphthalene	40	U	40	7.1
91-20-3	Naphthalene	40	U	40	4.4
85-01-8	Phenanthrene	8.0	U	8.0	3.9
129-00-0	Pyrene	20	U	20	3.7

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	70		30-130

10-18-13

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 680-94506-2

SDG Number: 680-94506-2

Job Description: 35th Avenue Superfund Site

For:
Oneida Total Integrated Enterprises LLC
1220 Kennestone Circle
Suite 106
Marietta, GA 30060

Attention: Ms. Limari F Krebs

Approved for release.
Lisa M Harvey
Project Manager II
10/7/2013 5:42 PM

Lisa M Harvey, Project Manager II
5102 LaRoche Avenue, Savannah, GA, 31404
(912)354-7858 e.3221
lisa.harvey@testamericainc.com
10/07/2013

The test results in this report meet NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted. Results pertain only to samples listed in this report. This report may not be reproduced, except in full, without the written approval of the laboratory. Questions should be directed to the person who signed this report.

Savannah Certifications and ID #s: A2LA: 0399.01; AL: 41450; ARDEQ: 88-0692; ARDOH; AZ: AZ0741; CA: 03217CA; CO; CT: PH0161; DE; FL: E87052; GA: 803; Guam; HI; IL: 200022; IN: C-GA-02; IA: 353; KS: E-10322; KY EPPC: 90084; KY UST; LA DEQ: 30690; LA DHH: LA080008; ME: 2008022; MD: 250; MA: M-GA006; MI: 9925; MS; NFESC: 249; NV: GA00006; NJ: GA769; NM; NY: 10842; NC DWQ: 269; NC DHHS: 13701; PA: 68-00474; PR: GA00006; RI: LAO00244; SC: 98001001; TN: TN0296; TX: T104704185; USEPA: GA00006; VT: VT-87052; VA: 00302; WA; WV DEP: 094; WV DHHR: 9950 C; WI DNR: 999819810; WY/EPAR8: 8TMS-Q

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CASE NARRATIVE
Client: Oneida Total Integrated Enterprises LLC
Project: 35th Avenue Superfund Site
Report Number: 680-94506-2

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 9/24/2013 9:19 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 4.0º C and 4.5º C.

SEMIVOLATILE ORGANIC COMPOUNDS BY GCMS - LOW LEVEL

Samples WCWL-GP05-2_4ft (680-94506-19), WCRW-GP01-0_6in (680-94506-20), WCWL-GP04-3_4ft (680-94506-21), WCWL-GP06-2_3ft (680-94506-22), WCWL-GP08-0_2ft (680-94506-23) and WCWL-GP08D-0_2ft (680-94506-24) were analyzed for Semivolatile Organic Compounds by GCMS - Low Level in accordance with EPA SW-846 Method 8270C.

Method(s) 8270C LL: The matrix spike / matrix spike duplicate (MS/MSD) percent recoveries and %RPD for batch 141824 were outside control limits. This is attributed to matrix interferences.

Method(s) 8270C LL: The following samples were diluted due to the nature of the sample matrix: (680-94506-19 MS), (680-94506-19 MSD), WCWL-GP05-2_4ft (680-94506-19), WCWL-GP08-0_2ft (680-94506-23), WCWL-GP08D-0_2ft (680-94506-24). Elevated reporting limits (RLs) are provided. Batch: 141824.

Several analytes recoveries and RPD are outside criteria for the MS and MSD of sample WCWL-GP05-2_4ft (680-94506-19) in batch 660-141824.

Samples WCWL-GP05-2_4ft (680-94506-19)[4X], WCWL-GP08-0_2ft (680-94506-23)[20X], WCWL-GP08-0_2ft (680-94506-23)[4X], WCWL-GP08D-0_2ft (680-94506-24)[20X] and WCWL-GP08D-0_2ft (680-94506-24)[4X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

SAMPLE SUMMARY

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-94506-2
Sdg Number: 680-94506-2

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
680-94506-19	WCWL-GP05-2_4ft	Solid	09/16/2013 1348	09/24/2013 1015
680-94506-20	WCRW-GP01-0_6in	Solid	09/18/2013 1330	09/24/2013 1015
680-94506-21	WCWL-GP04-3_4ft	Solid	09/18/2013 1550	09/24/2013 1015
680-94506-22	WCWL-GP06-2_3ft	Solid	09/18/2013 1630	09/24/2013 1015
680-94506-23	WCWL-GP08-0_2ft	Solid	09/18/2013 1730	09/24/2013 1015
680-94506-24	WCWL-GP08D-0_2ft	Solid	09/18/2013 1730	09/24/2013 1015

METHOD SUMMARY

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-94506-2
Sdg Number: 680-94506-2

Description	Lab Location	Method	Preparation Method
Matrix: Solid			
Semivolatile Organic Compounds by GCMS - Low Levels	TAL TAM	SW846 8270C LL	
Microwave Extraction	TAL TAM		SW846 3546
Percent Moisture	TAL TAM	EPA Moisture	

Lab References:

TAL TAM = TestAmerica Tampa

Method References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-94506-2
Sdg Number: 680-94506-2

Method	Analyst	Analyst ID
SW846 8270C LL	Cantin, Stephen C	SCC
EPA Moisture	Galio, Andrew	AJG

DATA REPORTING QUALIFIERS

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-94506-2
Sdg Number: 680-94506-2

Lab Section	Qualifier	Description
GC/MS Semi VOA		
	U	Indicates the analyte was analyzed for but not detected.
	4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
	F	MS/MSD Recovery and/or RPD exceeds the control limits
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-94506-2
Sdg Number: 680-94506-2

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS Semi VOA					
Prep Batch: 660-141709					
LCS 660-141709/2-A	Lab Control Sample	T	Solid	3546	
MB 660-141709/1-A	Method Blank	T	Solid	3546	
680-94506-19	WCWL-GP05-2_4ft	T	Solid	3546	
680-94506-19MS	Matrix Spike	T	Solid	3546	
680-94506-19MSD	Matrix Spike Duplicate	T	Solid	3546	
680-94506-20	WCRW-GP01-0_6in	T	Solid	3546	
680-94506-21	WCWL-GP04-3_4ft	T	Solid	3546	
680-94506-22	WCWL-GP06-2_3ft	T	Solid	3546	
680-94506-23	WCWL-GP08-0_2ft	T	Solid	3546	
680-94506-23DL	WCWL-GP08-0_2ft	T	Solid	3546	
680-94506-24	WCWL-GP08D-0_2ft	T	Solid	3546	
680-94506-24DL	WCWL-GP08D-0_2ft	T	Solid	3546	
Analysis Batch:660-141781					
LCS 660-141709/2-A	Lab Control Sample	T	Solid	8270C LL	660-141709
MB 660-141709/1-A	Method Blank	T	Solid	8270C LL	660-141709
680-94506-20	WCRW-GP01-0_6in	T	Solid	8270C LL	660-141709
680-94506-21	WCWL-GP04-3_4ft	T	Solid	8270C LL	660-141709
680-94506-22	WCWL-GP06-2_3ft	T	Solid	8270C LL	660-141709
Analysis Batch:660-141824					
680-94506-19	WCWL-GP05-2_4ft	T	Solid	8270C LL	660-141709
680-94506-19MS	Matrix Spike	T	Solid	8270C LL	660-141709
680-94506-19MSD	Matrix Spike Duplicate	T	Solid	8270C LL	660-141709
680-94506-23	WCWL-GP08-0_2ft	T	Solid	8270C LL	660-141709
680-94506-23DL	WCWL-GP08-0_2ft	T	Solid	8270C LL	660-141709
680-94506-24	WCWL-GP08D-0_2ft	T	Solid	8270C LL	660-141709
680-94506-24DL	WCWL-GP08D-0_2ft	T	Solid	8270C LL	660-141709

Report Basis
T = Total

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-94506-2
Sdg Number: 680-94506-2

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:660-141769					
680-94506-19	WCWL-GP05-2_4ft	T	Solid	Moisture	
680-94506-19DU	Duplicate	T	Solid	Moisture	
680-94506-20	WCRW-GP01-0_6in	T	Solid	Moisture	
680-94506-21	WCWL-GP04-3_4ft	T	Solid	Moisture	
680-94506-22	WCWL-GP06-2_3ft	T	Solid	Moisture	
680-94506-23	WCWL-GP08-0_2ft	T	Solid	Moisture	
680-94506-24	WCWL-GP08D-0_2ft	T	Solid	Moisture	

Report Basis
T = Total

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-94506-2

SDG No.: 680-94506-2

Instrument ID: BSMA5973 Analysis Batch Number: 141781

Lab Sample ID: IC 660-141781/3 Client Sample ID:

Date Analyzed: 09/26/13 12:30 Lab File ID: 1AI26003.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	8.39	Split Peak	cantins	09/26/13 14:24

Lab Sample ID: IC 660-141781/4 Client Sample ID:

Date Analyzed: 09/26/13 12:45 Lab File ID: 1AI26004.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	8.39	Split Peak	cantins	09/26/13 14:25

Lab Sample ID: IC 660-141781/5 Client Sample ID:

Date Analyzed: 09/26/13 13:00 Lab File ID: 1AI26005.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	8.39	Split Peak	cantins	09/26/13 14:25

Lab Sample ID: LCS 660-141709/2-A Client Sample ID:

Date Analyzed: 09/26/13 15:41 Lab File ID: 1AI26014.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	8.39	Split Peak	cantins	09/27/13 10:20

Lab Sample ID: 680-94506-20 Client Sample ID: WCRW-GP01-0_6in

Date Analyzed: 09/26/13 17:28 Lab File ID: 1AI26021.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chrysene	6.56	Baseline Event	cantins	09/27/13 10:25

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-94506-2

SDG No.: 680-94506-2

Instrument ID: BSMA5973 Analysis Batch Number: 141781

Lab Sample ID: 680-94506-21 Client Sample ID: WCWL-GP04-3_4ft

Date Analyzed: 09/26/13 17:43 Lab File ID: 1AI26022.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[a]anthracene	6.55	Baseline Event	cantins	09/27/13 10:29
Chrysene	6.57	Baseline Event	cantins	09/27/13 10:29
Benzo[b]fluoranthene	7.37	Split Peak	cantins	09/27/13 10:30
Benzo[k]fluoranthene	7.38	Baseline Event	cantins	09/27/13 10:30
Indeno[1,2,3-cd]pyrene	8.42	Split Peak	cantins	09/27/13 10:30

Lab Sample ID: 680-94506-22 Client Sample ID: WCWL-GP06-2_3ft

Date Analyzed: 09/26/13 17:58 Lab File ID: 1AI26023.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.37	Split Peak	cantins	09/27/13 10:31
Benzo[k]fluoranthene	7.38	Baseline Event	cantins	09/27/13 10:31
Indeno[1,2,3-cd]pyrene	8.41	Split Peak	cantins	09/27/13 10:32

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-94506-2

SDG No.: 680-94506-2

Instrument ID: BSMA5973 Analysis Batch Number: 141824

Lab Sample ID: IC 660-141824/5 Client Sample ID:

Date Analyzed: 09/27/13 12:00 Lab File ID: 1AI27005.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	8.38	Split Peak	cantins	09/27/13 13:37

Lab Sample ID: IC 660-141824/6 Client Sample ID:

Date Analyzed: 09/27/13 12:16 Lab File ID: 1AI27006.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	8.39	Split Peak	cantins	09/27/13 13:37

Lab Sample ID: IC 660-141824/7 Client Sample ID:

Date Analyzed: 09/27/13 12:31 Lab File ID: 1AI27007.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	8.38	Split Peak	cantins	09/27/13 13:38

Lab Sample ID: 680-94506-19 Client Sample ID: WCWL-GP05-2_4ft

Date Analyzed: 09/27/13 13:47 Lab File ID: 1AI27012.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.36	Split Peak	cantins	09/27/13 14:41
Benzo[k]fluoranthene	7.37	Baseline Event	cantins	09/27/13 14:40
Indeno[1,2,3-cd]pyrene	8.39	Split Peak	cantins	09/27/13 14:40

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-94506-2

SDG No.: 680-94506-2

Instrument ID: BSMA5973 Analysis Batch Number: 141824

Lab Sample ID: 680-94506-19 MS Client Sample ID: WCWL-GP05-2_4ft MS

Date Analyzed: 09/27/13 14:02 Lab File ID: 1AI27013.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.36	Split Peak	cantins	09/27/13 15:01
Benzo[k]fluoranthene	7.37	Baseline Event	cantins	09/27/13 15:01
Indeno[1,2,3-cd]pyrene	8.38	Split Peak	cantins	09/27/13 15:01

Lab Sample ID: 680-94506-19 MSD Client Sample ID: WCWL-GP05-2_4ft MSD

Date Analyzed: 09/27/13 14:17 Lab File ID: 1AI27014.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.36	Split Peak	cantins	09/27/13 15:02
Benzo[k]fluoranthene	7.38	Baseline Event	cantins	09/27/13 15:02
Indeno[1,2,3-cd]pyrene	8.40	Split Peak	cantins	09/27/13 15:02

Lab Sample ID: 680-94506-23 Client Sample ID: WCWL-GP08-0_2ft

Date Analyzed: 09/27/13 14:32 Lab File ID: 1AI27015.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[k]fluoranthene	7.39	Baseline Event	cantins	09/27/13 15:07
Indeno[1,2,3-cd]pyrene	8.43	Split Peak	cantins	09/27/13 15:07

Lab Sample ID: 680-94506-24 Client Sample ID: WCWL-GP08D-0_2ft

Date Analyzed: 09/27/13 14:47 Lab File ID: 1AI27016.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.38	Split Peak	cantins	09/27/13 15:09
Benzo[k]fluoranthene	7.39	Baseline Event	cantins	09/27/13 15:09
Indeno[1,2,3-cd]pyrene	8.43	Split Peak	cantins	09/27/13 15:09

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-94506-2

SDG No.: 680-94506-2

Instrument ID: BSMA5973 Analysis Batch Number: 141824

Lab Sample ID: 680-94506-23 DL Client Sample ID: WCWL-GP08-0_2ft DL

Date Analyzed: 09/27/13 16:07 Lab File ID: 1AI27017.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.39	Analyte Misidentified by the Data System	cantins	09/27/13 16:52

Method 8270C Low Level

Semivolatile Organic Compounds (GC/MS) Low Level by Method 8270C

FORM II
GC/MS SEMI VOA SURROGATE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-94506-2

SDG No.: 680-94506-2

Matrix: Solid Level: Low

GC Column (1): DB-5MS ID: 250 (um)

Client Sample ID	Lab Sample ID	OTPH #
WCWL-GP05-2_4ft	680-94506-19	93
WCRW-GP01-0_6in	680-94506-20	60
WCWL-GP04-3_4ft	680-94506-21	58
WCWL-GP06-2_3ft	680-94506-22	52
WCWL-GP08-0_2ft	680-94506-23	89
WCWL-GP08D-0_2ft	680-94506-24	105
	MB 660-141709/1-A	70
	LCS 660-141709/2-A	57
WCWL-GP05-2_4ft MS	680-94506-19 MS	101
WCWL-GP05-2_4ft MSD	680-94506-19 MSD	97

	QC LIMITS
OTPH = o-Terphenyl	30-130

Column to be used to flag recovery values

FORM II 8270C LL

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-94506-2

SDG No.: 680-94506-2

Matrix: Solid Level: Low Lab File ID: 1AI26014.D

Lab ID: LCS 660-141709/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Acenaphthene	663	315	47	39-130	
Acenaphthylene	663	315	47	38-130	
Anthracene	663	356	54	37-130	
Benzo[a]anthracene	663	385	58	40-130	
Benzo[a]pyrene	663	345	52	49-130	
Benzo[b]fluoranthene	663	359	54	37-130	
Benzo[g,h,i]perylene	663	308	46	32-130	
Benzo[k]fluoranthene	663	365	55	32-130	
Chrysene	663	314	47	41-130	
Dibenz(a,h)anthracene	663	305	46	27-130	
Fluoranthene	663	361	54	40-130	
Fluorene	663	318	48	40-130	
Indeno[1,2,3-cd]pyrene	663	314	47	30-130	
1-Methylnaphthalene	663	337	51	31-130	
2-Methylnaphthalene	663	335	50	33-130	
Naphthalene	663	341	51	36-130	
Phenanthrene	663	368	56	42-130	
Pyrene	663	364	55	44-130	

Column to be used to flag recovery and RPD values

FORM III 8270C LL

FORM III
GC/MS SEMI VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-94506-2

SDG No.: 680-94506-2

Matrix: Solid Level: Low Lab File ID: 1AI27013.D

Lab ID: 680-94506-19 MS Client ID: WCWL-GP05-2_4ft MS

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
Acenaphthene	716	520	822	42	39-130	
Acenaphthylene	716	170 U	397	55	38-130	
Anthracene	716	500	642	19	37-130	F
Benzo[a]anthracene	716	3300	2460	-113	40-130	4
Benzo[a]pyrene	716	2600	1740	-125	49-130	F
Benzo[b]fluoranthene	716	8200	5200	-416	37-130	4
Benzo[g,h,i]perylene	716	2900	1720	-166	32-130	4
Benzo[k]fluoranthene	716	2100	1290	-117	32-130	F
Chrysene	716	7000	4890	-300	41-130	4
Dibenz(a,h)anthracene	716	1200	713	-74	27-130	F
Fluoranthene	716	3800	4700	121	40-130	4
Fluorene	716	450	797	49	40-130	
Indeno[1,2,3-cd]pyrene	716	2200	1460	-97	30-130	F
1-Methylnaphthalene	716	410	836	60	31-130	
2-Methylnaphthalene	716	420	899	67	33-130	
Naphthalene	716	1200	2370	160	36-130	F
Phenanthrene	716	1900	3320	194	42-130	F
Pyrene	716	2600	2980	49	44-130	

Column to be used to flag recovery and RPD values

FORM III 8270C LL

FORM III
GC/MS SEMI VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-94506-2

SDG No.: 680-94506-2

Matrix: Solid Level: Low Lab File ID: 1AI27014.D

Lab ID: 680-94506-19 MSD Client ID: WCWL-GP05-2_4ft MSD

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Acenaphthene	716	859	48	4	40	39-130	
Acenaphthylene	716	525	73	28	40	38-130	
Anthracene	716	756	35	16	40	37-130	F
Benzo[a]anthracene	716	4650	192	62	40	40-130	4 F
Benzo[a]pyrene	716	4400	245	86	40	49-130	F
Benzo[b]fluoranthene	716	10100	267	64	40	37-130	4 F
Benzo[g,h,i]perylene	716	4550	229	90	40	32-130	4 F
Benzo[k]fluoranthene	716	3500	192	92	40	32-130	F
Chrysene	716	8100	147	49	40	41-130	4 F
Dibenz(a,h)anthracene	716	1950	99	93	40	27-130	F
Fluoranthene	716	5030	167	7	40	40-130	4
Fluorene	716	776	46	3	40	40-130	
Indeno[1,2,3-cd]pyrene	716	3710	217	87	40	30-130	F
1-Methylnaphthalene	716	810	56	3	40	31-130	
2-Methylnaphthalene	716	842	59	6	40	33-130	
Naphthalene	716	1680	64	34	40	36-130	
Phenanthrene	716	2520	83	27	40	42-130	
Pyrene	716	4720	293	45	40	44-130	F

Column to be used to flag recovery and RPD values

FORM III 8270C LL

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-94506-2

SDG No.: 680-94506-2

Lab File ID: 1AI26013.D Lab Sample ID: MB 660-141709/1-A

Matrix: Solid Date Extracted: 09/25/2013 09:48

Instrument ID: BSMA5973 Date Analyzed: 09/26/2013 15:26

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 660-141709/2-A	1AI26014.D	09/26/2013 15:41
WCRW-GP01-0_6in	680-94506-20	1AI26021.D	09/26/2013 17:28
WCWL-GP04-3_4ft	680-94506-21	1AI26022.D	09/26/2013 17:43
WCWL-GP06-2_3ft	680-94506-22	1AI26023.D	09/26/2013 17:58
WCWL-GP05-2_4ft	680-94506-19	1AI27012.D	09/27/2013 13:47
WCWL-GP05-2_4ft MS	680-94506-19 MS	1AI27013.D	09/27/2013 14:02
WCWL-GP05-2_4ft MSD	680-94506-19 MSD	1AI27014.D	09/27/2013 14:17
WCWL-GP08-0_2ft	680-94506-23	1AI27015.D	09/27/2013 14:32
WCWL-GP08D-0_2ft	680-94506-24	1AI27016.D	09/27/2013 14:47
WCWL-GP08-0_2ft DL	680-94506-23 DL	1AI27017.D	09/27/2013 16:07
WCWL-GP08D-0_2ft DL	680-94506-24 DL	1AI27018.D	09/27/2013 16:22

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica Tampa Job No.: 680-94506-2

SDG No.: 680-94506-2

Lab File ID: 1AI26002.D DFTPP Injection Date: 09/26/2013

Instrument ID: BSMA5973 DFTPP Injection Time: 12:16

Analysis Batch No.: 141781

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10.0 - 80.0 % of mass 198	23.5	
68	Less than 2.0 % of mass 69	0.0	(0.0)1
69	Mass 69 relative abundance	32.4	
70	Less than 2.0 % of mass 69	0.0	(0.0)1
127	10.0 - 80.0 % of mass 198	39.9	
197	Less than 2.0 % of mass 198	0.0	
198	Base Peak, 100% relative abundance	100.0	
199	5.0 - 9.0 % of mass 198	5.6	
275	10.0 - 60.0 % of mass 198	26.2	
365	Greater than 1.0 % of mass 198	6.9	
441	Present but less than mass 443	12.8	
442	Greater than 50.0 % of mass 198	94.3	
443	15.0 - 24.0 % of mass 442	22.5	(23.8)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 660-141781/3	1AI26003.D	09/26/2013	12:30
	IC 660-141781/4	1AI26004.D	09/26/2013	12:45
	IC 660-141781/5	1AI26005.D	09/26/2013	13:00
	IC 660-141781/6	1AI26006.D	09/26/2013	13:15
	ICIS 660-141781/7	1AI26007.D	09/26/2013	13:30
	IC 660-141781/8	1AI26008.D	09/26/2013	13:45
	IC 660-141781/9	1AI26009.D	09/26/2013	14:01
	ICV 660-141781/10	1AI26010.D	09/26/2013	14:16
	MB 660-141709/1-A	1AI26013.D	09/26/2013	15:26
	LCS 660-141709/2-A	1AI26014.D	09/26/2013	15:41
WCRW-GP01-0_6in	680-94506-20	1AI26021.D	09/26/2013	17:28
WCWL-GP04-3_4ft	680-94506-21	1AI26022.D	09/26/2013	17:43
WCWL-GP06-2_3ft	680-94506-22	1AI26023.D	09/26/2013	17:58

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica Tampa Job No.: 680-94506-2

SDG No.: 680-94506-2

Lab File ID: 1AI27002.D DFTPP Injection Date: 09/27/2013

Instrument ID: BSMA5973 DFTPP Injection Time: 11:10

Analysis Batch No.: 141824

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10.0 - 80.0 % of mass 198	31.0	
68	Less than 2.0 % of mass 69	0.0	(0.0)1
69	Mass 69 relative abundance	35.7	
70	Less than 2.0 % of mass 69	0.4	(1.1)1
127	10.0 - 80.0 % of mass 198	47.3	
197	Less than 2.0 % of mass 198	0.0	
198	Base Peak, 100% relative abundance	100.0	
199	5.0 - 9.0 % of mass 198	6.7	
275	10.0 - 60.0 % of mass 198	25.4	
365	Greater than 1.0 % of mass 198	5.6	
441	Present but less than mass 443	10.1	
442	Greater than 50.0 % of mass 198	72.3	
443	15.0 - 24.0 % of mass 442	14.0	(19.4)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	ICIS 660-141824/3	1AI27003.D	09/27/2013	11:23
	IC 660-141824/4	1AI27004.D	09/27/2013	11:45
	IC 660-141824/5	1AI27005.D	09/27/2013	12:00
	IC 660-141824/6	1AI27006.D	09/27/2013	12:16
	IC 660-141824/7	1AI27007.D	09/27/2013	12:31
	IC 660-141824/8	1AI27008.D	09/27/2013	12:46
	IC 660-141824/9	1AI27009.D	09/27/2013	13:01
	ICV 660-141824/10	1AI27010.D	09/27/2013	13:16
WCWL-GP05-2_4ft	680-94506-19	1AI27012.D	09/27/2013	13:47
WCWL-GP05-2_4ft MS	680-94506-19 MS	1AI27013.D	09/27/2013	14:02
WCWL-GP05-2_4ft MSD	680-94506-19 MSD	1AI27014.D	09/27/2013	14:17
WCWL-GP08-0_2ft	680-94506-23	1AI27015.D	09/27/2013	14:32
WCWL-GP08D-0_2ft	680-94506-24	1AI27016.D	09/27/2013	14:47
WCWL-GP08-0_2ft DL	680-94506-23 DL	1AI27017.D	09/27/2013	16:07
WCWL-GP08D-0_2ft DL	680-94506-24 DL	1AI27018.D	09/27/2013	16:22

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-94506-2

SDG No.: 680-94506-2

Sample No.: ICIS 660-141781/7 Date Analyzed: 09/26/2013 13:30

Instrument ID: BSMA5973 GC Column: DB-5MS ID: 250(um)

Lab File ID (Standard): 1AI26007.D Heated Purge: (Y/N) N

Calibration ID: 3516

		NPT		ANT		PHN	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		1976353	2.54	1424744	3.58	2251458	4.53
UPPER LIMIT		3952706	3.04	2849488	4.08	4502916	5.03
LOWER LIMIT		988177	2.04	712372	3.08	1125729	4.03
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 660-141781/10		1733076	2.54	1137818	3.57	1773509	4.52
MB 660-141709/1-A		2786066	2.54	2009162	3.57	3100117	4.52
LCS 660-141709/2-A		3316283	2.54	2581145	3.58	3574968	4.53
680-94506-20	WCRW-GP01-0_6in	3027640	2.54	2256549	3.57	3348120	4.53
680-94506-21	WCWL-GP04-3_4ft	2715394	2.54	1969300	3.58	2763528	4.53
680-94506-22	WCWL-GP06-2_3ft	2565059	2.54	1903509	3.57	2989332	4.53

NPT = Naphthalene-d8
ANT = Acenaphthene-d10
PHN = Phenanthrene-d10

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8270C LL

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-94506-2

SDG No.: 680-94506-2

Sample No.: ICIS 660-141781/7 Date Analyzed: 09/26/2013 13:30

Instrument ID: BSMA5973 GC Column: DB-5MS ID: 250(um)

Lab File ID (Standard): 1AI26007.D Heated Purge: (Y/N) N

Calibration ID: 3516

		CRY		PRY			
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		2367265	6.55	1726100	7.64		
UPPER LIMIT		4734530	7.05	3452200	8.14		
LOWER LIMIT		1183633	6.05	863050	7.14		
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 660-141781/10		1781784	6.55	1456222	7.64		
MB 660-141709/1-A		2834880	6.55	2679450	7.64		
LCS 660-141709/2-A		3544930	6.55	2964705	7.64		
680-94506-20	WCRW-GP01-0_6in	2659345	6.55	2129660	7.65		
680-94506-21	WCWL-GP04-3_4ft	2420023	6.56	2318491	7.65		
680-94506-22	WCWL-GP06-2_3ft	2408339	6.56	1983419	7.65		

CRY = Chrysene-d12
PRY = Perylene-d12

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8270C LL

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-94506-2

SDG No.: 680-94506-2

Sample No.: ICIS 660-141824/3 Date Analyzed: 09/27/2013 11:23

Instrument ID: BSMA5973 GC Column: DB-5MS ID: 250(um)

Lab File ID (Standard): 1AI27003.D Heated Purge: (Y/N) N

Calibration ID: 3519

		NPT		ANT		PHN	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		4342544	2.54	3198739	3.57	5154560	4.52
UPPER LIMIT		8685088	3.04	6397478	4.07	10309120	5.02
LOWER LIMIT		2171272	2.04	1599370	3.07	2577280	4.02
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 660-141824/10		3393715	2.54	2539862	3.57	3939050	4.52
680-94506-19	WCWL-GP05-2_4ft	2746428	2.54	2176933	3.57	3473123	4.52
680-94506-19 MS	WCWL-GP05-2_4ft MS	2945373	2.54	2348348	3.57	3628534	4.52
680-94506-19 MSD	WCWL-GP05-2_4ft MSD	2811489	2.54	2462095	3.57	3673699	4.52
680-94506-23	WCWL-GP08-0_2ft	2829013	2.54	2275458	3.57	3742635	4.54
680-94506-24	WCWL-GP08D-0_2ft	2759483	2.54	2235580	3.57	3212136	4.53
680-94506-23 DL	WCWL-GP08-0_2ft DL	2568257	2.54	2415234	3.58	3289642	4.53
680-94506-24 DL	WCWL-GP08D-0_2ft DL	2472384	2.54	2284871	3.57	3275062	4.52

NPT = Naphthalene-d8
ANT = Acenaphthene-d10
PHN = Phenanthrene-d10

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8270C LL

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-94506-2

SDG No.: 680-94506-2

Sample No.: ICIS 660-141824/3 Date Analyzed: 09/27/2013 11:23

Instrument ID: BSMA5973 GC Column: DB-5MS ID: 250(um)

Lab File ID (Standard): 1AI27003.D Heated Purge: (Y/N) N

Calibration ID: 3519

		CRY		PRY			
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		5673607	6.55	3829309	7.64		
UPPER LIMIT		11347214	7.05	7658618	8.14		
LOWER LIMIT		2836804	6.05	1914655	7.14		
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 660-141824/10		3869024	6.55	3053583	7.64		
680-94506-19	WCWL-GP05-2_4ft	3331283	6.54	2212449	7.63		
680-94506-19 MS	WCWL-GP05-2_4ft MS	3303867	6.54	2242241	7.63		
680-94506-19 MSD	WCWL-GP05-2_4ft MSD	3315138	6.55	2287464	7.64		
680-94506-23	WCWL-GP08-0_2ft	5433614	6.57	3039119	7.65		
680-94506-24	WCWL-GP08D-0_2ft	4042295	6.56	3157961	7.66		
680-94506-23 DL	WCWL-GP08-0_2ft DL	3025210	6.56	2278974	7.68		
680-94506-24 DL	WCWL-GP08D-0_2ft DL	3106988	6.55	2127165	7.64		

CRY = Chrysene-d12
PRY = Perylene-d12

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8270C LL

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-94506-2

SDG No.: 680-94506-2

Client Sample ID: WCWL-GP05-2_4ft | Lab Sample ID: 680-94506-19

Matrix: Solid | Lab File ID: 1AI27012.D

Analysis Method: 8270C LL | Date Collected: 09/16/2013 13:48

Extract. Method: 3546 | Date Extracted: 09/25/2013 09:48

Sample wt/vol: 14.97(g) | Date Analyzed: 09/27/2013 13:47

Con. Extract Vol.: 1(mL) | Dilution Factor: 4

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 6.7 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 141824 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	520		430	86
208-96-8	Acenaphthylene	170	U	170	21
120-12-7	Anthracene	500	F	36	18
56-55-3	Benzo[a]anthracene	3300	F	34	17
50-32-8	Benzo[a]pyrene	2600	F	45	22
205-99-2	Benzo[b]fluoranthene	8200	F	52	26
191-24-2	Benzo[g,h,i]perylene	2900	F	86	19
207-08-9	Benzo[k]fluoranthene	2100	F	34	15
218-01-9	Chrysene	7000	F	39	19
53-70-3	Dibenz(a,h)anthracene	1200	F	86	18
206-44-0	Fluoranthene	3800	F	86	17
86-73-7	Fluorene	450		86	18
193-39-5	Indeno[1,2,3-cd]pyrene	2200	F	86	31
90-12-0	1-Methylnaphthalene	410		170	19
91-57-6	2-Methylnaphthalene	420		170	31
91-20-3	Naphthalene	1200	F	170	19
85-01-8	Phenanthrene	1900	F	34	17
129-00-0	Pyrene	2600	F	86	16

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	93		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A092713.b\1AI27012.D
Lab Smp Id: 680-94506-A-19-A Client Smp ID: WCWL-GP05-2_4ft
Inj Date : 27-SEP-2013 13:47
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-94506-a-19-a
Misc Info : 680-94506-A-19-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A092713.b\a-bFASTPAHi-m.m
Meth Date : 27-Sep-2013 13:48 BSMA5973.i Quant Type: ISTD
Cal Date : 27-SEP-2013 13:01 Cal File: 1AI27009.D
Als bottle: 11
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:
Amt * DF * 1/Vi * Vt/Ws * 100/(100 - M) * A * B * C * D * GPC * CpndVariable

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.970	Weight Extracted
M	6.700	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
*	1 Naphthalene-d8	136	2.541	2.538	(1.000)	2746428	40.0000	
*	7 Acenaphthene-d10	164	3.566	3.569	(1.000)	2176933	40.0000	
*	11 Phenanthrene-d10	188	4.517	4.520	(1.000)	3473123	40.0000	
$	15 o-Terphenyl	230	4.811	4.814	(1.065)	43482	2.32475	665.7818
*	19 Chrysene-d12	240	6.542	6.545	(1.000)	3331283	40.0000	
*	24 Perylene-d12	264	7.632	7.635	(1.000)	2212449	40.0000	
	2 Naphthalene	128	2.546	2.549	(1.002)	221531	4.27406	1224.0430
	3 2-Methylnaphthalene	141	2.952	2.955	(1.162)	26779	1.45684	417.2238
	4 1-Methylnaphthalene	142	3.011	3.014	(1.185)	24423	1.41777	406.0352
	8 Acenaphthene	154	3.582	3.585	(1.004)	21417	1.80982	518.3134
	10 Fluorene	166	3.897	3.900	(1.093)	22784	1.55820	446.2506
	12 Phenanthrene	178	4.533	4.536	(1.004)	383269	6.72655	1926.4109
	13 Anthracene	178	4.565	4.568	(1.011)	30073	1.75444	502.4535
	16 Fluoranthene	202	5.399	5.402	(1.195)	912558	13.3787	3831.5084

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
17 Pyrene	202	5.564	5.567	(0.851)	530922	9.18014	2629.0915
18 Benzo(a)anthracene	228	6.537	6.534	(0.999)	834917	11.4084	3267.2377
20 Chrysene	228	6.563	6.566	(1.003)	1363321	24.5849	7040.8567
21 Benzo(b)fluoranthene	252	7.359	7.357	(0.964)	1440763	28.5464	8175.3830(M)
22 Benzo(k)fluoranthene	252	7.370	7.378	(0.966)	333320	7.40988	2122.1097(QM)
23 Benzo(a)pyrene	252	7.584	7.586	(0.994)	371152	9.21997	2640.4999
25 Indeno(1,2,3-cd)pyrene	276	8.390	8.398	(1.099)	292963	7.52628	2155.4451(M)
26 Dibenzo(a,h)anthracene	278	8.406	8.420	(1.101)	140570	4.34328	1243.8674
27 Benzo(g,h,i)perylene	276	8.609	8.612	(1.128)	355947	10.1516	2907.2979

QC Flag Legend

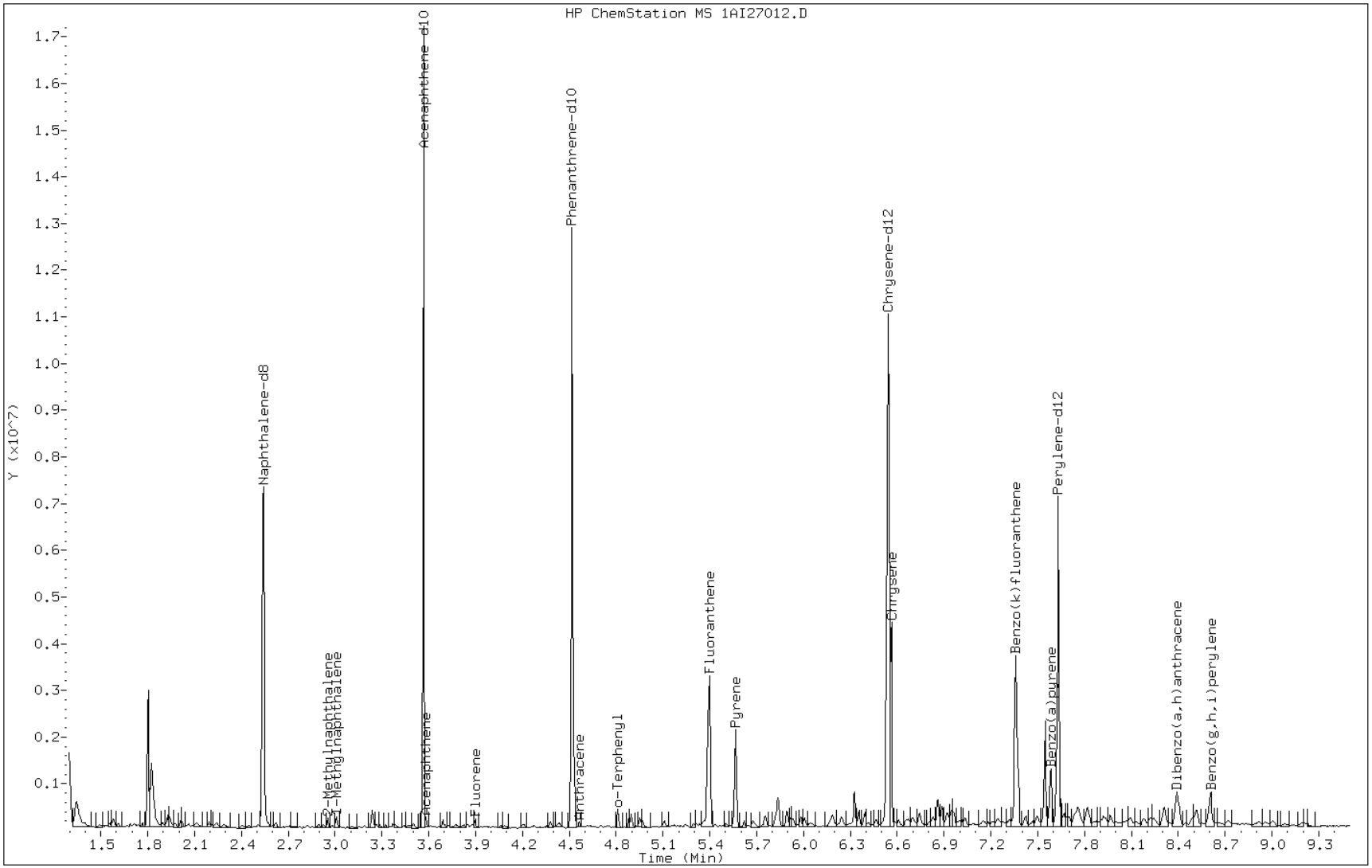
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1AI27012.D

Date: 27-SEP-2013 13:47

Client ID: WCWL-GP05-2_4ft Instrument: BSMA5973.i

Sample Info: 680-94506-a-19-a Operator: SCC



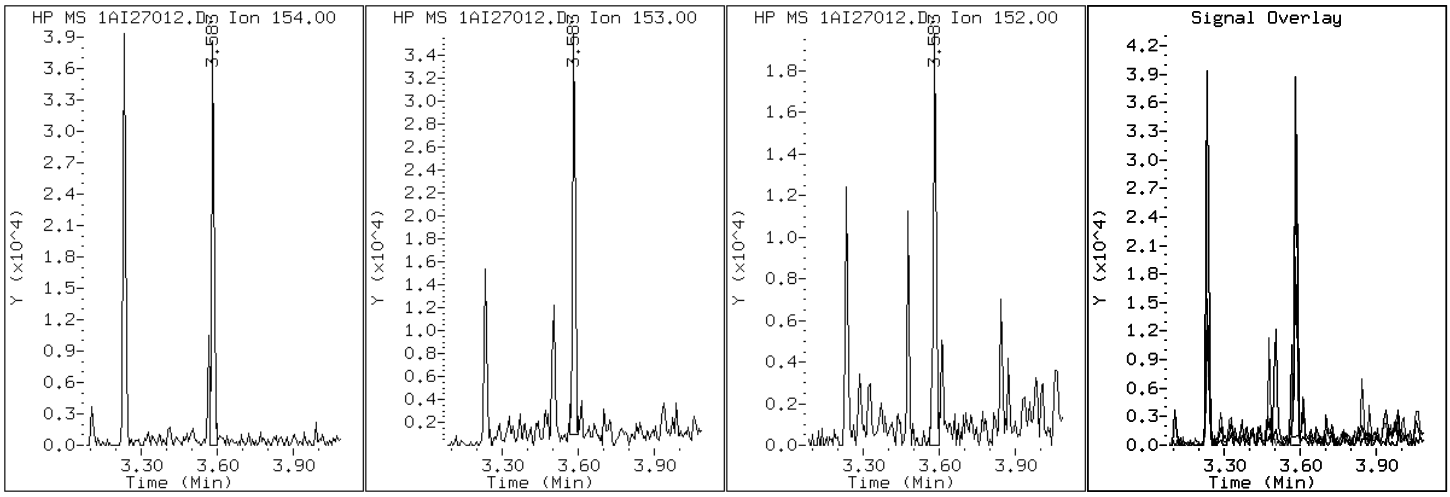
Data File: 1AI27012.D

Date: 27-SEP-2013 13:47

Client ID: WCWL-GP05-2_4ft Instrument: BSMA5973.i

Sample Info: 680-94506-a-19-a Operator: SCC

8 Acenaphthene



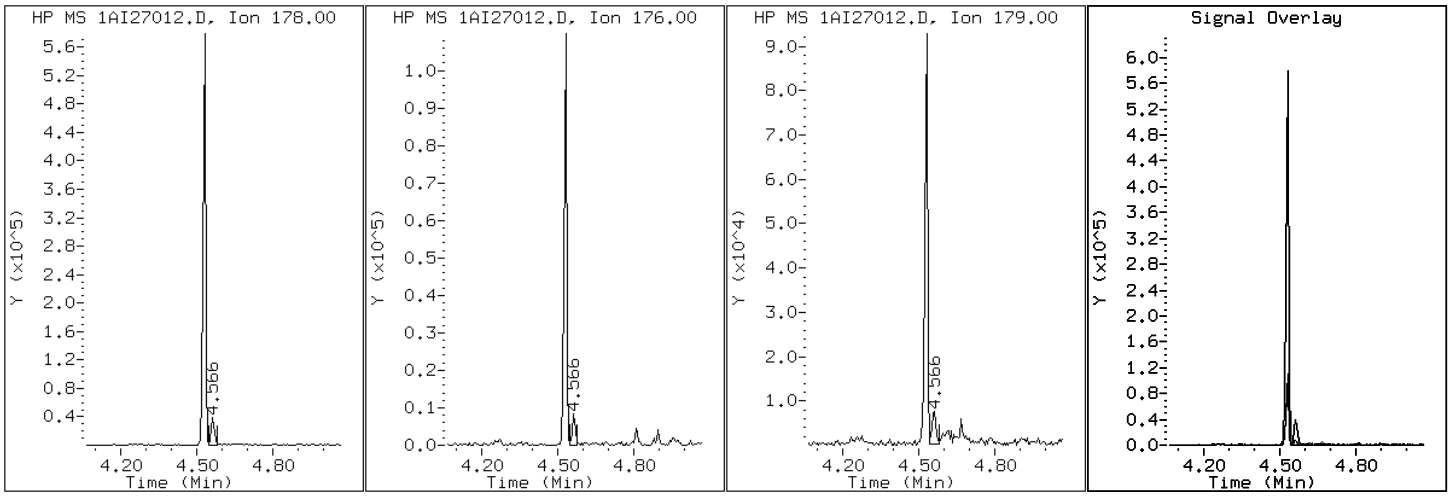
Data File: 1AI27012.D

Date: 27-SEP-2013 13:47

Client ID: WCWL-GP05-2_4ft Instrument: BSMA5973.i

Sample Info: 680-94506-a-19-a Operator: SCC

13 Anthracene



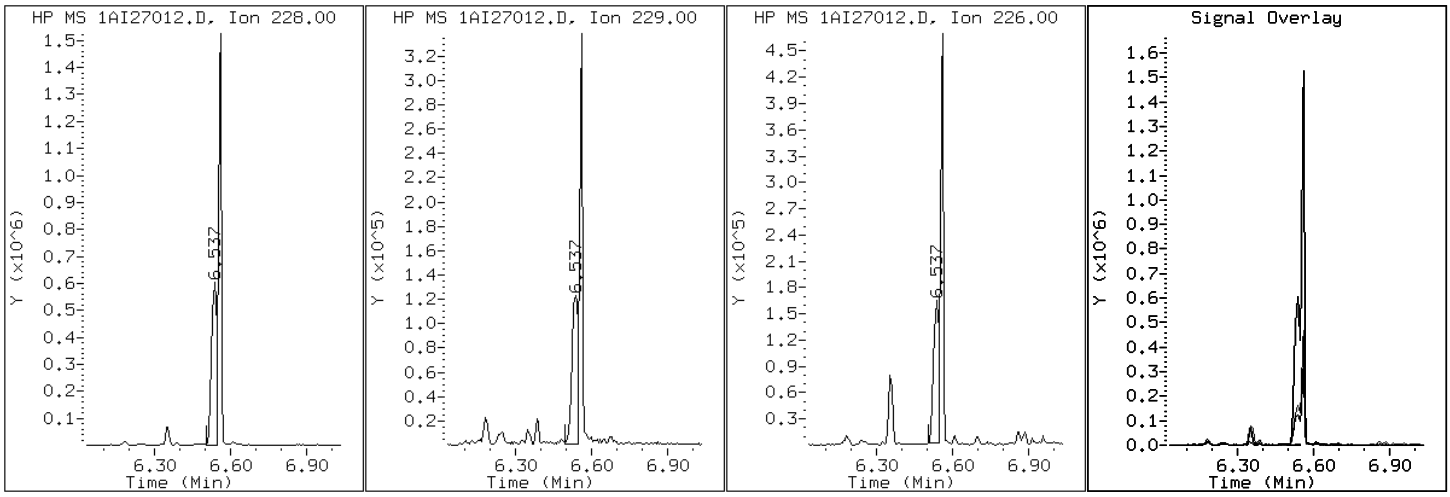
Data File: 1AI27012.D

Date: 27-SEP-2013 13:47

Client ID: WCWL-GP05-2_4ft Instrument: BSMA5973.i

Sample Info: 680-94506-a-19-a Operator: SCC

18 Benzo(a)anthracene



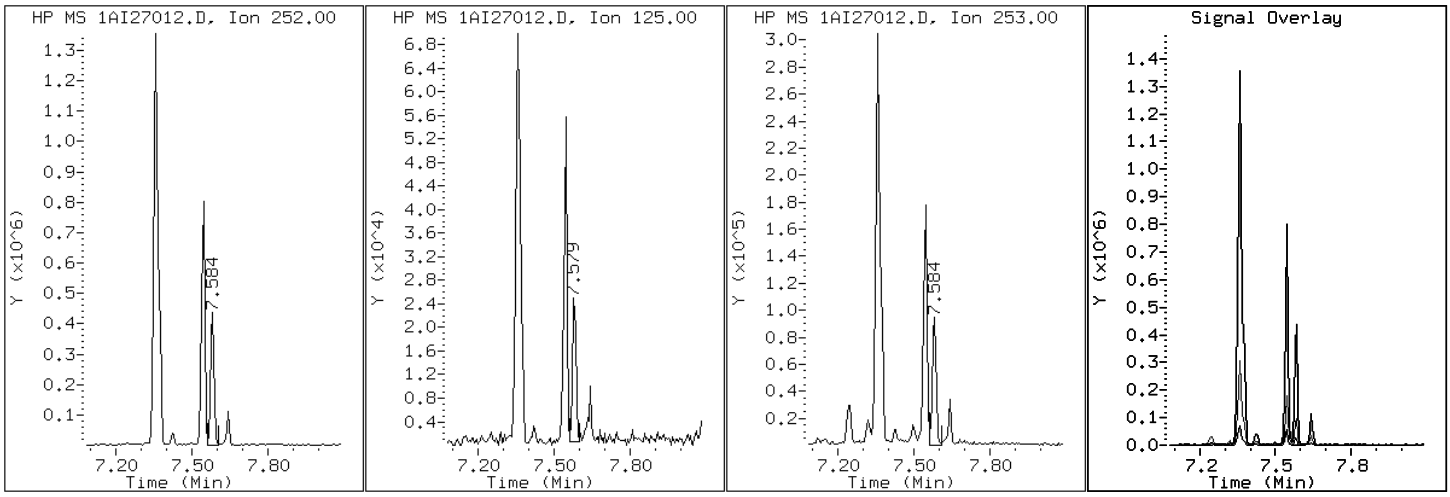
Data File: 1AI27012.D

Date: 27-SEP-2013 13:47

Client ID: WCWL-GP05-2_4ft Instrument: BSMA5973.i

Sample Info: 680-94506-a-19-a Operator: SCC

23 Benzo(a)pyrene



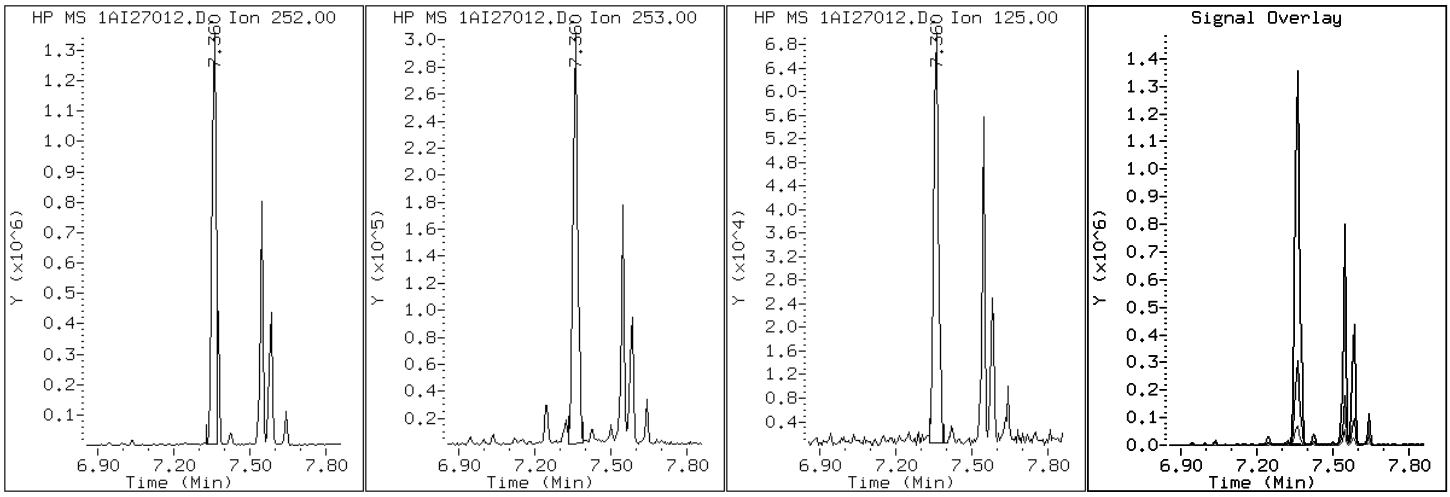
Data File: 1AI27012.D

Date: 27-SEP-2013 13:47

Client ID: WCWL-GP05-2_4ft Instrument: BSMA5973.i

Sample Info: 680-94506-a-19-a Operator: SCC

21 Benzo(b)fluoranthene



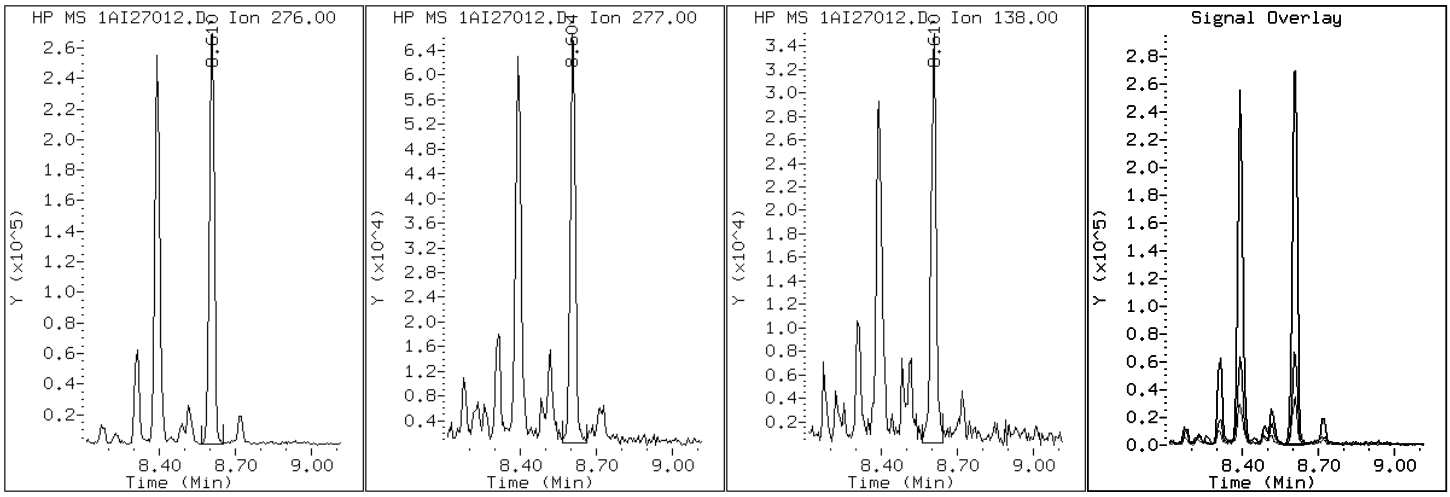
Data File: 1AI27012.D

Date: 27-SEP-2013 13:47

Client ID: WCWL-GP05-2_4ft Instrument: BSMA5973.i

Sample Info: 680-94506-a-19-a Operator: SCC

27 Benzo(g,h,i)perylene



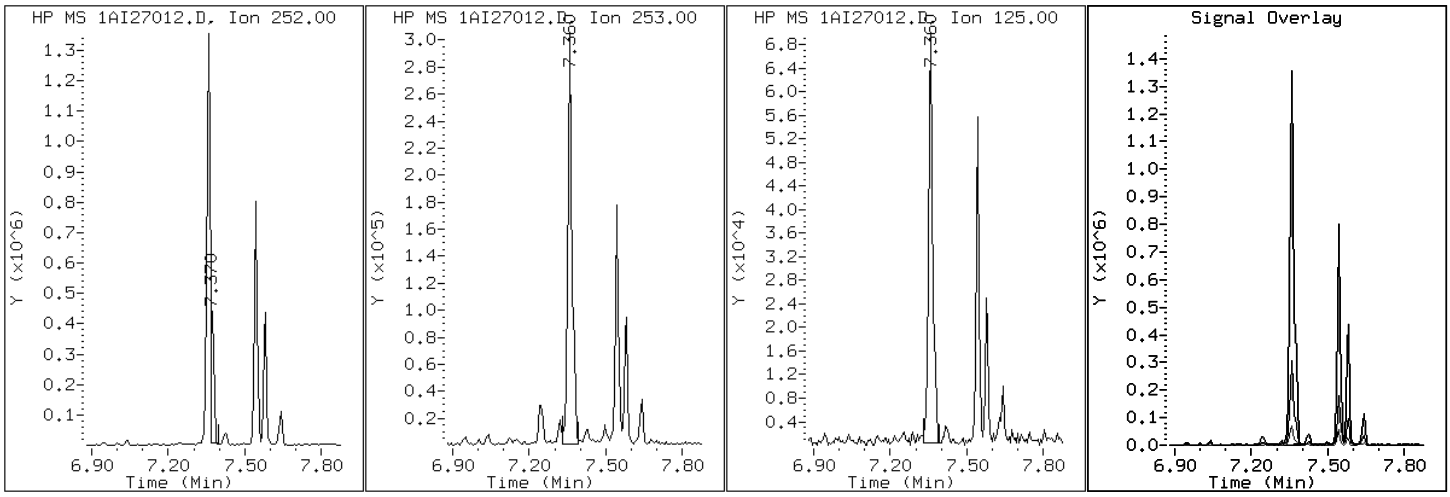
Data File: 1AI27012.D

Date: 27-SEP-2013 13:47

Client ID: WCWL-GP05-2_4ft Instrument: BSMA5973.i

Sample Info: 680-94506-a-19-a Operator: SCC

22 Benzo(k)fluoranthene



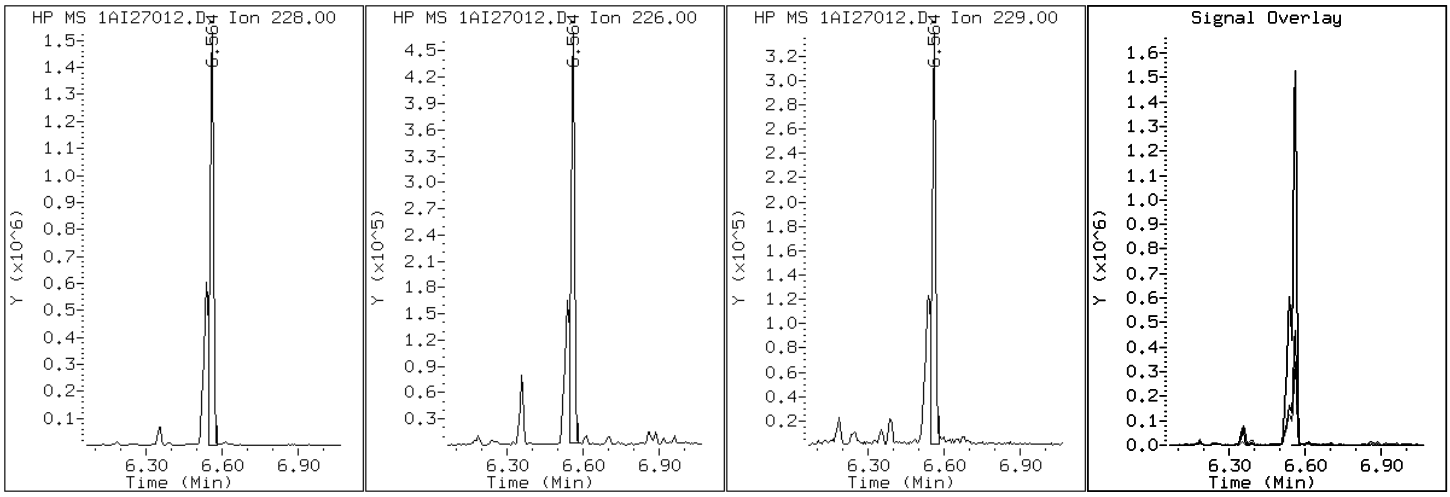
Data File: 1AI27012.D

Date: 27-SEP-2013 13:47

Client ID: WCWL-GP05-2_4ft Instrument: BSMA5973.i

Sample Info: 680-94506-a-19-a Operator: SCC

20 Chrysene



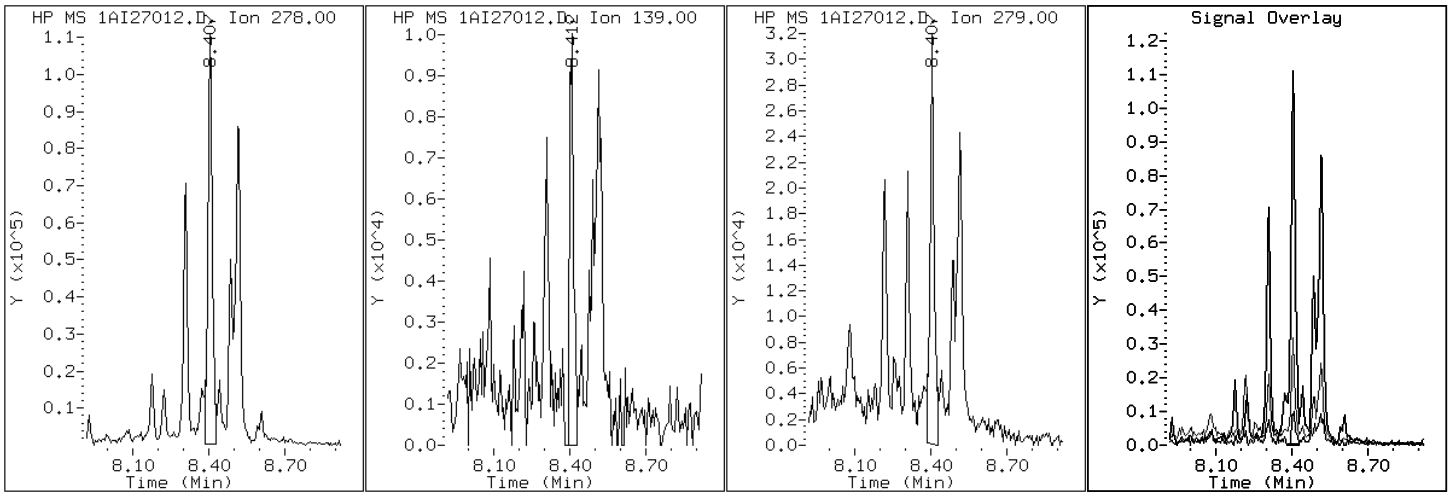
Data File: 1AI27012.D

Date: 27-SEP-2013 13:47

Client ID: WCWL-GP05-2_4ft Instrument: BSMA5973.i

Sample Info: 680-94506-a-19-a Operator: SCC

26 Dibenzo(a,h)anthracene



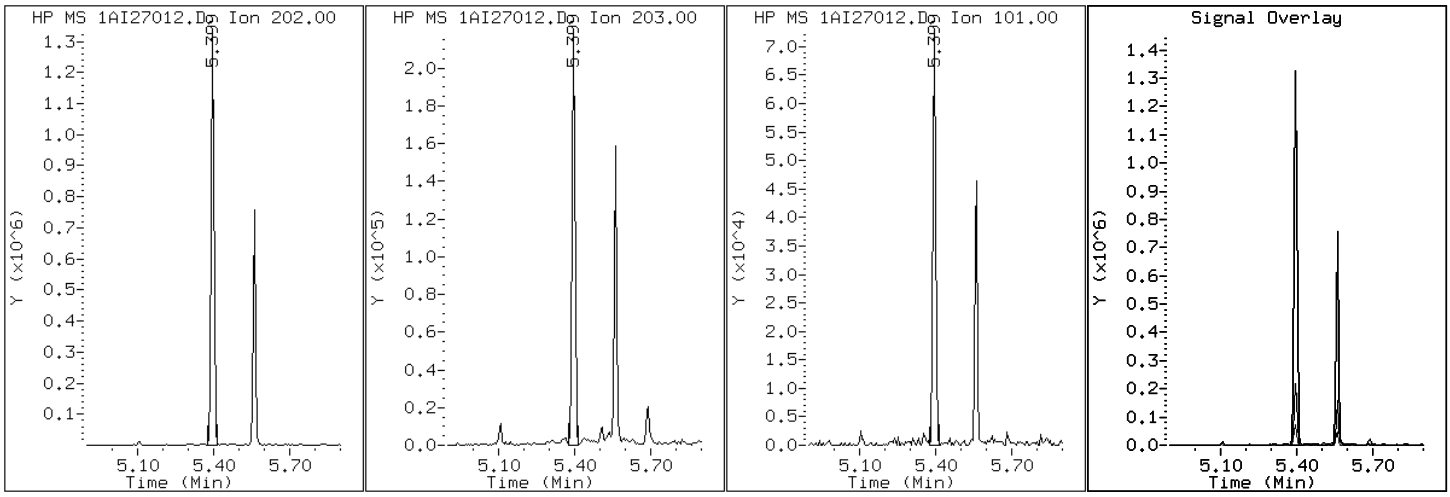
Data File: 1AI27012.D

Date: 27-SEP-2013 13:47

Client ID: WCWL-GP05-2_4ft Instrument: BSMA5973.i

Sample Info: 680-94506-a-19-a Operator: SCC

16 Fluoranthene



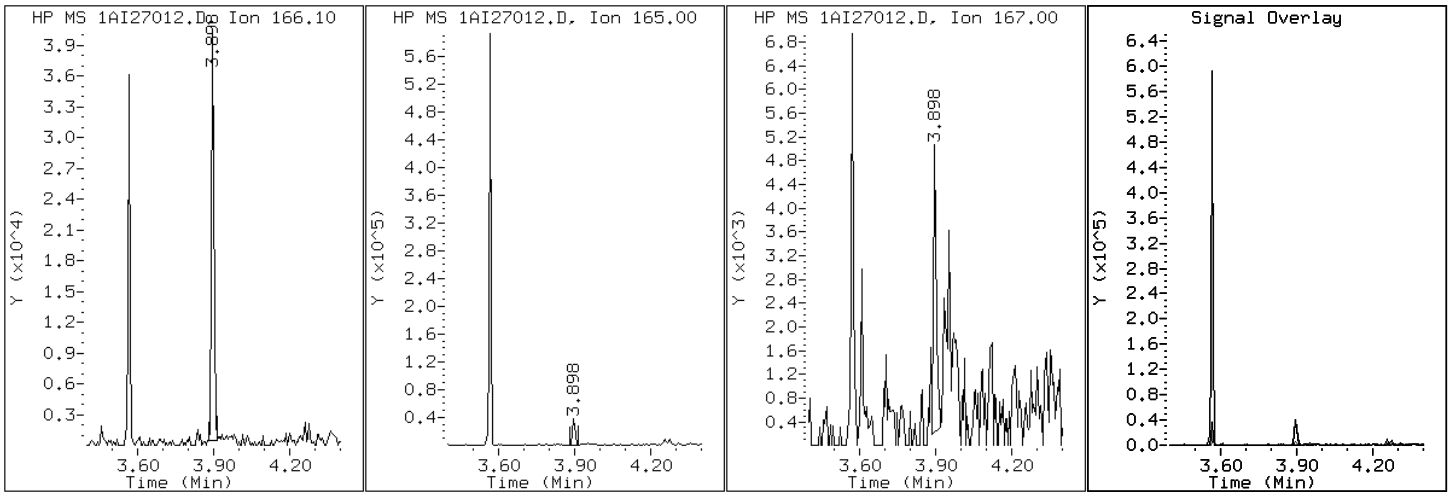
Data File: 1AI27012.D

Date: 27-SEP-2013 13:47

Client ID: WCWL-GP05-2_4ft Instrument: BSMA5973.i

Sample Info: 680-94506-a-19-a Operator: SCC

10 Fluorene



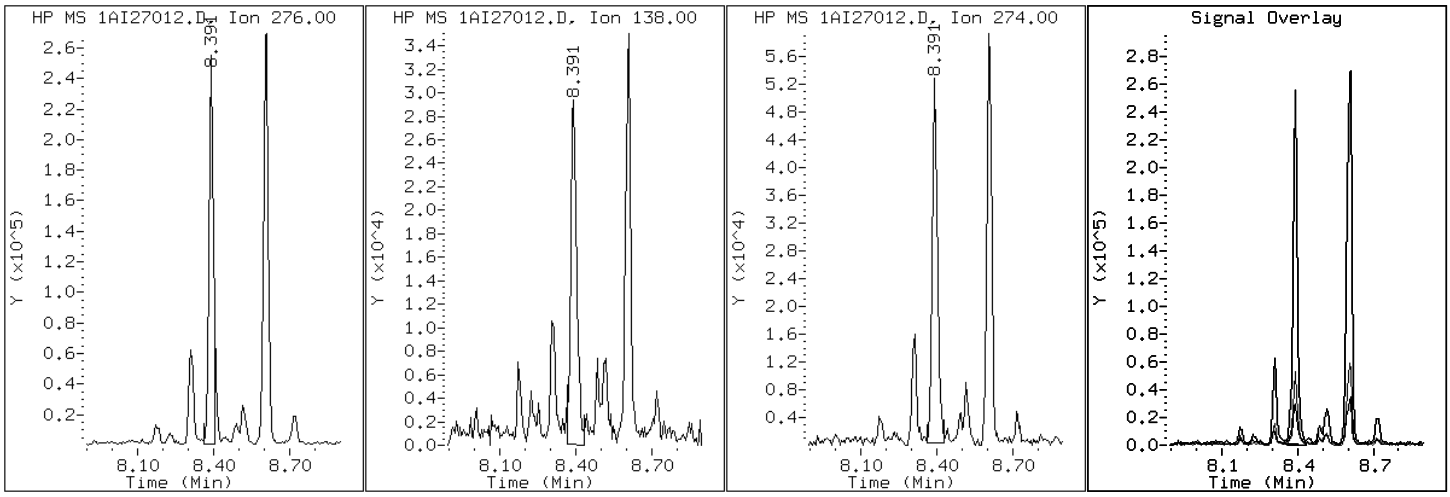
Data File: 1AI27012.D

Date: 27-SEP-2013 13:47

Client ID: WCWL-GP05-2_4ft Instrument: BSMA5973.i

Sample Info: 680-94506-a-19-a Operator: SCC

25 Indeno(1,2,3-cd)pyrene



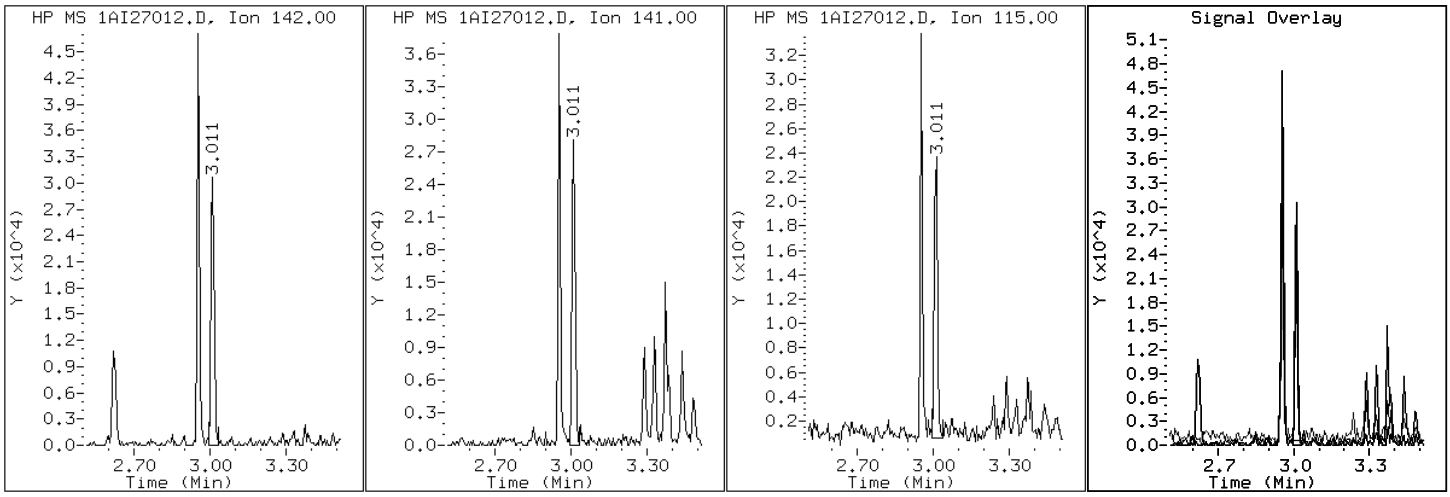
Data File: 1AI27012.D

Date: 27-SEP-2013 13:47

Client ID: WCWL-GP05-2_4ft Instrument: BSMA5973.i

Sample Info: 680-94506-a-19-a Operator: SCC

4 1-Methylnaphthalene



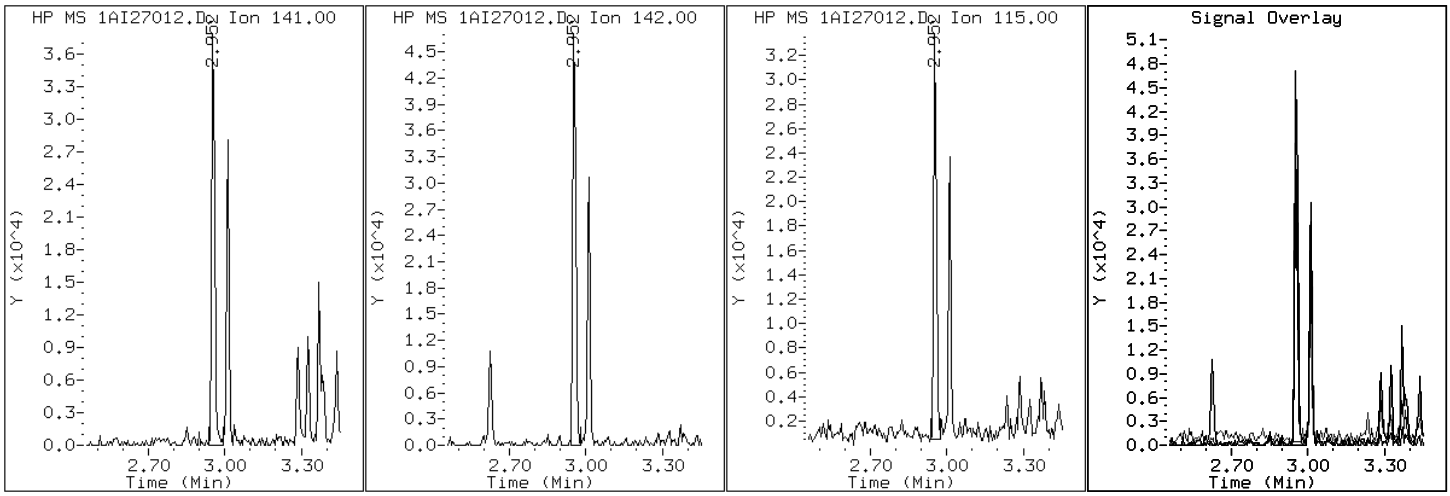
Data File: 1AI27012.D

Date: 27-SEP-2013 13:47

Client ID: WCWL-GP05-2_4ft Instrument: BSMA5973.i

Sample Info: 680-94506-a-19-a Operator: SCC

3 2-Methylnaphthalene



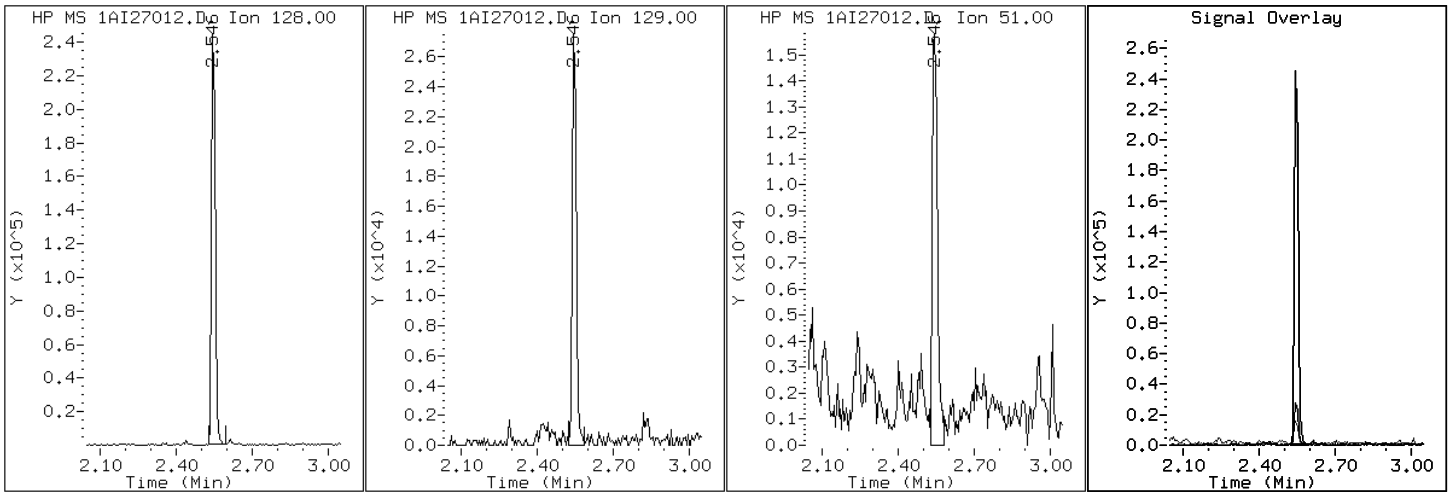
Data File: 1AI27012.D

Date: 27-SEP-2013 13:47

Client ID: WCWL-GP05-2_4ft Instrument: BSMA5973.i

Sample Info: 680-94506-a-19-a Operator: SCC

2 Naphthalene



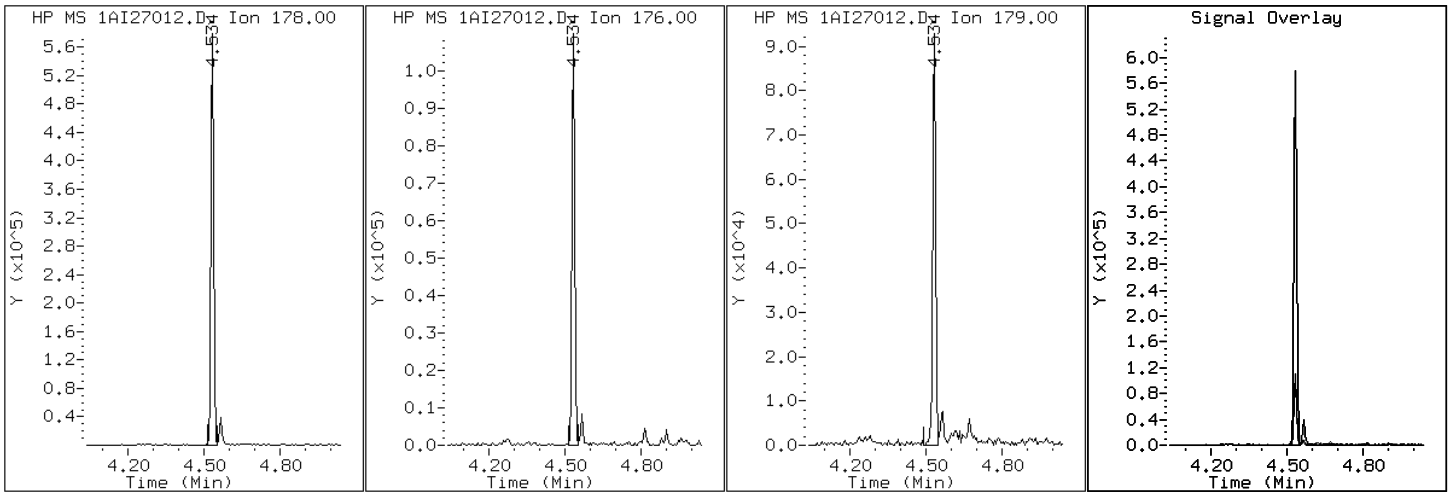
Data File: 1AI27012.D

Date: 27-SEP-2013 13:47

Client ID: WCWL-GP05-2_4ft Instrument: BSMA5973.i

Sample Info: 680-94506-a-19-a Operator: SCC

12 Phenanthrene



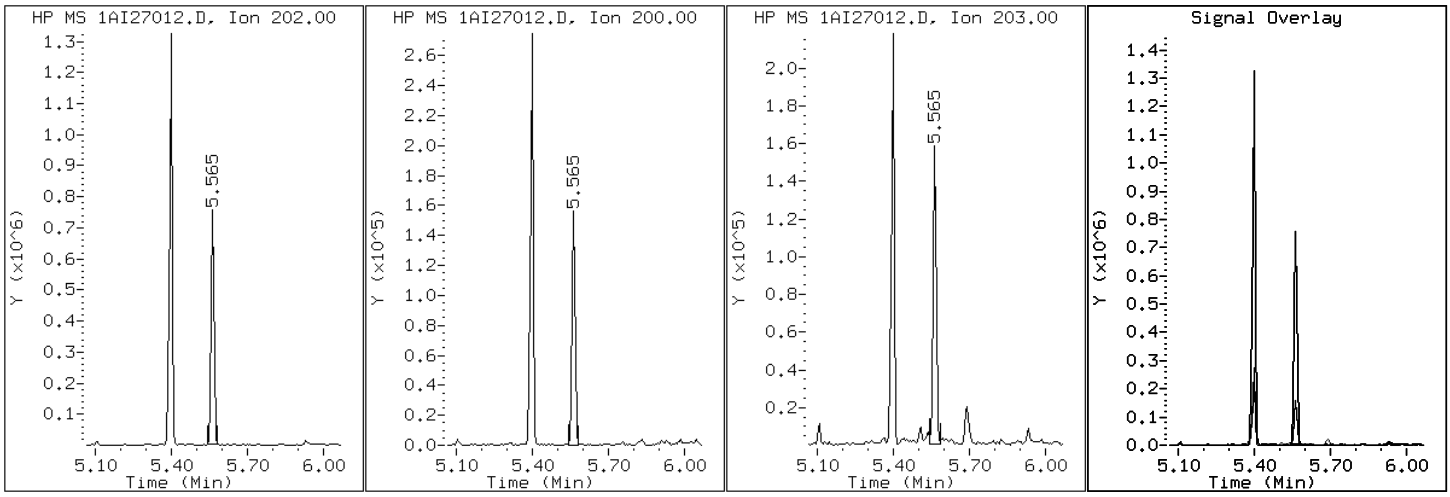
Data File: 1AI27012.D

Date: 27-SEP-2013 13:47

Client ID: WCWL-GP05-2_4ft Instrument: BSMA5973.i

Sample Info: 680-94506-a-19-a Operator: SCC

17 Pyrene



Manual Integration Report

Data File: 1AI27012.D
Inj. Date and Time: 27-SEP-2013 13:47
Instrument ID: BSMA5973.i
Client ID: WCWL-GP05-2_4ft
Compound: 21 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 09/27/2013

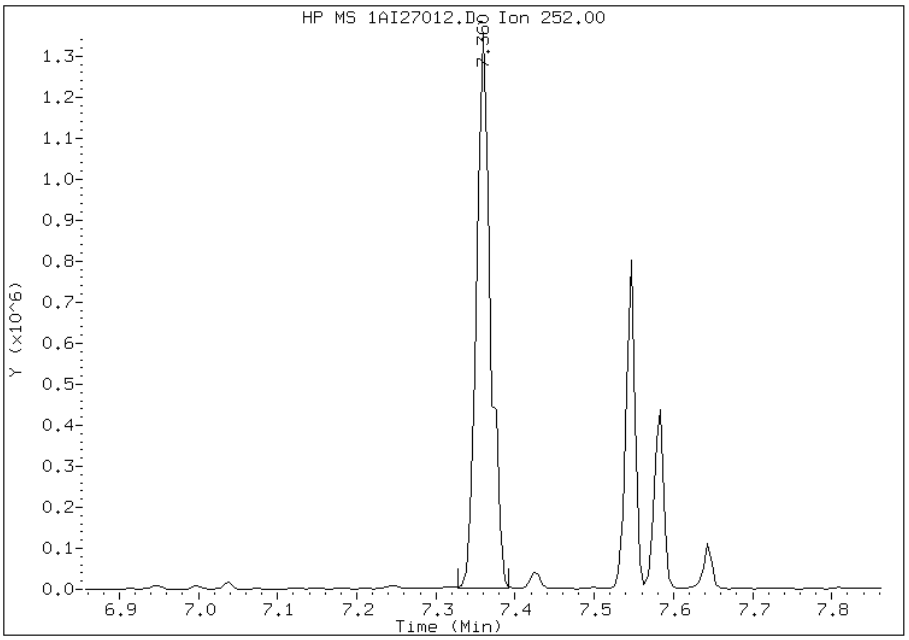
Processing Integration Results

RT: 7.36

Response: 1637349

Amount: 32

Conc: 9056



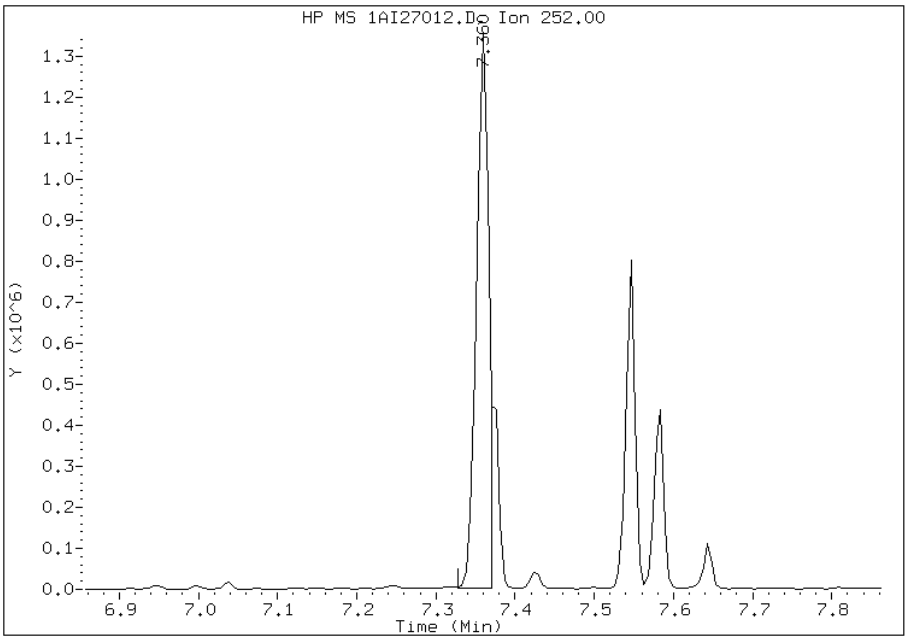
Manual Integration Results

RT: 7.36

Response: 1440763

Amount: 29

Conc: 8175



Manually Integrated By: cantins
Modification Date: 27-Sep-2013 14:41
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AI27012.D
Inj. Date and Time: 27-SEP-2013 13:47
Instrument ID: BSMA5973.i
Client ID: WCWL-GP05-2_4ft
Compound: 22 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 09/27/2013

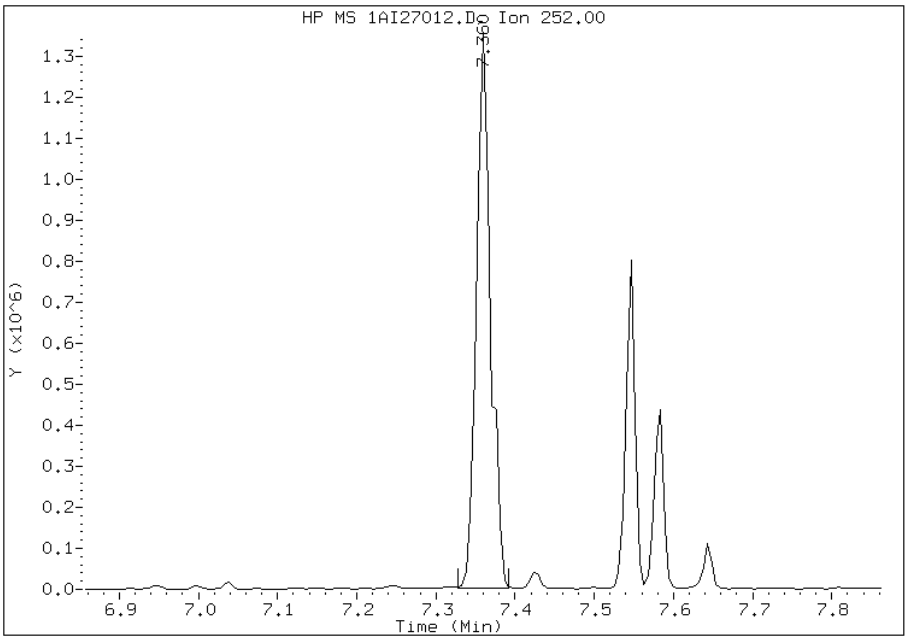
Processing Integration Results

RT: 7.36

Response: 1637470

Amount: 30

Conc: 8509



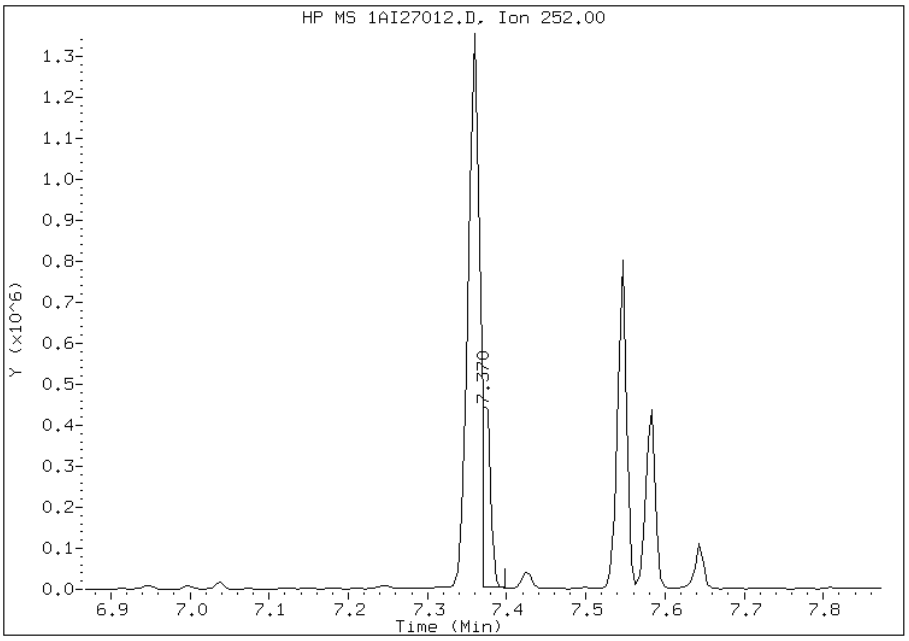
Manual Integration Results

RT: 7.37

Response: 333320

Amount: 7

Conc: 2122



Manually Integrated By: cantins
Modification Date: 27-Sep-2013 14:40
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AI27012.D
Inj. Date and Time: 27-SEP-2013 13:47
Instrument ID: BSMA5973.i
Client ID: WCWL-GP05-2_4ft
Compound: 25 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 09/27/2013

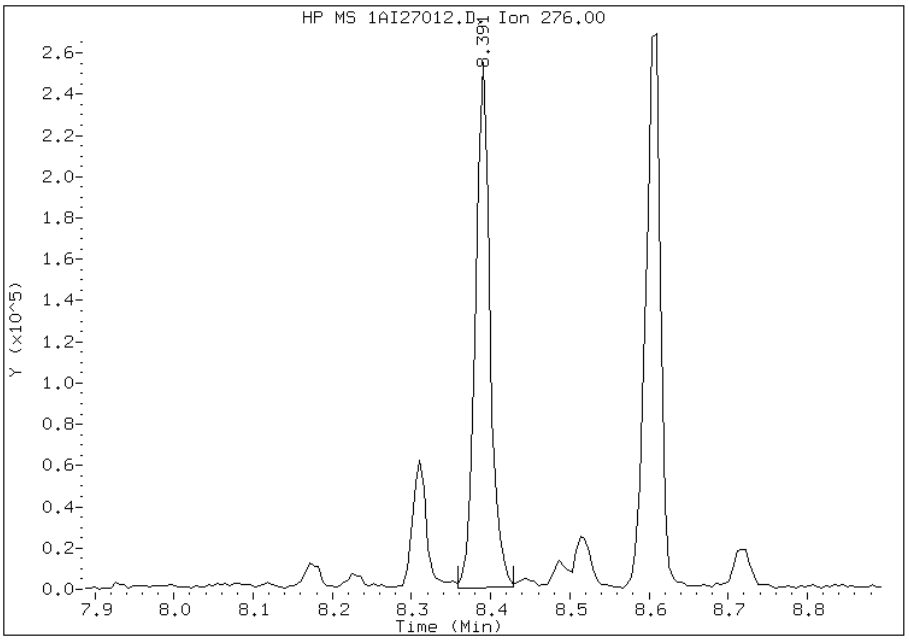
Processing Integration Results

RT: 8.39

Response: 320338

Amount: 8

Conc: 2357



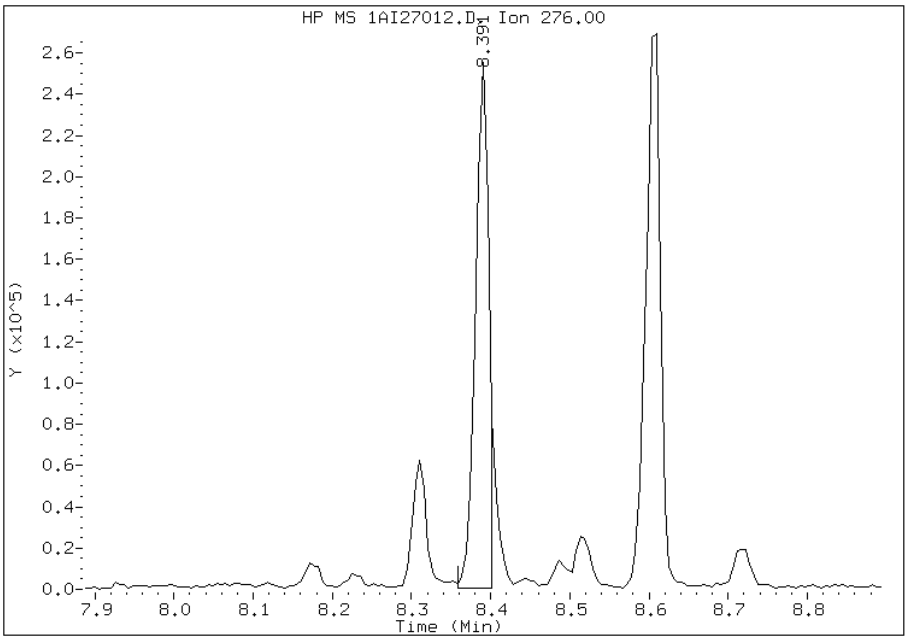
Manual Integration Results

RT: 8.39

Response: 292963

Amount: 8

Conc: 2155



Manually Integrated By: cantins
Modification Date: 27-Sep-2013 14:40
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-94506-2

SDG No.: 680-94506-2

Client Sample ID: WCRW-GP01-0_6in | Lab Sample ID: 680-94506-20

Matrix: Solid | Lab File ID: 1AI26021.D

Analysis Method: 8270C LL | Date Collected: 09/18/2013 13:30

Extract. Method: 3546 | Date Extracted: 09/25/2013 09:48

Sample wt/vol: 15.33(g) | Date Analyzed: 09/26/2013 17:28

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 7.4 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 141781 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	110	U	110	21
208-96-8	Acenaphthylene	42	U	42	5.3
120-12-7	Anthracene	8.9	U	8.9	4.4
56-55-3	Benzo[a]anthracene	8.5	U	8.5	4.1
50-32-8	Benzo[a]pyrene	11	U	11	5.5
205-99-2	Benzo[b]fluoranthene	9.0	J	13	6.4
191-24-2	Benzo[g,h,i]perylene	21	U	21	4.6
207-08-9	Benzo[k]fluoranthene	8.5	U	8.5	3.8
218-01-9	Chrysene	8.6	J	9.5	4.8
53-70-3	Dibenz(a,h)anthracene	21	U	21	4.3
206-44-0	Fluoranthene	59		21	4.2
86-73-7	Fluorene	21	U	21	4.3
193-39-5	Indeno[1,2,3-cd]pyrene	21	U	21	7.5
90-12-0	1-Methylnaphthalene	42	U	42	4.6
91-57-6	2-Methylnaphthalene	42	U	42	7.5
91-20-3	Naphthalene	42	U	42	4.6
85-01-8	Phenanthrene	8.5	U	8.5	4.1
129-00-0	Pyrene	21		21	3.9

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	60		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A092613_pahIC.b\1AI26021.D
Lab Smp Id: 680-94506-A-20-A Client Smp ID: WCRW-GP01-0_6in
Inj Date : 26-SEP-2013 17:28
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-94506-a-20-a
Misc Info : 680-94506-A-20-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A092613_pahIC.b\a-bFASTPAHi-m.m
Meth Date : 26-Sep-2013 14:34 BSMA5973.i Quant Type: ISTD
Cal Date : 26-SEP-2013 14:01 Cal File: 1AI26009.D
Als bottle: 21
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:
Amt * DF * 1/Vi * Vt/Ws * 100/(100 - M) * A * B * C * D * GPC * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.330	Weight Extracted
M	7.400	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	2.538	2.544	(1.000)	3027640	40.0000	
* 7 Acenaphthene-d10	164	3.574	3.575	(1.000)	2256549	40.0000	
* 11 Phenanthrene-d10	188	4.525	4.526	(1.000)	3348120	40.0000	
$ 15 o-Terphenyl	230	4.819	4.819	(1.065)	207444	5.97304	420.7673
* 19 Chrysene-d12	240	6.550	6.550	(1.000)	2659345	40.0000	
* 24 Perylene-d12	264	7.645	7.635	(1.000)	2129660	40.0000	
16 Fluoranthene	202	5.401	5.407	(1.194)	9702	0.83739	58.9897
17 Pyrene	202	5.567	5.573	(0.850)	6539	0.29799	20.9915
20 Chrysene	228	6.560	6.566	(1.002)	5776	0.12145	8.5552(QM)
21 Benzo(b)fluoranthene	252	7.362	7.362	(0.963)	6083	0.12787	9.0074
23 Benzo(a)pyrene	252	7.597	7.587	(0.994)	1729	0.04128	2.9077(Q)
27 Benzo(g,h,i)perylene	276	8.623	8.618	(1.128)	1898	0.04849	3.4158

QC Flag Legend

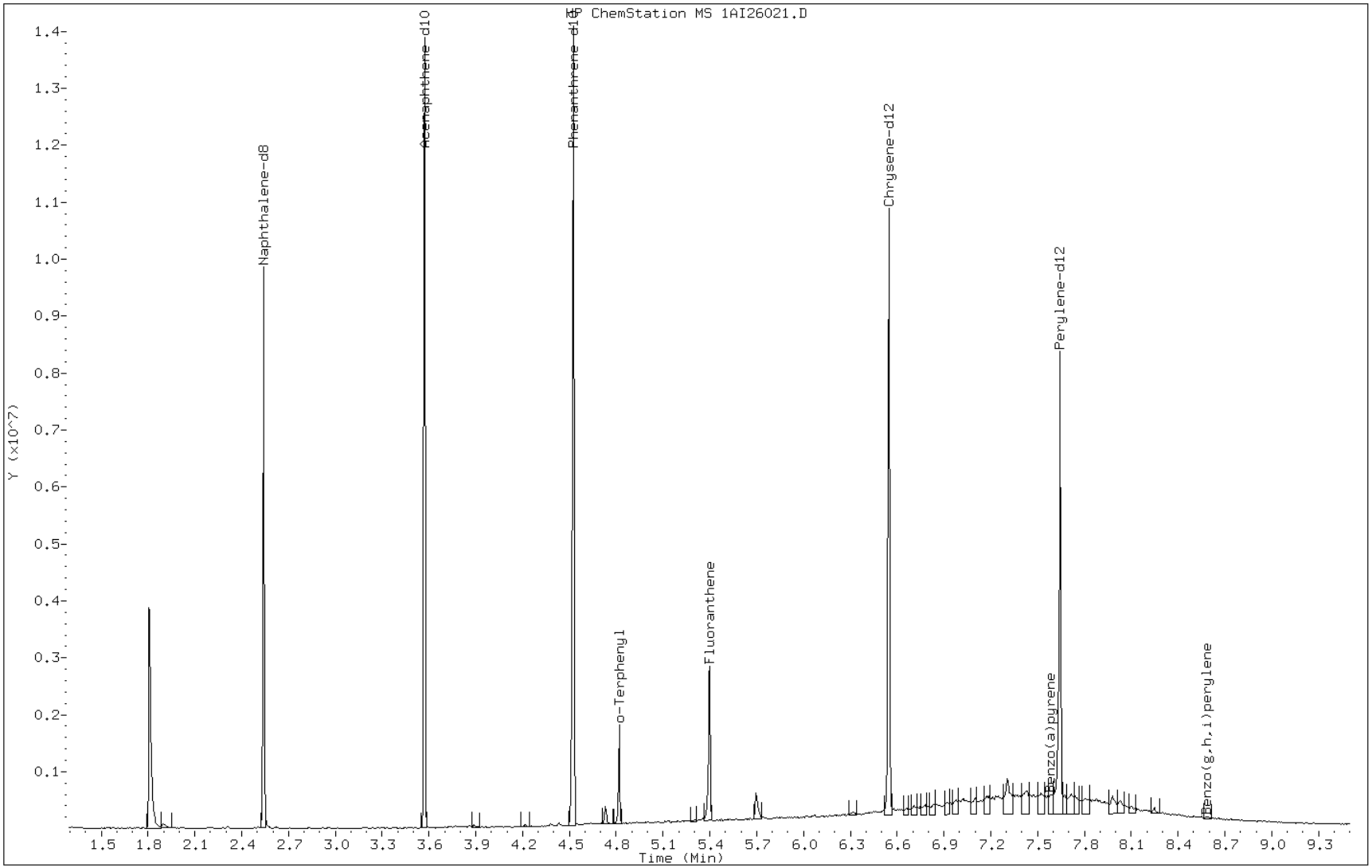
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1AI26021.D

Date: 26-SEP-2013 17:28

Client ID: WCRW-GP01-0_6in Instrument: BSMA5973.i

Sample Info: 680-94506-a-20-a Operator: SCC



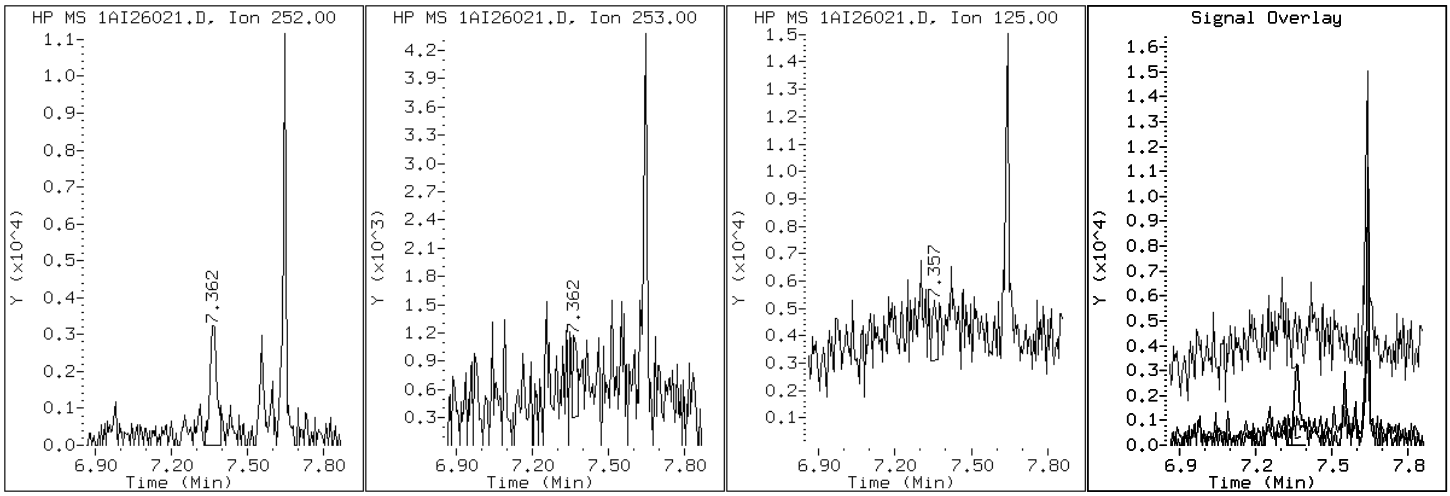
Data File: 1AI26021.D

Date: 26-SEP-2013 17:28

Client ID: WCRW-GP01-0_6in Instrument: BSMA5973.i

Sample Info: 680-94506-a-20-a Operator: SCC

21 Benzo(b)fluoranthene



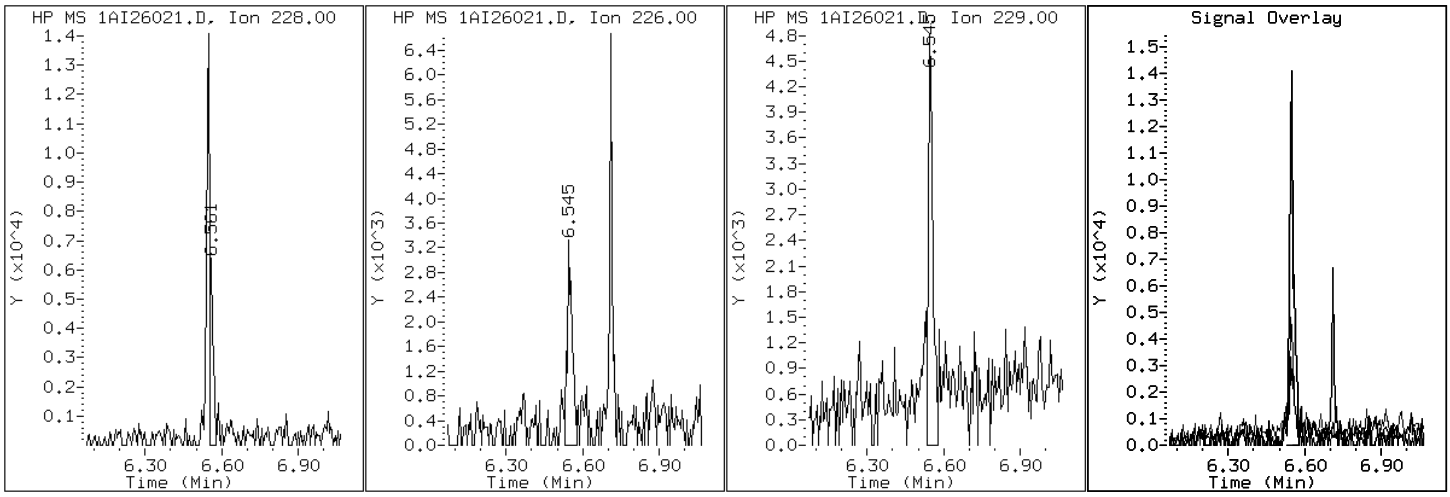
Data File: 1AI26021.D

Date: 26-SEP-2013 17:28

Client ID: WCRW-GP01-0_6in Instrument: BSMA5973.i

Sample Info: 680-94506-a-20-a Operator: SCC

20 Chrysene



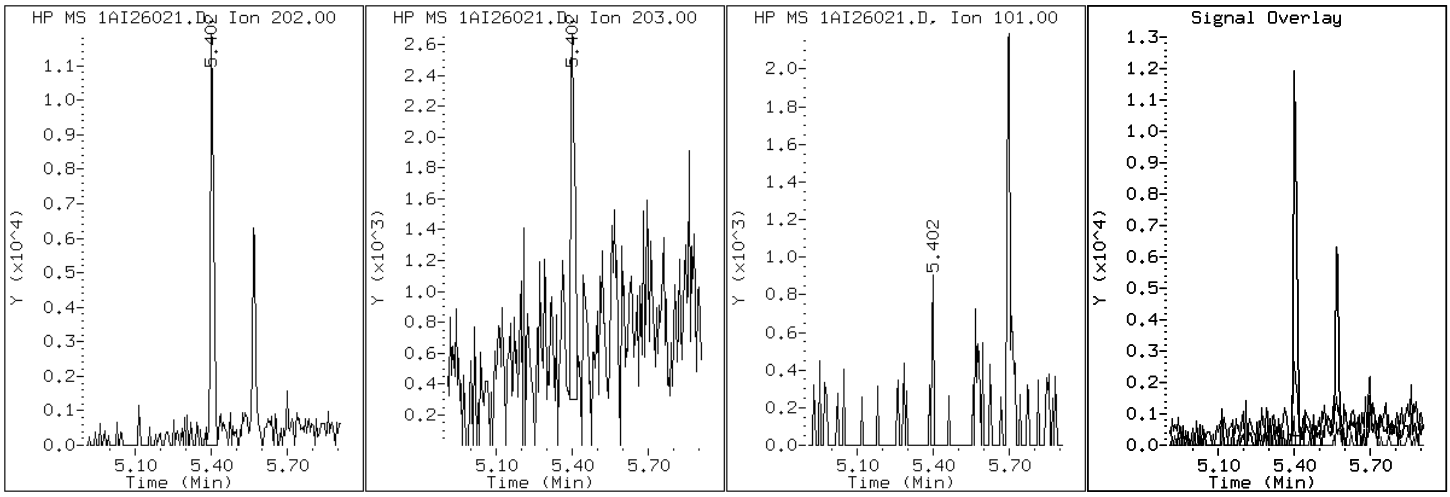
Data File: 1AI26021.D

Date: 26-SEP-2013 17:28

Client ID: WCRW-GP01-0_6in Instrument: BSMA5973.i

Sample Info: 680-94506-a-20-a Operator: SCC

16 Fluoranthene



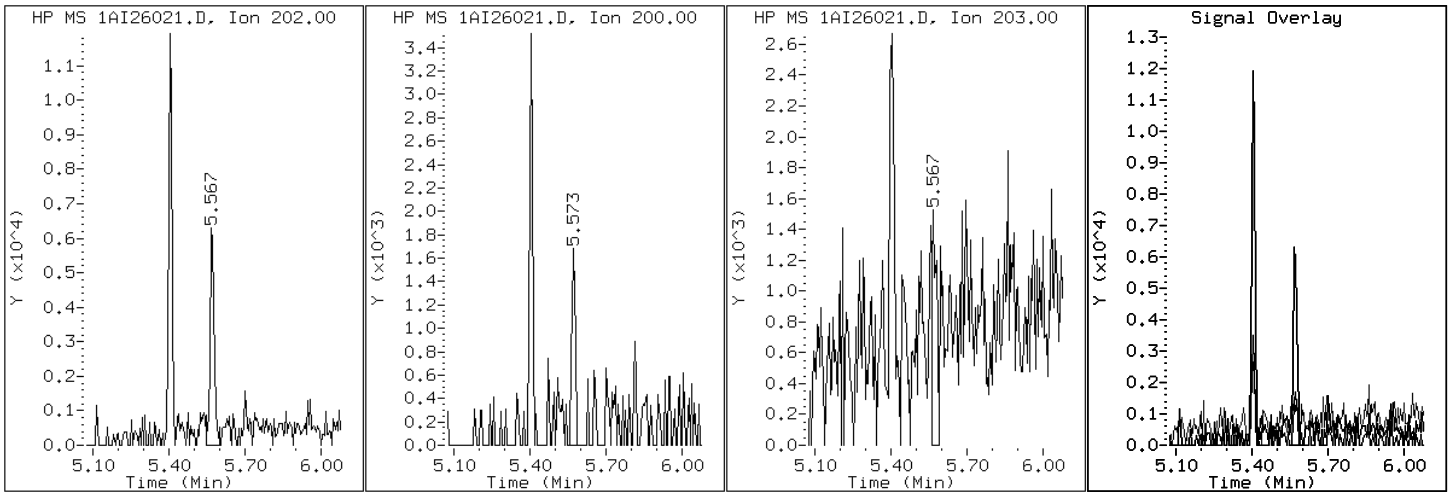
Data File: 1AI26021.D

Date: 26-SEP-2013 17:28

Client ID: WCRW-GP01-0_6in Instrument: BSMA5973.i

Sample Info: 680-94506-a-20-a Operator: SCC

17 Pyrene



Manual Integration Report

Data File: 1AI26021.D
Inj. Date and Time: 26-SEP-2013 17:28
Instrument ID: BSMA5973.i
Client ID: WCRW-GP01-0_6in
Compound: 20 Chrysene
CAS #: 218-01-9
Report Date: 09/27/2013

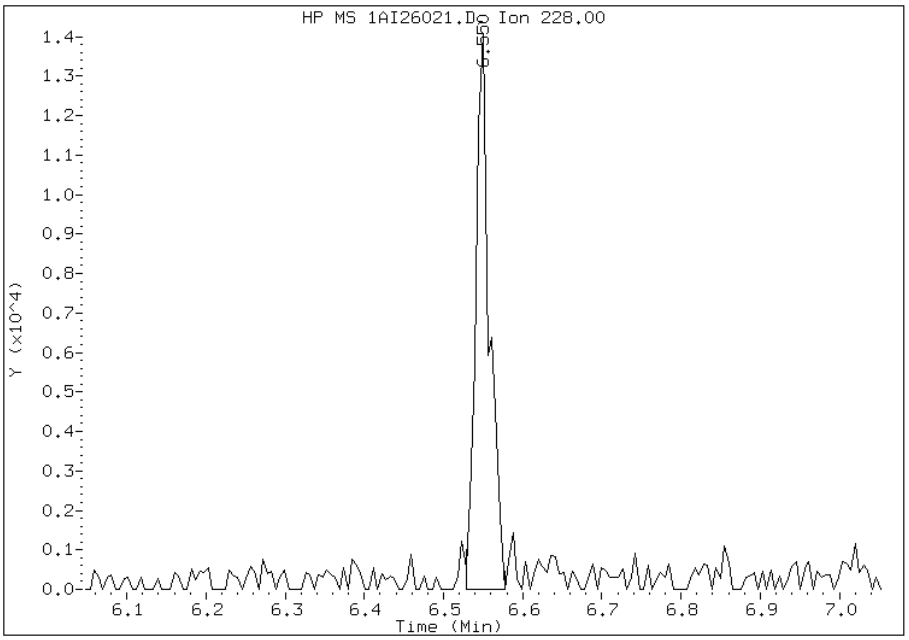
Processing Integration Results

RT: 6.55

Response: 16802

Amount: 0

Conc: 25



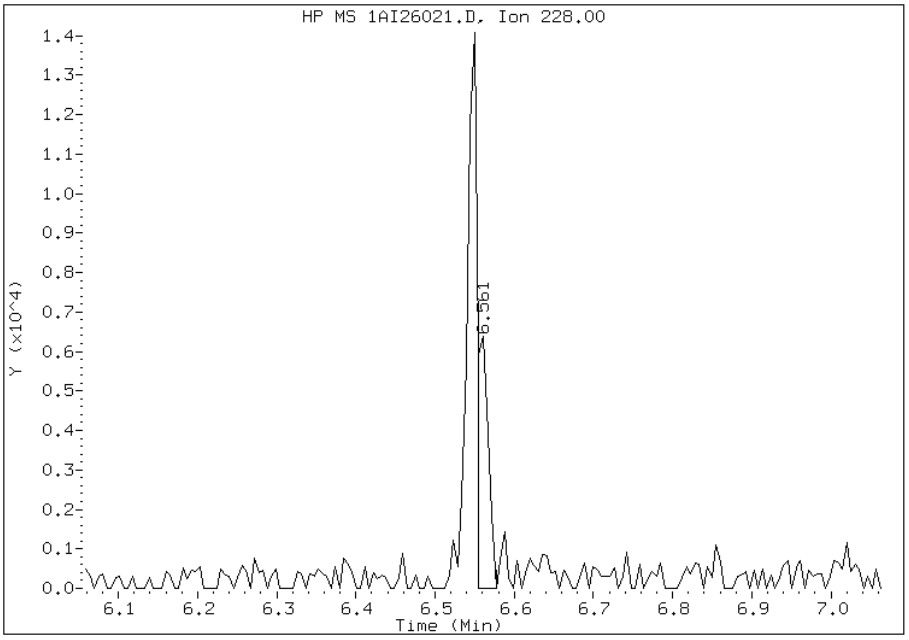
Manual Integration Results

RT: 6.56

Response: 5776

Amount: 0

Conc: 9



Manually Integrated By: cantins
Modification Date: 27-Sep-2013 10:25
Manual Integration Reason: Baseline Event

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-94506-2

SDG No.: 680-94506-2

Client Sample ID: WCWL-GP04-3_4ft | Lab Sample ID: 680-94506-21

Matrix: Solid | Lab File ID: 1AI26022.D

Analysis Method: 8270C LL | Date Collected: 09/18/2013 15:50

Extract. Method: 3546 | Date Extracted: 09/25/2013 09:48

Sample wt/vol: 15.22(g) | Date Analyzed: 09/26/2013 17:43

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 15.9 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 141781 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	120	U	120	23
208-96-8	Acenaphthylene	62		47	5.9
120-12-7	Anthracene	96		9.8	4.9
56-55-3	Benzo[a]anthracene	150		9.4	4.6
50-32-8	Benzo[a]pyrene	55		12	6.1
205-99-2	Benzo[b]fluoranthene	130		14	7.1
191-24-2	Benzo[g,h,i]perylene	61		23	5.2
207-08-9	Benzo[k]fluoranthene	79		9.4	4.2
218-01-9	Chrysene	250		11	5.3
53-70-3	Dibenz(a,h)anthracene	24		23	4.8
206-44-0	Fluoranthene	190		23	4.7
86-73-7	Fluorene	70		23	4.8
193-39-5	Indeno[1,2,3-cd]pyrene	41		23	8.3
90-12-0	1-Methylnaphthalene	180		47	5.2
91-57-6	2-Methylnaphthalene	190		47	8.3
91-20-3	Naphthalene	220		47	5.2
85-01-8	Phenanthrene	310		9.4	4.6
129-00-0	Pyrene	160		23	4.3

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	58		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A092613_pahIC.b\1AI26022.D
Lab Smp Id: 680-94506-A-21-A Client Smp ID: WCWL-GP04-3_4ft
Inj Date : 26-SEP-2013 17:43
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-94506-a-21-a
Misc Info : 680-94506-A-21-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A092613_pahIC.b\a-bFASTPAHi-m.m
Meth Date : 26-Sep-2013 14:34 BSMA5973.i Quant Type: ISTD
Cal Date : 26-SEP-2013 14:01 Cal File: 1AI26009.D
Als bottle: 22
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:
Amt * DF * 1/Vi * Vt/Ws * 100/(100 - M) * A * B * C * D * GPC * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.220	Weight Extracted
M	16.000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
*	1 Naphthalene-d8	136	2.544	2.544	(1.000)	2715394	40.0000	
*	7 Acenaphthene-d10	164	3.575	3.575	(1.000)	1969300	40.0000	
*	11 Phenanthrene-d10	188	4.525	4.526	(1.000)	2763528	40.0000	
$	15 o-Terphenyl	230	4.819	4.819	(1.065)	163479	5.75889	450.4480
*	19 Chrysene-d12	240	6.555	6.550	(1.000)	2420023	40.0000	
*	24 Perylene-d12	264	7.651	7.635	(1.000)	2318491	40.0000	
	2 Naphthalene	128	2.554	2.554	(1.004)	120732	2.86923	224.4254
	3 2-Methylnaphthalene	141	2.960	2.960	(1.164)	48071	2.42946	190.0269
	4 1-Methylnaphthalene	142	3.014	3.014	(1.185)	53679	2.30888	180.5956
	6 Acenaphthylene	152	3.484	3.484	(0.975)	11687	0.78914	61.7249
	10 Fluorene	166	3.906	3.906	(1.093)	5733	0.89044	69.6483(Q)
	12 Phenanthrene	178	4.536	4.542	(1.002)	153988	4.01493	314.0396
	13 Anthracene	178	4.574	4.574	(1.011)	20277	1.23155	96.3289
	16 Fluoranthene	202	5.407	5.407	(1.195)	91711	2.37874	186.0599

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
17 Pyrene	202	5.573	5.573	(0.850)	82000	2.08012	162.7028
18 Benzo(a)anthracene	228	6.550	6.540	(0.999)	113441	1.94164	151.8710(QM)
20 Chrysene	228	6.566	6.566	(1.002)	136935	3.16393	247.4759(QM)
21 Benzo(b)fluoranthene	252	7.368	7.362	(0.963)	87191	1.68350	131.6795(M)
22 Benzo(k)fluoranthene	252	7.378	7.384	(0.964)	27775	1.01190	79.1490(QM)
23 Benzo(a)pyrene	252	7.592	7.587	(0.992)	31953	0.70069	54.8063
25 Indeno(1,2,3-cd)pyrene	276	8.415	8.399	(1.100)	23269	0.51866	40.5683(M)
26 Dibenzo(a,h)anthracene	278	8.431	8.420	(1.102)	13529	0.30829	24.1138
27 Benzo(g,h,i)perylene	276	8.628	8.618	(1.128)	33124	0.77732	60.8005

QC Flag Legend

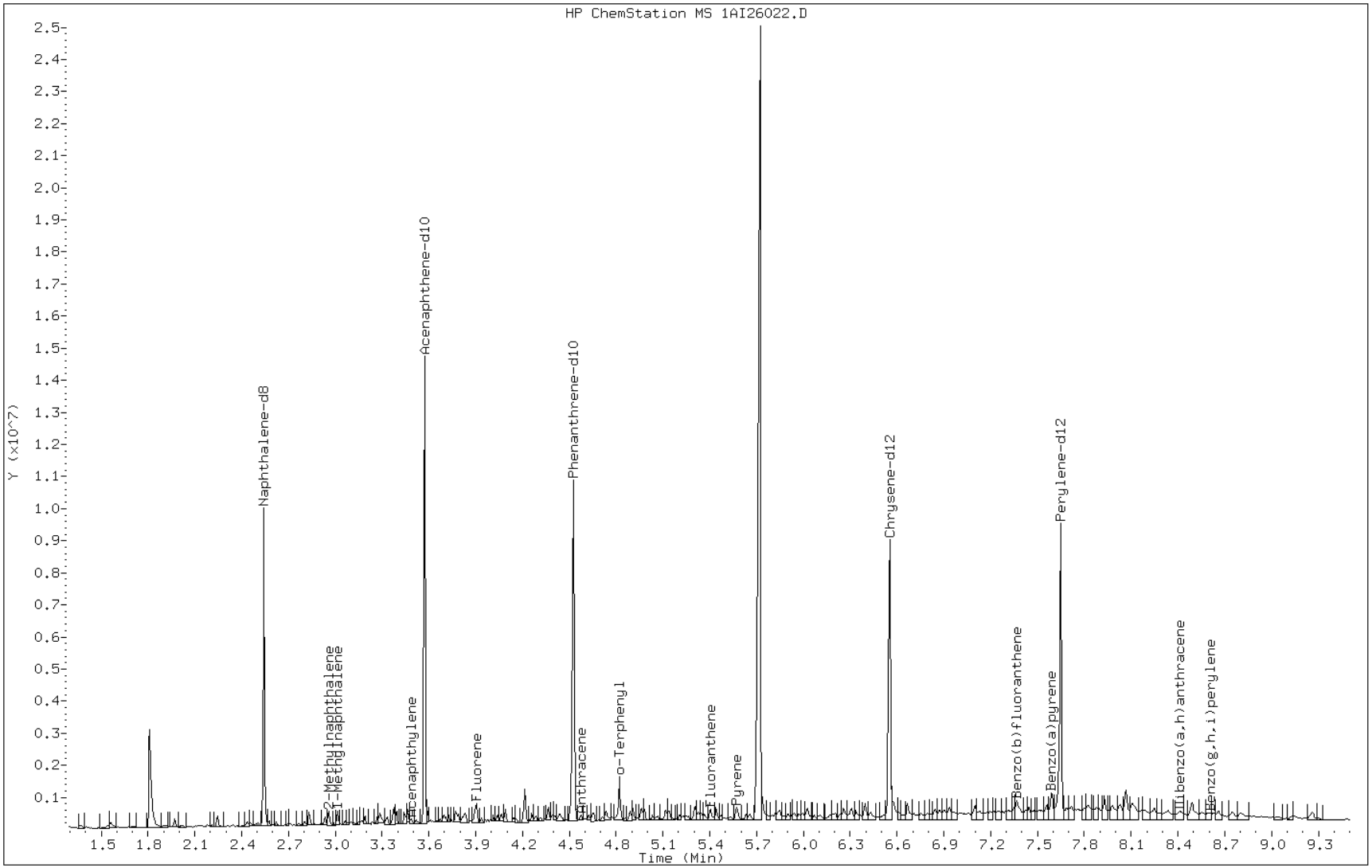
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1AI26022.D

Date: 26-SEP-2013 17:43

Client ID: WCWL-GP04-3_4ft Instrument: BSMA5973.i

Sample Info: 680-94506-a-21-a Operator: SCC



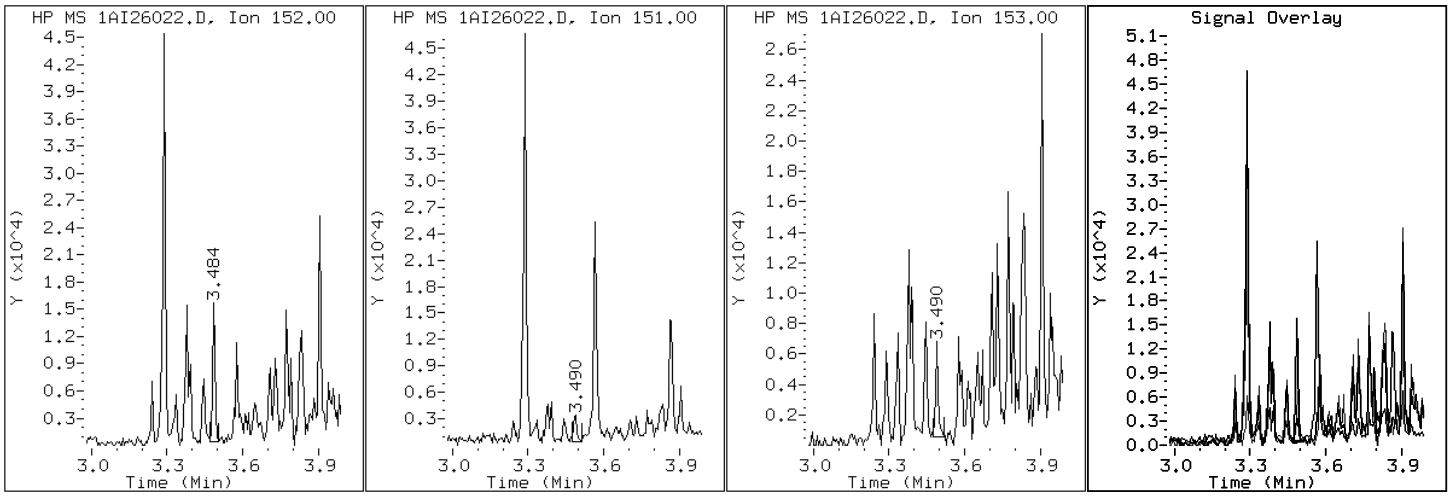
Data File: 1AI26022.D

Date: 26-SEP-2013 17:43

Client ID: WCWL-GP04-3_4ft Instrument: BSMA5973.i

Sample Info: 680-94506-a-21-a Operator: SCC

6 Acenaphthylene



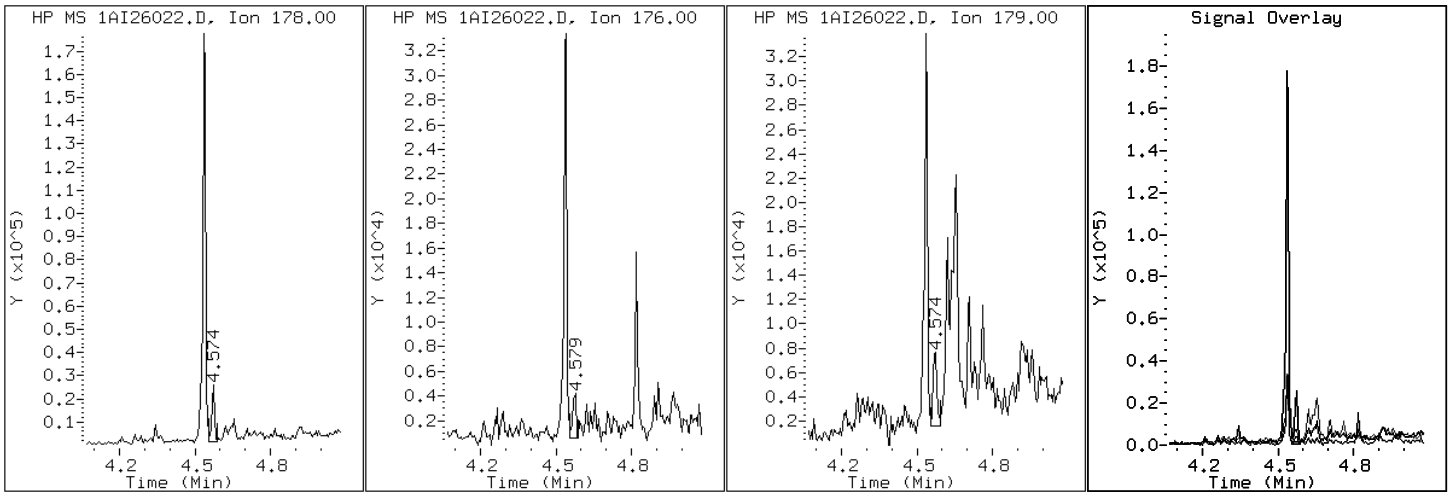
Data File: 1AI26022.D

Date: 26-SEP-2013 17:43

Client ID: WCWL-GP04-3_4ft Instrument: BSMA5973.i

Sample Info: 680-94506-a-21-a Operator: SCC

13 Anthracene



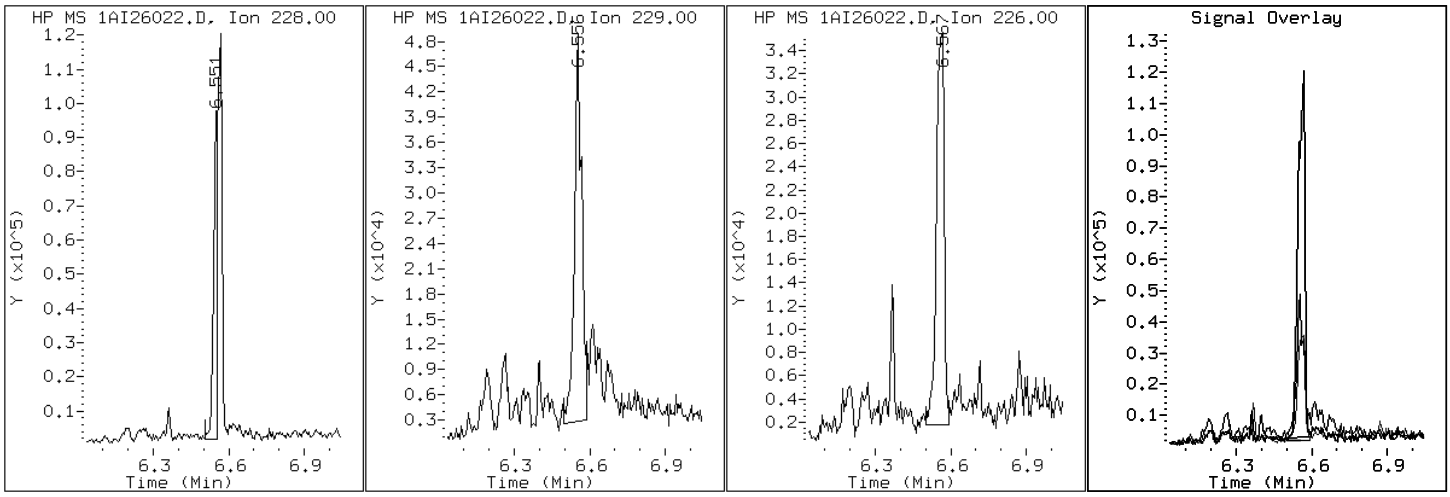
Data File: 1AI26022.D

Date: 26-SEP-2013 17:43

Client ID: WCWL-GP04-3_4ft Instrument: BSMA5973.i

Sample Info: 680-94506-a-21-a Operator: SCC

18 Benzo(a)anthracene



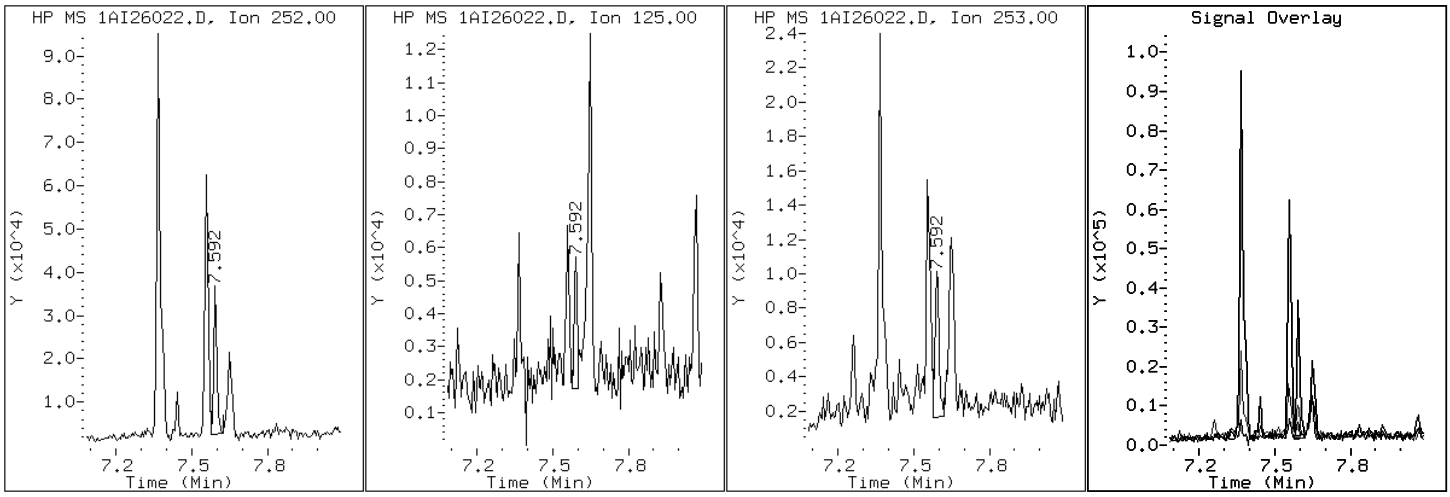
Data File: 1AI26022.D

Date: 26-SEP-2013 17:43

Client ID: WCWL-GP04-3_4ft Instrument: BSMA5973.i

Sample Info: 680-94506-a-21-a Operator: SCC

23 Benzo(a)pyrene



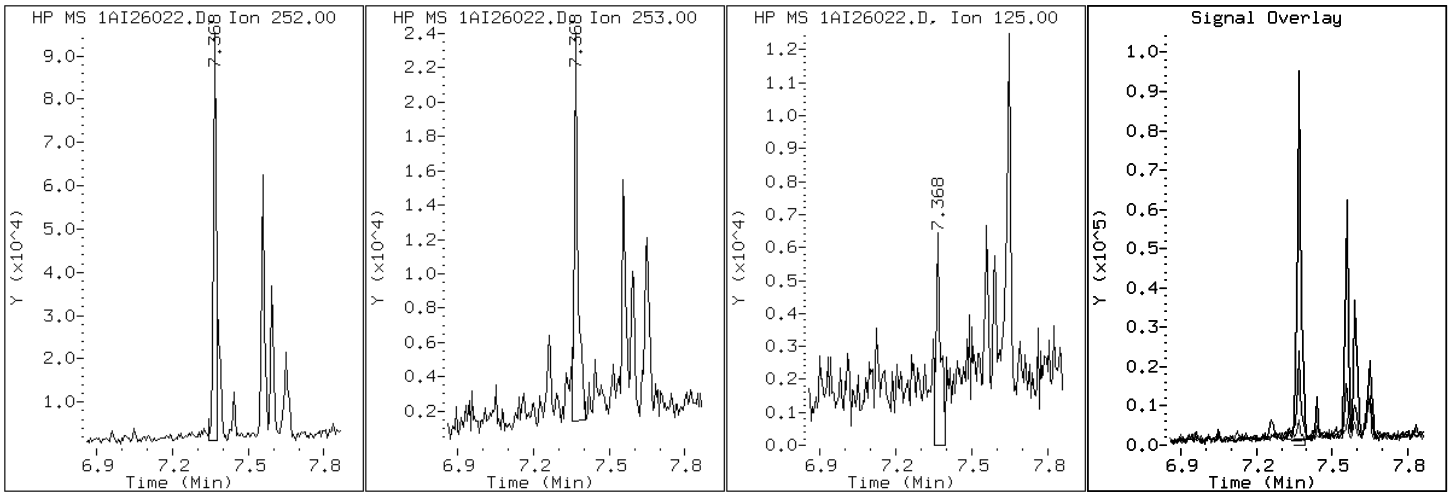
Data File: 1AI26022.D

Date: 26-SEP-2013 17:43

Client ID: WCWL-GP04-3_4ft Instrument: BSMA5973.i

Sample Info: 680-94506-a-21-a Operator: SCC

21 Benzo(b)fluoranthene



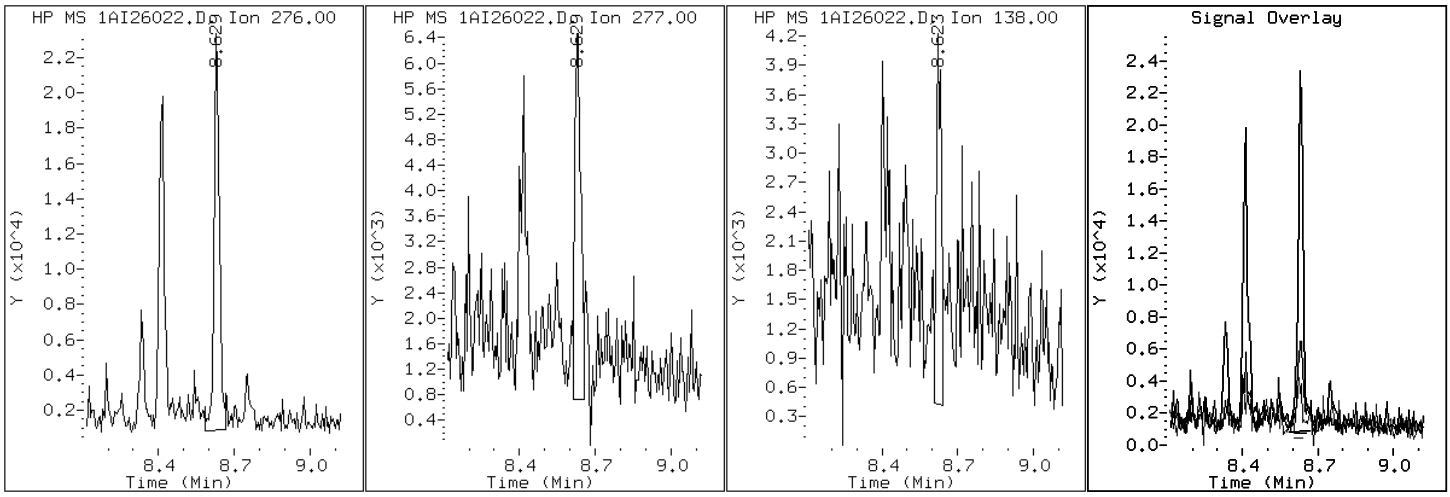
Data File: 1AI26022.D

Date: 26-SEP-2013 17:43

Client ID: WCWL-GP04-3_4ft Instrument: BSMA5973.i

Sample Info: 680-94506-a-21-a Operator: SCC

27 Benzo(g,h,i)perylene



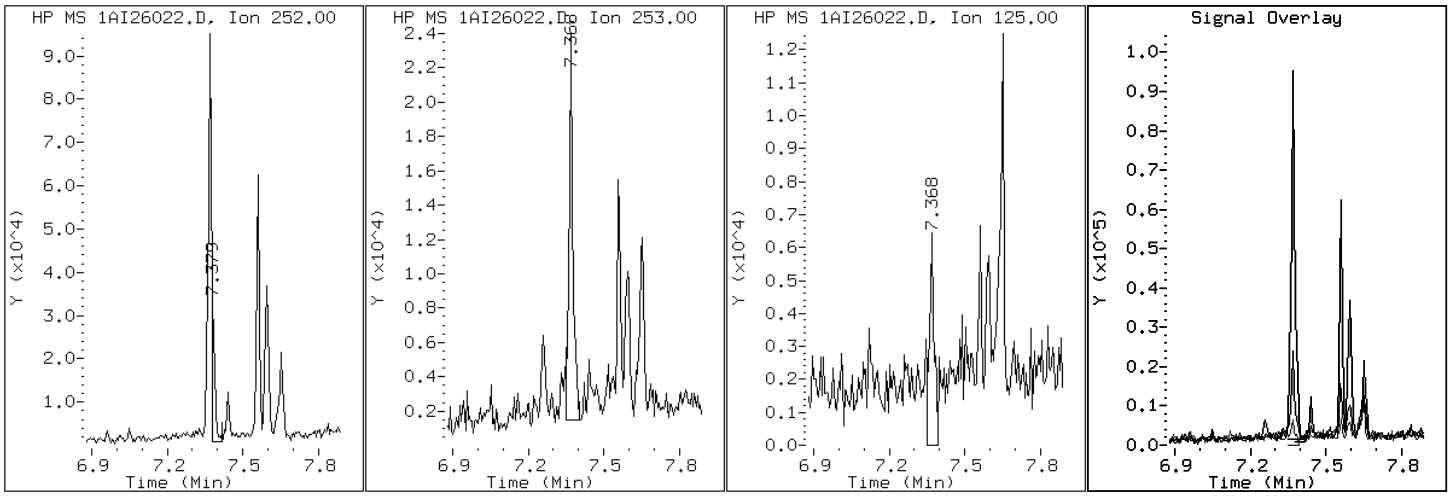
Data File: 1AI26022.D

Date: 26-SEP-2013 17:43

Client ID: WCWL-GP04-3_4ft Instrument: BSMA5973.i

Sample Info: 680-94506-a-21-a Operator: SCC

22 Benzo(k)fluoranthene



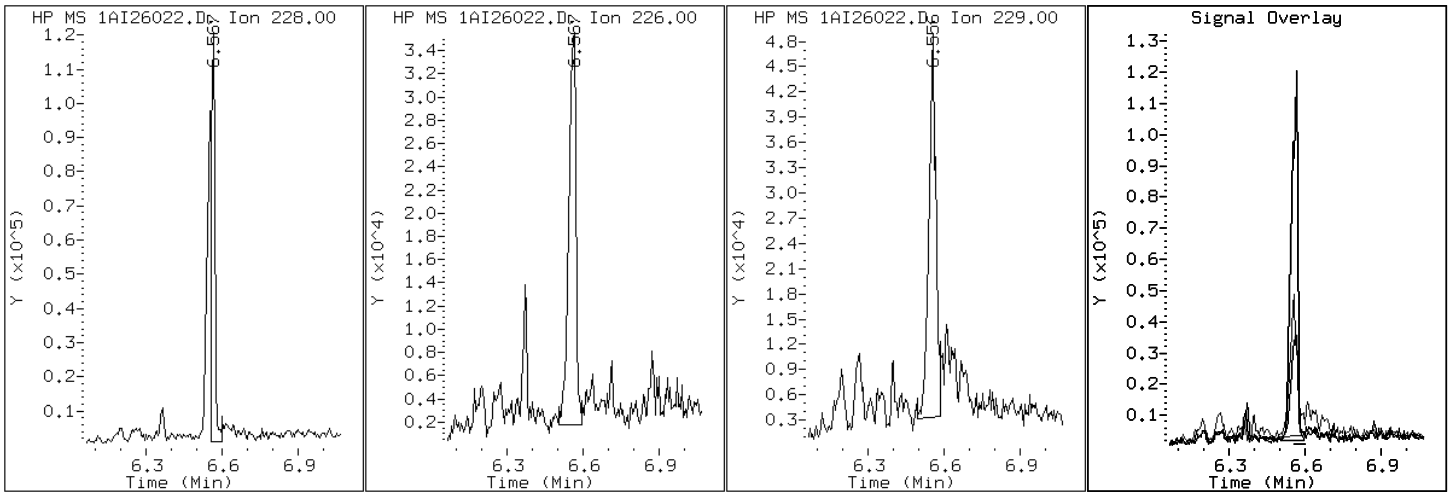
Data File: 1AI26022.D

Date: 26-SEP-2013 17:43

Client ID: WCWL-GP04-3_4ft Instrument: BSMA5973.i

Sample Info: 680-94506-a-21-a Operator: SCC

20 Chrysene



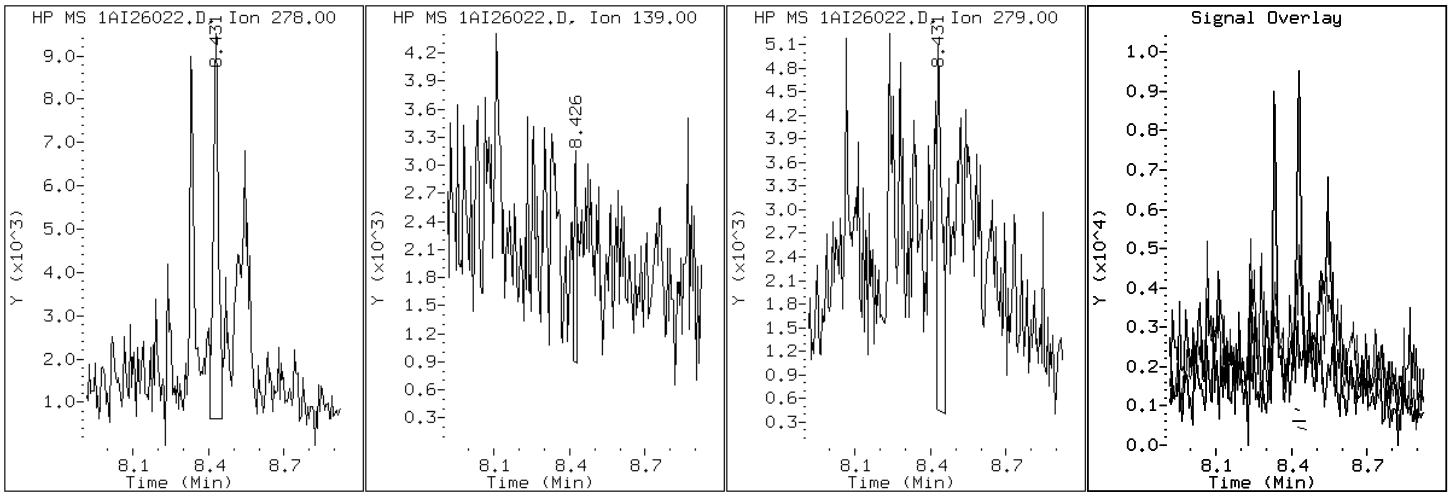
Data File: 1AI26022.D

Date: 26-SEP-2013 17:43

Client ID: WCWL-GP04-3_4ft Instrument: BSMA5973.i

Sample Info: 680-94506-a-21-a Operator: SCC

26 Dibenzo(a,h)anthracene



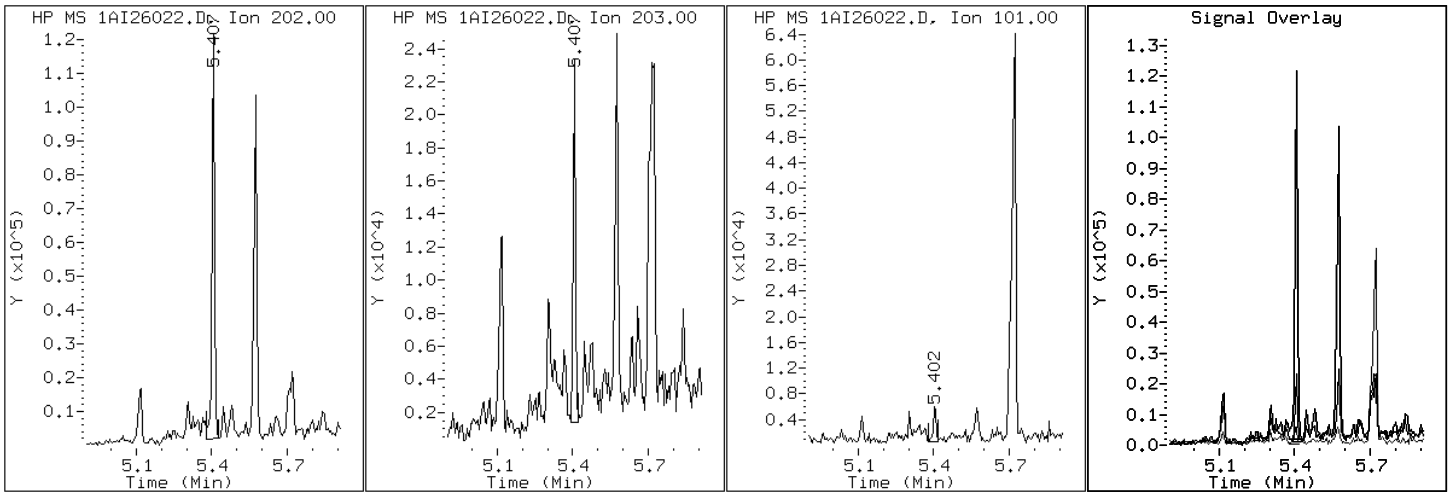
Data File: 1AI26022.D

Date: 26-SEP-2013 17:43

Client ID: WCWL-GP04-3_4ft Instrument: BSMA5973.i

Sample Info: 680-94506-a-21-a Operator: SCC

16 Fluoranthene



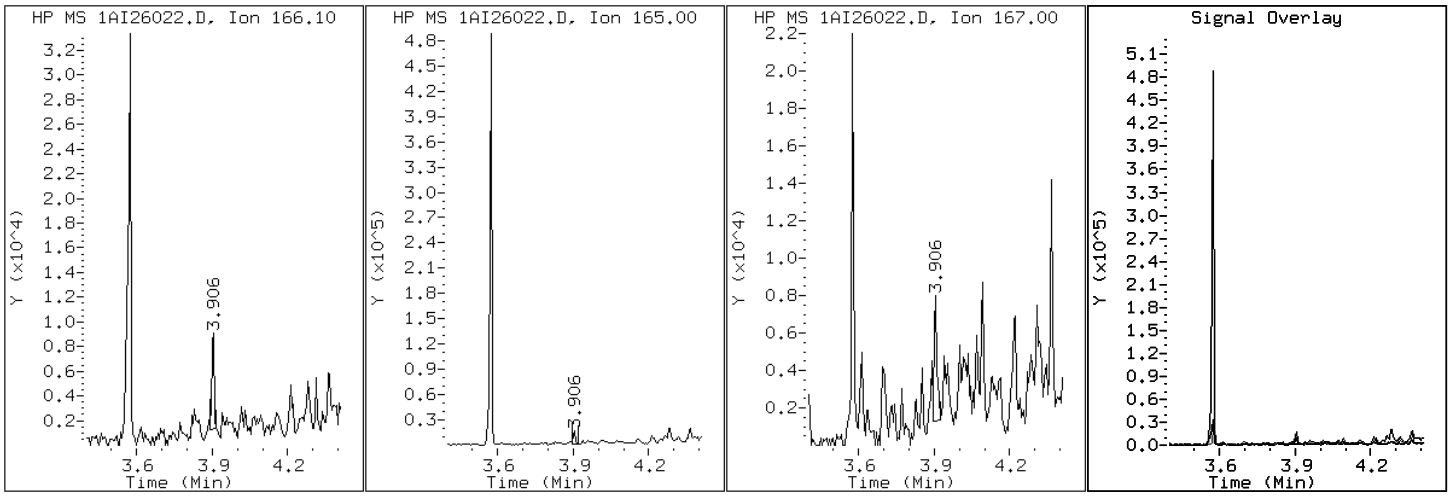
Data File: 1AI26022.D

Date: 26-SEP-2013 17:43

Client ID: WCWL-GP04-3_4ft Instrument: BSMA5973.i

Sample Info: 680-94506-a-21-a Operator: SCC

10 Fluorene



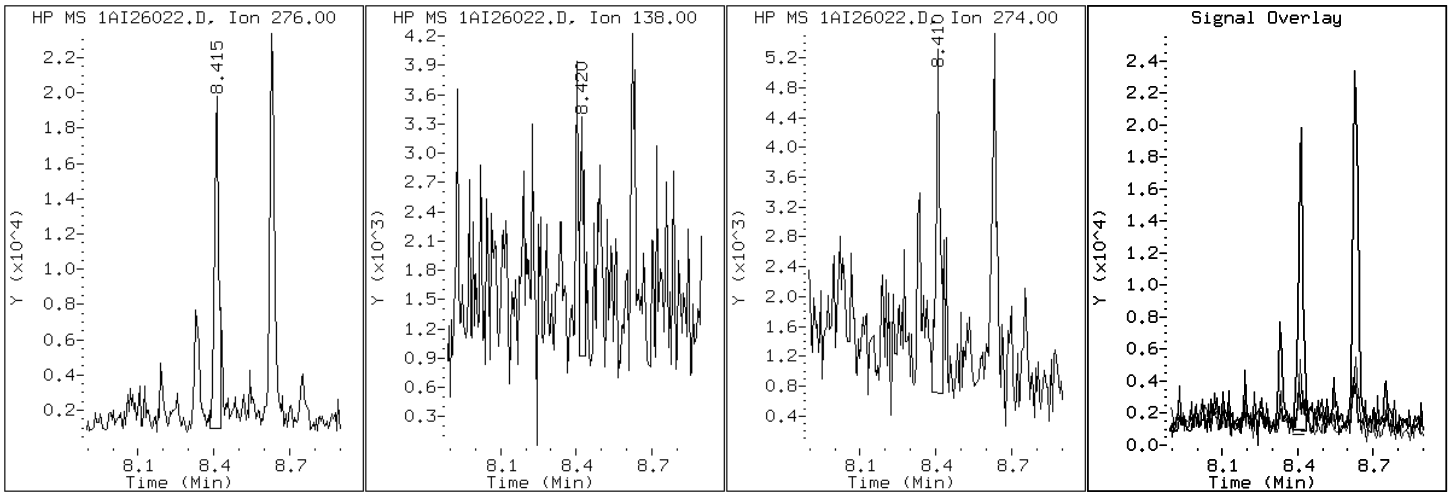
Data File: 1AI26022.D

Date: 26-SEP-2013 17:43

Client ID: WCWL-GP04-3_4ft Instrument: BSMA5973.i

Sample Info: 680-94506-a-21-a Operator: SCC

25 Indeno(1,2,3-cd)pyrene



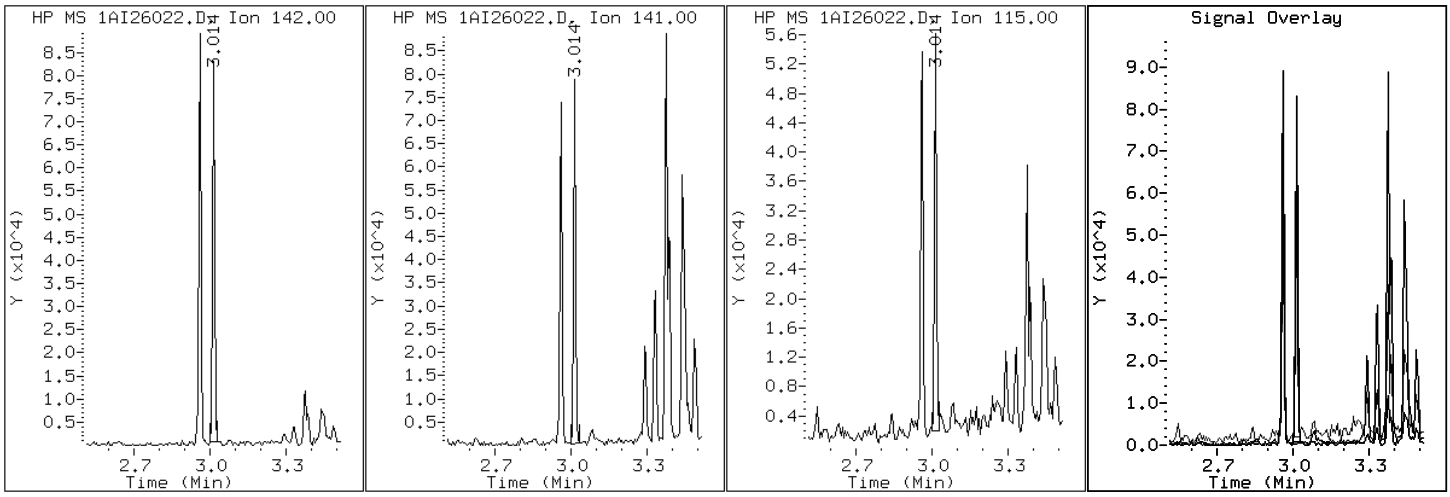
Data File: 1AI26022.D

Date: 26-SEP-2013 17:43

Client ID: WCWL-GP04-3_4ft Instrument: BSMA5973.i

Sample Info: 680-94506-a-21-a Operator: SCC

4 1-Methylnaphthalene



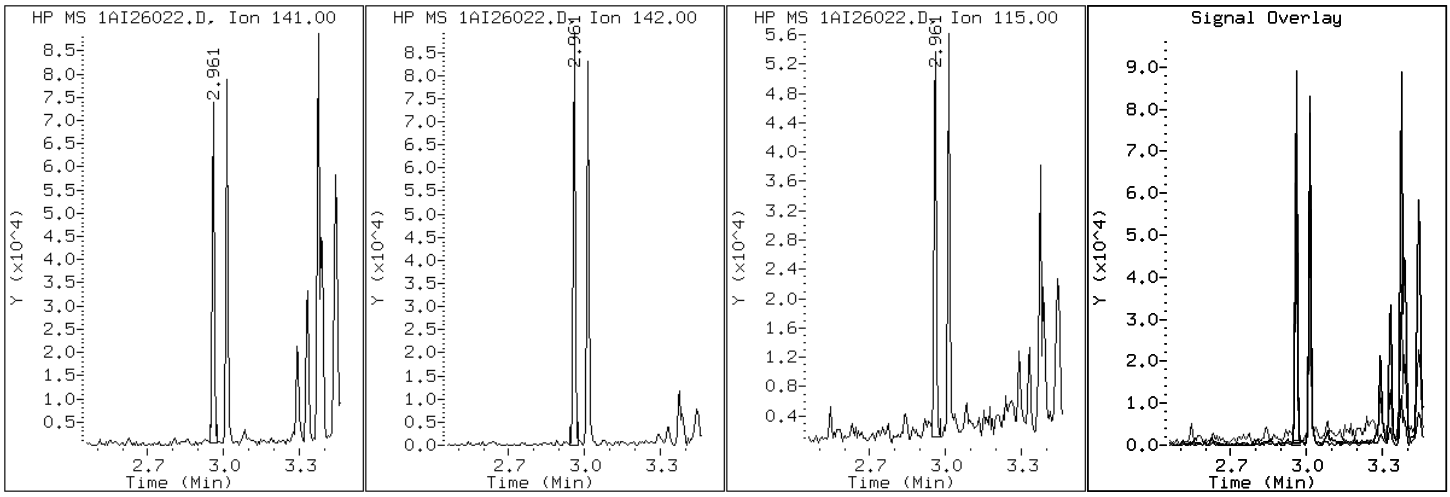
Data File: 1AI26022.D

Date: 26-SEP-2013 17:43

Client ID: WCWL-GP04-3_4ft Instrument: BSMA5973.i

Sample Info: 680-94506-a-21-a Operator: SCC

3 2-Methylnaphthalene



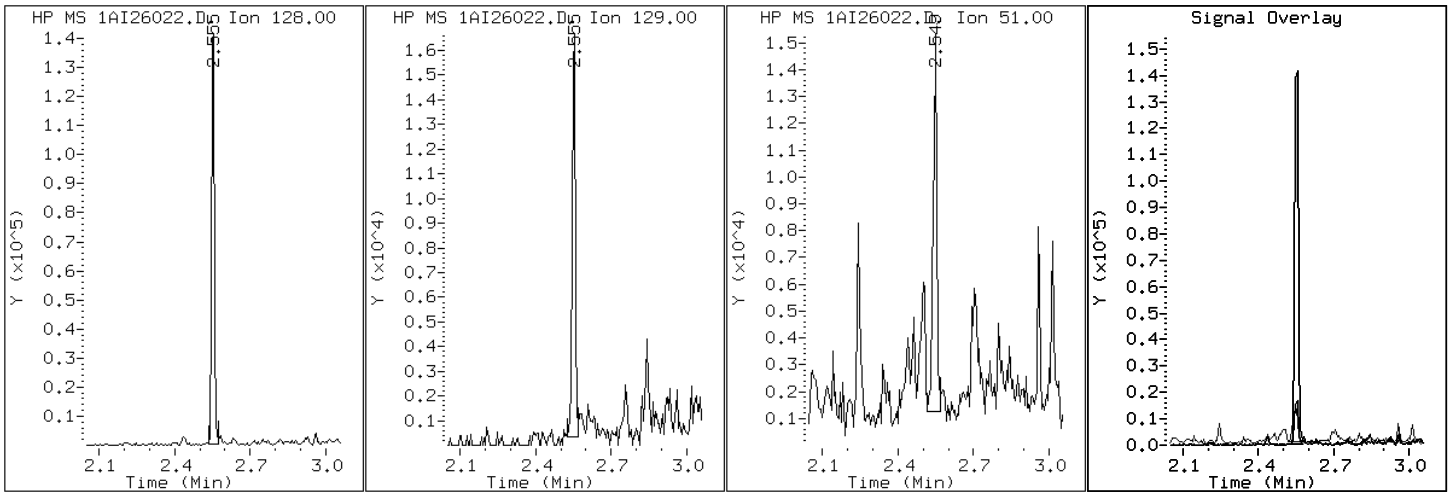
Data File: 1AI26022.D

Date: 26-SEP-2013 17:43

Client ID: WCWL-GP04-3_4ft Instrument: BSMA5973.i

Sample Info: 680-94506-a-21-a Operator: SCC

2 Naphthalene



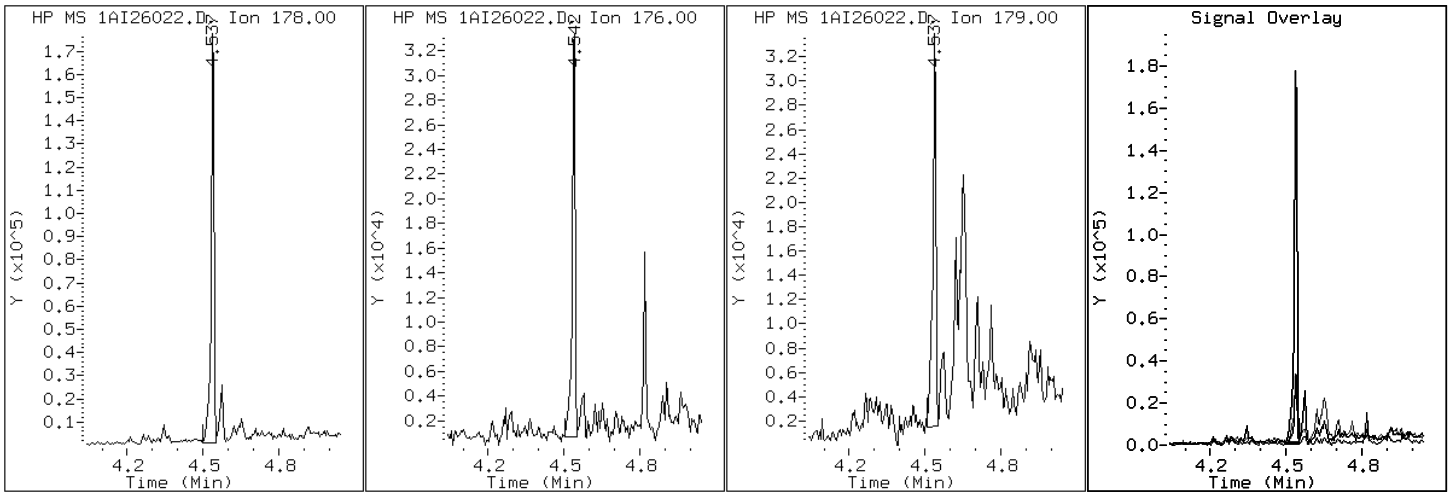
Data File: 1AI26022.D

Date: 26-SEP-2013 17:43

Client ID: WCWL-GP04-3_4ft Instrument: BSMA5973.i

Sample Info: 680-94506-a-21-a Operator: SCC

12 Phenanthrene



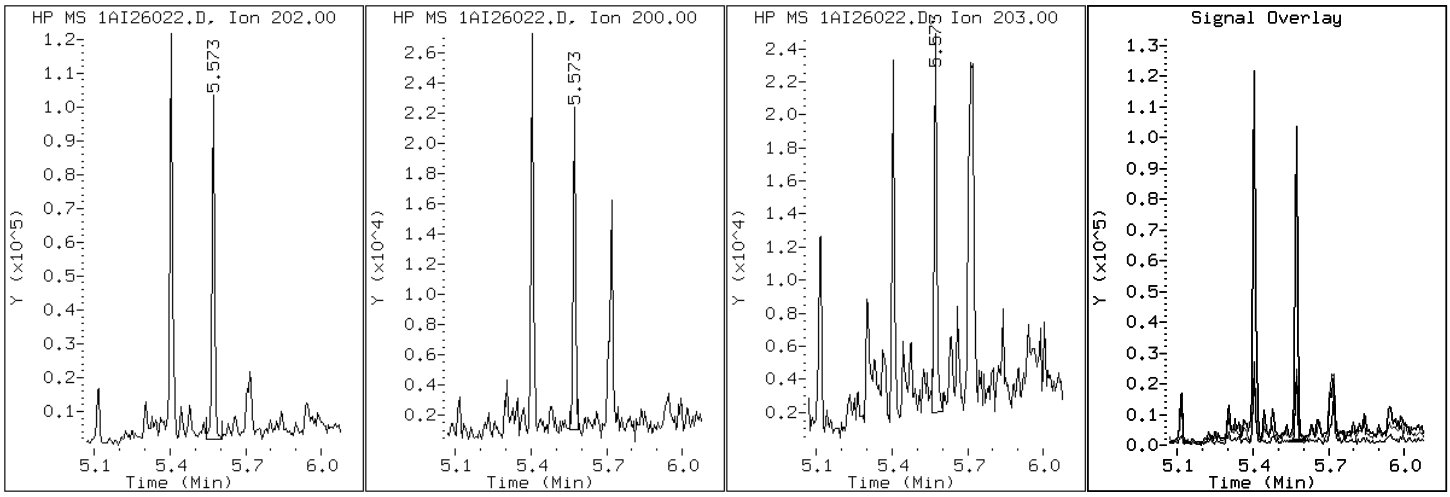
Data File: 1AI26022.D

Date: 26-SEP-2013 17:43

Client ID: WCWL-GP04-3_4ft Instrument: BSMA5973.i

Sample Info: 680-94506-a-21-a Operator: SCC

17 Pyrene



Manual Integration Report

Data File: 1AI26022.D
Inj. Date and Time: 26-SEP-2013 17:43
Instrument ID: BSMA5973.i
Client ID: WCWL-GP04-3_4ft
Compound: 18 Benzo(a)anthracene
CAS #: 56-55-3
Report Date: 09/27/2013

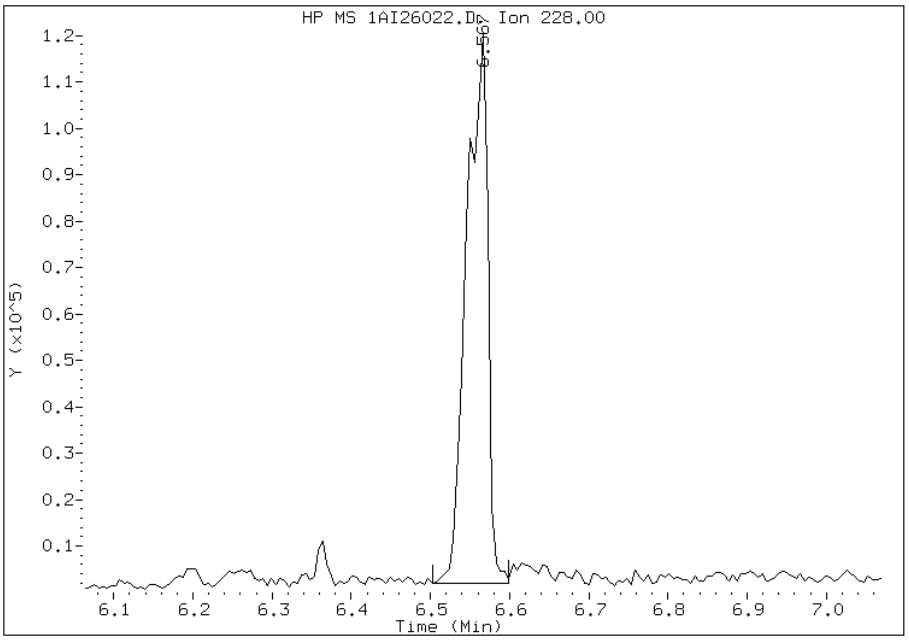
Processing Integration Results

RT: 6.57

Response: 217776

Amount: 4

Conc: 300



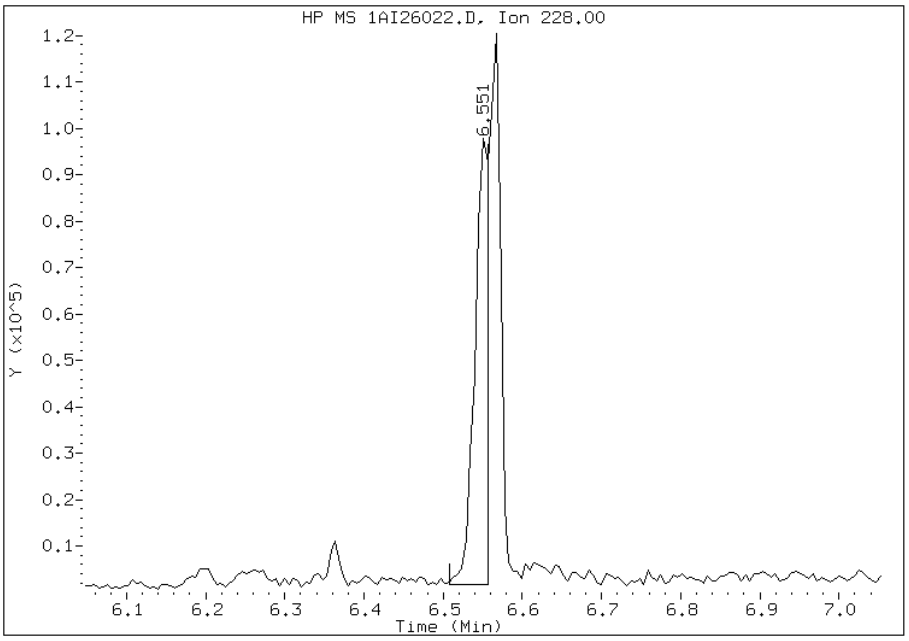
Manual Integration Results

RT: 6.55

Response: 113441

Amount: 2

Conc: 152



Manually Integrated By: cantins
Modification Date: 27-Sep-2013 10:29
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AI26022.D
Inj. Date and Time: 26-SEP-2013 17:43
Instrument ID: BSMA5973.i
Client ID: WCWL-GP04-3_4ft
Compound: 21 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 09/27/2013

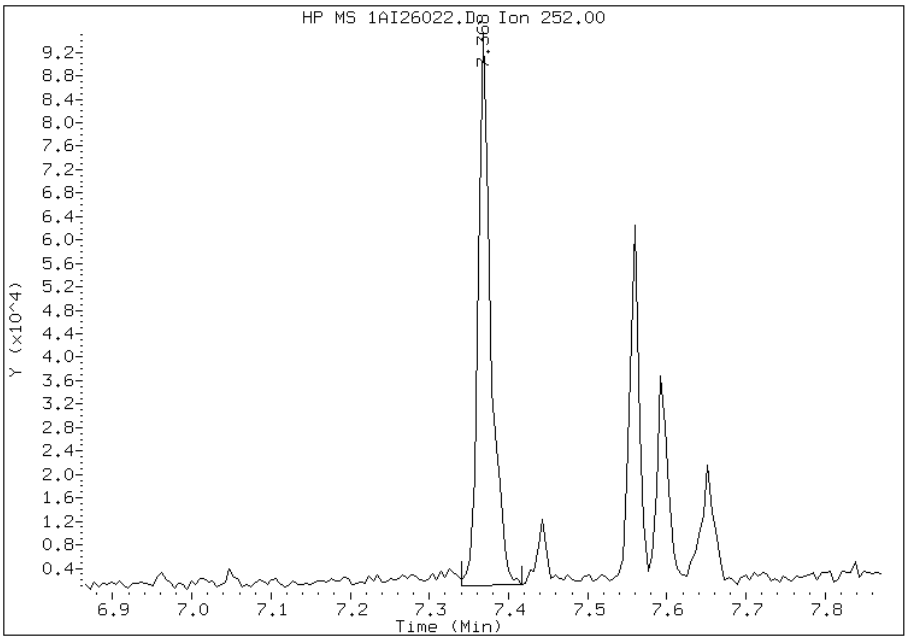
Processing Integration Results

RT: 7.37

Response: 103709

Amount: 2

Conc: 157



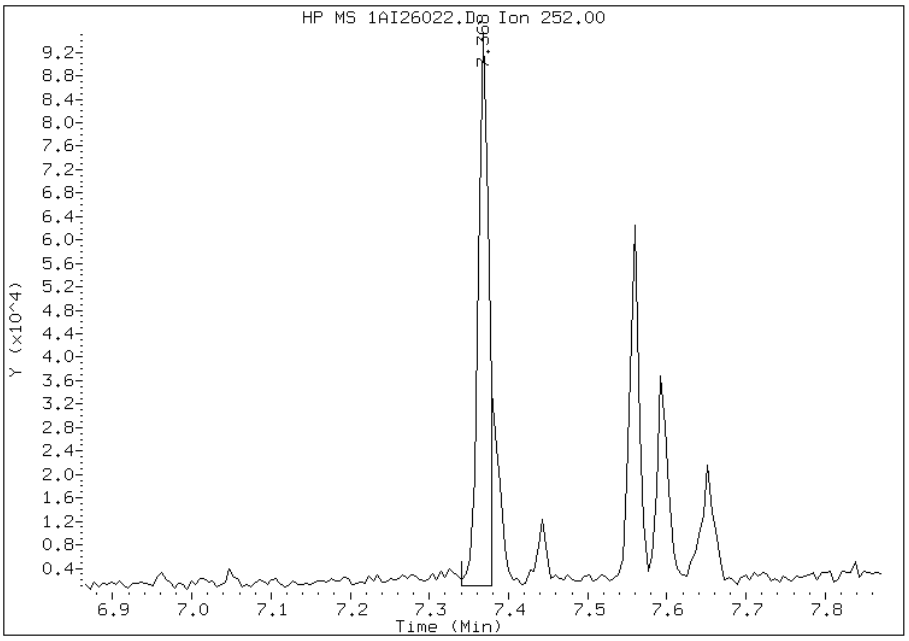
Manual Integration Results

RT: 7.37

Response: 87191

Amount: 2

Conc: 132



Manually Integrated By: cantins
Modification Date: 27-Sep-2013 10:30
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AI26022.D
Inj. Date and Time: 26-SEP-2013 17:43
Instrument ID: BSMA5973.i
Client ID: WCWL-GP04-3_4ft
Compound: 22 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 09/27/2013

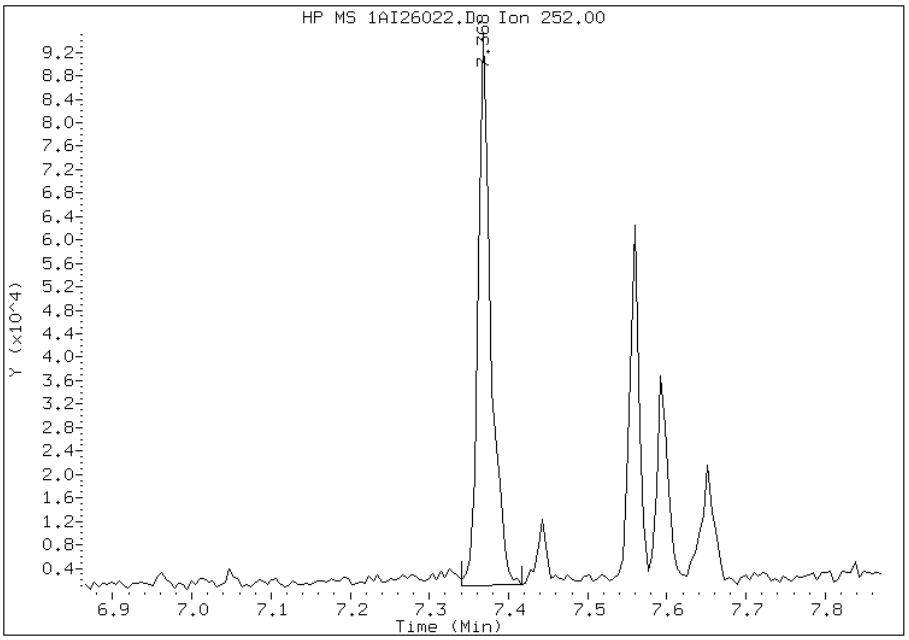
Processing Integration Results

RT: 7.37

Response: 103716

Amount: 2

Conc: 195



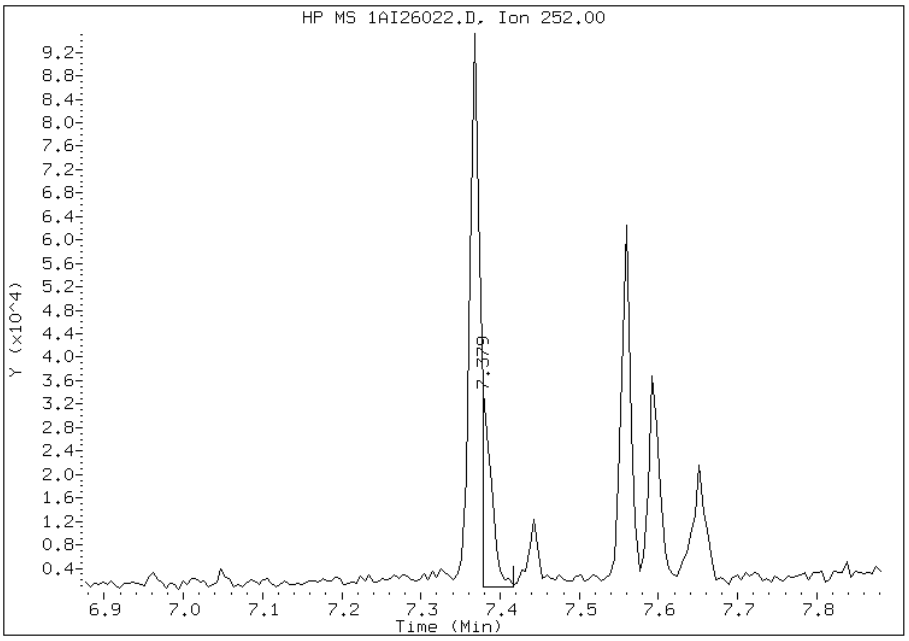
Manual Integration Results

RT: 7.38

Response: 27775

Amount: 1

Conc: 79



Manually Integrated By: cantins
Modification Date: 27-Sep-2013 10:30
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AI26022.D
Inj. Date and Time: 26-SEP-2013 17:43
Instrument ID: BSMA5973.i
Client ID: WCWL-GP04-3_4ft
Compound: 20 Chrysene
CAS #: 218-01-9
Report Date: 09/27/2013

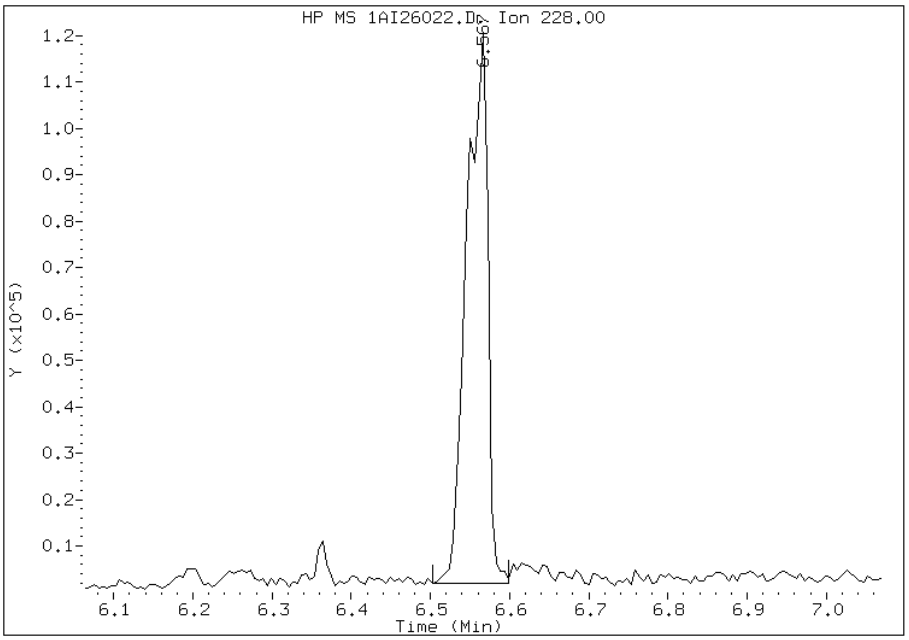
Processing Integration Results

RT: 6.57

Response: 217776

Amount: 5

Conc: 394



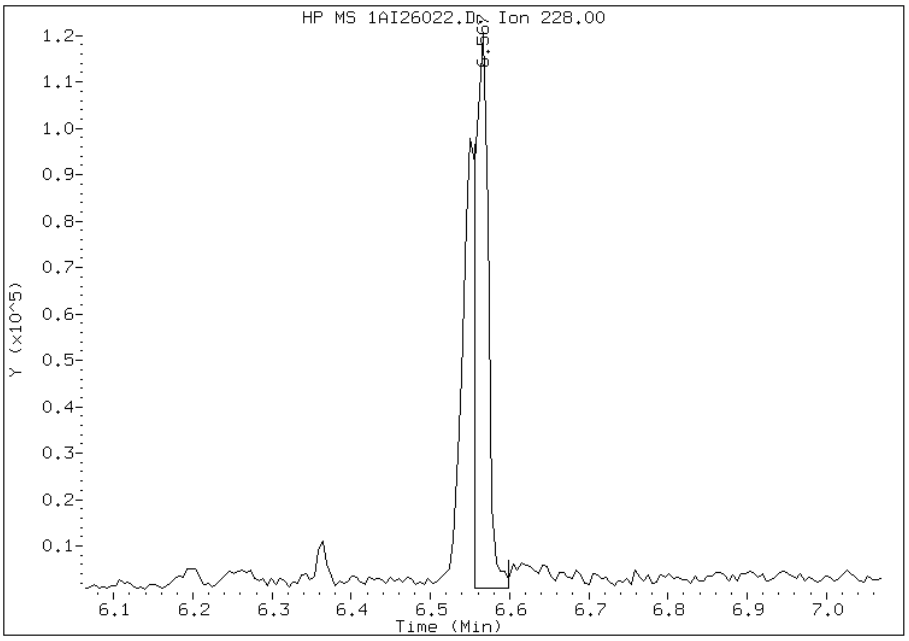
Manual Integration Results

RT: 6.57

Response: 136935

Amount: 3

Conc: 247



Manually Integrated By: cantins
Modification Date: 27-Sep-2013 10:29
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AI26022.D
Inj. Date and Time: 26-SEP-2013 17:43
Instrument ID: BSMA5973.i
Client ID: WCWL-GP04-3_4ft
Compound: 25 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 09/27/2013

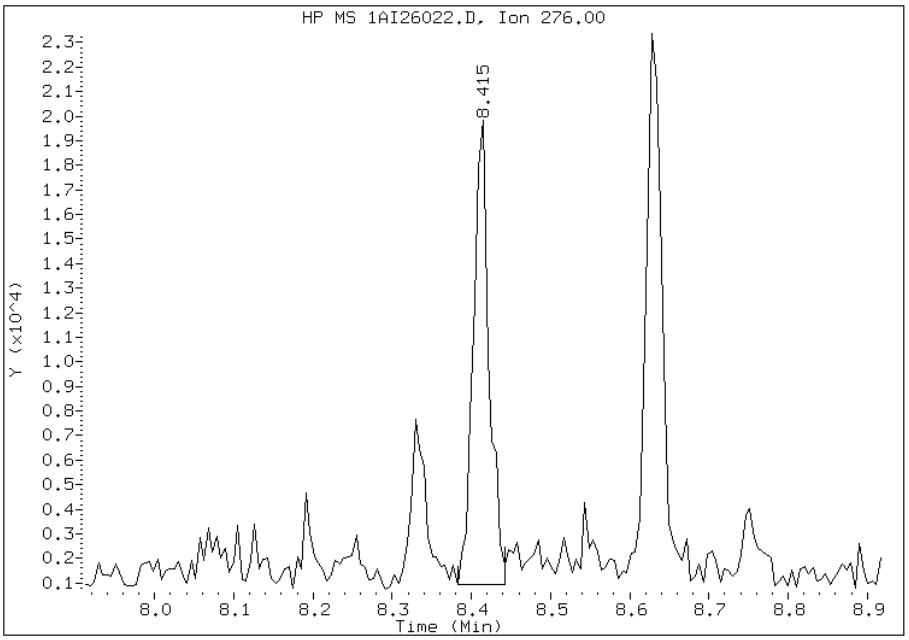
Processing Integration Results

RT: 8.42

Response: 25771

Amount: 1

Conc: 45



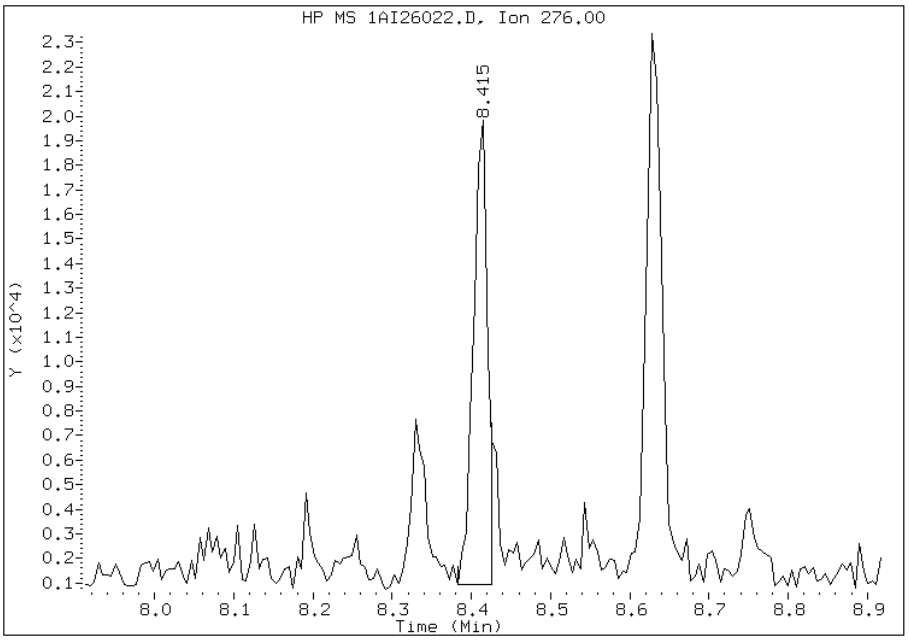
Manual Integration Results

RT: 8.42

Response: 23269

Amount: 1

Conc: 41



Manually Integrated By: cantins
Modification Date: 27-Sep-2013 10:30
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-94506-2

SDG No.: 680-94506-2

Client Sample ID: WCWL-GP06-2_3ft | Lab Sample ID: 680-94506-22

Matrix: Solid | Lab File ID: 1AI26023.D

Analysis Method: 8270C LL | Date Collected: 09/18/2013 16:30

Extract. Method: 3546 | Date Extracted: 09/25/2013 09:48

Sample wt/vol: 15.09(g) | Date Analyzed: 09/26/2013 17:58

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 7.6 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 141781 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	110	U	110	22
208-96-8	Acenaphthylene	54		43	5.4
120-12-7	Anthracene	84		9.0	4.5
56-55-3	Benzo[a]anthracene	180		8.6	4.2
50-32-8	Benzo[a]pyrene	110		11	5.6
205-99-2	Benzo[b]fluoranthene	180		13	6.6
191-24-2	Benzo[g,h,i]perylene	92		22	4.7
207-08-9	Benzo[k]fluoranthene	110		8.6	3.9
218-01-9	Chrysene	210		9.7	4.8
53-70-3	Dibenz(a,h)anthracene	28		22	4.4
206-44-0	Fluoranthene	480		22	4.3
86-73-7	Fluorene	65		22	4.4
193-39-5	Indeno[1,2,3-cd]pyrene	77		22	7.6
90-12-0	1-Methylnaphthalene	140		43	4.7
91-57-6	2-Methylnaphthalene	170		43	7.6
91-20-3	Naphthalene	150		43	4.7
85-01-8	Phenanthrene	240		8.6	4.2
129-00-0	Pyrene	260		22	4.0

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	52		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A092613_pahIC.b\1AI26023.D
Lab Smp Id: 680-94506-A-22-A Client Smp ID: WCWL-GP06-2_3ft
Inj Date : 26-SEP-2013 17:58
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-94506-a-22-a
Misc Info : 680-94506-A-22-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A092613_pahIC.b\a-bFASTPAHi-m.m
Meth Date : 26-Sep-2013 14:34 BSMA5973.i Quant Type: ISTD
Cal Date : 26-SEP-2013 14:01 Cal File: 1AI26009.D
Als bottle: 23
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:
Amt * DF * 1/Vi * Vt/Ws * 100/(100 - M) * A * B * C * D * GPC * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.090	Weight Extracted
M	7.600	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
*	1 Naphthalene-d8	136	2.543	2.544	(1.000)	2565059	40.0000	
*	7 Acenaphthene-d10	164	3.574	3.575	(1.000)	1903509	40.0000	
*	11 Phenanthrene-d10	188	4.530	4.526	(1.000)	2989332	40.0000	
$	15 o-Terphenyl	230	4.824	4.819	(1.065)	154426	5.18347	371.7571
*	19 Chrysene-d12	240	6.555	6.550	(1.000)	2408339	40.0000	
*	24 Perylene-d12	264	7.650	7.635	(1.000)	1983419	40.0000	
	2 Naphthalene	128	2.554	2.554	(1.004)	74661	2.05415	147.3229
	3 2-Methylnaphthalene	141	2.960	2.960	(1.164)	44336	2.38943	171.3696
	4 1-Methylnaphthalene	142	3.013	3.014	(1.185)	40696	1.96000	140.5707
	6 Acenaphthylene	152	3.483	3.484	(0.975)	9533	0.75340	54.0333
	10 Fluorene	166	3.905	3.906	(1.093)	5887	0.89960	64.5190(Q)
	12 Phenanthrene	178	4.541	4.542	(1.002)	128748	3.36431	241.2876
	13 Anthracene	178	4.573	4.574	(1.009)	19019	1.17632	84.3653
	16 Fluoranthene	202	5.412	5.407	(1.195)	357401	6.64281	476.4210

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
17 Pyrene	202	5.577	5.573	(0.851)	148704	3.63812	260.9247
18 Benzo(a)anthracene	228	6.555	6.540	(1.000)	144433	2.51622	180.4625
20 Chrysene	228	6.571	6.566	(1.002)	124686	2.89489	207.6207
21 Benzo(b)fluoranthene	252	7.367	7.362	(0.963)	108120	2.44027	175.0154(M)
22 Benzo(k)fluoranthene	252	7.378	7.384	(0.964)	47696	1.55985	111.8721(QM)
23 Benzo(a)pyrene	252	7.597	7.587	(0.993)	60876	1.56045	111.9151
25 Indeno(1,2,3-cd)pyrene	276	8.414	8.399	(1.100)	41207	1.07366	77.0024(M)
26 Dibenzo(a,h)anthracene	278	8.435	8.420	(1.103)	14732	0.39242	28.1439
27 Benzo(g,h,i)perylene	276	8.628	8.618	(1.128)	46606	1.27847	91.6917

QC Flag Legend

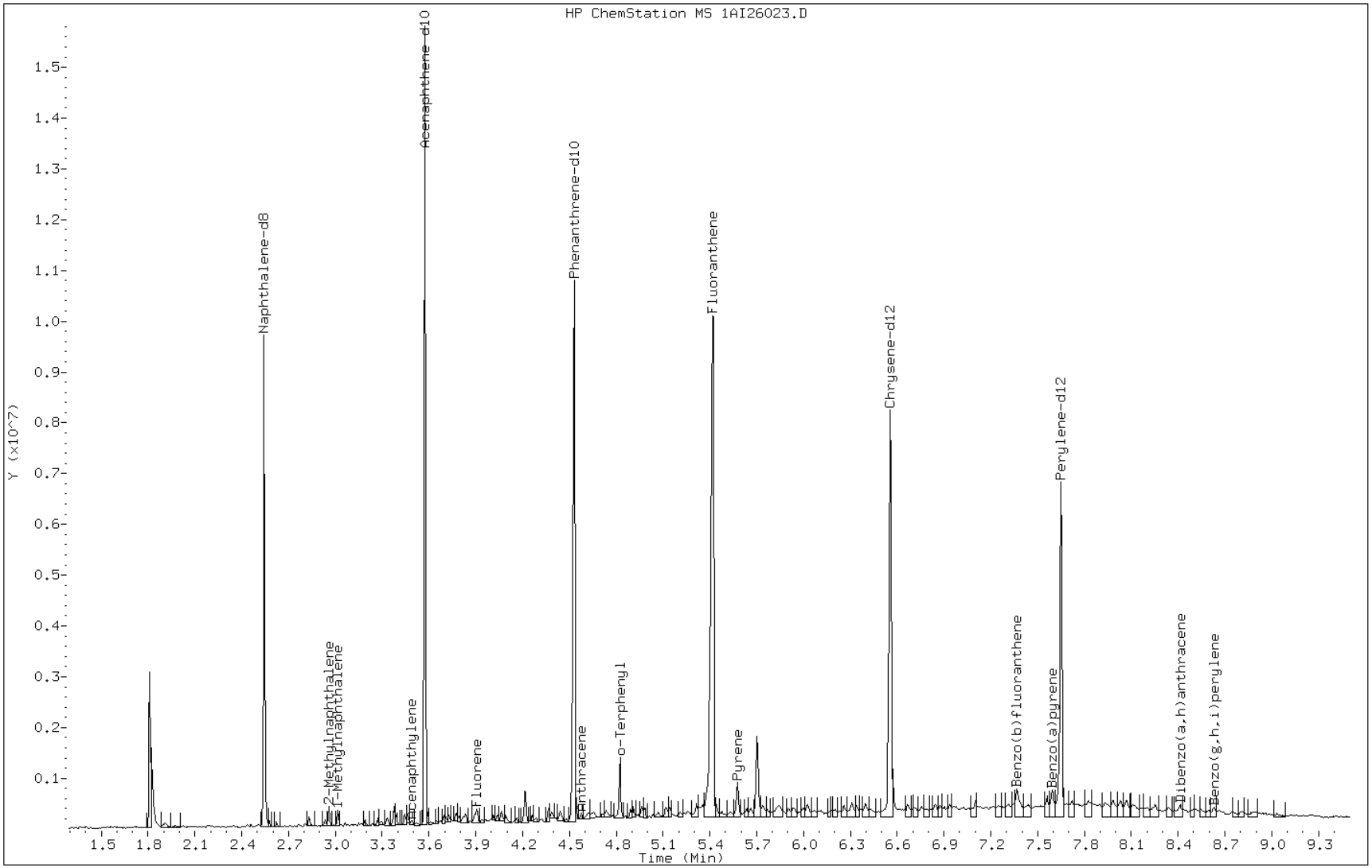
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1AI26023.D

Date: 26-SEP-2013 17:58

Client ID: WCWL-GP06-2_3ft Instrument: BSMA5973.i

Sample Info: 680-94506-a-22-a Operator: SCC



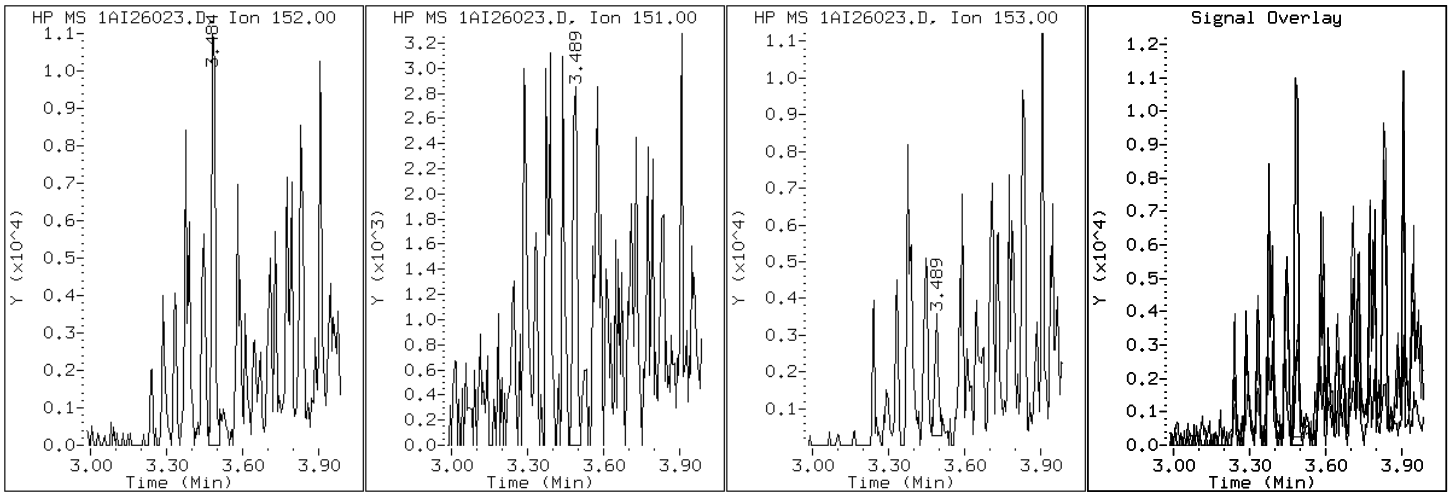
Data File: 1AI26023.D

Date: 26-SEP-2013 17:58

Client ID: WCWL-GP06-2_3ft Instrument: BSMA5973.i

Sample Info: 680-94506-a-22-a Operator: SCC

6 Acenaphthylene



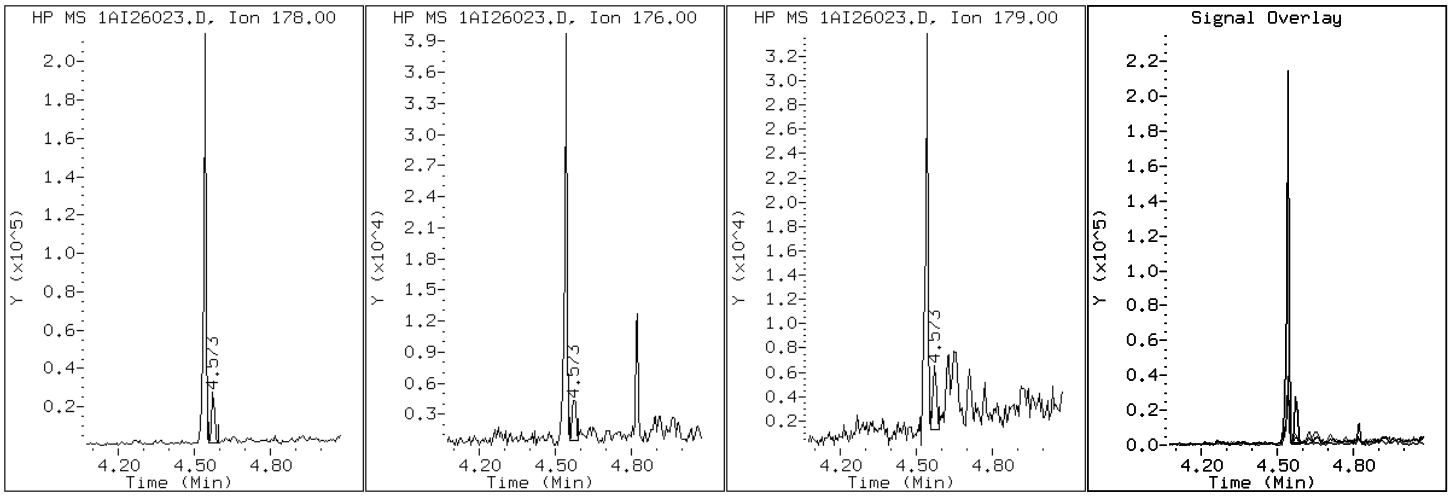
Data File: 1AI26023.D

Date: 26-SEP-2013 17:58

Client ID: WCWL-GP06-2_3ft Instrument: BSMA5973.i

Sample Info: 680-94506-a-22-a Operator: SCC

13 Anthracene



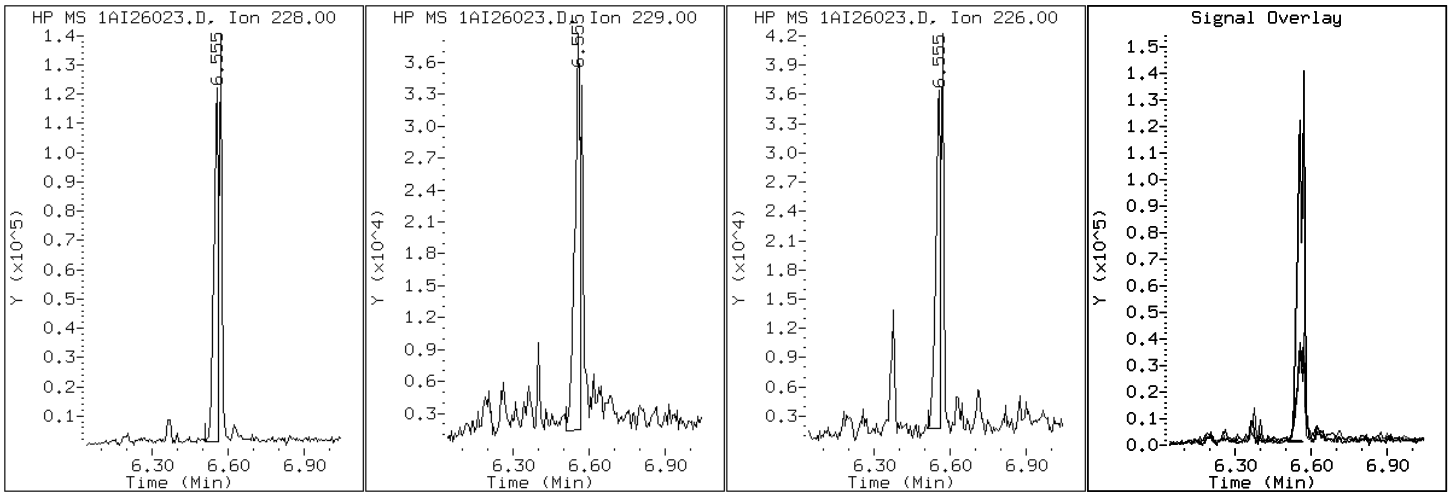
Data File: 1AI26023.D

Date: 26-SEP-2013 17:58

Client ID: WCWL-GP06-2_3ft Instrument: BSMA5973.i

Sample Info: 680-94506-a-22-a Operator: SCC

18 Benzo(a)anthracene



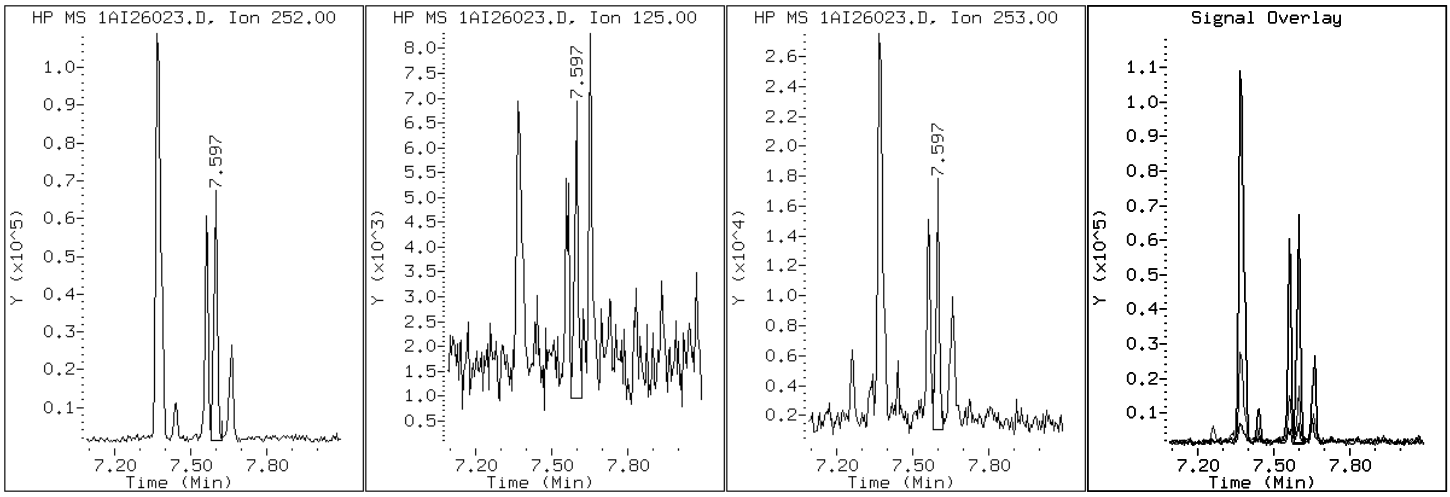
Data File: 1AI26023.D

Date: 26-SEP-2013 17:58

Client ID: WCWL-GP06-2_3ft Instrument: BSMA5973.i

Sample Info: 680-94506-a-22-a Operator: SCC

23 Benzo(a)pyrene



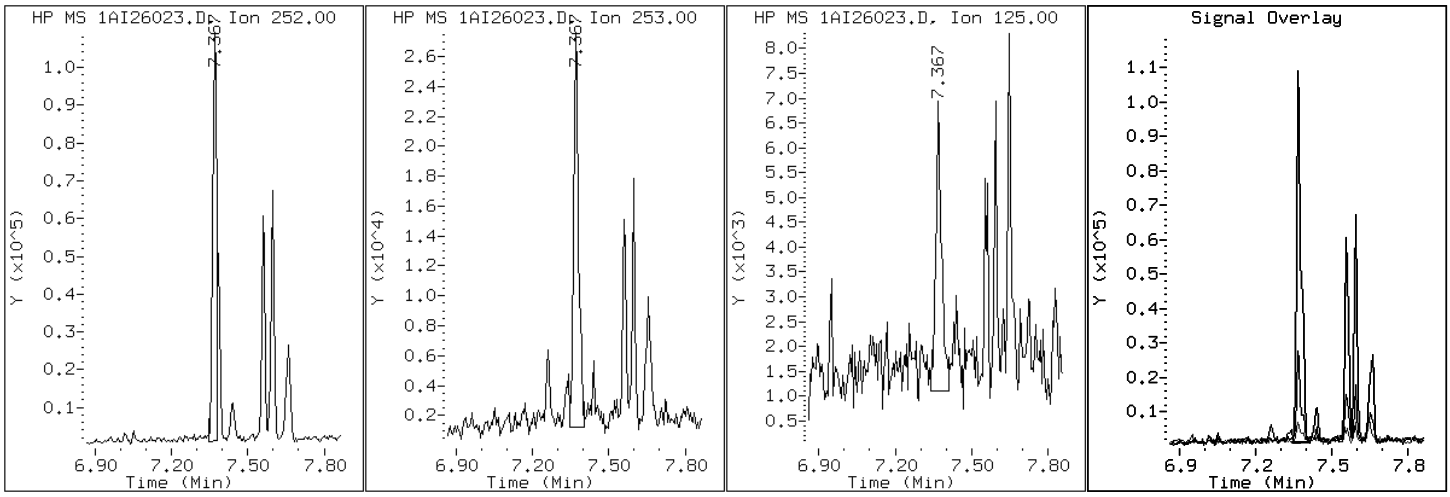
Data File: 1AI26023.D

Date: 26-SEP-2013 17:58

Client ID: WCWL-GP06-2_3ft Instrument: BSMA5973.i

Sample Info: 680-94506-a-22-a Operator: SCC

21 Benzo(b)fluoranthene



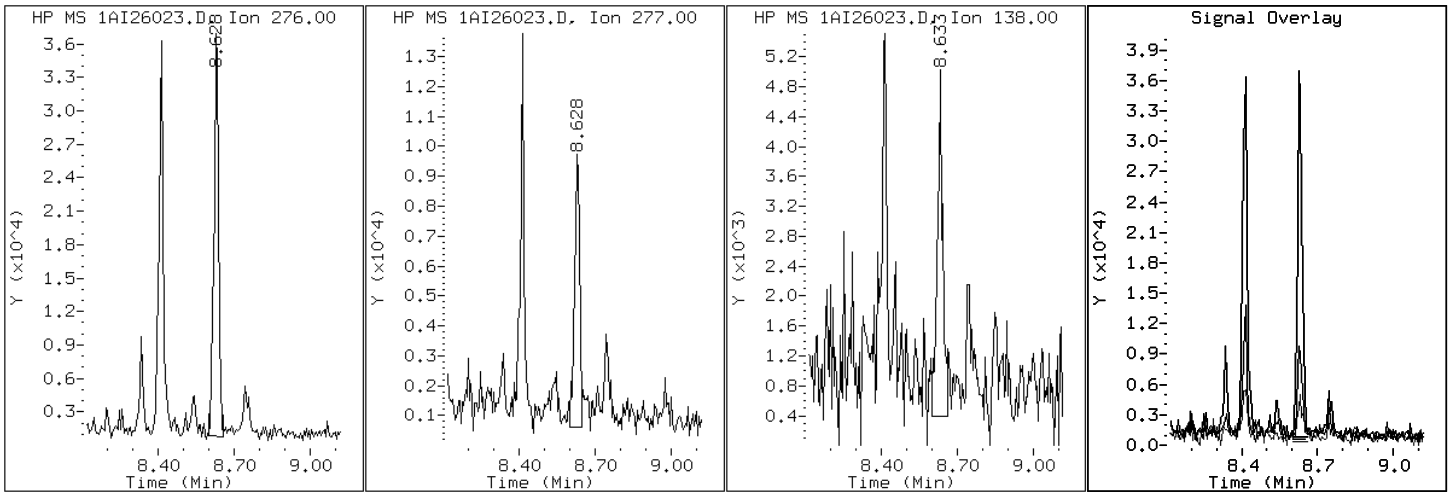
Data File: 1AI26023.D

Date: 26-SEP-2013 17:58

Client ID: WCWL-GP06-2_3ft Instrument: BSMA5973.i

Sample Info: 680-94506-a-22-a Operator: SCC

27 Benzo(g,h,i)perylene



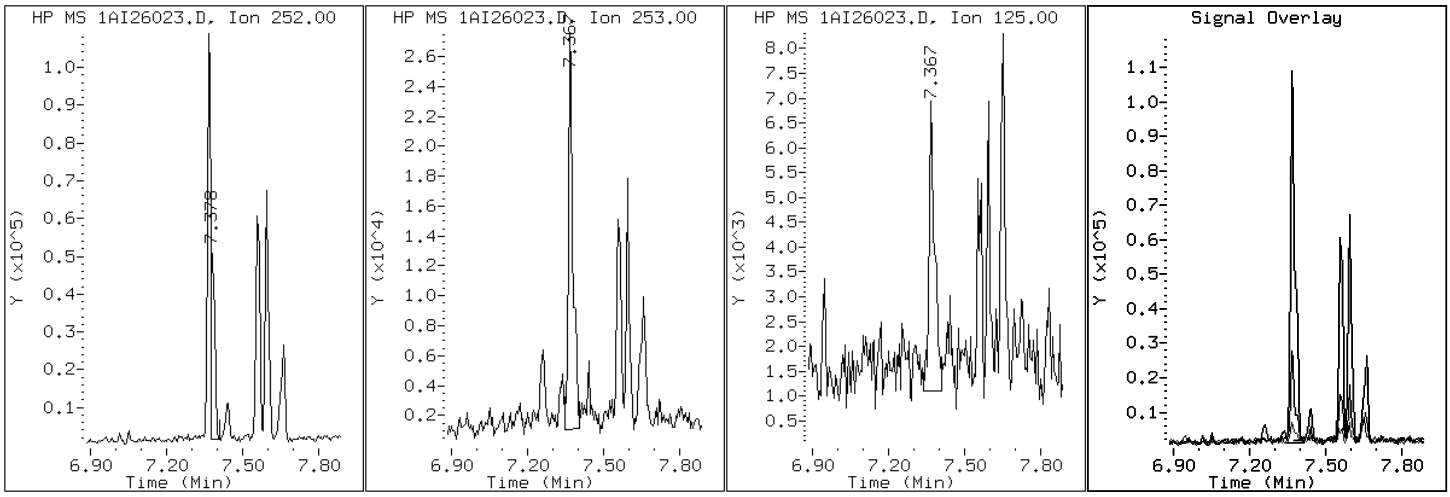
Data File: 1AI26023.D

Date: 26-SEP-2013 17:58

Client ID: WCWL-GP06-2_3ft Instrument: BSMA5973.i

Sample Info: 680-94506-a-22-a Operator: SCC

22 Benzo(k)fluoranthene



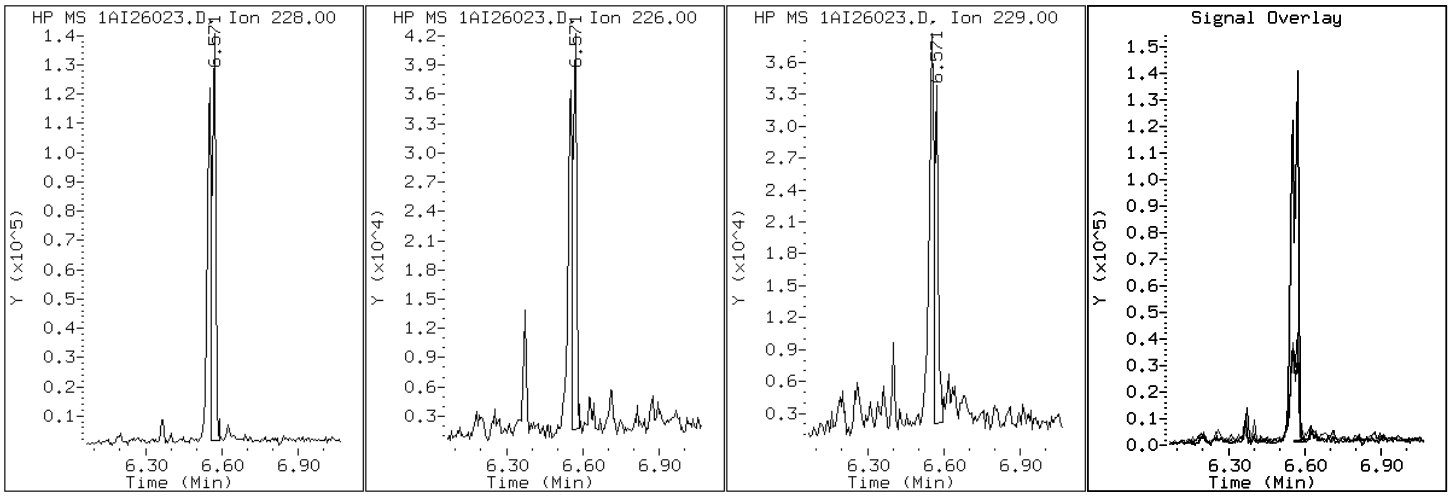
Data File: 1AI26023.D

Date: 26-SEP-2013 17:58

Client ID: WCWL-GP06-2_3ft Instrument: BSMA5973.i

Sample Info: 680-94506-a-22-a Operator: SCC

20 Chrysene



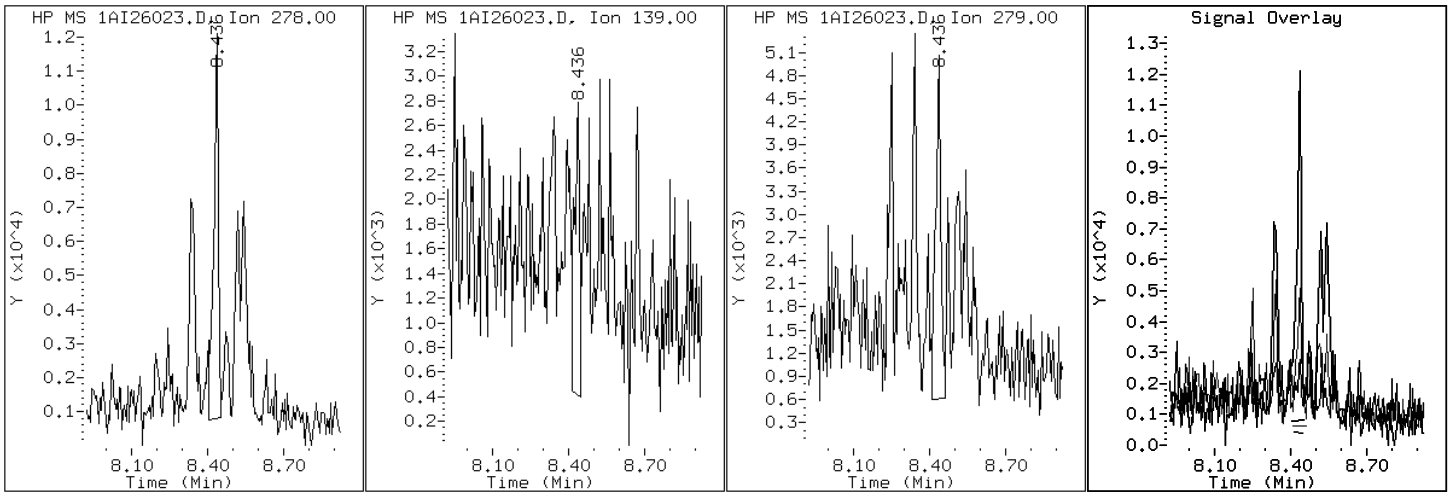
Data File: 1AI26023.D

Date: 26-SEP-2013 17:58

Client ID: WCWL-GP06-2_3ft Instrument: BSMA5973.i

Sample Info: 680-94506-a-22-a Operator: SCC

26 Dibenzo(a,h)anthracene



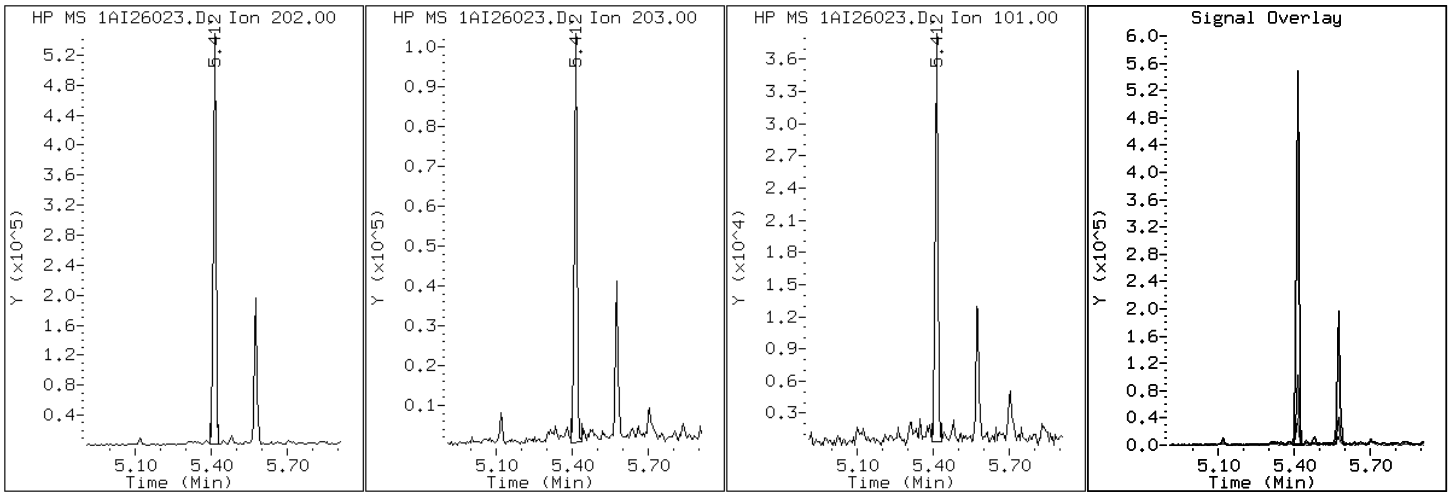
Data File: 1AI26023.D

Date: 26-SEP-2013 17:58

Client ID: WCWL-GP06-2_3ft Instrument: BSMA5973.i

Sample Info: 680-94506-a-22-a Operator: SCC

16 Fluoranthene



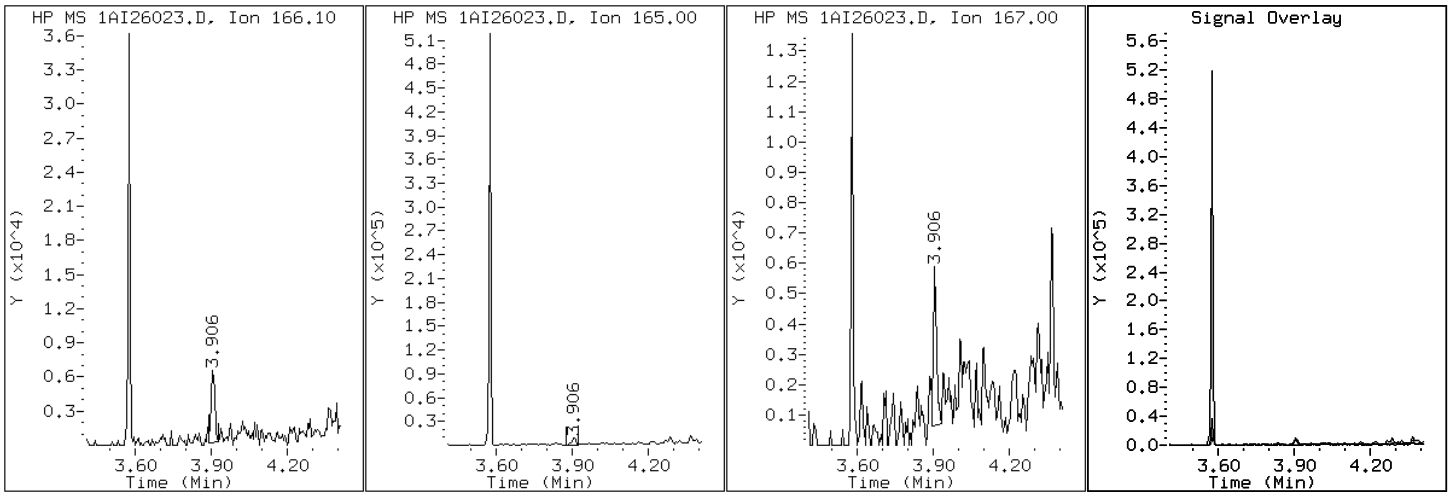
Data File: 1AI26023.D

Date: 26-SEP-2013 17:58

Client ID: WCWL-GP06-2_3ft Instrument: BSMA5973.i

Sample Info: 680-94506-a-22-a Operator: SCC

10 Fluorene



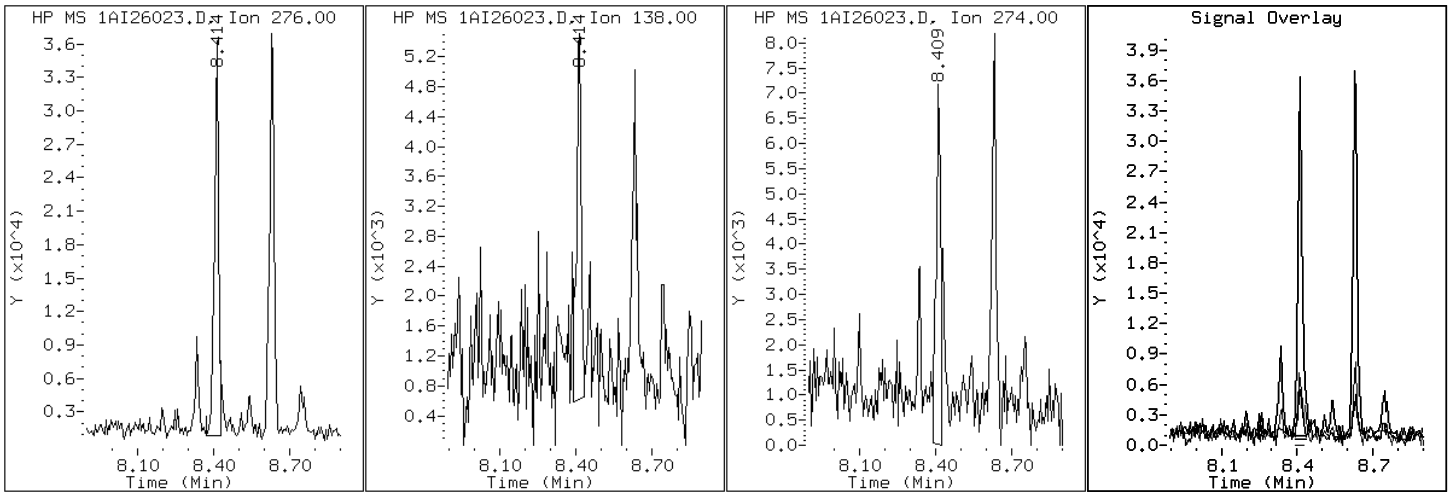
Data File: 1AI26023.D

Date: 26-SEP-2013 17:58

Client ID: WCWL-GP06-2_3ft Instrument: BSMA5973.i

Sample Info: 680-94506-a-22-a Operator: SCC

25 Indeno(1,2,3-cd)pyrene



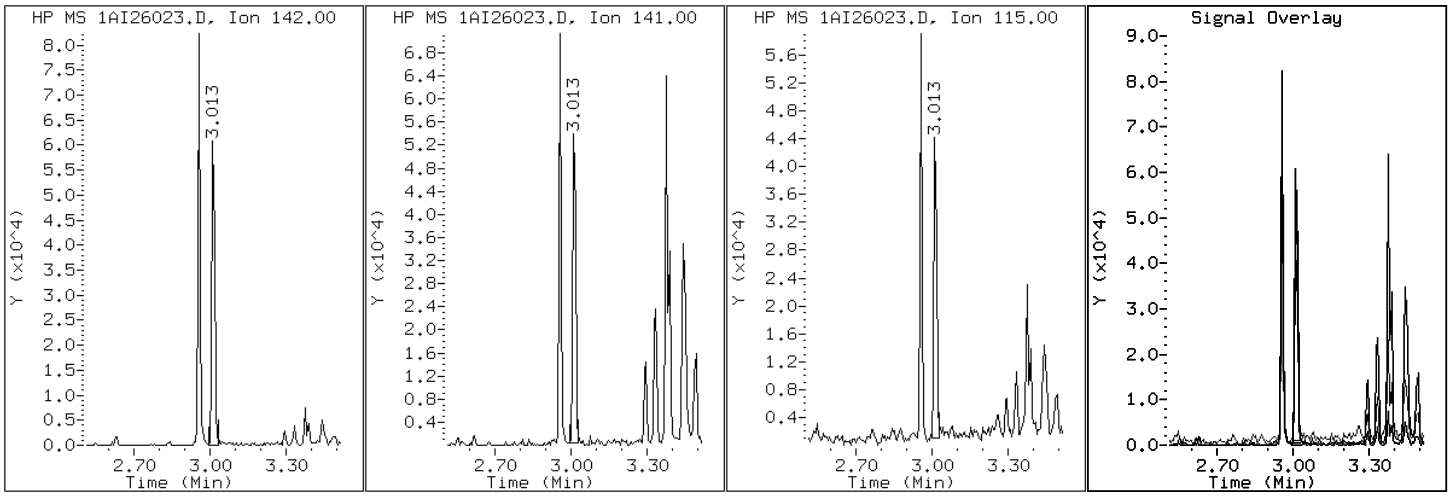
Data File: 1AI26023.D

Date: 26-SEP-2013 17:58

Client ID: WCWL-GP06-2_3ft Instrument: BSMA5973.i

Sample Info: 680-94506-a-22-a Operator: SCC

4 1-Methylnaphthalene



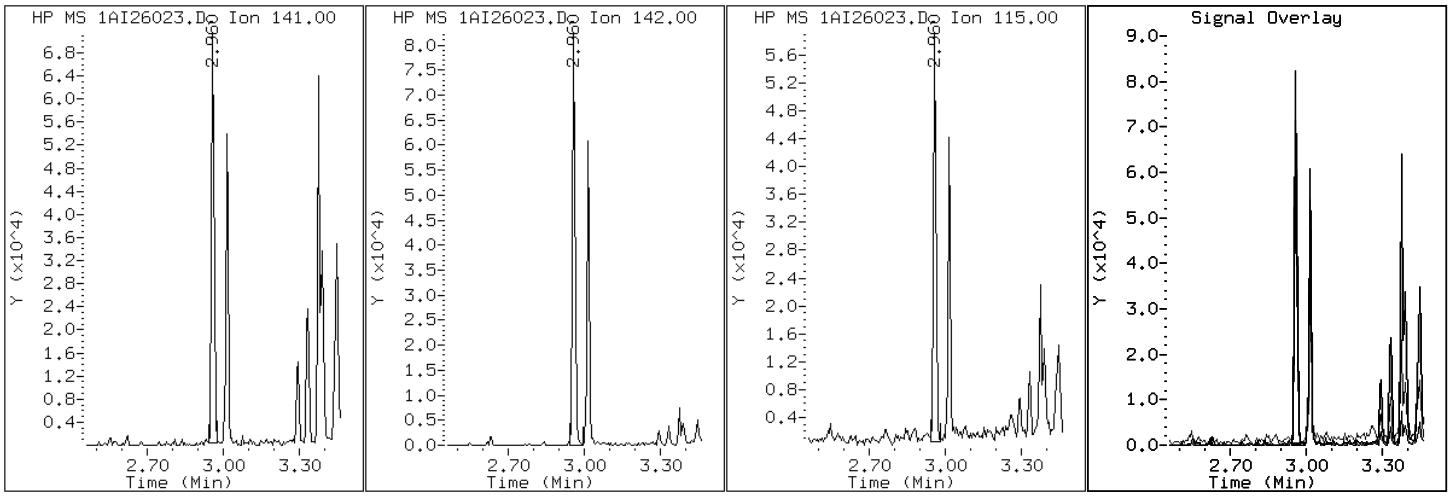
Data File: 1AI26023.D

Date: 26-SEP-2013 17:58

Client ID: WCWL-GP06-2_3ft Instrument: BSMA5973.i

Sample Info: 680-94506-a-22-a Operator: SCC

3 2-Methylnaphthalene



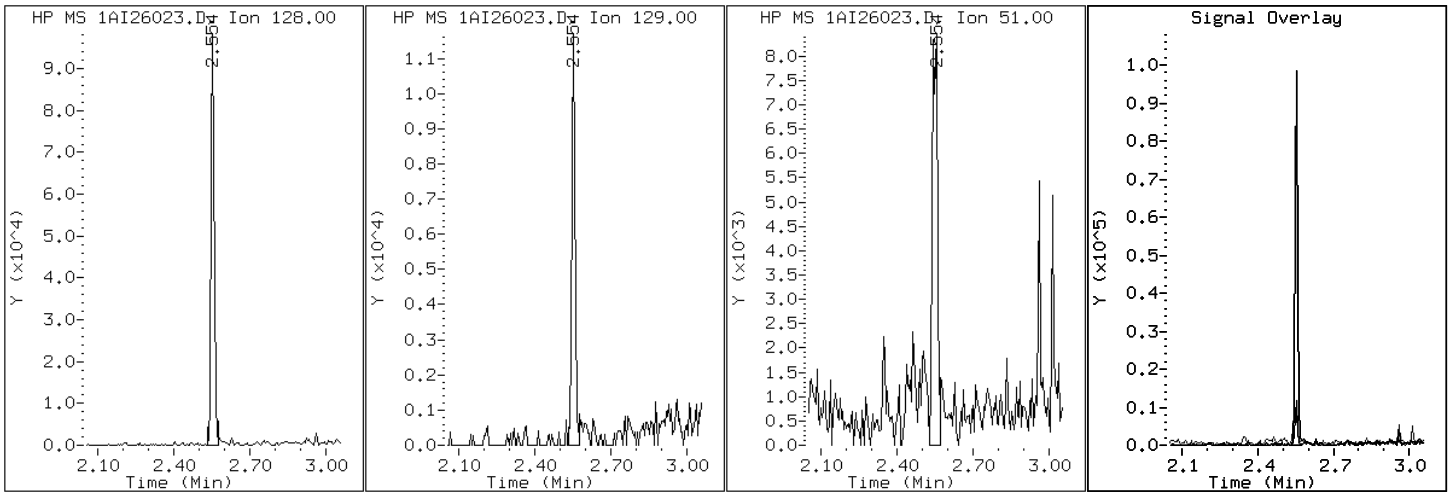
Data File: 1AI26023.D

Date: 26-SEP-2013 17:58

Client ID: WCWL-GP06-2_3ft Instrument: BSMA5973.i

Sample Info: 680-94506-a-22-a Operator: SCC

2 Naphthalene



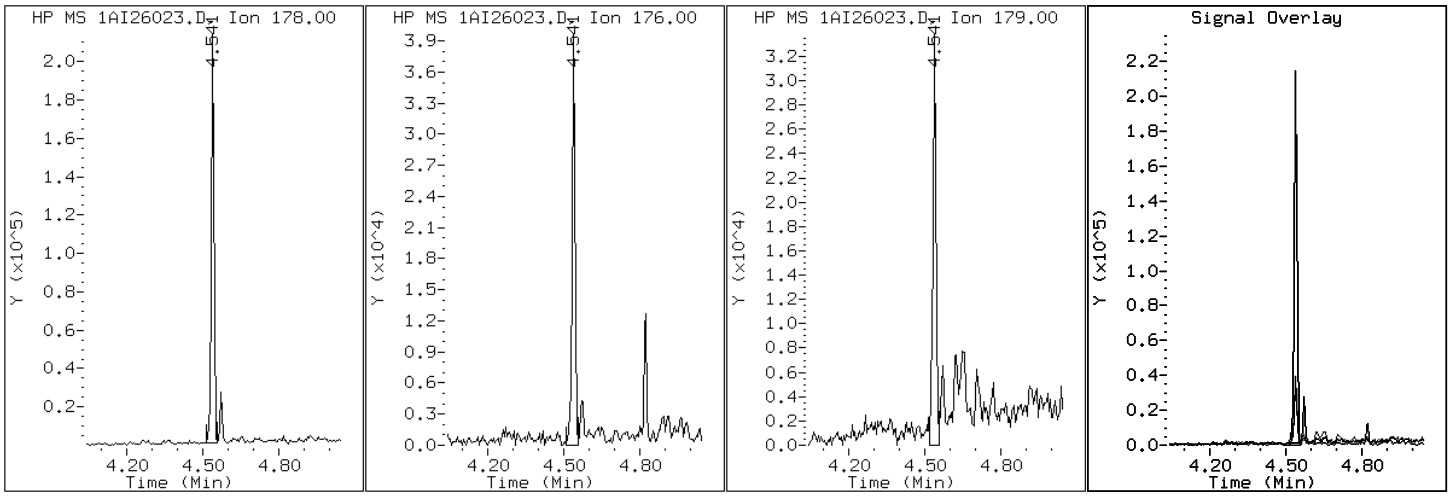
Data File: 1AI26023.D

Date: 26-SEP-2013 17:58

Client ID: WCWL-GP06-2_3ft Instrument: BSMA5973.i

Sample Info: 680-94506-a-22-a Operator: SCC

12 Phenanthrene



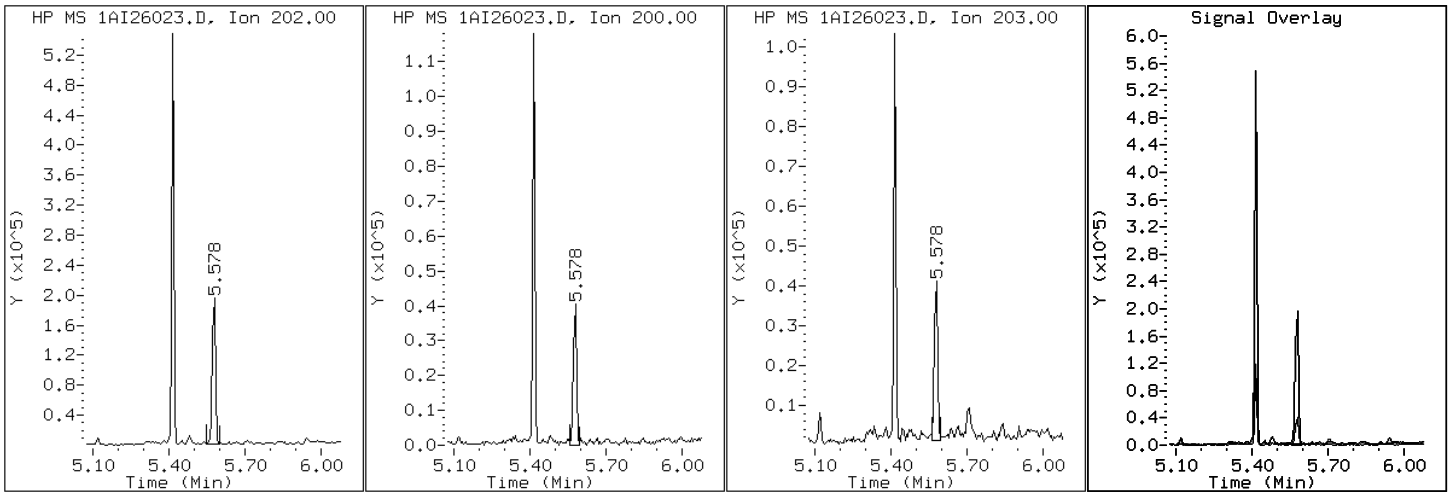
Data File: 1AI26023.D

Date: 26-SEP-2013 17:58

Client ID: WCWL-GP06-2_3ft Instrument: BSMA5973.i

Sample Info: 680-94506-a-22-a Operator: SCC

17 Pyrene



Manual Integration Report

Data File: 1AI26023.D
Inj. Date and Time: 26-SEP-2013 17:58
Instrument ID: BSMA5973.i
Client ID: WCWL-GP06-2_3ft
Compound: 21 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 09/27/2013

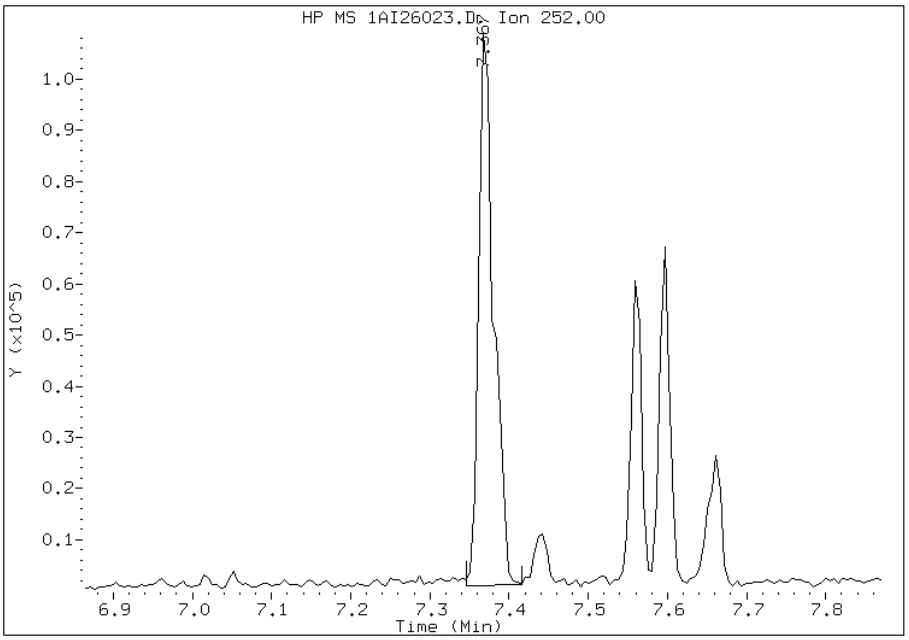
Processing Integration Results

RT: 7.37

Response: 140406

Amount: 3

Conc: 227



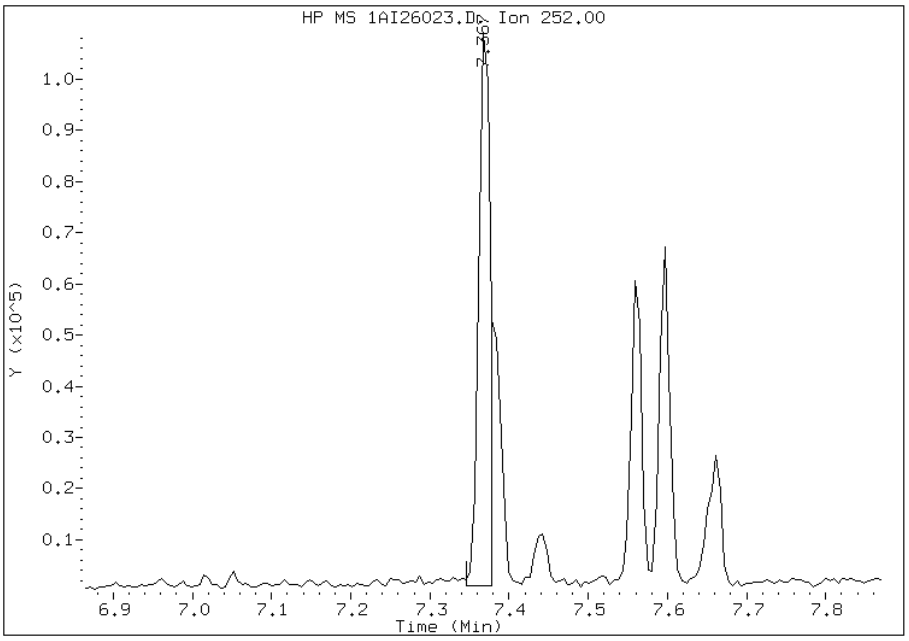
Manual Integration Results

RT: 7.37

Response: 108120

Amount: 2

Conc: 175



Manually Integrated By: cantins
Modification Date: 27-Sep-2013 10:31
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AI26023.D
Inj. Date and Time: 26-SEP-2013 17:58
Instrument ID: BSMA5973.i
Client ID: WCWL-GP06-2_3ft
Compound: 22 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 09/27/2013

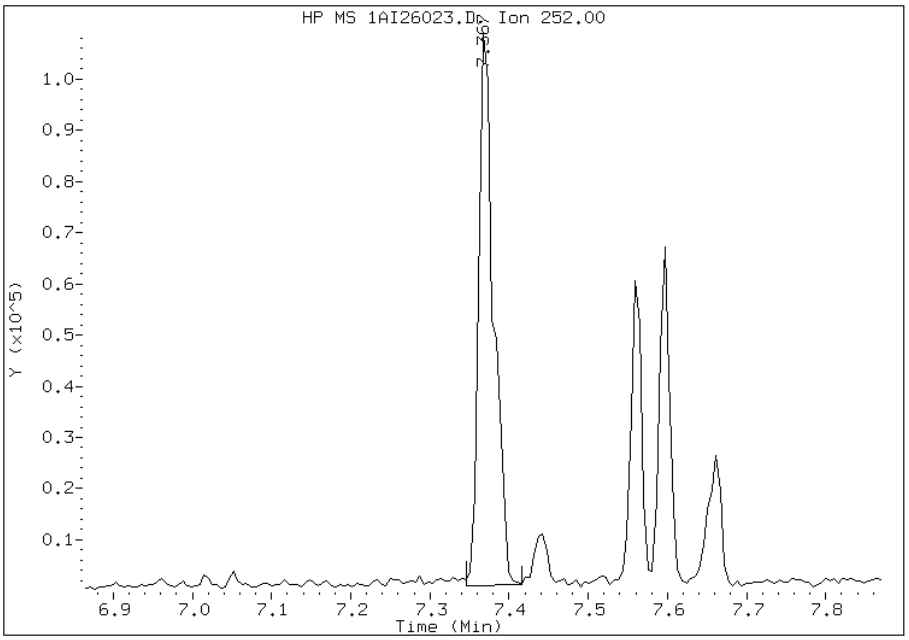
Processing Integration Results

RT: 7.37

Response: 140437

Amount: 4

Conc: 262



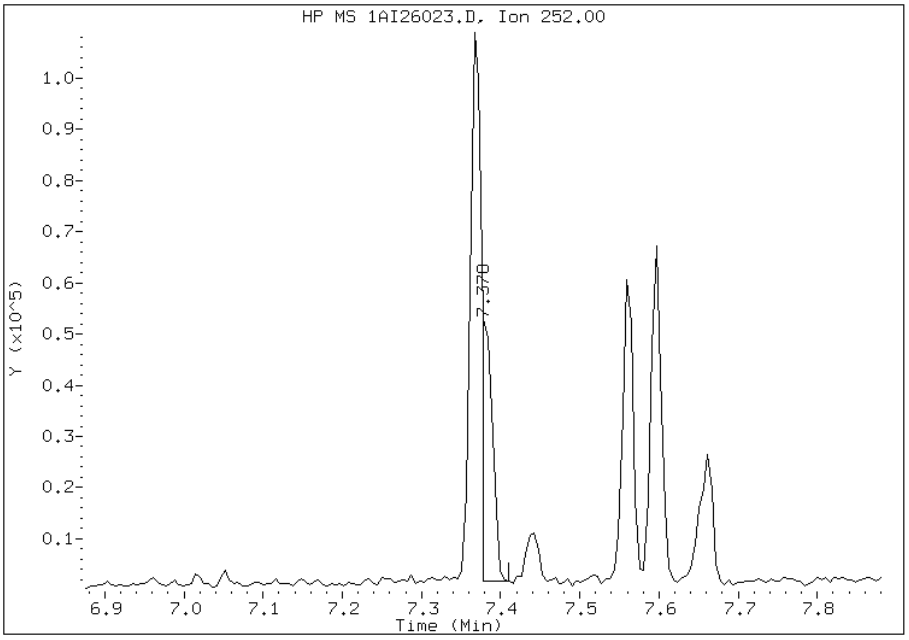
Manual Integration Results

RT: 7.38

Response: 47696

Amount: 2

Conc: 112



Manually Integrated By: cantins
Modification Date: 27-Sep-2013 10:31
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AI26023.D
Inj. Date and Time: 26-SEP-2013 17:58
Instrument ID: BSMA5973.i
Client ID: WCWL-GP06-2_3ft
Compound: 25 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 09/27/2013

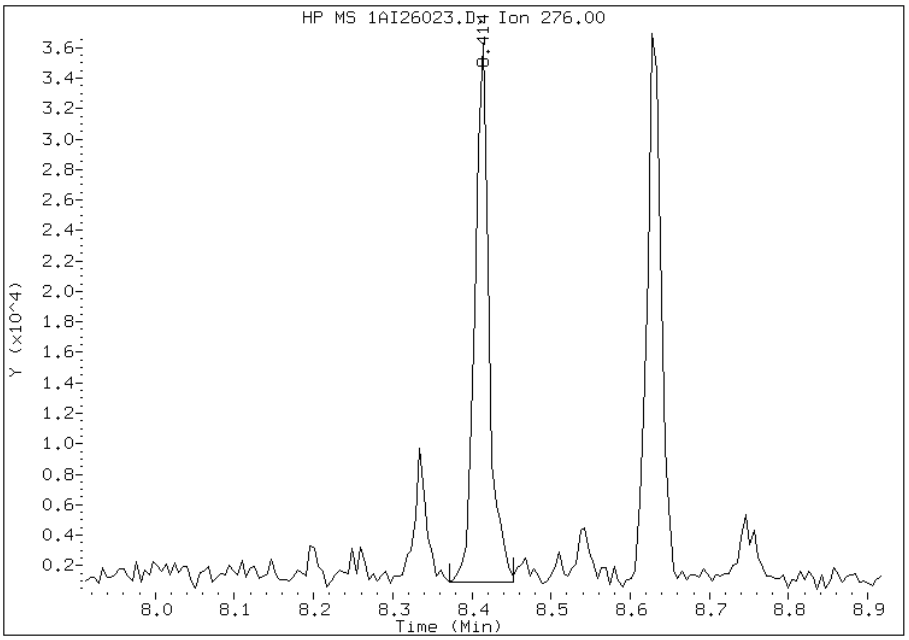
Processing Integration Results

RT: 8.41

Response: 43711

Amount: 1

Conc: 82



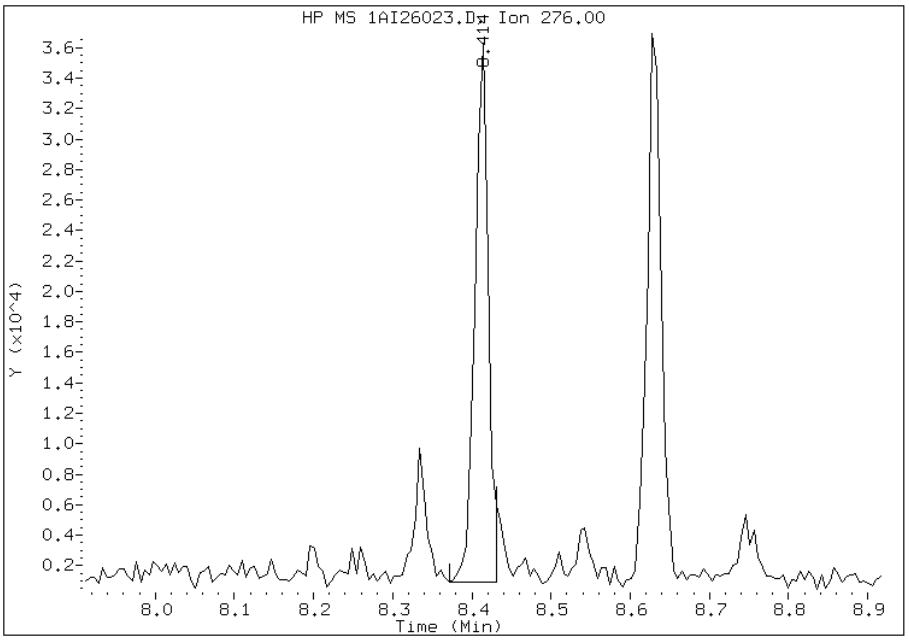
Manual Integration Results

RT: 8.41

Response: 41207

Amount: 1

Conc: 77



Manually Integrated By: cantins
Modification Date: 27-Sep-2013 10:32
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-94506-2

SDG No.: 680-94506-2

Client Sample ID: WCWL-GP08-0_2ft | Lab Sample ID: 680-94506-23

Matrix: Solid | Lab File ID: 1AI27015.D

Analysis Method: 8270C LL | Date Collected: 09/18/2013 17:30

Extract. Method: 3546 | Date Extracted: 09/25/2013 09:48

Sample wt/vol: 14.96(g) | Date Analyzed: 09/27/2013 14:32

Con. Extract Vol.: 1(mL) | Dilution Factor: 4

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 6.7 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 141824 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	3000		430	86
208-96-8	Acenaphthylene	3300		170	21
50-32-8	Benzo[a]pyrene	12000		45	22
191-24-2	Benzo[g,h,i]perylene	7700		86	19
207-08-9	Benzo[k]fluoranthene	8300		34	15
53-70-3	Dibenz(a,h)anthracene	3300		86	18
206-44-0	Fluoranthene	4300		86	17
86-73-7	Fluorene	12000		86	18
193-39-5	Indeno[1,2,3-cd]pyrene	7100		86	31
90-12-0	1-Methylnaphthalene	3600		170	19
91-57-6	2-Methylnaphthalene	6500		170	31
91-20-3	Naphthalene	6700		170	19

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	89		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A092713_pahIC.b\1AI27015.D
Lab Smp Id: 680-94506-A-23-A Client Smp ID: WCWL-GP08-0_2ft
Inj Date : 27-SEP-2013 14:32
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-94506-a-23-a
Misc Info : 680-94506-A-23-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A092713_pahIC.b\a-bFASTPAHi-m.m
Meth Date : 27-Sep-2013 13:48 BSMA5973.i Quant Type: ISTD
Cal Date : 27-SEP-2013 13:01 Cal File: 1AI27009.D
Als bottle: 14
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:
Amt * DF * 1/Vi * Vt/Ws * 100/(100 - M) * A * B * C * D * GPC * CpndVariable

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.960	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
*	1 Naphthalene-d8	136	2.543	2.538	(1.000)	2829013	40.0000	
*	7 Acenaphthene-d10	164	3.568	3.569	(1.000)	2275458	40.0000	
*	11 Phenanthrene-d10	188	4.535	4.520	(1.000)	3742635	40.0000	
$	15 o-Terphenyl	230	4.818	4.814	(1.062)	42250	2.23681	598.0765
*	19 Chrysene-d12	240	6.565	6.545	(1.000)	5433614	40.0000	
*	24 Perylene-d12	264	7.650	7.635	(1.000)	3039119	40.0000	
	2 Naphthalene	128	2.548	2.549	(1.002)	1249780	23.4084	6258.9415
	3 2-Methylnaphthalene	141	2.954	2.955	(1.162)	694244	22.8544	6110.8126
	4 1-Methylnaphthalene	142	3.013	3.014	(1.185)	426867	12.6545	3383.5448
	6 Acenaphthylene	152	3.483	3.478	(0.976)	716781	11.4309	3056.3787
	8 Acenaphthene	154	3.584	3.585	(1.004)	376951	10.3785	2774.9929
	10 Fluorene	166	3.905	3.900	(1.094)	2676881	41.6535	11137.2996
	12 Phenanthrene	178	4.541	4.536	(1.001)	13883724		(aMH)
	13 Anthracene	178	4.583	4.568	(1.011)	5395505	50.5383	13512.9087(A)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
16 Fluoranthene	202	5.417	5.402	(1.194)	14316073	14.8686	3975.5529
17 Pyrene	202	5.582	5.567	(0.850)	10700386	58.7694	15713.7444(A)
18 Benzo(a)anthracene	228	6.555	6.534	(0.998)	9740972	82.1910	21976.2148(A)
20 Chrysene	228	6.587	6.566	(1.003)	8124852	89.8274	24018.0329(A)
21 Benzo(b)fluoranthene	252	7.388	7.357	(0.966)	6539988	55.0153	14709.9828(AM)
22 Benzo(k)fluoranthene	252	7.393	7.378	(0.966)	2182788	29.0024	7754.6492(QM)
23 Benzo(a)pyrene	252	7.612	7.586	(0.995)	3160489	43.2798	11572.1264
25 Indeno(1,2,3-cd)pyrene	276	8.430	8.398	(1.102)	1317697	24.6439	6589.2681(M)
26 Dibenzo(a,h)anthracene	278	8.440	8.420	(1.103)	567763	11.6439	3113.3478
27 Benzo(g,h,i)perylene	276	8.649	8.612	(1.131)	1300316	26.9974	7218.5593

QC Flag Legend

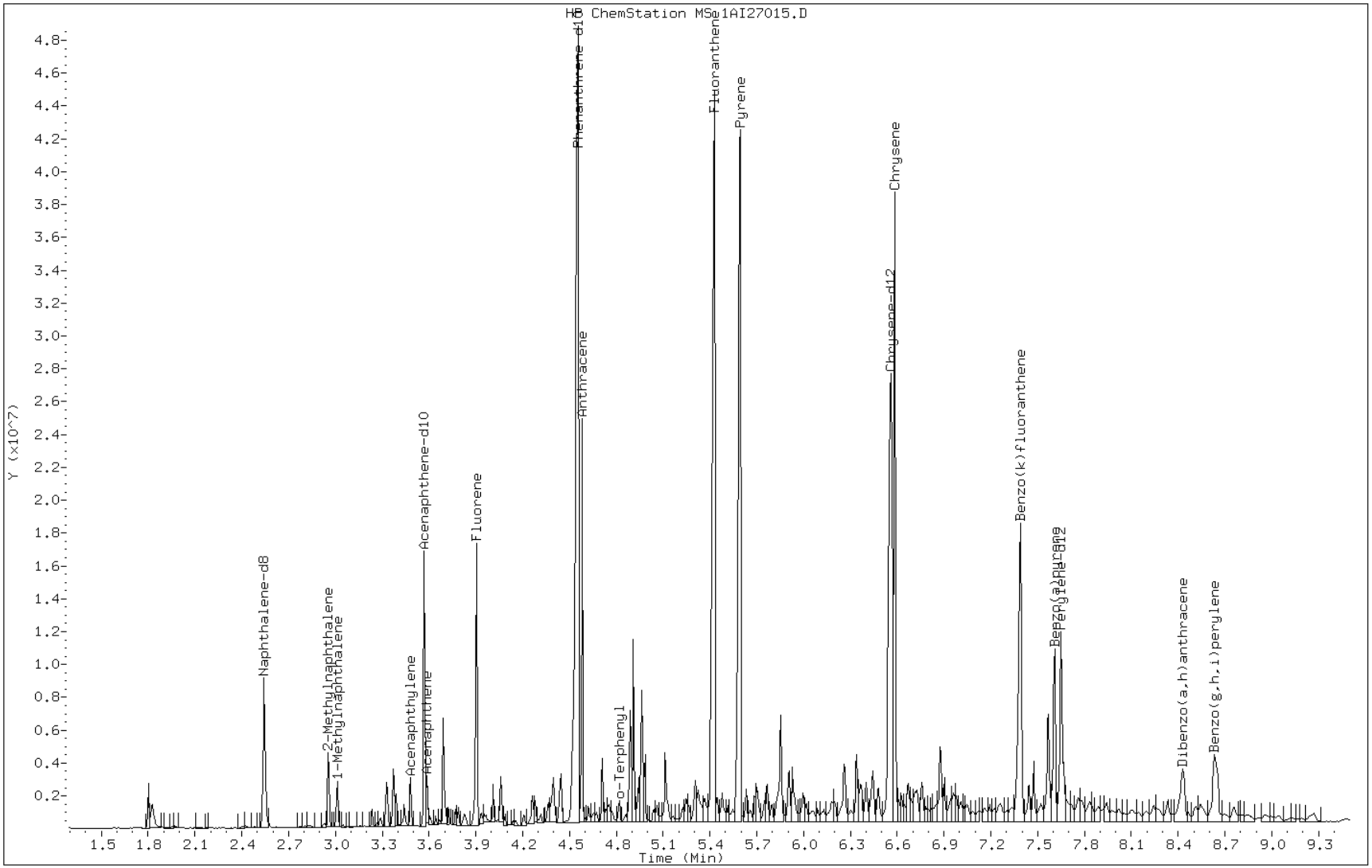
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1AI27015.D

Date: 27-SEP-2013 14:32

Client ID: WCWL-GP08-0_2ft Instrument: BSMA5973.i

Sample Info: 680-94506-a-23-a Operator: SCC



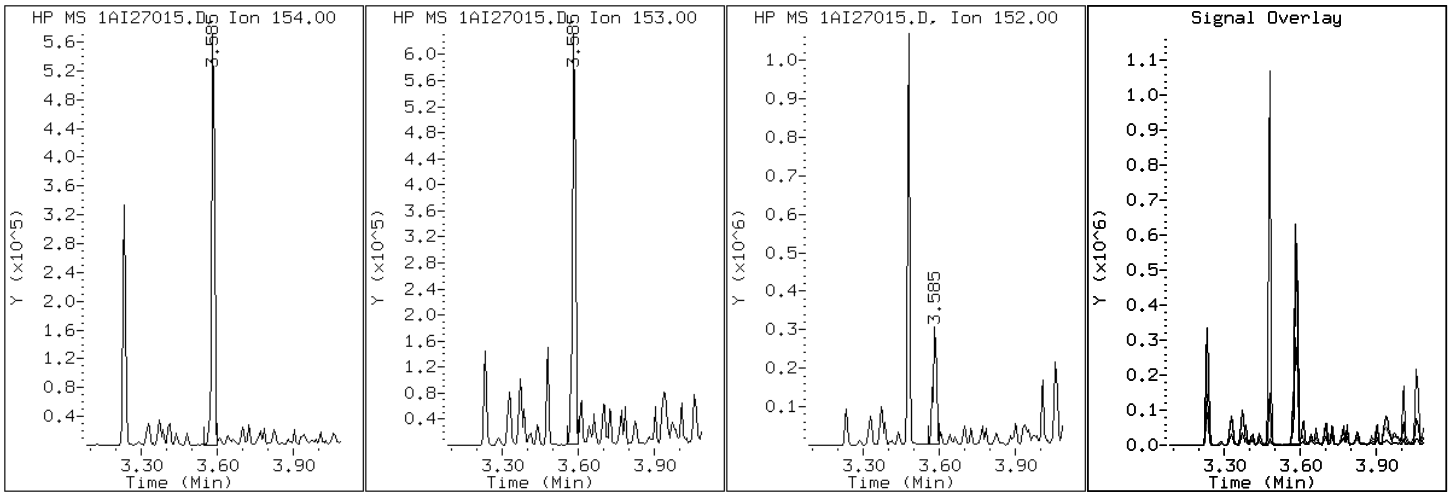
Data File: 1AI27015.D

Date: 27-SEP-2013 14:32

Client ID: WCWL-GP08-0_2ft Instrument: BSMA5973.i

Sample Info: 680-94506-a-23-a Operator: SCC

8 Acenaphthene



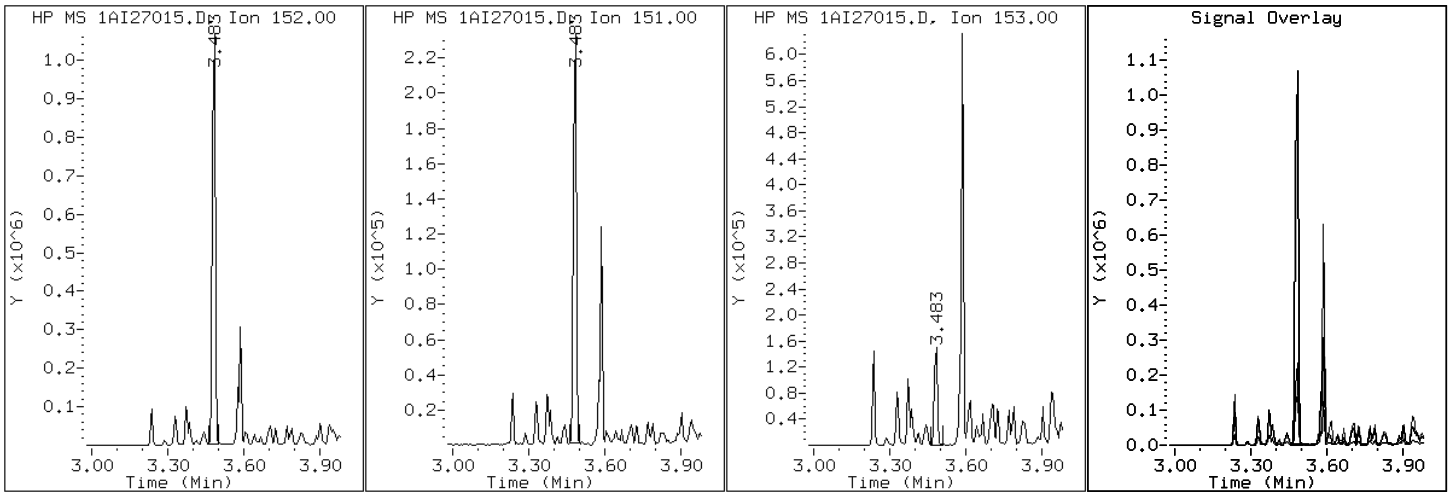
Data File: 1AI27015.D

Date: 27-SEP-2013 14:32

Client ID: WCWL-GP08-0_2ft Instrument: BSMA5973.i

Sample Info: 680-94506-a-23-a Operator: SCC

6 Acenaphthylene



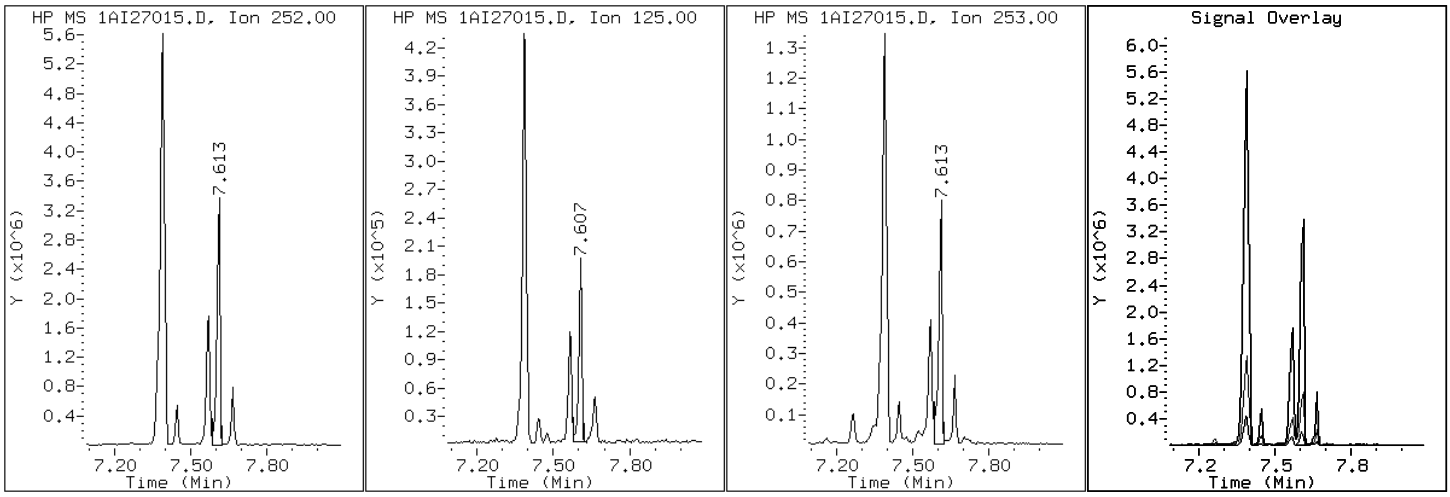
Data File: 1AI27015.D

Date: 27-SEP-2013 14:32

Client ID: WCWL-GP08-0_2ft Instrument: BSMA5973.i

Sample Info: 680-94506-a-23-a Operator: SCC

23 Benzo(a)pyrene



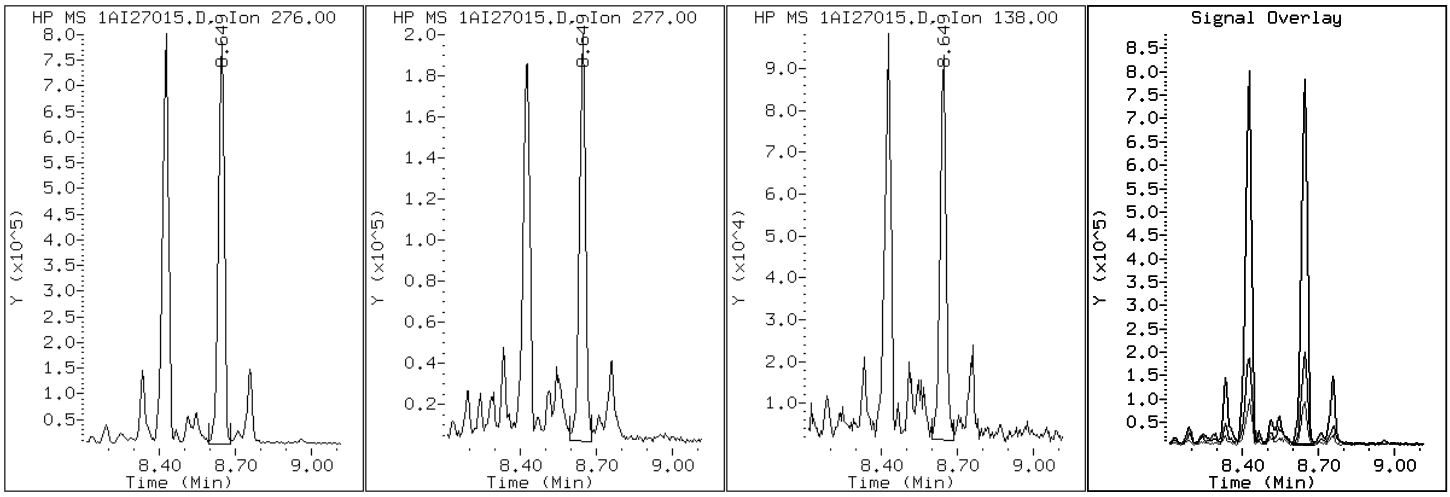
Data File: 1AI27015.D

Date: 27-SEP-2013 14:32

Client ID: WCWL-GP08-0_2ft Instrument: BSMA5973.i

Sample Info: 680-94506-a-23-a Operator: SCC

27 Benzo(g,h,i)perylene



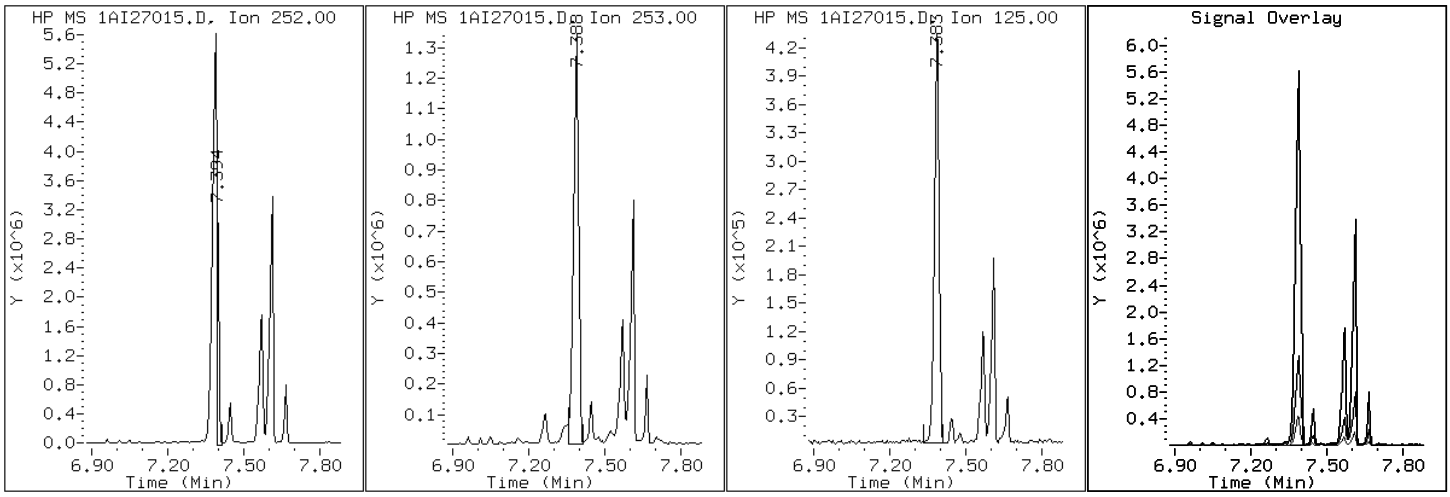
Data File: 1AI27015.D

Date: 27-SEP-2013 14:32

Client ID: WCWL-GP08-0_2ft Instrument: BSMA5973.i

Sample Info: 680-94506-a-23-a Operator: SCC

22 Benzo(k)fluoranthene



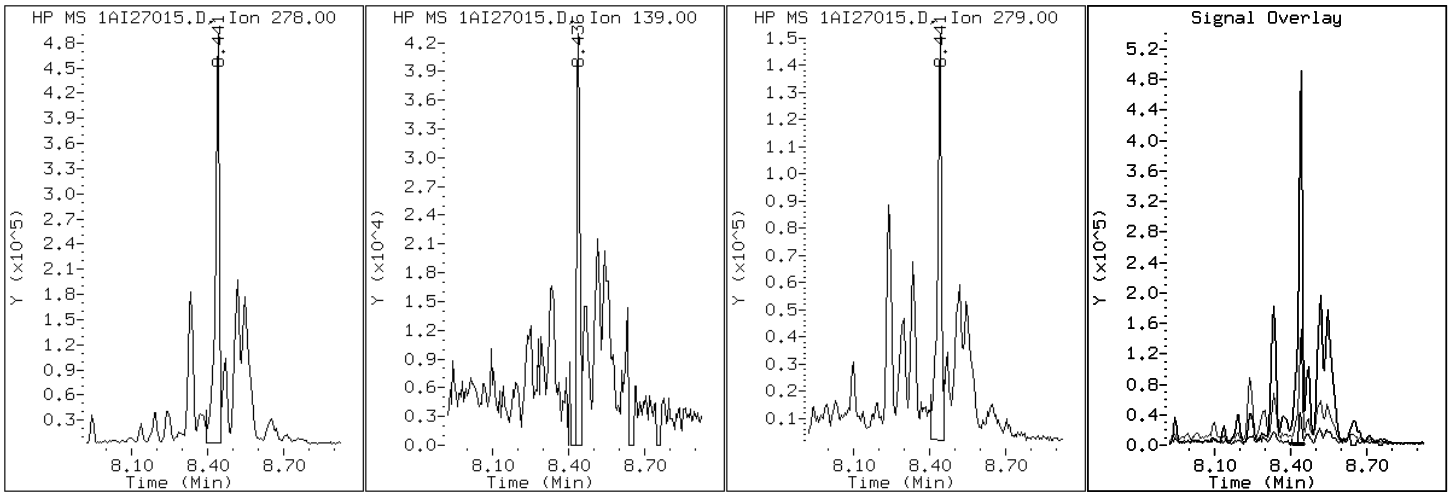
Data File: 1AI27015.D

Date: 27-SEP-2013 14:32

Client ID: WCWL-GP08-0_2ft Instrument: BSMA5973.i

Sample Info: 680-94506-a-23-a Operator: SCC

26 Dibenzo(a,h)anthracene



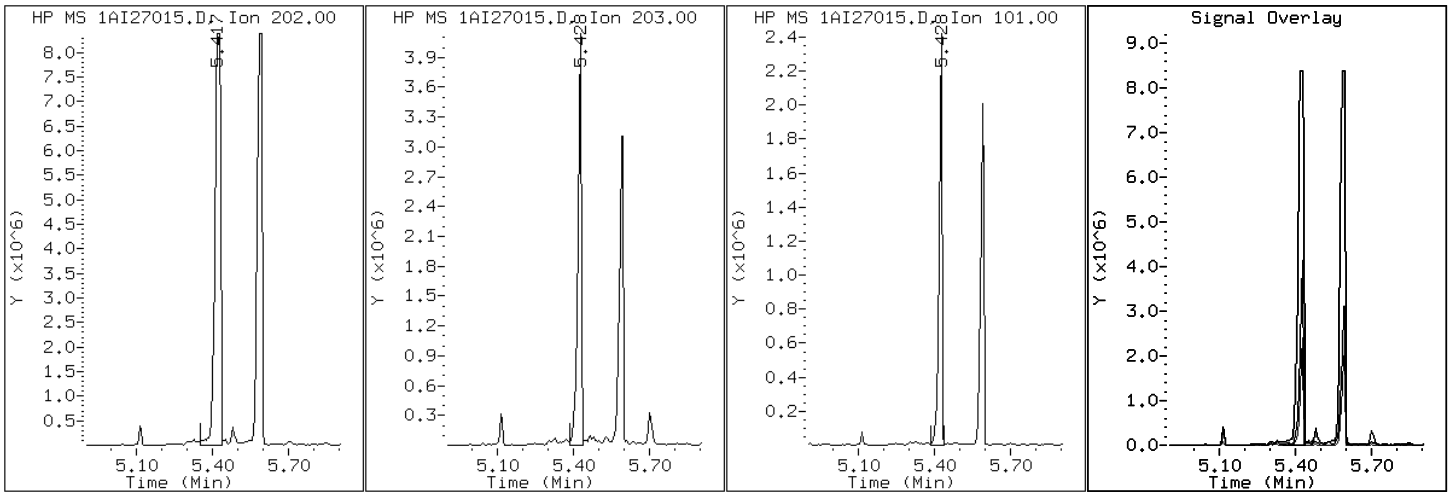
Data File: 1AI27015.D

Date: 27-SEP-2013 14:32

Client ID: WCWL-GP08-0_2ft Instrument: BSMA5973.i

Sample Info: 680-94506-a-23-a Operator: SCC

16 Fluoranthene



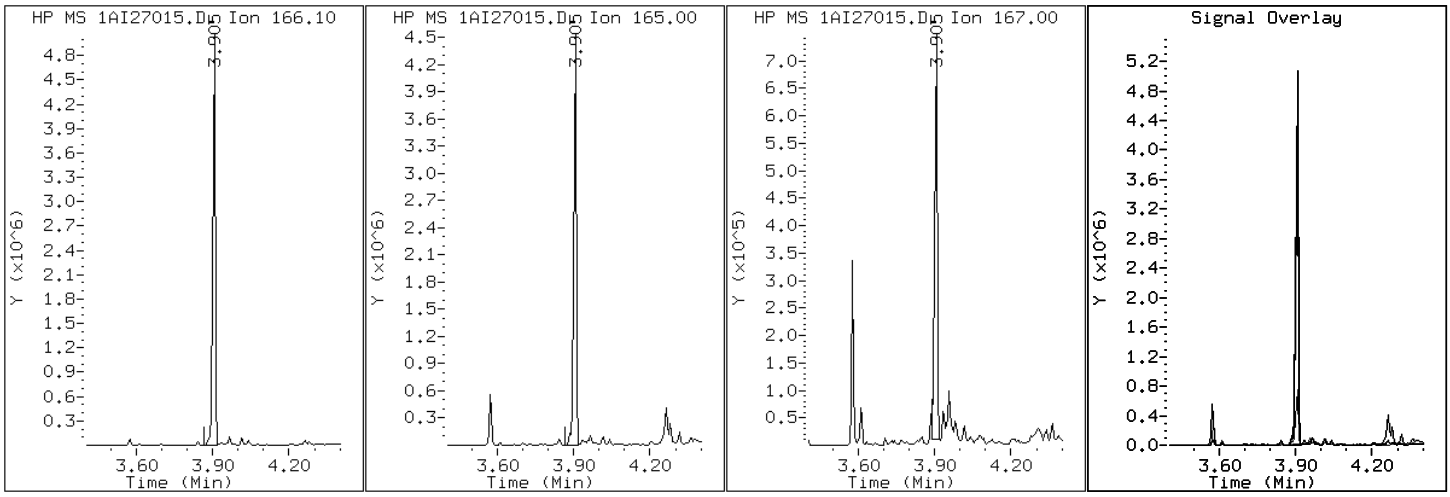
Data File: 1AI27015.D

Date: 27-SEP-2013 14:32

Client ID: WCWL-GP08-0_2ft Instrument: BSMA5973.i

Sample Info: 680-94506-a-23-a Operator: SCC

10 Fluorene



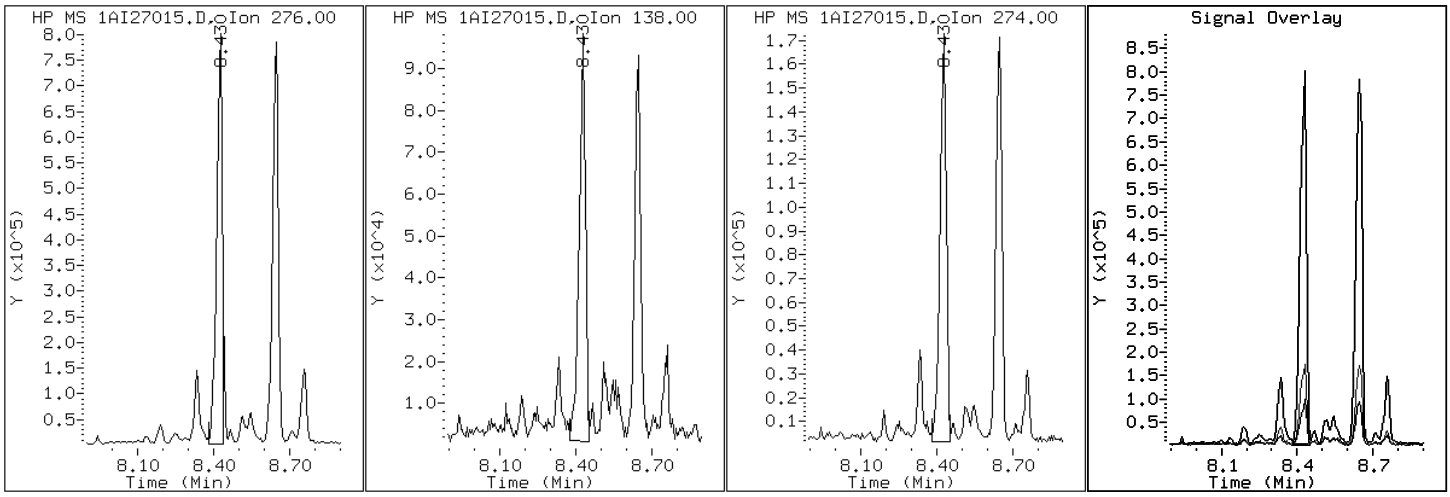
Data File: 1AI27015.D

Date: 27-SEP-2013 14:32

Client ID: WCWL-GP08-0_2ft Instrument: BSMA5973.i

Sample Info: 680-94506-a-23-a Operator: SCC

25 Indeno(1,2,3-cd)pyrene



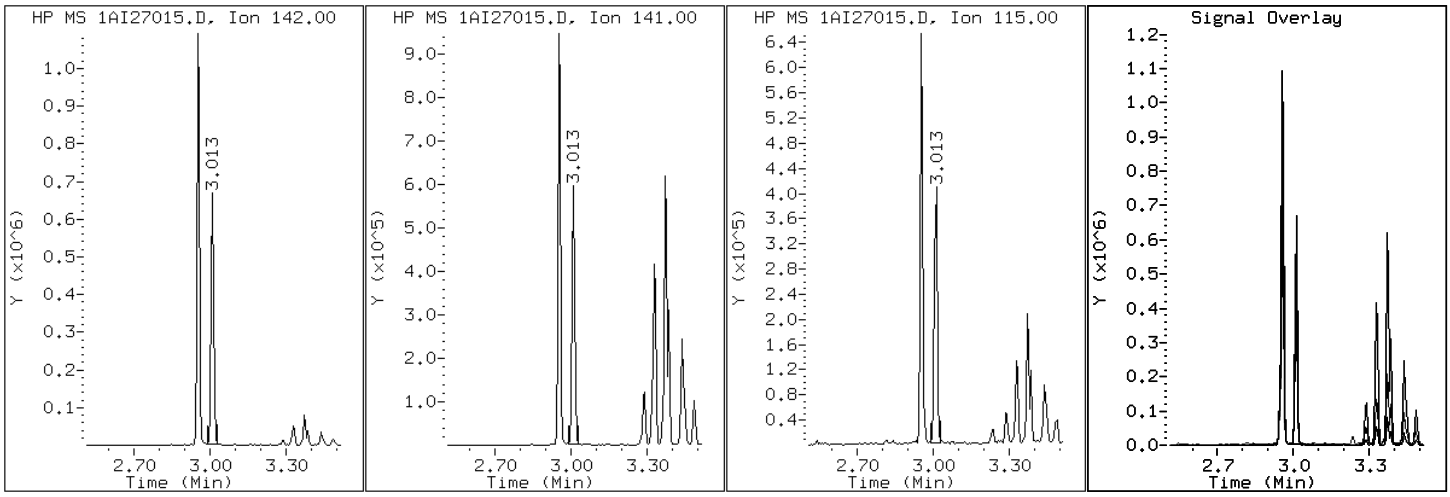
Data File: 1AI27015.D

Date: 27-SEP-2013 14:32

Client ID: WCWL-GP08-0_2ft Instrument: BSMA5973.i

Sample Info: 680-94506-a-23-a Operator: SCC

4 1-Methylnaphthalene



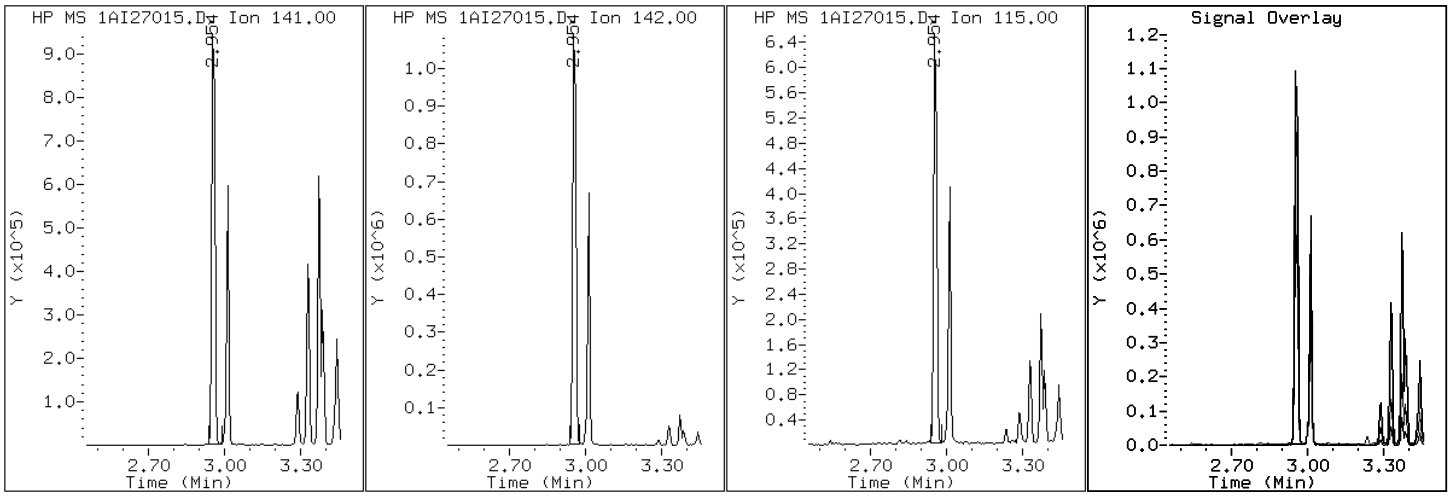
Data File: 1AI27015.D

Date: 27-SEP-2013 14:32

Client ID: WCWL-GP08-0_2ft Instrument: BSMA5973.i

Sample Info: 680-94506-a-23-a Operator: SCC

3 2-Methylnaphthalene



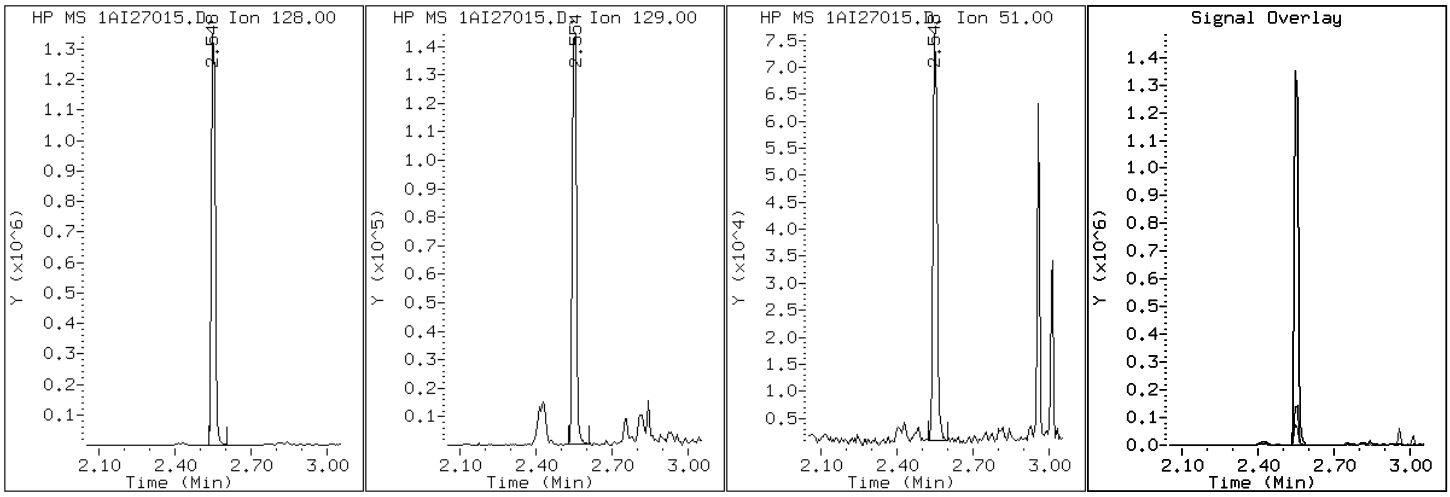
Data File: 1AI27015.D

Date: 27-SEP-2013 14:32

Client ID: WCWL-GP08-0_2ft Instrument: BSMA5973.i

Sample Info: 680-94506-a-23-a Operator: SCC

2 Naphthalene



Manual Integration Report

Data File: 1AI27015.D
Inj. Date and Time: 27-SEP-2013 14:32
Instrument ID: BSMA5973.i
Client ID: WCWL-GP08-0_2ft
Compound: 22 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 09/27/2013

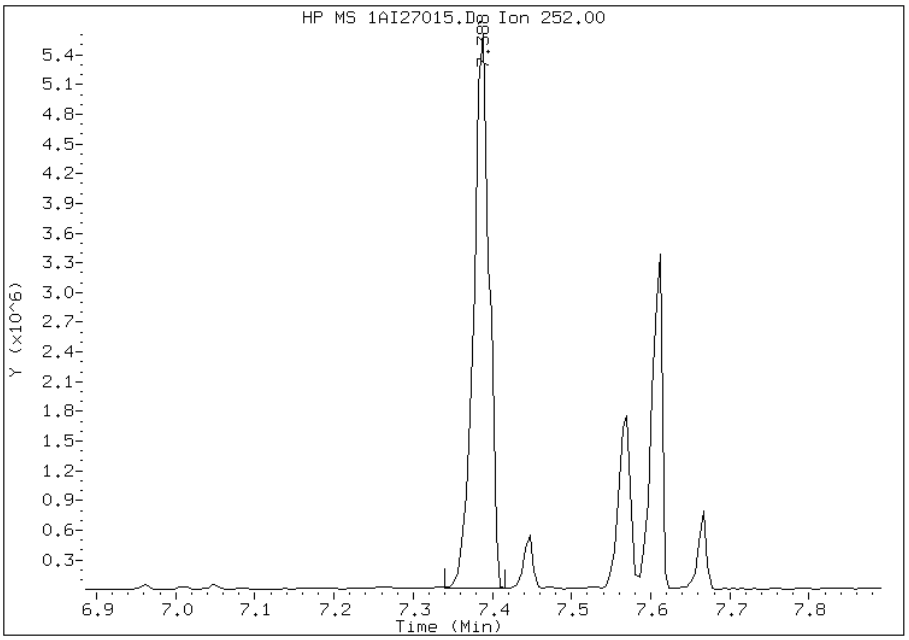
Processing Integration Results

RT: 7.39

Response: 7612449

Amount: 56

Conc: 15054



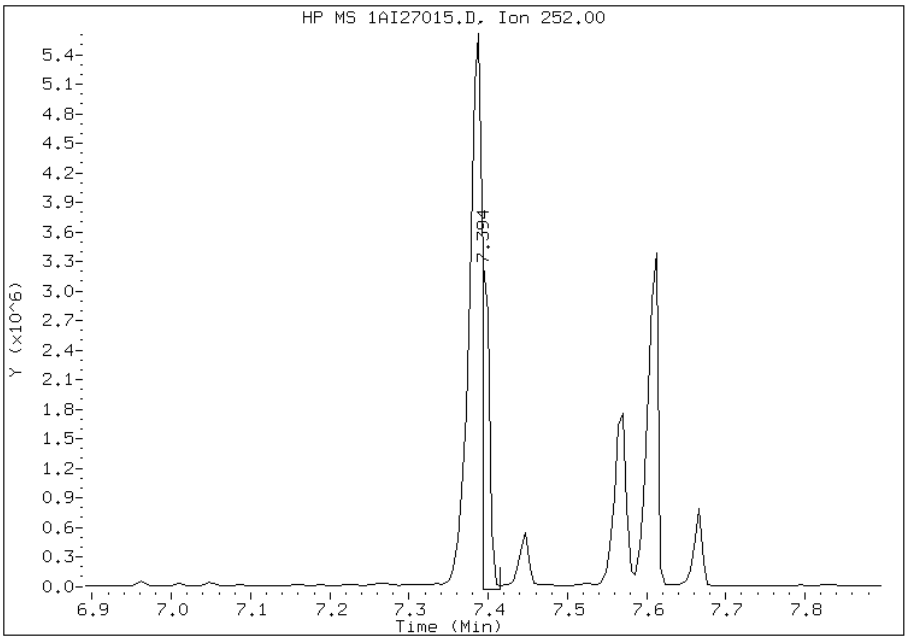
Manual Integration Results

RT: 7.39

Response: 2182788

Amount: 29

Conc: 7755



Manually Integrated By: cantins
Modification Date: 27-Sep-2013 15:07
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AI27015.D
Inj. Date and Time: 27-SEP-2013 14:32
Instrument ID: BSMA5973.i
Client ID: WCWL-GP08-0_2ft
Compound: 25 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 09/27/2013

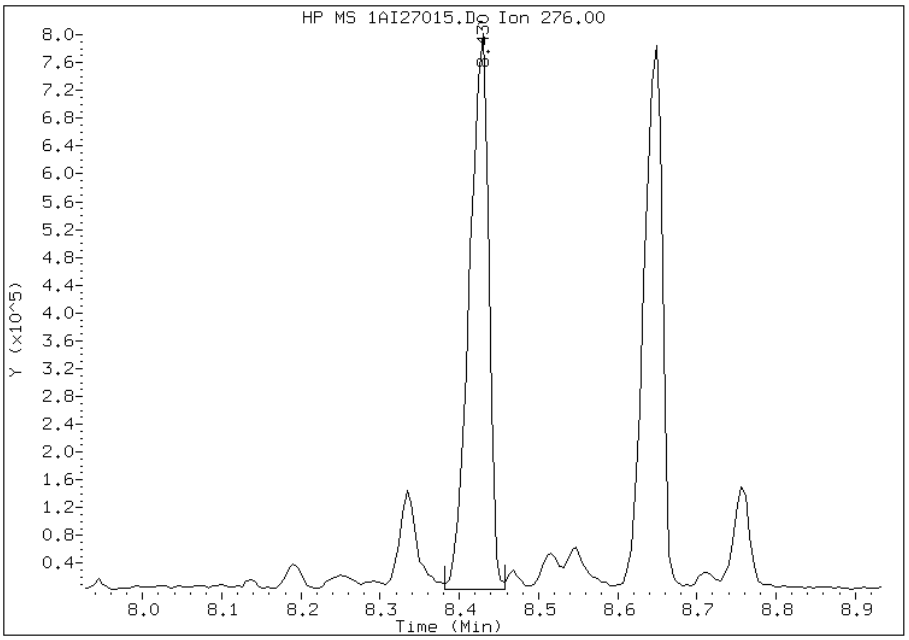
Processing Integration Results

RT: 8.43

Response: 1340423

Amount: 25

Conc: 6703



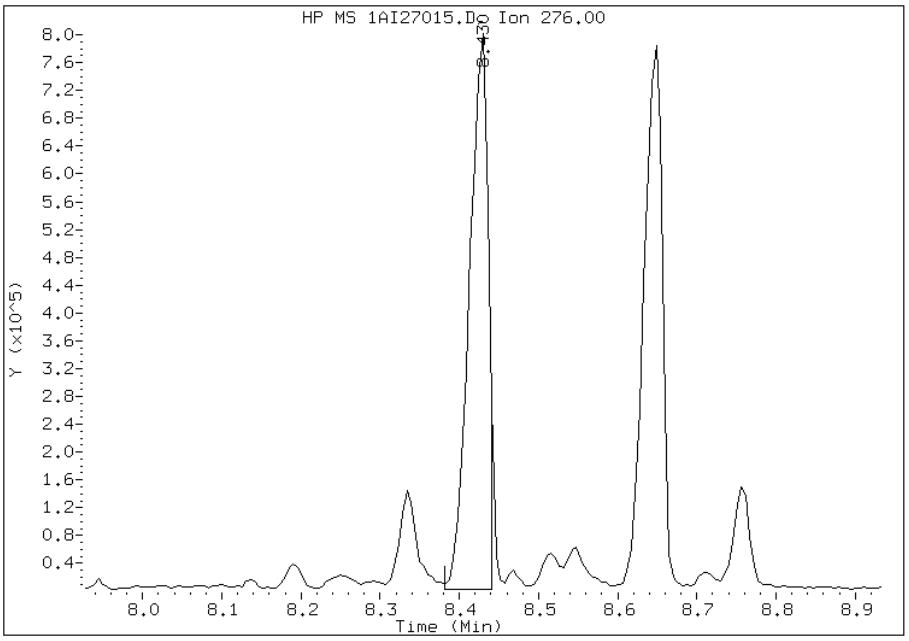
Manual Integration Results

RT: 8.43

Response: 1317697

Amount: 25

Conc: 6589



Manually Integrated By: cantins
Modification Date: 27-Sep-2013 15:07
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-94506-2

SDG No.: 680-94506-2

Client Sample ID: WCWL-GP08-0_2ft DL | Lab Sample ID: 680-94506-23 DL

Matrix: Solid | Lab File ID: 1AI27017.D

Analysis Method: 8270C LL | Date Collected: 09/18/2013 17:30

Extract. Method: 3546 | Date Extracted: 09/25/2013 09:48

Sample wt/vol: 14.96(g) | Date Analyzed: 09/27/2013 16:07

Con. Extract Vol.: 1(mL) | Dilution Factor: 20

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 6.7 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 141824 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
120-12-7	Anthracene	12000		180	90
56-55-3	Benzo[a]anthracene	18000		170	84
205-99-2	Benzo[b]fluoranthene	13000		260	130
218-01-9	Chrysene	17000		190	97
85-01-8	Phenanthrene	50000		170	84
129-00-0	Pyrene	28000		430	80

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A092713_pahIC.b\1AI27017.D
Lab Smp Id: 680-94506-A-23-A Client Smp ID: WCWL-GP08-0_2ft
Inj Date : 27-SEP-2013 16:07
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-94506-a-23-a
Misc Info : 680-94506-A-23-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A092713_pahIC.b\a-bFASTPAHi-m.m
Meth Date : 27-Sep-2013 13:48 BSMA5973.i Quant Type: ISTD
Cal Date : 27-SEP-2013 13:01 Cal File: 1AI27009.D
Als bottle: 14
Dil Factor: 20.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:
Amt * DF * 1/Vi * Vt/Ws * 100/(100 - M) * A * B * C * D * GPC * CpndVariable

Name	Value	Description
DF	20.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.960	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	2.539	2.538	(1.000)	2568257	40.0000	
* 7 Acenaphthene-d10	164	3.575	3.569	(1.000)	2415234	40.0000	
* 11 Phenanthrene-d10	188	4.526	4.520	(1.000)	3289642	40.0000	
* 19 Chrysene-d12	240	6.556	6.545	(1.000)	3025210	40.0000	
* 24 Perylene-d12	264	7.683	7.635	(1.000)	2278974	40.0000	(H)
2 Naphthalene	128	2.549	2.549	(1.004)	177164	3.65520	4886.6278
3 2-Methylnaphthalene	141	2.955	2.955	(1.164)	99324	4.38095	5856.8814
4 1-Methylnaphthalene	142	3.014	3.014	(1.187)	71748	3.00090	4011.8968
6 Acenaphthylene	152	3.484	3.478	(0.975)	108645	2.66356	3560.9047
8 Acenaphthene	154	3.586	3.585	(1.003)	48100	2.38901	3193.8633
10 Fluorene	166	3.906	3.900	(1.093)	236523	5.71962	7646.5474
12 Phenanthrene	178	4.542	4.536	(1.004)	2656274	35.0802	46898.6479
13 Anthracene	178	4.574	4.568	(1.011)	470542	8.67082	11591.9987
16 Fluoranthene	202	5.413	5.402	(1.196)	1886219	26.0794	34865.4631

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
17 Pyrene	202	5.578	5.567	(0.851)	1121348	19.7765	26439.2198
18 Benzo(a)anthracene	228	6.551	6.534	(0.999)	831761	12.5244	16743.8561
20 Chrysene	228	6.572	6.566	(1.002)	607653	12.0665	16131.7277
21 Benzo(b)fluoranthene	252	7.389	7.357	(0.962)	402368	8.91776	11922.1403(MH)
22 Benzo(k)fluoranthene	252	7.405	7.378	(0.964)	171762	4.07763	5451.3827(M)
23 Benzo(a)pyrene	252	7.624	7.586	(0.992)	207525	5.29296	7076.1466(M)
25 Indeno(1,2,3-cd)pyrene	276	8.458	8.398	(1.101)	122733	3.06100	4092.2420(MH)
26 Dibenzo(a,h)anthracene	278	8.474	8.420	(1.103)	43593	1.56645	2094.1907(M)
27 Benzo(g,h,i)perylene	276	8.677	8.612	(1.129)	113539	3.14360	4202.6674(H)

QC Flag Legend

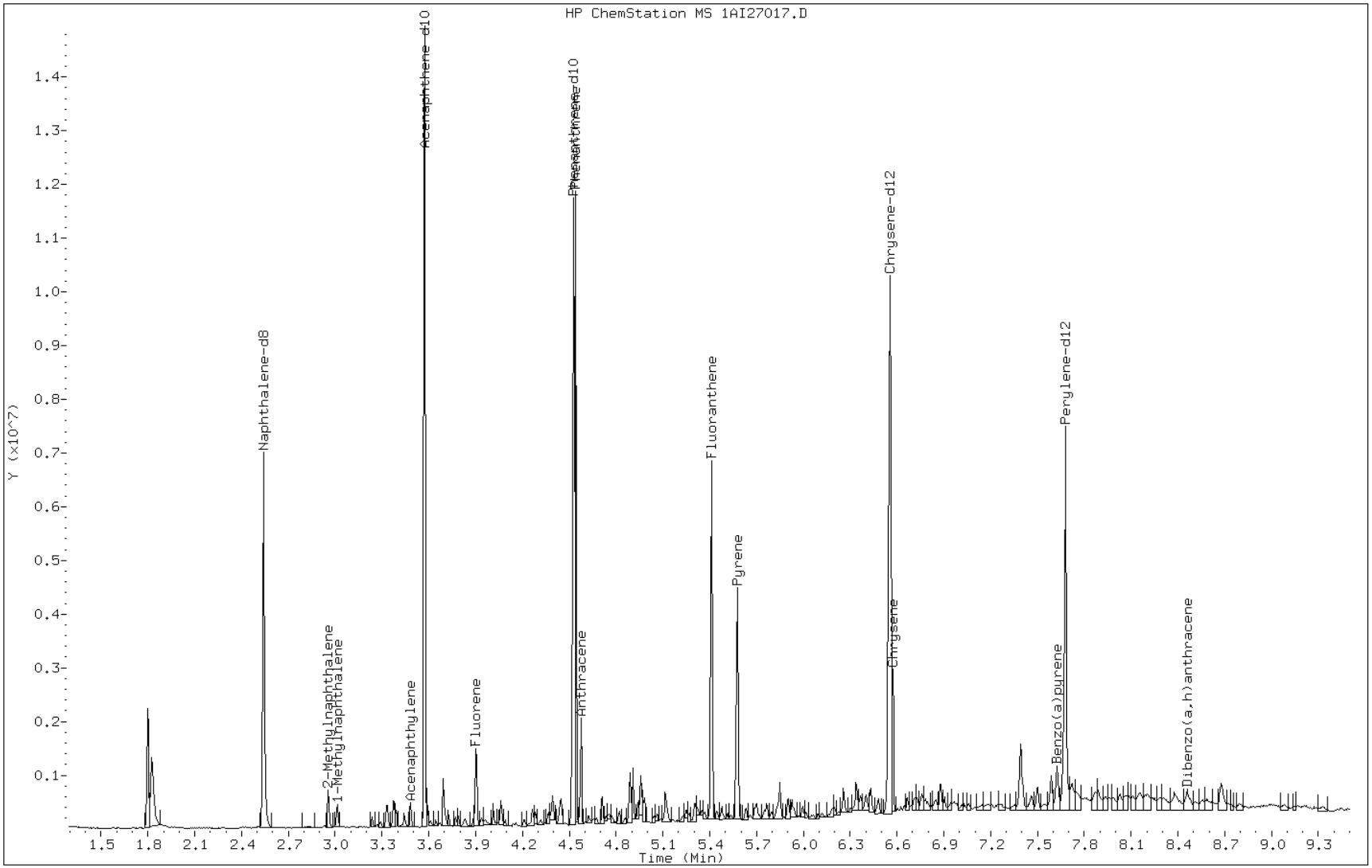
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1AI27017.D

Date: 27-SEP-2013 16:07

Client ID: WCWL-GP08-0_2ft Instrument: BSMA5973.i

Sample Info: 680-94506-a-23-a Operator: SCC



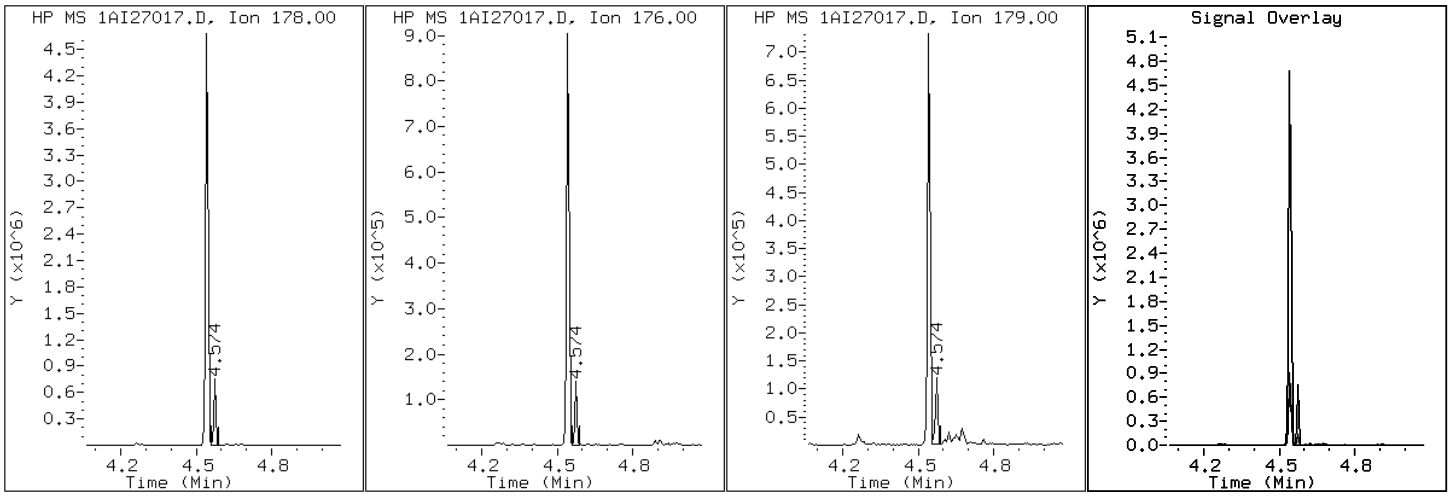
Data File: 1AI27017.D

Date: 27-SEP-2013 16:07

Client ID: WCWL-GP08-0_2ft Instrument: BSMA5973.i

Sample Info: 680-94506-a-23-a Operator: SCC

13 Anthracene



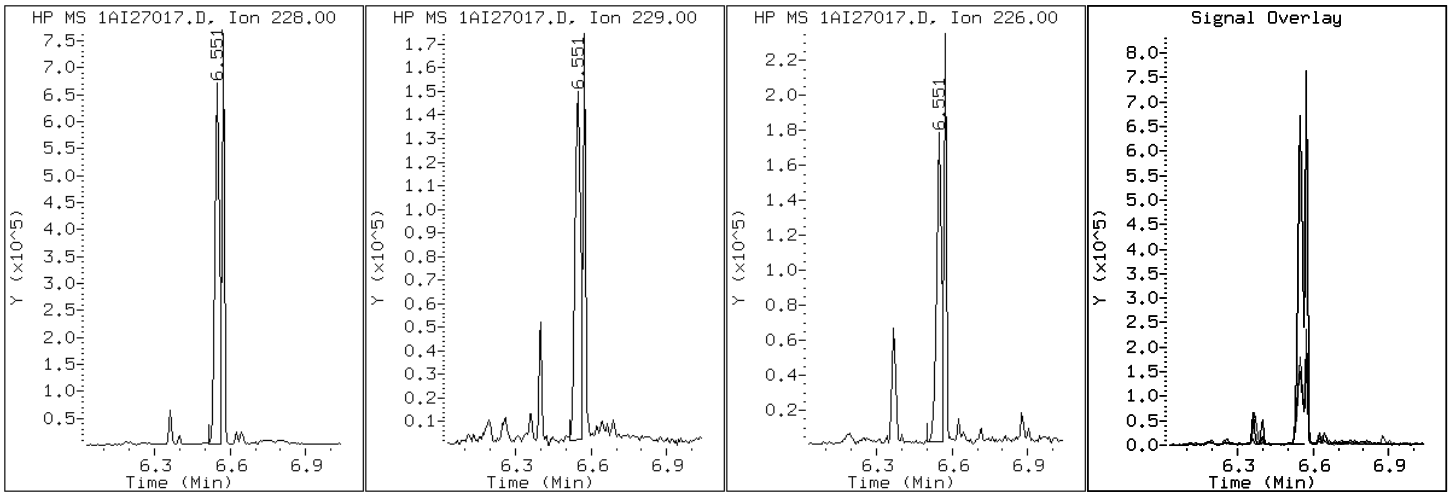
Data File: 1AI27017.D

Date: 27-SEP-2013 16:07

Client ID: WCWL-GP08-0_2ft Instrument: BSMA5973.i

Sample Info: 680-94506-a-23-a Operator: SCC

18 Benzo(a)anthracene



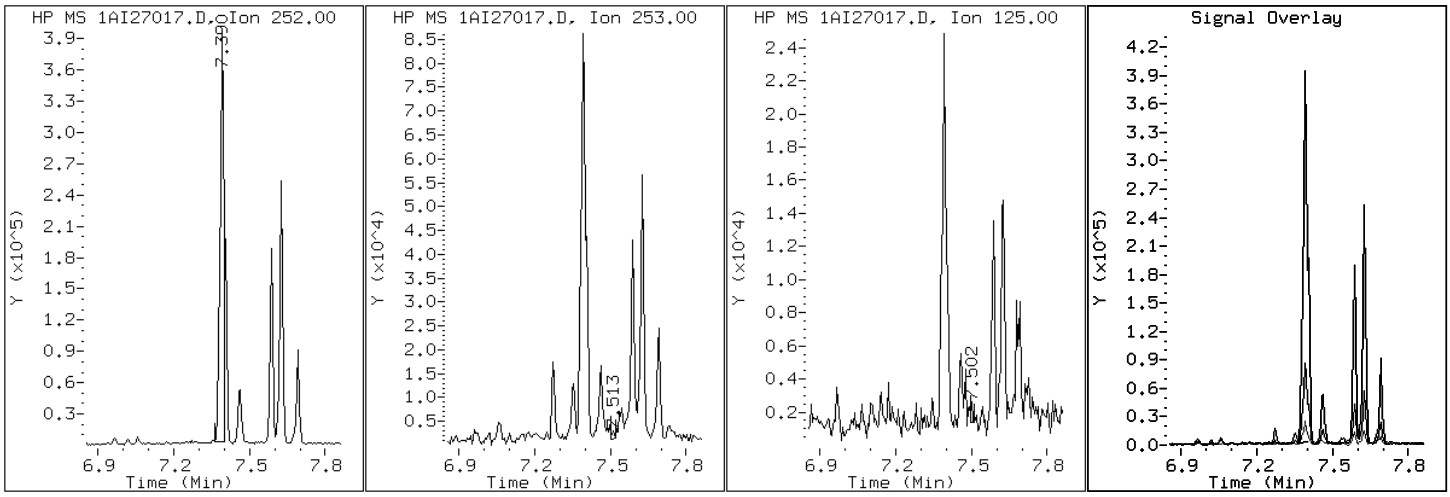
Data File: 1AI27017.D

Date: 27-SEP-2013 16:07

Client ID: WCWL-GP08-0_2ft Instrument: BSMA5973.i

Sample Info: 680-94506-a-23-a Operator: SCC

21 Benzo(b)fluoranthene



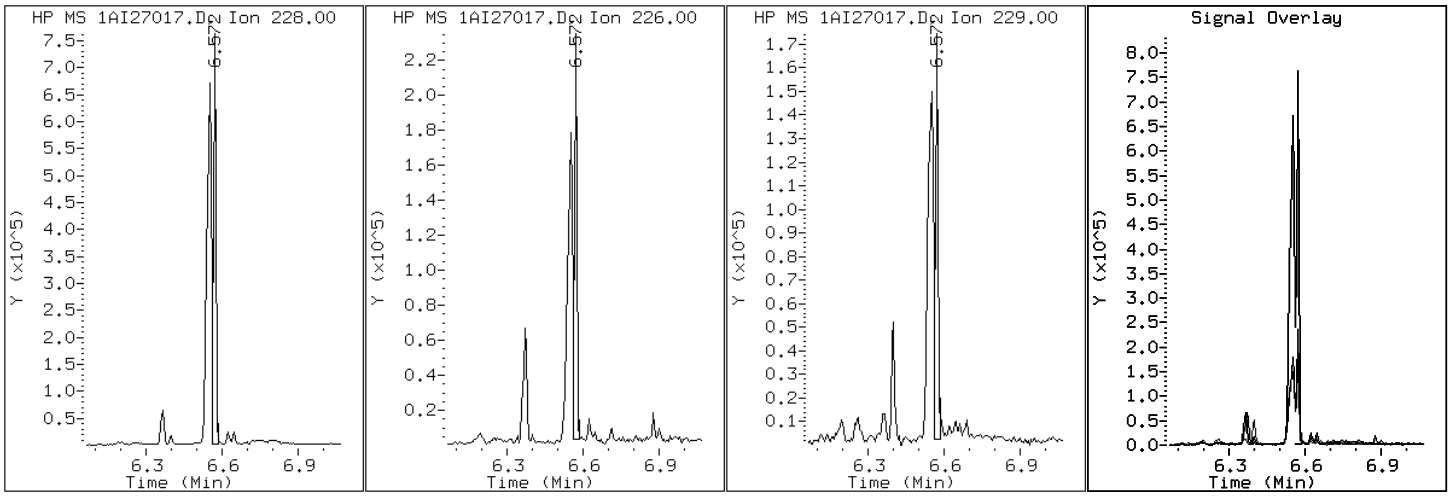
Data File: 1AI27017.D

Date: 27-SEP-2013 16:07

Client ID: WCWL-GP08-0_2ft Instrument: BSMA5973.i

Sample Info: 680-94506-a-23-a Operator: SCC

20 Chrysene



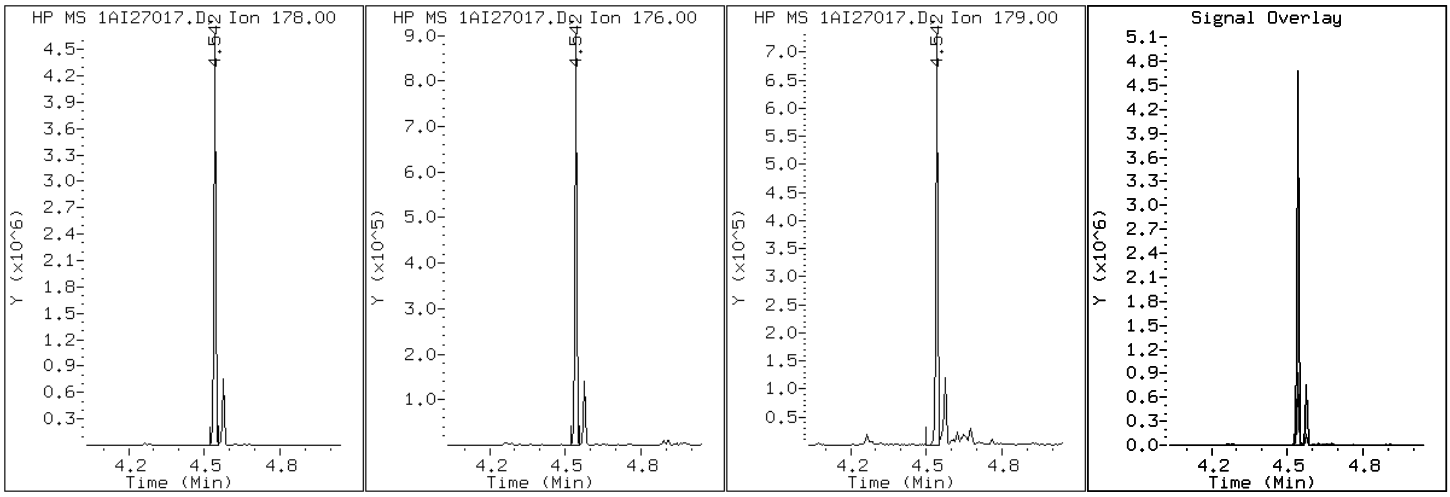
Data File: 1AI27017.D

Date: 27-SEP-2013 16:07

Client ID: WCWL-GP08-0_2ft Instrument: BSMA5973.i

Sample Info: 680-94506-a-23-a Operator: SCC

12 Phenanthrene



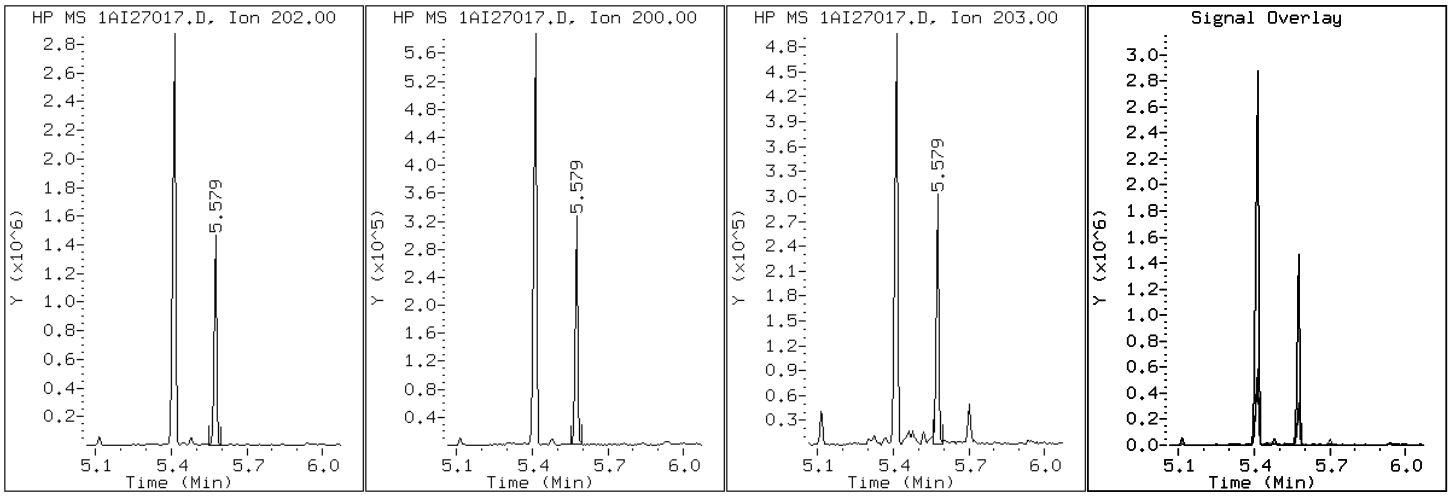
Data File: 1AI27017.D

Date: 27-SEP-2013 16:07

Client ID: WCWL-GP08-0_2ft Instrument: BSMA5973.i

Sample Info: 680-94506-a-23-a Operator: SCC

17 Pyrene



Manual Integration Report

Data File: 1AI27017.D
Inj. Date and Time: 27-SEP-2013 16:07
Instrument ID: BSMA5973.i
Client ID: WCWL-GP08-0_2ft
Compound: 21 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 09/27/2013

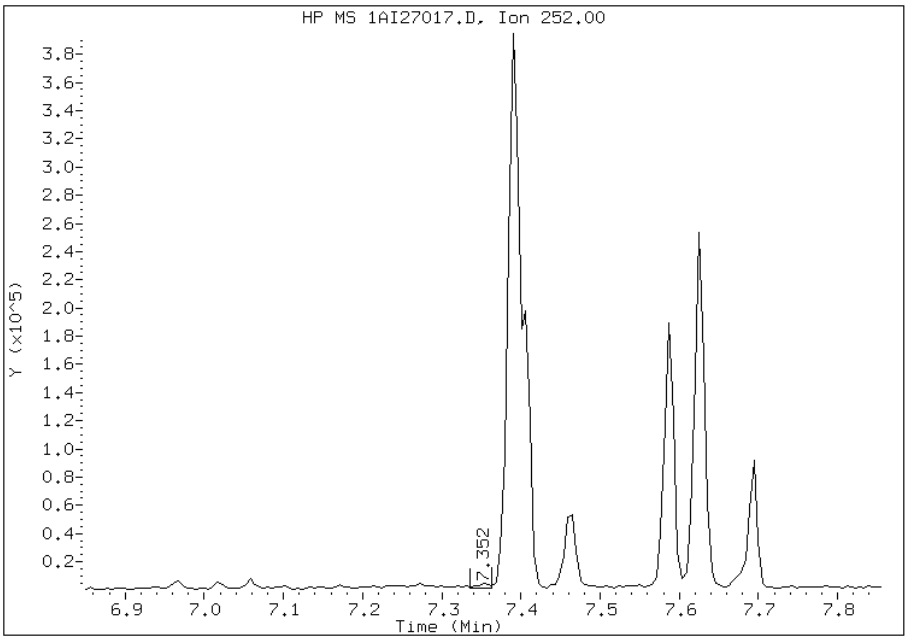
Processing Integration Results

RT: 7.35

Response: 3598

Amount: 0

Conc: 424



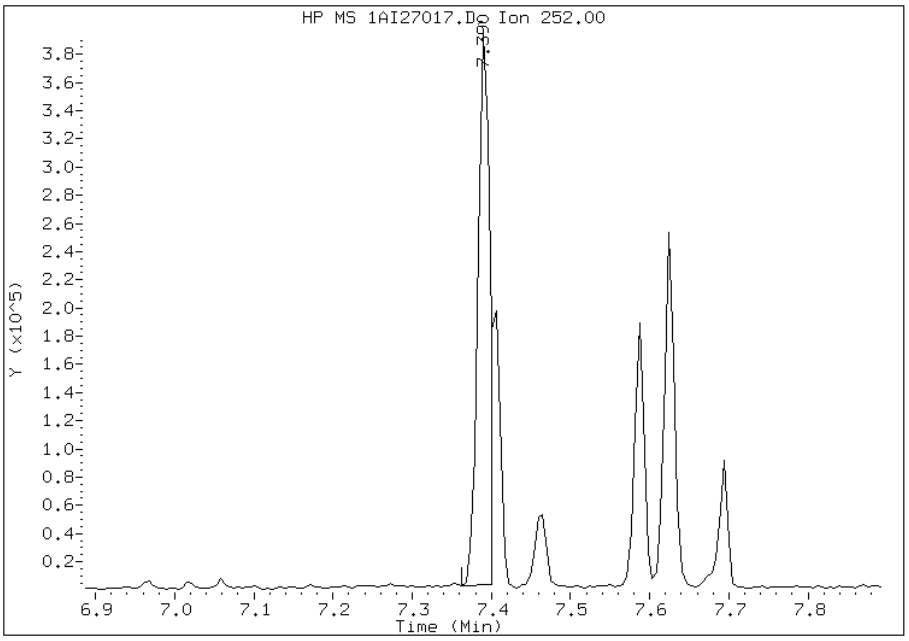
Manual Integration Results

RT: 7.39

Response: 402368

Amount: 9

Conc: 11922



Manually Integrated By: cantins
Modification Date: 27-Sep-2013 16:52
Manual Integration Reason: Analyte Misidentified by the Data System

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-94506-2

SDG No.: 680-94506-2

Client Sample ID: WCWL-GP08D-0_2ft | Lab Sample ID: 680-94506-24

Matrix: Solid | Lab File ID: 1AI27016.D

Analysis Method: 8270C LL | Date Collected: 09/18/2013 17:30

Extract. Method: 3546 | Date Extracted: 09/25/2013 09:48

Sample wt/vol: 14.97(g) | Date Analyzed: 09/27/2013 14:47

Con. Extract Vol.: 1(mL) | Dilution Factor: 4

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 5.8 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 141824 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	990		430	85
208-96-8	Acenaphthylene	1800		170	21
120-12-7	Anthracene	5400		36	18
56-55-3	Benzo[a]anthracene	11000		34	17
50-32-8	Benzo[a]pyrene	6200		44	22
205-99-2	Benzo[b]fluoranthene	9800		52	26
191-24-2	Benzo[g,h,i]perylene	4000		85	19
207-08-9	Benzo[k]fluoranthene	3900		34	15
218-01-9	Chrysene	12000		38	19
53-70-3	Dibenz(a,h)anthracene	1800		85	17
86-73-7	Fluorene	2700		85	17
193-39-5	Indeno[1,2,3-cd]pyrene	3800		85	30
90-12-0	1-Methylnaphthalene	1200		170	19
91-57-6	2-Methylnaphthalene	2300		170	30
91-20-3	Naphthalene	3000		170	19
85-01-8	Phenanthrene	14000		34	17
129-00-0	Pyrene	13000		85	16

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	105		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A092713_pahIC.b\1AI27016.D
Lab Smp Id: 680-94506-A-24-A Client Smp ID: WCWL-GP08D-0_2ft
Inj Date : 27-SEP-2013 14:47
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-94506-a-24-a
Misc Info : 680-94506-A-24-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A092713_pahIC.b\a-bFASTPAHi-m.m
Meth Date : 27-Sep-2013 13:48 BSMA5973.i Quant Type: ISTD
Cal Date : 27-SEP-2013 13:01 Cal File: 1AI27009.D
Als bottle: 15
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:
Amt * DF * 1/Vi * Vt/Ws * 100/(100 - M) * A * B * C * D * GPC * CpndVariable

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.970	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	2.543	2.538	(1.000)	2759483	40.0000	
* 7 Acenaphthene-d10	164	3.569	3.569	(1.000)	2235580	40.0000	
* 11 Phenanthrene-d10	188	4.525	4.520	(1.000)	3212136	40.0000	
$ 15 o-Terphenyl	230	4.813	4.814	(1.064)	53482	2.61934	699.8894
* 19 Chrysene-d12	240	6.555	6.545	(1.000)	4042295	40.0000	
* 24 Perylene-d12	264	7.656	7.635	(1.000)	3157961	40.0000	
2 Naphthalene	128	2.548	2.549	(1.002)	558247	10.7195	2864.2487
3 2-Methylnaphthalene	141	2.954	2.955	(1.162)	211024	8.07673	2158.1098
4 1-Methylnaphthalene	142	3.013	3.014	(1.185)	122493	4.34969	1162.2423
6 Acenaphthylene	152	3.478	3.478	(0.975)	351333	6.40726	1712.0265
8 Acenaphthene	154	3.585	3.585	(1.004)	87384	3.48140	930.2345
10 Fluorene	166	3.900	3.900	(1.093)	397208	9.35076	2498.5329
12 Phenanthrene	178	4.541	4.536	(1.004)	5115959	49.8548	13321.2623
13 Anthracene	178	4.573	4.568	(1.011)	1182872	19.1757	5123.7597

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
16 Fluoranthene	202	5.417	5.402	(1.197)	6783835	53.5783	14316.1824(A)
17 Pyrene	202	5.583	5.567	(0.852)	4290291	45.5482	12170.5257
18 Benzo(a)anthracene	228	6.550	6.534	(0.999)	3477081	39.3867	10524.1761
20 Chrysene	228	6.576	6.566	(1.003)	2926468	43.4909	11620.8080
21 Benzo(b)fluoranthene	252	7.378	7.357	(0.964)	2620650	34.5330	9227.2449(M)
22 Benzo(k)fluoranthene	252	7.388	7.378	(0.965)	950190	13.7314	3669.0567(QM)
23 Benzo(a)pyrene	252	7.607	7.586	(0.994)	1393949	22.0039	5879.4712
25 Indeno(1,2,3-cd)pyrene	276	8.425	8.398	(1.100)	752108	13.5367	3617.0337(M)
26 Dibenzo(a,h)anthracene	278	8.441	8.420	(1.103)	312300	6.49847	1736.3981
27 Benzo(g,h,i)perylene	276	8.649	8.612	(1.130)	707734	14.1411	3778.5260

QC Flag Legend

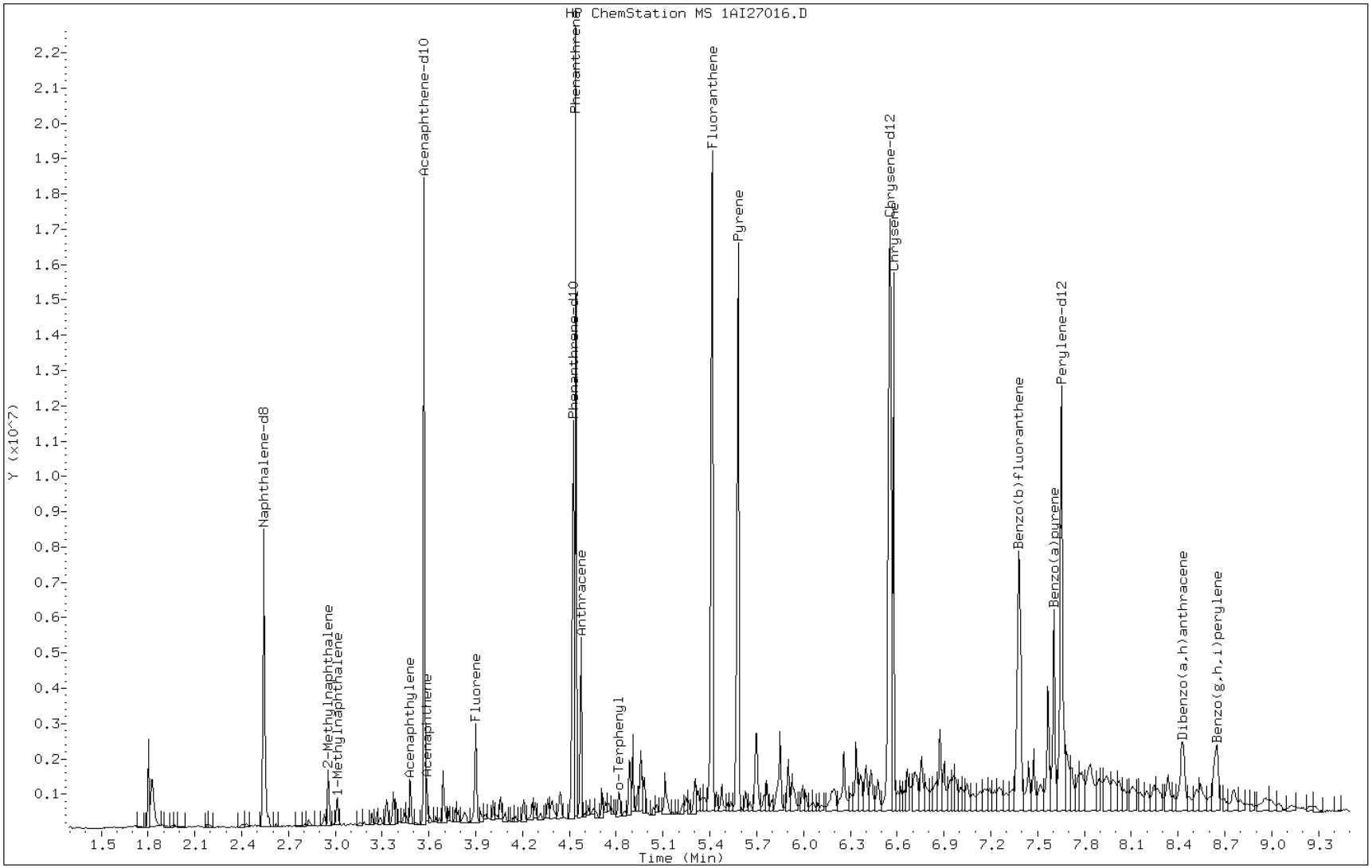
A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1AI27016.D

Date: 27-SEP-2013 14:47

Client ID: WCWL-GP08D-0_2ft Instrument: BSMA5973.i

Sample Info: 680-94506-a-24-a Operator: SCC



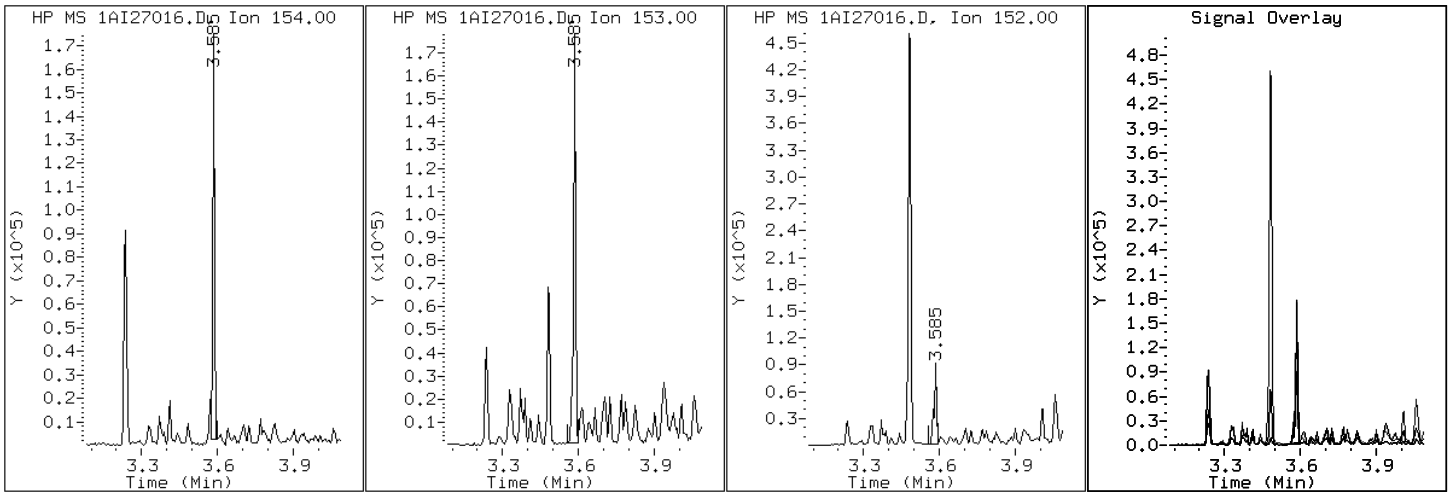
Data File: 1AI27016.D

Date: 27-SEP-2013 14:47

Client ID: WCWL-GP08D-0_2ft Instrument: BSMA5973.i

Sample Info: 680-94506-a-24-a Operator: SCC

8 Acenaphthene



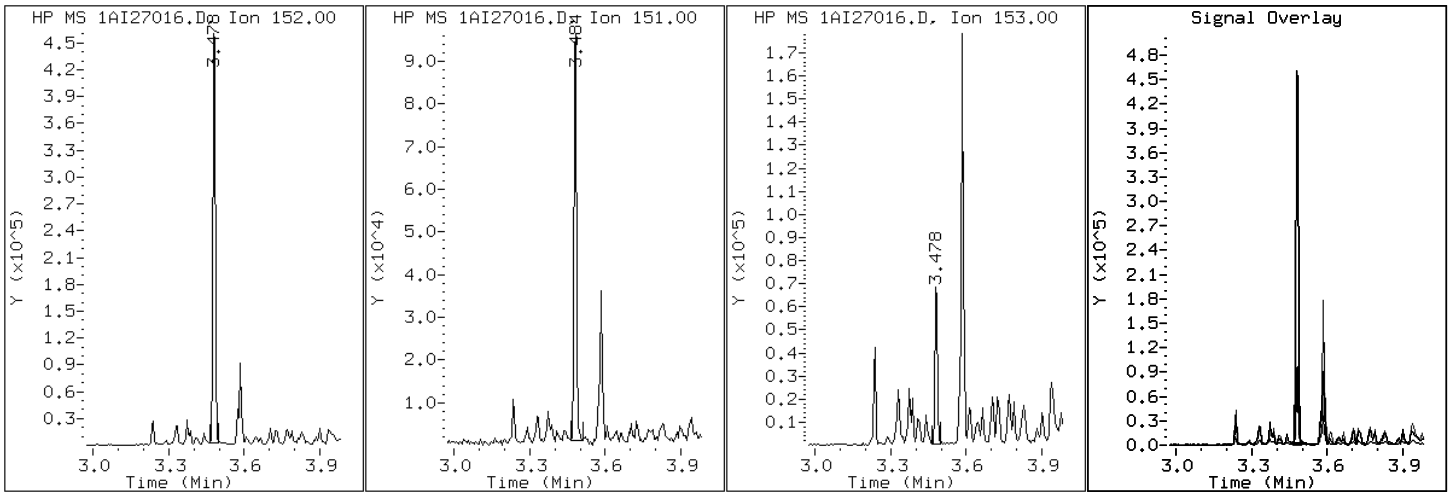
Data File: 1AI27016.D

Date: 27-SEP-2013 14:47

Client ID: WCWL-GP08D-0_2ft Instrument: BSMA5973.i

Sample Info: 680-94506-a-24-a Operator: SCC

6 Acenaphthylene



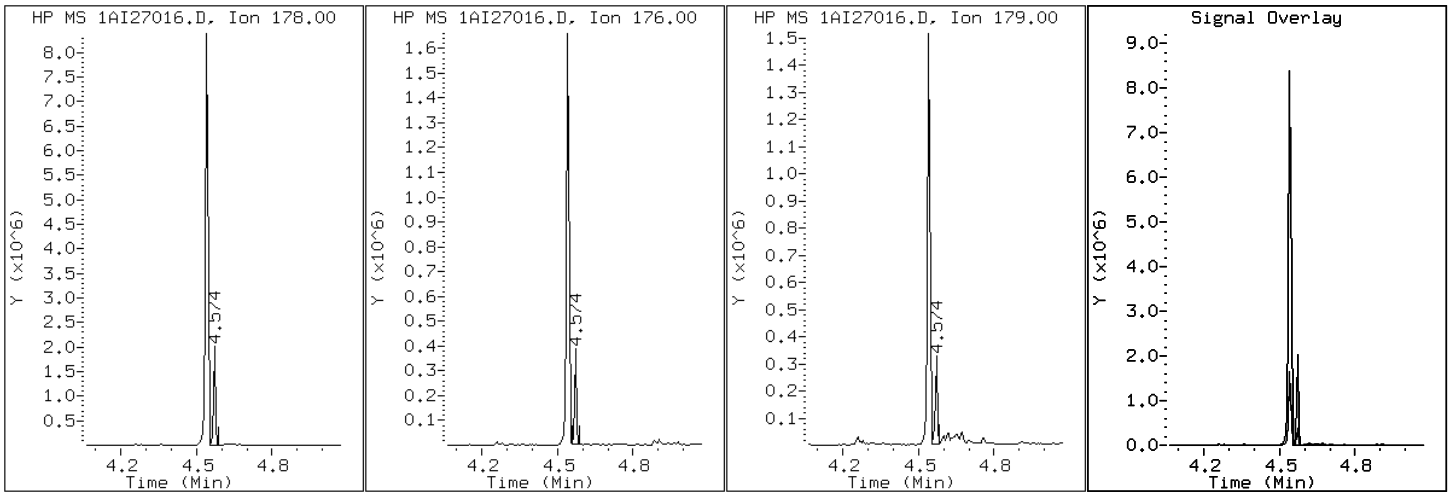
Data File: 1AI27016.D

Date: 27-SEP-2013 14:47

Client ID: WCWL-GP08D-0_2ft Instrument: BSMA5973.i

Sample Info: 680-94506-a-24-a Operator: SCC

13 Anthracene



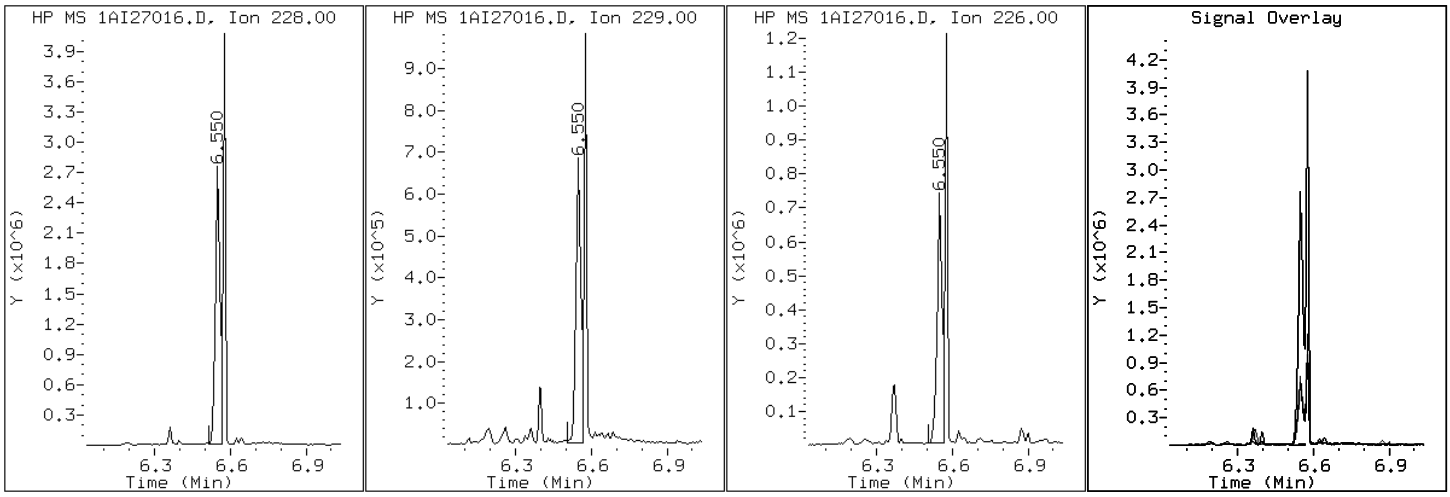
Data File: 1AI27016.D

Date: 27-SEP-2013 14:47

Client ID: WCWL-GP08D-0_2ft Instrument: BSMA5973.i

Sample Info: 680-94506-a-24-a Operator: SCC

18 Benzo(a)anthracene



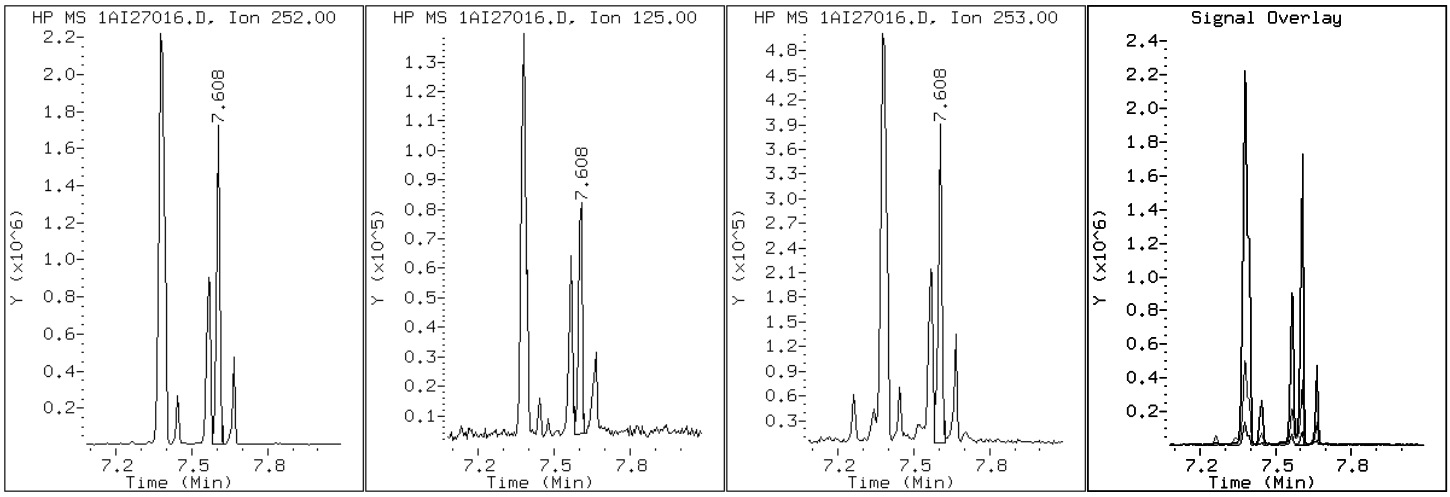
Data File: 1AI27016.D

Date: 27-SEP-2013 14:47

Client ID: WCWL-GP08D-0_2ft Instrument: BSMA5973.i

Sample Info: 680-94506-a-24-a Operator: SCC

23 Benzo(a)pyrene



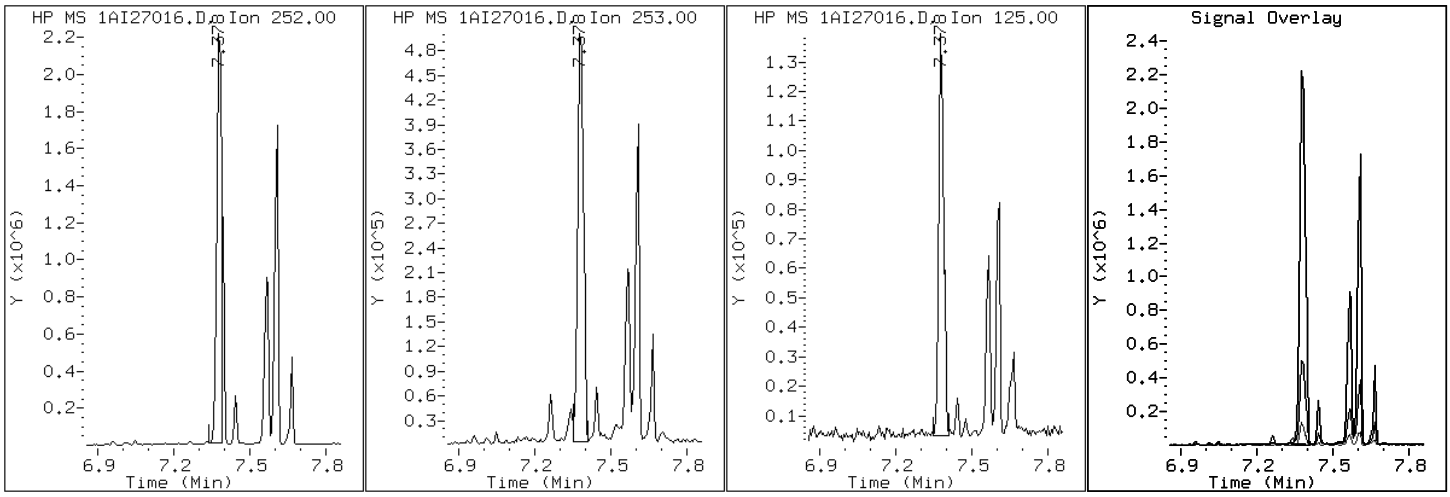
Data File: 1AI27016.D

Date: 27-SEP-2013 14:47

Client ID: WCWL-GP08D-0_2ft Instrument: BSMA5973.i

Sample Info: 680-94506-a-24-a Operator: SCC

21 Benzo(b)fluoranthene



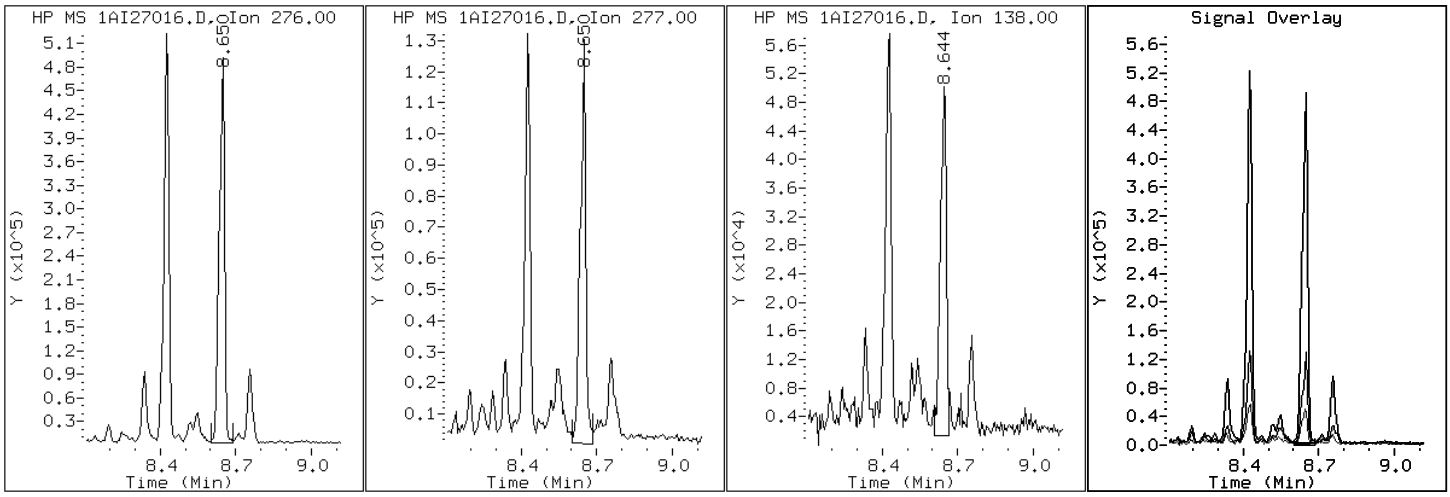
Data File: 1AI27016.D

Date: 27-SEP-2013 14:47

Client ID: WCWL-GP08D-0_2ft Instrument: BSMA5973.i

Sample Info: 680-94506-a-24-a Operator: SCC

27 Benzo(g,h,i)perylene



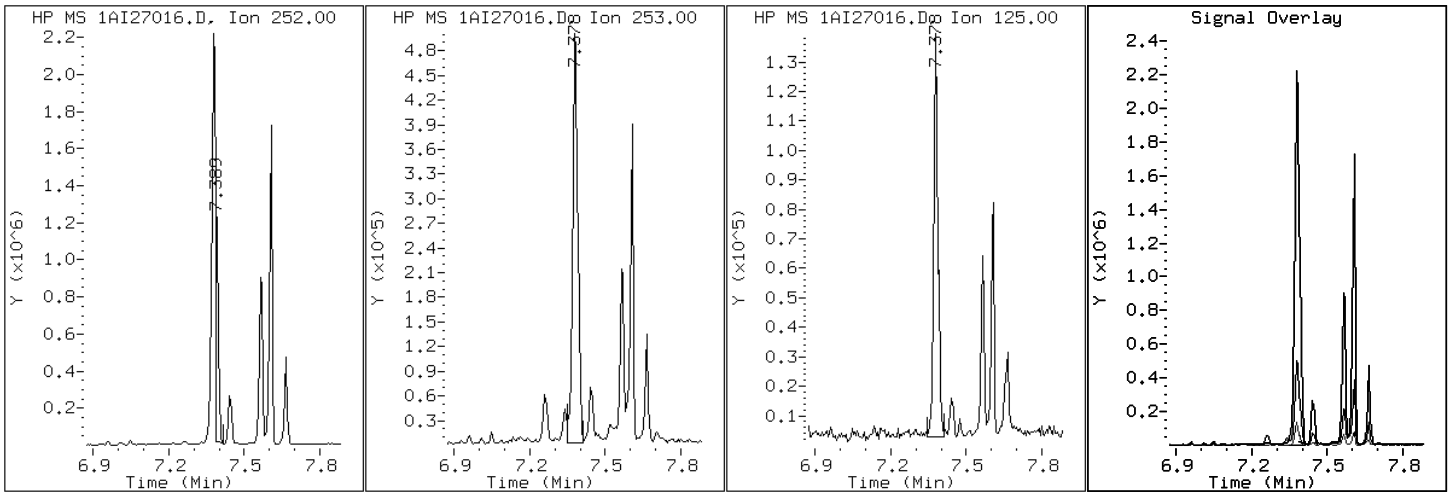
Data File: 1AI27016.D

Date: 27-SEP-2013 14:47

Client ID: WCWL-GP08D-0_2ft Instrument: BSMA5973.i

Sample Info: 680-94506-a-24-a Operator: SCC

22 Benzo(k)fluoranthene



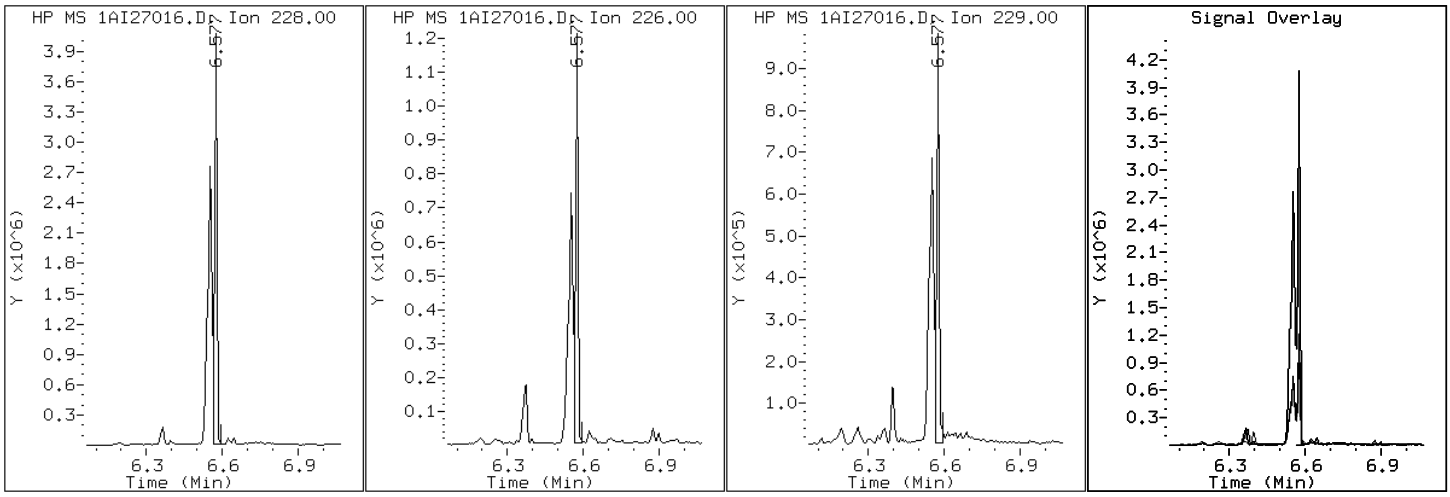
Data File: 1AI27016.D

Date: 27-SEP-2013 14:47

Client ID: WCWL-GP08D-0_2ft Instrument: BSMA5973.i

Sample Info: 680-94506-a-24-a Operator: SCC

20 Chrysene



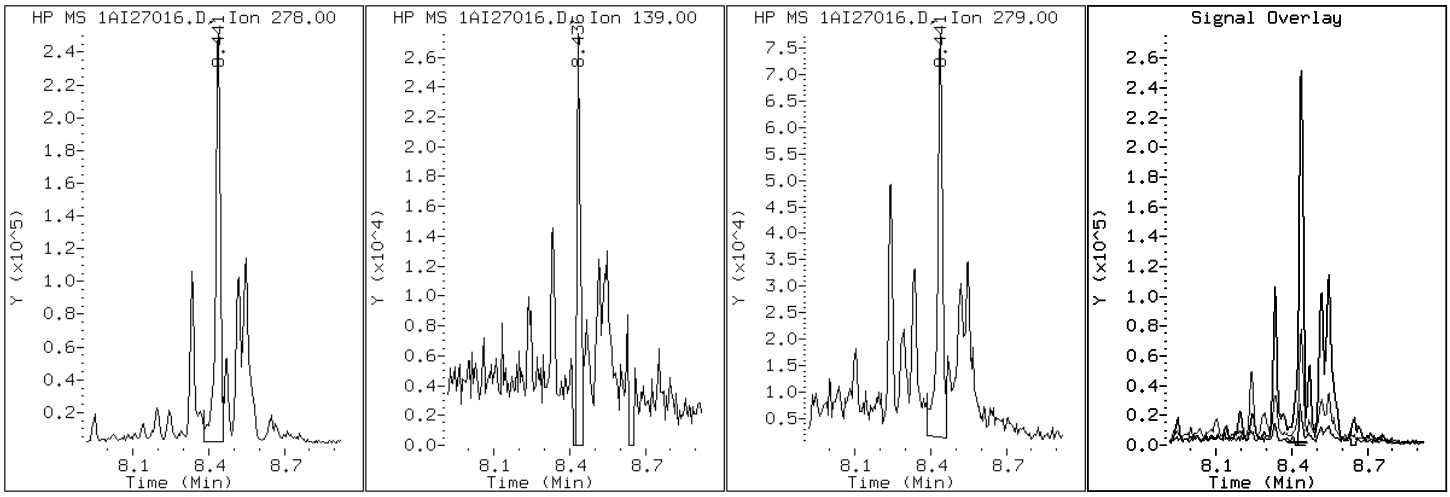
Data File: 1AI27016.D

Date: 27-SEP-2013 14:47

Client ID: WCWL-GP08D-0_2ft Instrument: BSMA5973.i

Sample Info: 680-94506-a-24-a Operator: SCC

26 Dibenzo(a,h)anthracene



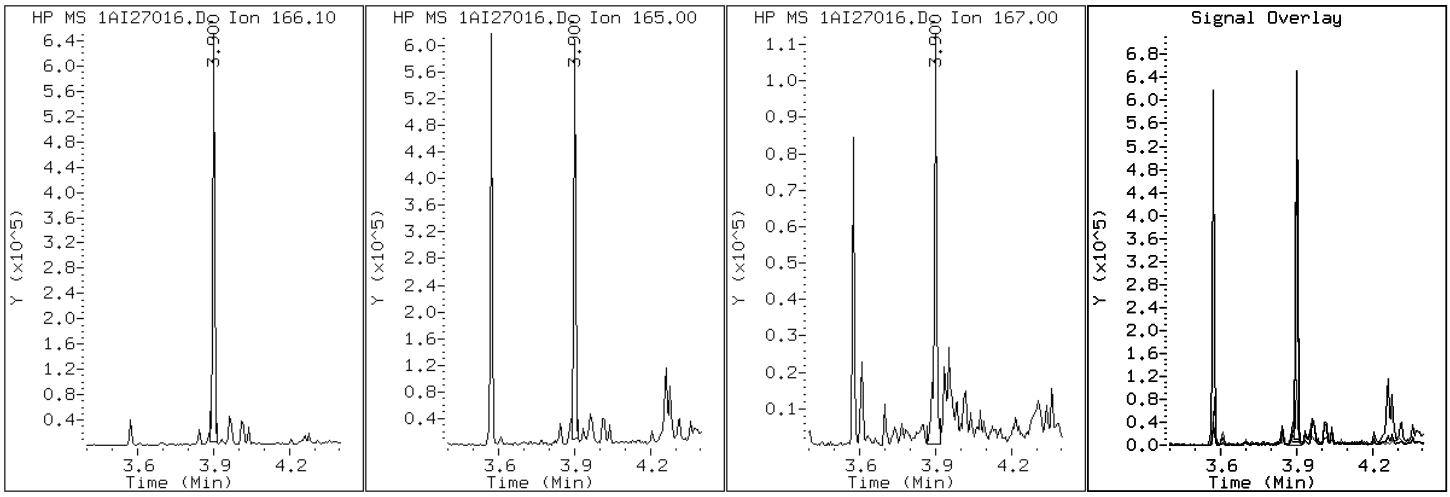
Data File: 1AI27016.D

Date: 27-SEP-2013 14:47

Client ID: WCWL-GP08D-0_2ft Instrument: BSMA5973.i

Sample Info: 680-94506-a-24-a Operator: SCC

10 Fluorene



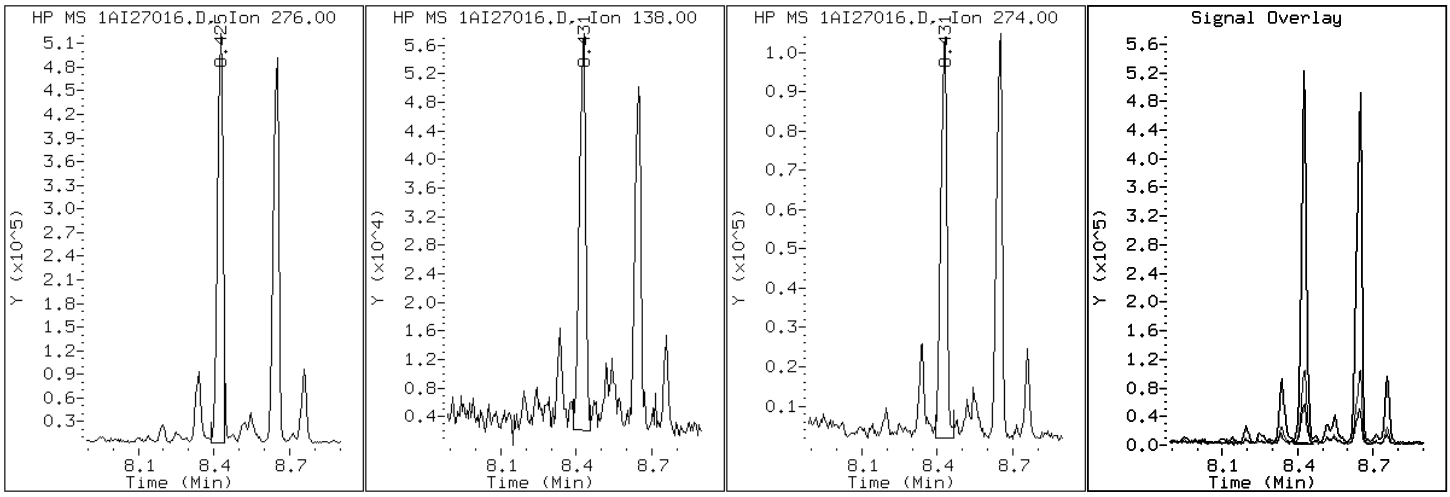
Data File: 1AI27016.D

Date: 27-SEP-2013 14:47

Client ID: WCWL-GP08D-0_2ft Instrument: BSMA5973.i

Sample Info: 680-94506-a-24-a Operator: SCC

25 Indeno(1,2,3-cd)pyrene



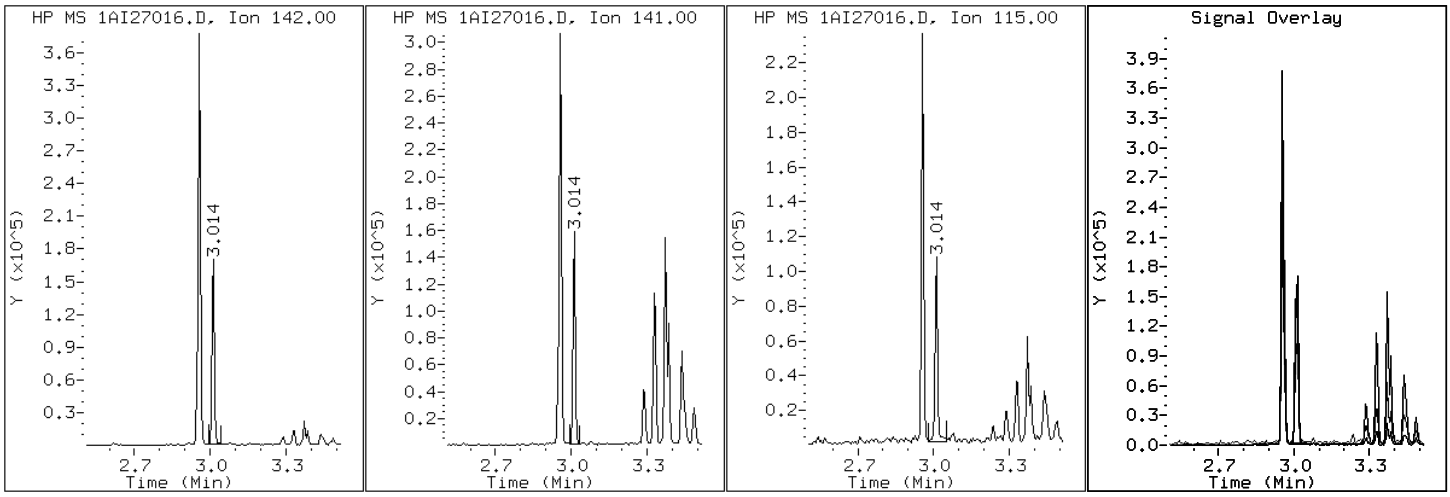
Data File: 1AI27016.D

Date: 27-SEP-2013 14:47

Client ID: WCWL-GP08D-0_2ft Instrument: BSMA5973.i

Sample Info: 680-94506-a-24-a Operator: SCC

4 1-Methylnaphthalene



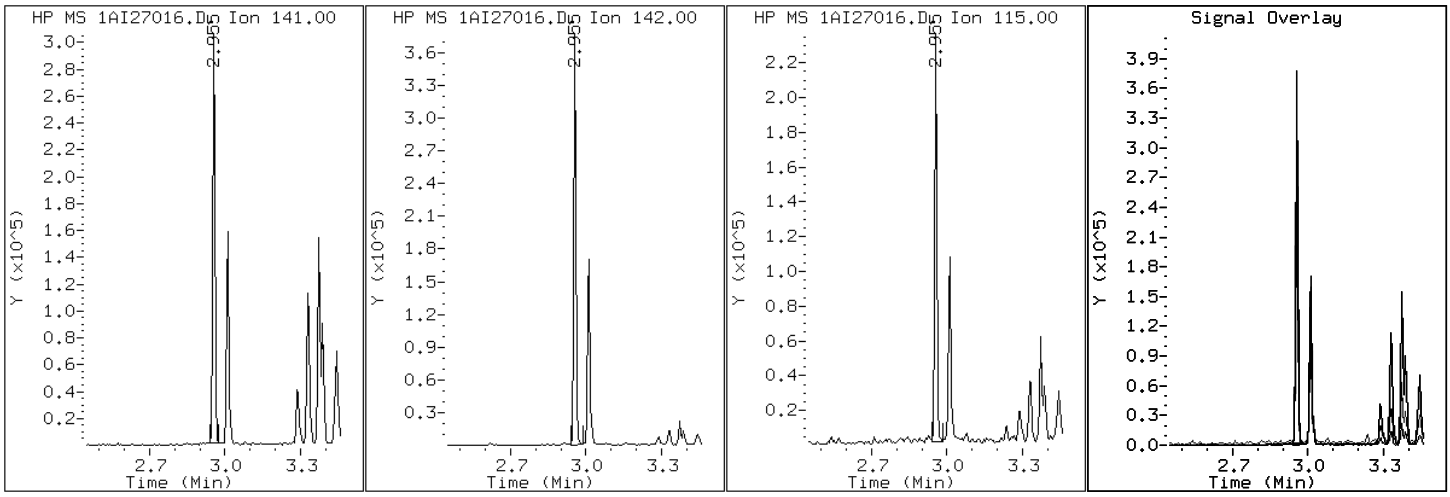
Data File: 1AI27016.D

Date: 27-SEP-2013 14:47

Client ID: WCWL-GP08D-0_2ft Instrument: BSMA5973.i

Sample Info: 680-94506-a-24-a Operator: SCC

3 2-Methylnaphthalene



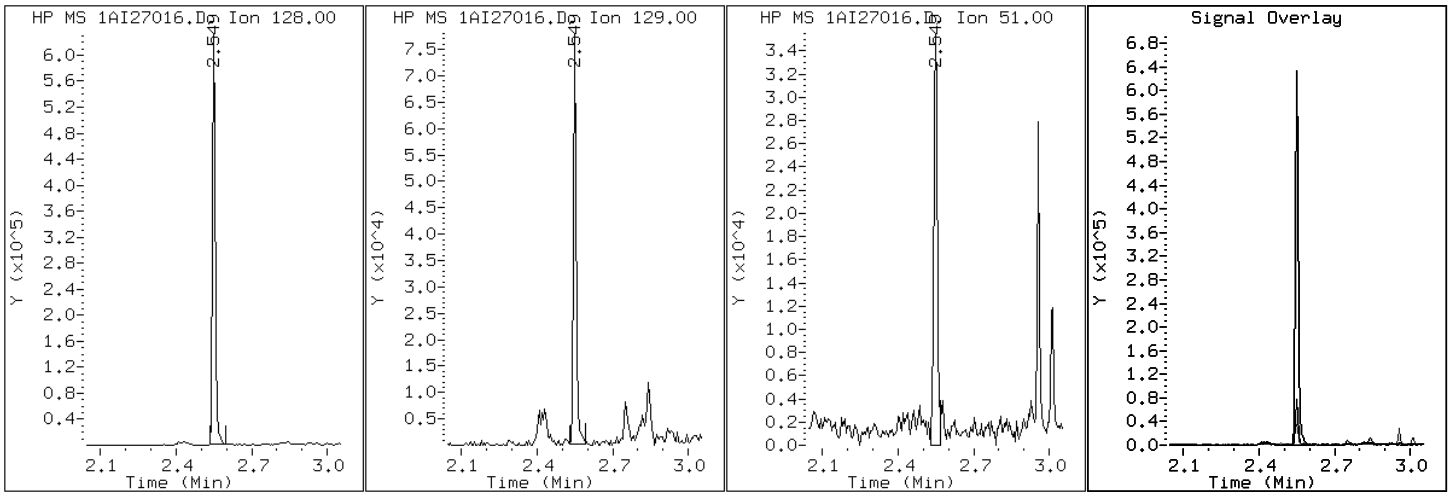
Data File: 1AI27016.D

Date: 27-SEP-2013 14:47

Client ID: WCWL-GP08D-0_2ft Instrument: BSMA5973.i

Sample Info: 680-94506-a-24-a Operator: SCC

2 Naphthalene



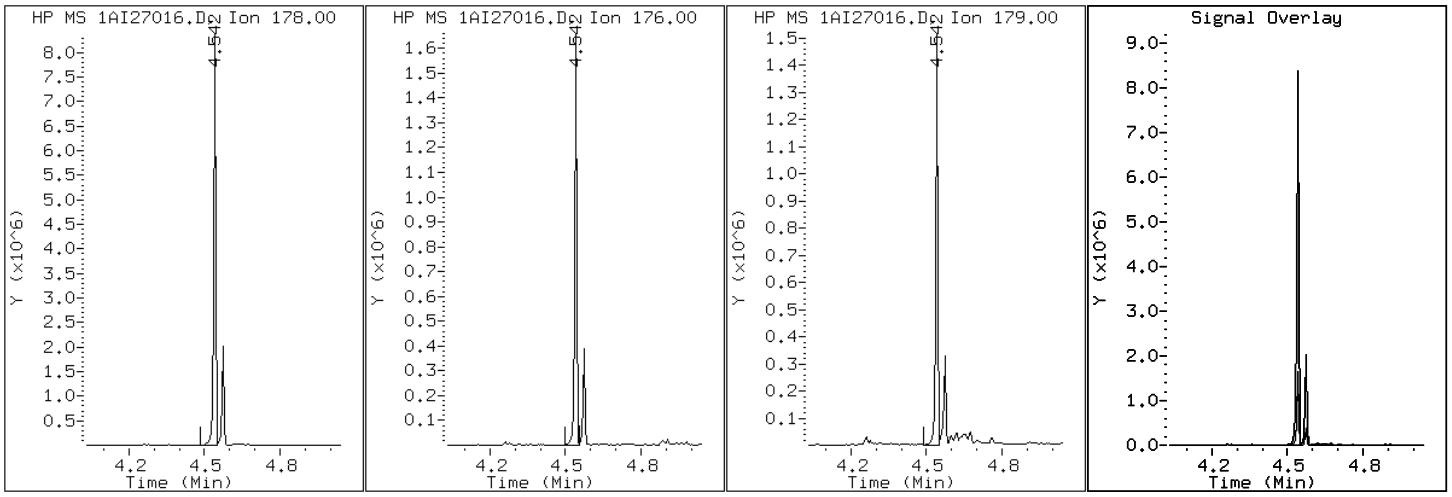
Data File: 1AI27016.D

Date: 27-SEP-2013 14:47

Client ID: WCWL-GP08D-0_2ft Instrument: BSMA5973.i

Sample Info: 680-94506-a-24-a Operator: SCC

12 Phenanthrene



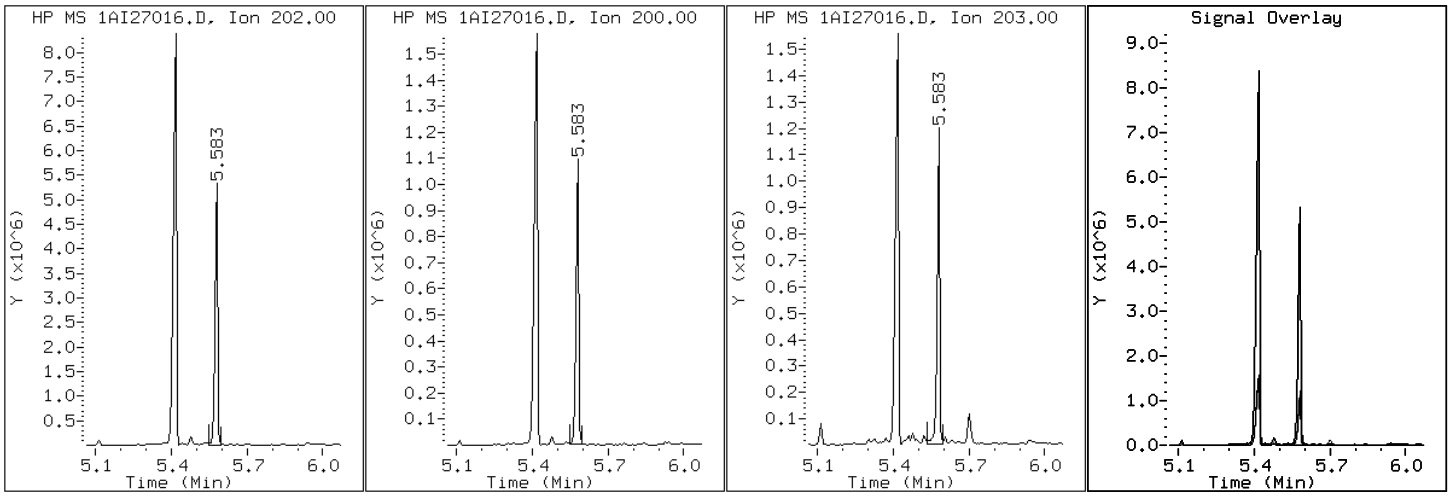
Data File: 1AI27016.D

Date: 27-SEP-2013 14:47

Client ID: WCWL-GP08D-0_2ft Instrument: BSMA5973.i

Sample Info: 680-94506-a-24-a Operator: SCC

17 Pyrene



Manual Integration Report

Data File: 1AI27016.D
Inj. Date and Time: 27-SEP-2013 14:47
Instrument ID: BSMA5973.i
Client ID: WCWL-GP08D-0_2ft
Compound: 21 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 09/27/2013

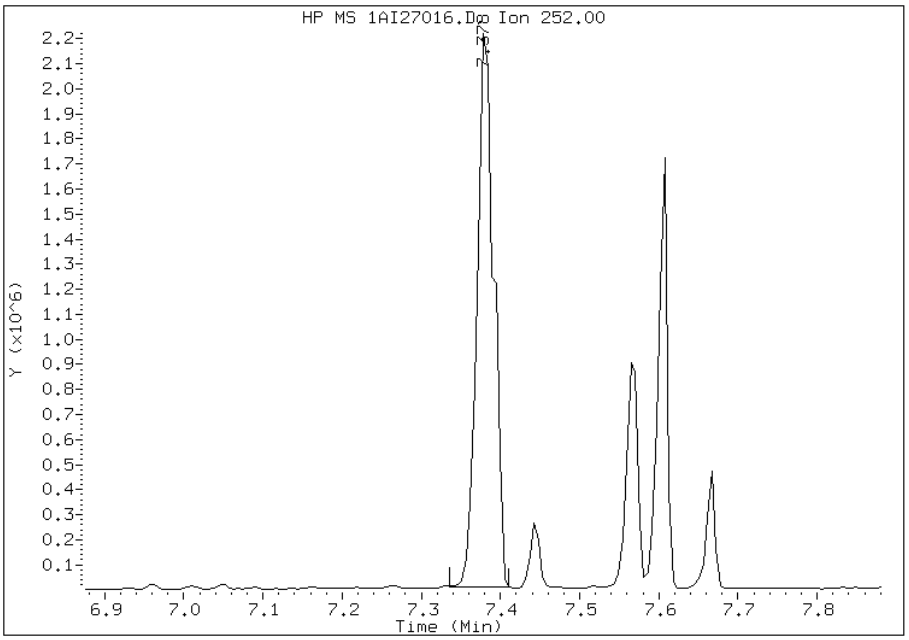
Processing Integration Results

RT: 7.38

Response: 3185846

Amount: 40

Conc: 10624



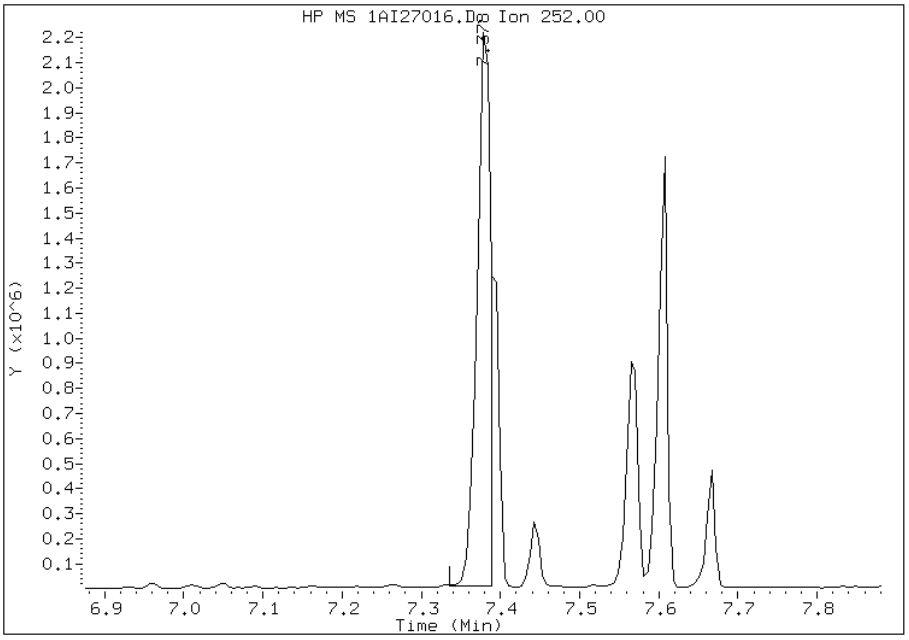
Manual Integration Results

RT: 7.38

Response: 2620650

Amount: 35

Conc: 9227



Manually Integrated By: cantins
Modification Date: 27-Sep-2013 15:09
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AI27016.D
Inj. Date and Time: 27-SEP-2013 14:47
Instrument ID: BSMA5973.i
Client ID: WCWL-GP08D-0_2ft
Compound: 22 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 09/27/2013

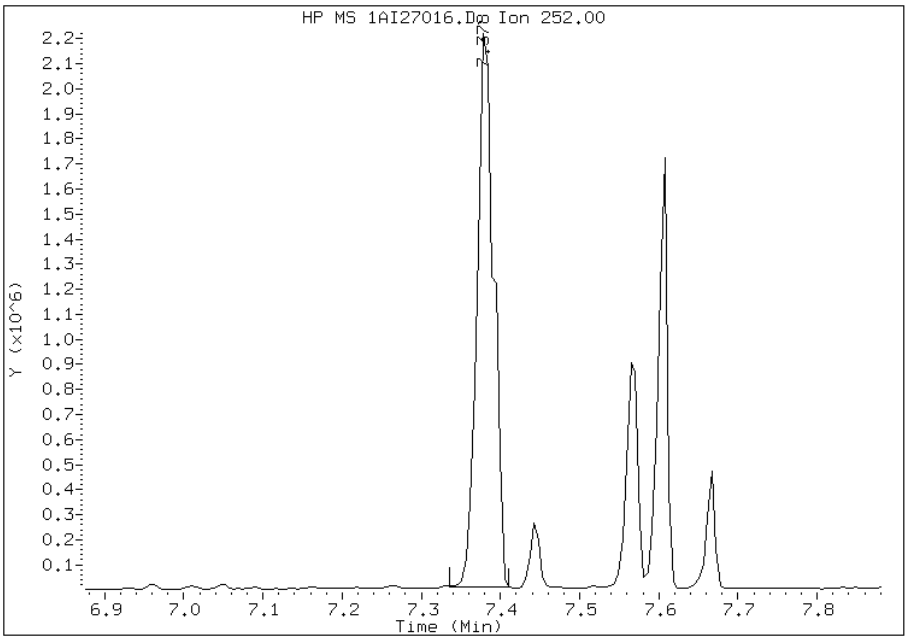
Processing Integration Results

RT: 7.38

Response: 3186091

Amount: 38

Conc: 10060



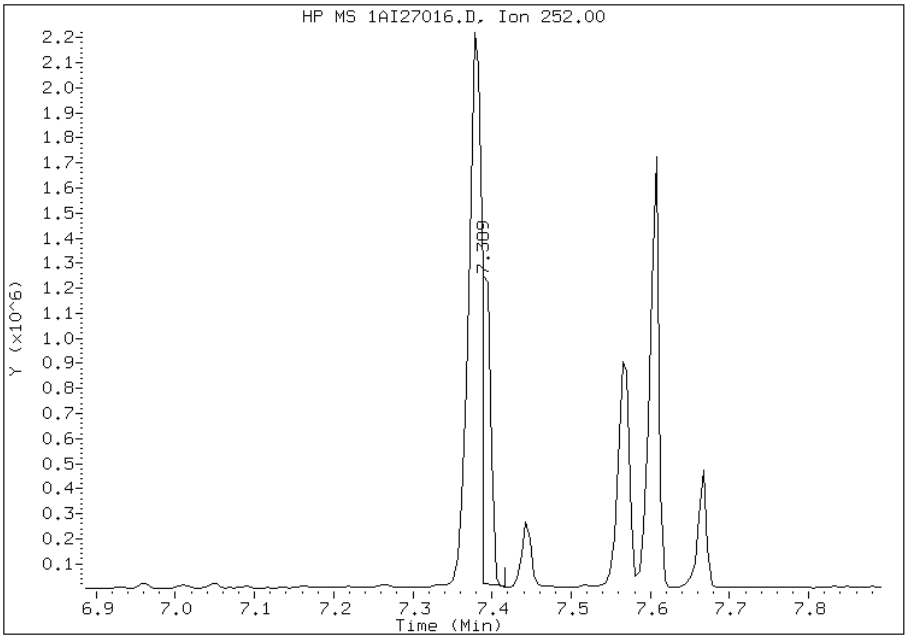
Manual Integration Results

RT: 7.39

Response: 950190

Amount: 14

Conc: 3669



Manually Integrated By: cantins
Modification Date: 27-Sep-2013 15:09
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AI27016.D
Inj. Date and Time: 27-SEP-2013 14:47
Instrument ID: BSMA5973.i
Client ID: WCWL-GP08D-0_2ft
Compound: 25 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 09/27/2013

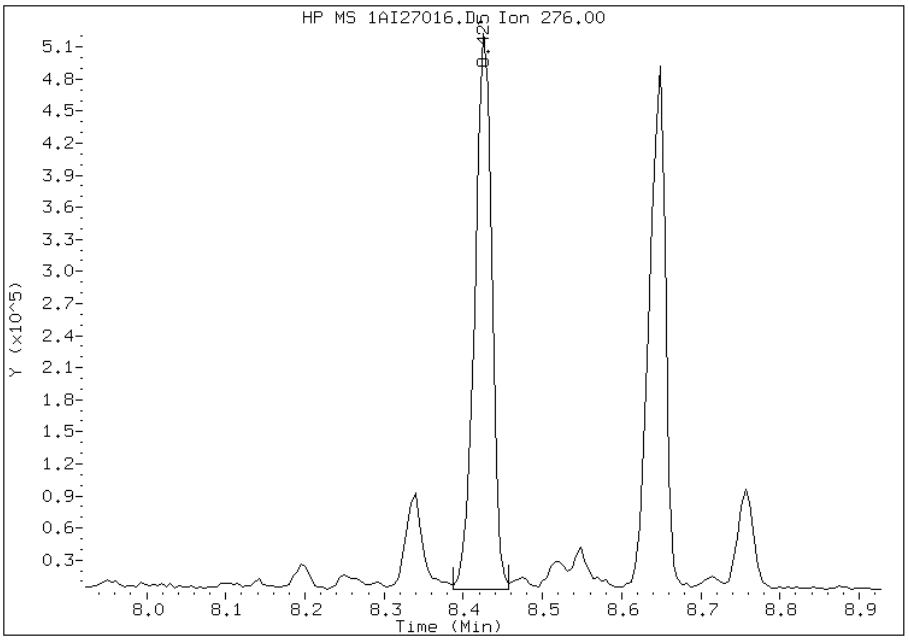
Processing Integration Results

RT: 8.43

Response: 769184

Amount: 14

Conc: 3699



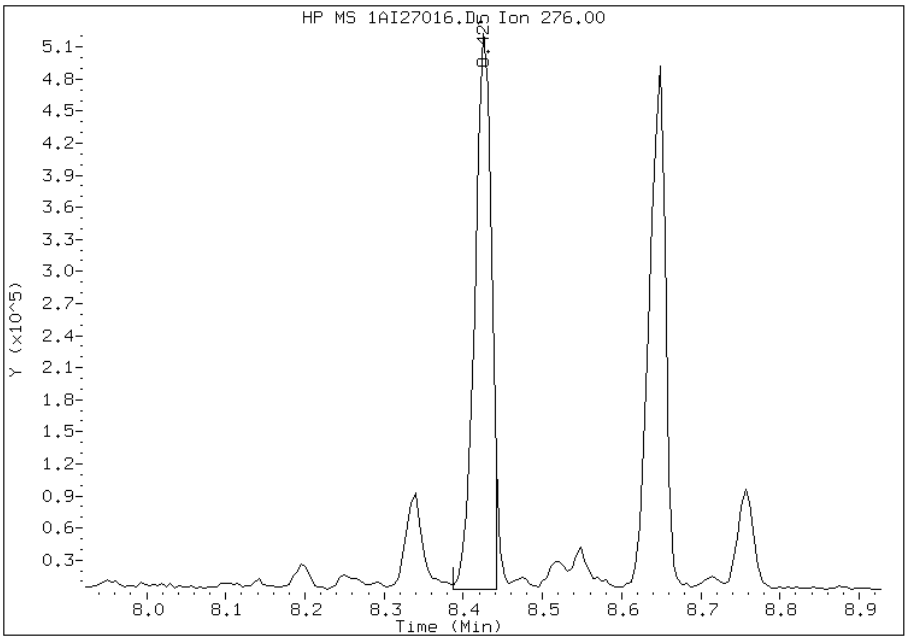
Manual Integration Results

RT: 8.43

Response: 752108

Amount: 14

Conc: 3617



Manually Integrated By: cantins
Modification Date: 27-Sep-2013 15:09
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-94506-2

SDG No.: 680-94506-2

Client Sample ID: WCWL-GP08D-0_2ft DL | Lab Sample ID: 680-94506-24 DL

Matrix: Solid | Lab File ID: 1AI27018.D

Analysis Method: 8270C LL | Date Collected: 09/18/2013 17:30

Extract. Method: 3546 | Date Extracted: 09/25/2013 09:48

Sample wt/vol: 14.97(g) | Date Analyzed: 09/27/2013 16:22

Con. Extract Vol.: 1(mL) | Dilution Factor: 20

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 5.8 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 141824 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
206-44-0	Fluoranthene	16000		430	85

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A092713_pahIC.b\1AI27018.D
Lab Smp Id: 680-94506-A-24-A Client Smp ID: WCWL-GP08D-0_2ft
Inj Date : 27-SEP-2013 16:22
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-94506-a-24-a
Misc Info : 680-94506-A-24-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A092713_pahIC.b\a-bFASTPAHi-m.m
Meth Date : 27-Sep-2013 13:48 BSMA5973.i Quant Type: ISTD
Cal Date : 27-SEP-2013 13:01 Cal File: 1AI27009.D
Als bottle: 15
Dil Factor: 20.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:
Amt * DF * 1/Vi * Vt/Ws * 100/(100 - M) * A * B * C * D * GPC * CpndVariable

Name	Value	Description
DF	20.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.970	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	2.539	2.538	(1.000)	2472384	40.0000	
* 7 Acenaphthene-d10	164	3.570	3.569	(1.000)	2284871	40.0000	
* 11 Phenanthrene-d10	188	4.521	4.520	(1.000)	3275062	40.0000	
* 19 Chrysene-d12	240	6.551	6.545	(1.000)	3106988	40.0000	
* 24 Perylene-d12	264	7.640	7.635	(1.000)	2127165	40.0000	
2 Naphthalene	128	2.549	2.549	(1.004)	103974	2.22835	2977.0826
3 2-Methylnaphthalene	141	2.955	2.955	(1.164)	45204	2.32819	3110.4797
4 1-Methylnaphthalene	142	3.009	3.014	(1.185)	25257	1.52852	2042.1094
6 Acenaphthylene	152	3.479	3.478	(0.975)	68722	2.15520	2879.3524
8 Acenaphthene	154	3.586	3.585	(1.004)	18563	1.71097	2285.8695
10 Fluorene	166	3.901	3.900	(1.093)	75407	2.64836	3538.2251
12 Phenanthrene	178	4.537	4.536	(1.004)	542202	9.49426	12684.3827
13 Anthracene	178	4.569	4.568	(1.011)	182492	4.23188	5653.8133
16 Fluoranthene	202	5.402	5.402	(1.195)	691486	11.0358	14743.8605

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
17 Pyrene	202	5.568	5.567	(0.850)	473138	8.80239	11760.0396
18 Benzo(a)anthracene	228	6.545	6.534	(0.999)	519974	7.58613	10135.1098
20 Chrysene	228	6.561	6.566	(1.002)	302168	5.84240	7805.4770
21 Benzo(b)fluoranthene	252	7.363	7.357	(0.964)	294366	7.10415	9491.1878(M)
22 Benzo(k)fluoranthene	252	7.379	7.378	(0.966)	100374	2.80214	3743.6712(QM)
23 Benzo(a)pyrene	252	7.587	7.586	(0.993)	157368	4.39787	5875.5844
25 Indeno(1,2,3-cd)pyrene	276	8.404	8.398	(1.100)	99798	2.66662	3562.6223(M)
26 Dibenzo(a,h)anthracene	278	8.420	8.420	(1.102)	39645	1.53533	2051.2032
27 Benzo(g,h,i)perylene	276	8.618	8.612	(1.128)	99314	2.94598	3935.8489

QC Flag Legend

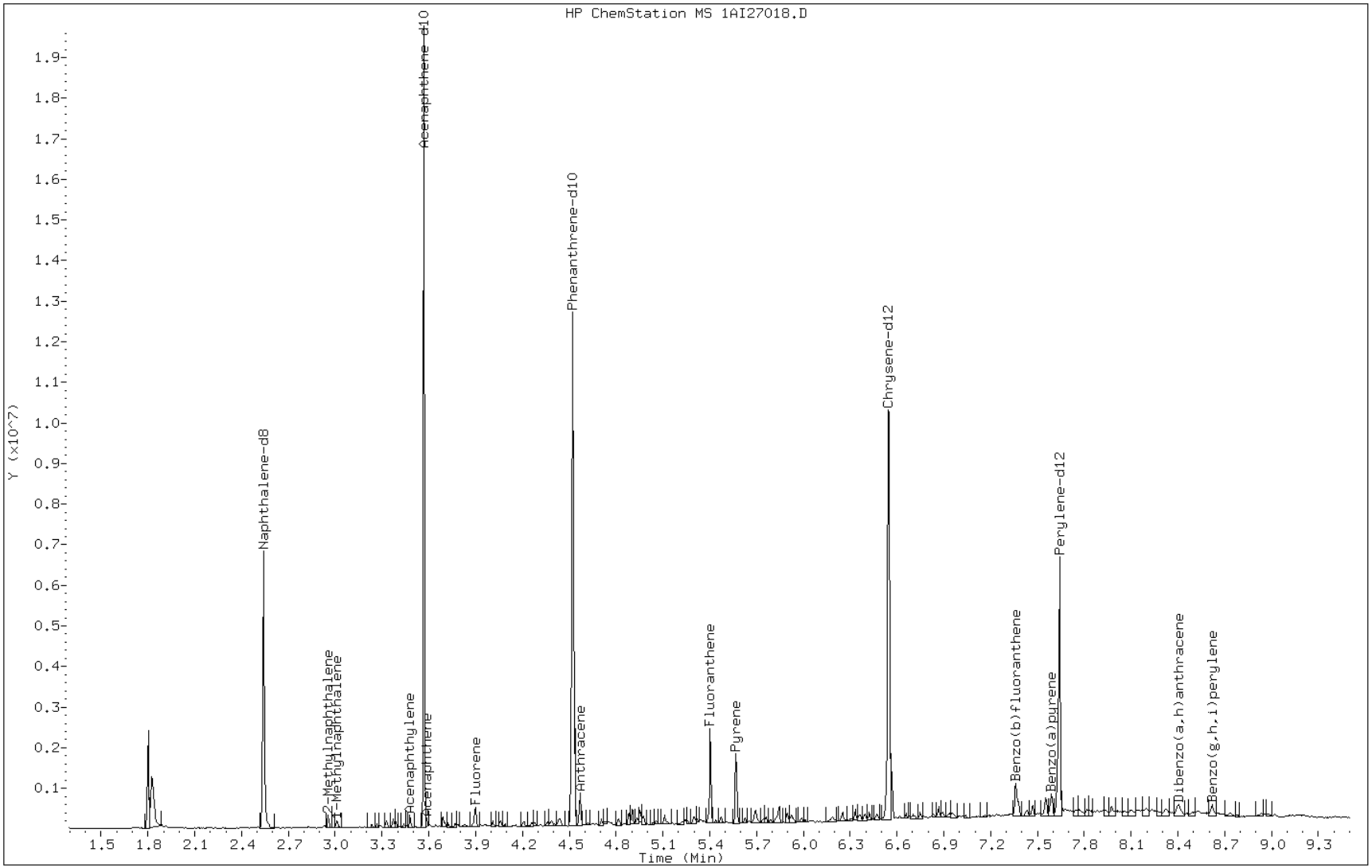
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1AI27018.D

Date: 27-SEP-2013 16:22

Client ID: WCWL-GP08D-0_2ft Instrument: BSMA5973.i

Sample Info: 680-94506-a-24-a Operator: SCC



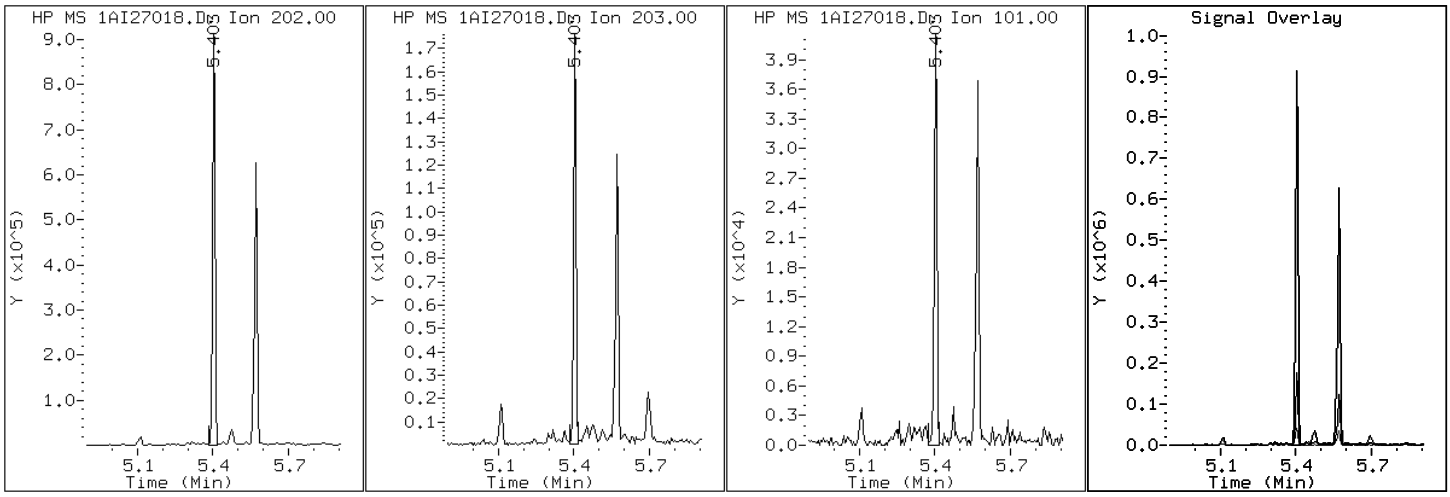
Data File: 1AI27018.D

Date: 27-SEP-2013 16:22

Client ID: WCWL-GP08D-0_2ft Instrument: BSMA5973.i

Sample Info: 680-94506-a-24-a Operator: SCC

16 Fluoranthene



FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Tampa Job No.: 680-94506-2 Analy Batch No.: 141781

SDG No.: 680-94506-2

Instrument ID: BSMA5973 GC Column: DB-5MS ID: 250(um) Heated Purge: (Y/N) N

Calibration Start Date: 09/26/2013 12:30 Calibration End Date: 09/26/2013 14:01 Calibration ID: 3516

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 660-141781/3	1AI26003.D
Level 2	IC 660-141781/4	1AI26004.D
Level 3	IC 660-141781/5	1AI26005.D
Level 4	IC 660-141781/6	1AI26006.D
Level 5	ICIS 660-141781/7	1AI26007.D
Level 6	IC 660-141781/8	1AI26008.D
Level 7	IC 660-141781/9	1AI26009.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Naphthalene	0.6968 0.8696	0.6639 0.9786	0.6583	0.6631	0.7620	Qua	0.0124	1.3475	-0.278		0.0000				0.9988		0.9900
2-Methylnaphthalene	0.3036 0.5043	0.3156 0.5938	0.3488	0.3612	0.4038	Qua	0.0181	2.4271	-1.046		0.0000				0.9972		0.9900
1-Methylnaphthalene	0.3361 0.5501	0.3959 0.7378	0.4047	0.4013	0.4489	Qua	0.0132	2.2708	-1.013		0.0000				0.9982		0.9900
1,1'-Biphenyl	0.5474 0.7313	0.5337 1.0590	0.5228	0.5380	0.6411	Qua	0.0125	1.6795	-0.564						0.9992		
Acenaphthylene	0.7318 1.2755	0.8324 1.8421	0.9119	0.9308	1.0959	Qua	0.0140	0.9666	-0.187		0.0000				0.9991		0.9900
Acenaphthene	0.6680 0.7700	0.4358 1.2205	0.5039	0.5294	0.6479	Qua	0.0192	1.6047	-0.524		0.0000				0.9984		0.9900
Dibenzofuran	0.6943 1.2406	0.7196 1.7976	0.8310	0.8442	0.9426	Qua	0.0211	1.0215	-0.212						0.9963		
Fluorene	0.5625 0.9793	0.5959 1.3511	0.6604	0.6771	0.8128	Qua	0.0186	1.2633	-0.317		0.0000				0.9982		0.9900
Phenanthrene	0.6444 0.9432	0.5150 1.2299	0.5587	0.5791	0.7314	Qua	0.0279	1.3195	-0.344		0.0000				0.9956		0.9900
Anthracene	0.5572 0.8725	0.5400 1.2431	0.5529	0.5971	0.7173	Qua	0.0204	1.4215	-0.407		0.0000				0.9980		0.9900
Fluoranthene	0.5867 0.9677	0.6327 1.3111	0.6685	0.6761	0.7940	Qua	0.0172	1.2840	-0.326		0.0000				0.9981		0.9900
Pyrene	0.5713 0.8194	0.7183 0.9720	0.7050	0.6748	0.7602	Qua	0.0039	1.4299	-0.334		0.0000				0.9998		0.9900
Benzo[a]anthracene	1.5348 0.8866	1.0247 0.9547	0.8817	0.9001	0.8706	Lin1	-0.003	0.9117							0.9981		
Chrysene	0.7796 0.7283	0.7141 0.8500	0.6737	0.5937	0.6682	Ave		0.7154			0.0000	11.6		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Tampa Job No.: 680-94506-2 Analy Batch No.: 141781

SDG No.: 680-94506-2

Instrument ID: BSMA5973 GC Column: DB-5MS ID: 250(um) Heated Purge: (Y/N) N

Calibration Start Date: 09/26/2013 12:30 Calibration End Date: 09/26/2013 14:01 Calibration ID: 3516

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Benzo[b]fluoranthene	0.7215 0.9114	0.7684 1.1261	0.8979	0.8636	0.9660	Ave		0.8935			0.0000	14.9		15.0			
Benzo[k]fluoranthene	0.9801 1.0537	0.7227 1.2256	0.7707	0.8321	0.8835	Qua	0.0116	1.1431	-0.221		0.0000				0.9986		0.9900
Benzo[a]pyrene	0.7429 0.8607	0.6406 0.9954	0.7151	0.7511	0.8016	Ave		0.7868			0.0000	14.6		15.0			
Indeno[1,2,3-cd]pyrene	0.7908 0.8174	0.6404 0.8897	0.7072	0.7895	0.7831	Ave		0.7740			0.0000	10.3		15.0			
Dibenz(a,h)anthracene	0.6647 0.8012	0.7041 0.9475	0.6890	0.7348	0.7584	Ave		0.7571			0.0000	12.6		15.0			
Benzo[g,h,i]perylene	0.7525 0.7813	0.6376 0.8260	0.6811	0.7198	0.7480	Ave		0.7352			0.0000	8.5		15.0			
o-Terphenyl	0.3121 0.6173	0.3168 0.9015	0.3535	0.3868	0.4916	Qua	0.0279	2.0102	-0.825		0.0000				0.9966		0.9900

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Tampa Job No.: 680-94506-2 Analy Batch No.: 141781

SDG No.: 680-94506-2

Instrument ID: BSMA5973 GC Column: DB-5MS ID: 250(um) Heated Purge: (Y/N) N

Calibration Start Date: 09/26/2013 12:30 Calibration End Date: 09/26/2013 14:01 Calibration ID: 3516

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 660-141781/3	1AI26003.D
Level 2	IC 660-141781/4	1AI26004.D
Level 3	IC 660-141781/5	1AI26005.D
Level 4	IC 660-141781/6	1AI26006.D
Level 5	ICIS 660-141781/7	1AI26007.D
Level 6	IC 660-141781/8	1AI26008.D
Level 7	IC 660-141781/9	1AI26009.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Naphthalene	NPT	Qua	8078 1149456	28612 2338827	137053	280824	752989	0.200 30.0	1.00 50.0	5.00	10.0	20.0
2-Methylnaphthalene	NPT	Qua	3519 666588	13604 1419098	72611	152995	399019	0.200 30.0	1.00 50.0	5.00	10.0	20.0
1-Methylnaphthalene	NPT	Qua	3896 727189	17063 1763385	84251	169949	443570	0.200 30.0	1.00 50.0	5.00	10.0	20.0
1,1'-Biphenyl	NPT	Qua	6346 966656	23002 2530909	108852	227850	633483	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Acenaphthylene	ANT	Qua	6053 1187882	26700 2677365	133405	283126	780656	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Acenaphthene	ANT	Qua	5525 717129	13978 1773929	73715	161015	461577	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Dibenzofuran	ANT	Qua	5743 1155356	23081 2612705	121569	256780	671447	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Fluorene	ANT	Qua	4653 912068	19113 1963734	96613	205945	579039	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Phenanthrene	PHN	Qua	8237 1328222	25564 2794126	136799	289133	823351	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Anthracene	PHN	Qua	7123 1228719	26803 2824046	135374	298084	807433	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Fluoranthene	PHN	Qua	7499 1362821	31408 2978471	163681	337513	893865	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Pyrene	CRY	Qua	6509 1367118	31168 2943623	154074	336922	899744	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[a]anthracene	CRY	Lin1	17487 1479350	44465 2891041	192713	449425	1030503	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Chrysene	CRY	Ave	8883 1215081	30989 2574004	147237	296441	790868	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[b]fluoranthene	PRY	Ave	6711 1079623	29394 2288025	161827	324452	833677	0.200 30.0	1.00 50.0	5.00	10.0	20.0

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Tampa Job No.: 680-94506-2 Analy Batch No.: 141781

SDG No.: 680-94506-2

Instrument ID: BSMA5973 GC Column: DB-5MS ID: 250(um) Heated Purge: (Y/N) N

Calibration Start Date: 09/26/2013 12:30 Calibration End Date: 09/26/2013 14:01 Calibration ID: 3516

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Benzo[k]fluoranthene	PRY	Qua	9117 1248158	27645 2490188	138913	312652	762467	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[a]pyrene	PRY	Ave	6910 1019521	24505 2022607	128882	282184	691794	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Indeno[1,2,3-cd]pyrene	PRY	Ave	7356 968206	24499 1807793	127452	296622	675887	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Dibenz(a,h)anthracene	PRY	Ave	6183 949063	26932 1925239	124181	276095	654579	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[g,h,i]perylene	PRY	Ave	7000 925526	24389 1678338	122748	270428	645568	0.200 30.0	1.00 50.0	5.00	10.0	20.0
o-Terphenyl	PHN	Qua	3990 869275	15728 2048020	86549	193131	553385	0.200 30.0	1.00 50.0	5.00	10.0	20.0

Curve Type Legend:

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD
Qua = Quadratic ISTD

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A092613.b\1AI26003.D
Lab Smp Id: IC-1591238
Inj Date : 26-SEP-2013 12:30
Operator : SCC Inst ID: BSMA5973.i
Smp Info : IC-1591238
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A092613.b\a-bFASTPAHi-m.m
Meth Date : 26-Sep-2013 14:34 BSMA5973.i Quant Type: ISTD
Cal Date : 26-SEP-2013 14:01 Cal File: 1AI26009.D
Als bottle: 3 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah+2.sub
Target Version: 4.14
Processing Host: TAM1000

						AMOUNTS	
	QUANT SIG					CAL-AMT	ON-COL
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/ml)	(ug/ml)
* 1 Naphthalene-d8	136	2.541	2.544	(1.000)	2318478	40.0000	
* 7 Acenaphthene-d10	164	3.572	3.575	(1.000)	1654293	40.0000	
* 11 Phenanthrene-d10	188	4.523	4.526	(1.000)	2556525	40.0000	
$ 15 o-Terphenyl	230	4.817	4.820	(1.065)	3990	0.20000	1.2430
* 19 Chrysene-d12	240	6.547	6.551	(1.000)	2278782	40.0000	
* 24 Perylene-d12	264	7.637	7.635	(1.000)	1860350	40.0000	
2 Naphthalene	128	2.551	2.555	(1.004)	8078	0.20000	0.6823
3 2-Methylnaphthalene	141	2.963	2.961	(1.166)	3519	0.20000	0.8711
4 1-Methylnaphthalene	142	3.011	3.014	(1.185)	3896	0.20000	0.6816
5 1,1'-Biphenyl	154	3.241	3.239	(1.275)	6346	0.20000	0.6820
6 Acenaphthylene	152	3.481	3.484	(0.975)	6053	0.20000	0.7013
8 Acenaphthene	154	3.588	3.591	(1.004)	5525	0.20000	0.9825
9 Dibenzofuran	168	3.695	3.698	(1.034)	5743	0.20000	0.9842
10 Fluorene	166	3.903	3.906	(1.093)	4653	0.20000	0.8854
12 Phenanthrene	178	4.533	4.542	(1.002)	8237	0.20000	1.2864
13 Anthracene	178	4.571	4.574	(1.011)	7123	0.20000	0.9735
16 Fluoranthene	202	5.404	5.408	(1.195)	7499	0.20000	0.8392
17 Pyrene	202	5.570	5.573	(0.851)	6509	0.20000	0.3206
18 Benzo(a)anthracene	228	6.542	6.540	(0.999)	17487	0.20000	0.2216
20 Chrysene	228	6.563	6.567	(1.002)	8883	0.20000	0.2179
21 Benzo(b)fluoranthene	252	7.359	7.363	(0.964)	6711	0.20000	0.1614
22 Benzo(k)fluoranthene	252	7.381	7.384	(0.966)	9117	0.20000	0.6892
23 Benzo(a)pyrene	252	7.584	7.587	(0.993)	6910	0.20000	0.1888
25 Indeno(1,2,3-cd)pyrene	276	8.390	8.398	(1.099)	7356	0.20000	0.2043(M)
26 Dibenzo(a,h)anthracene	278	8.412	8.420	(1.101)	6183	0.20000	0.1755
27 Benzo(g,h,i)perylene	276	8.604	8.618	(1.127)	7000	0.20000	0.2047

QC Flag Legend

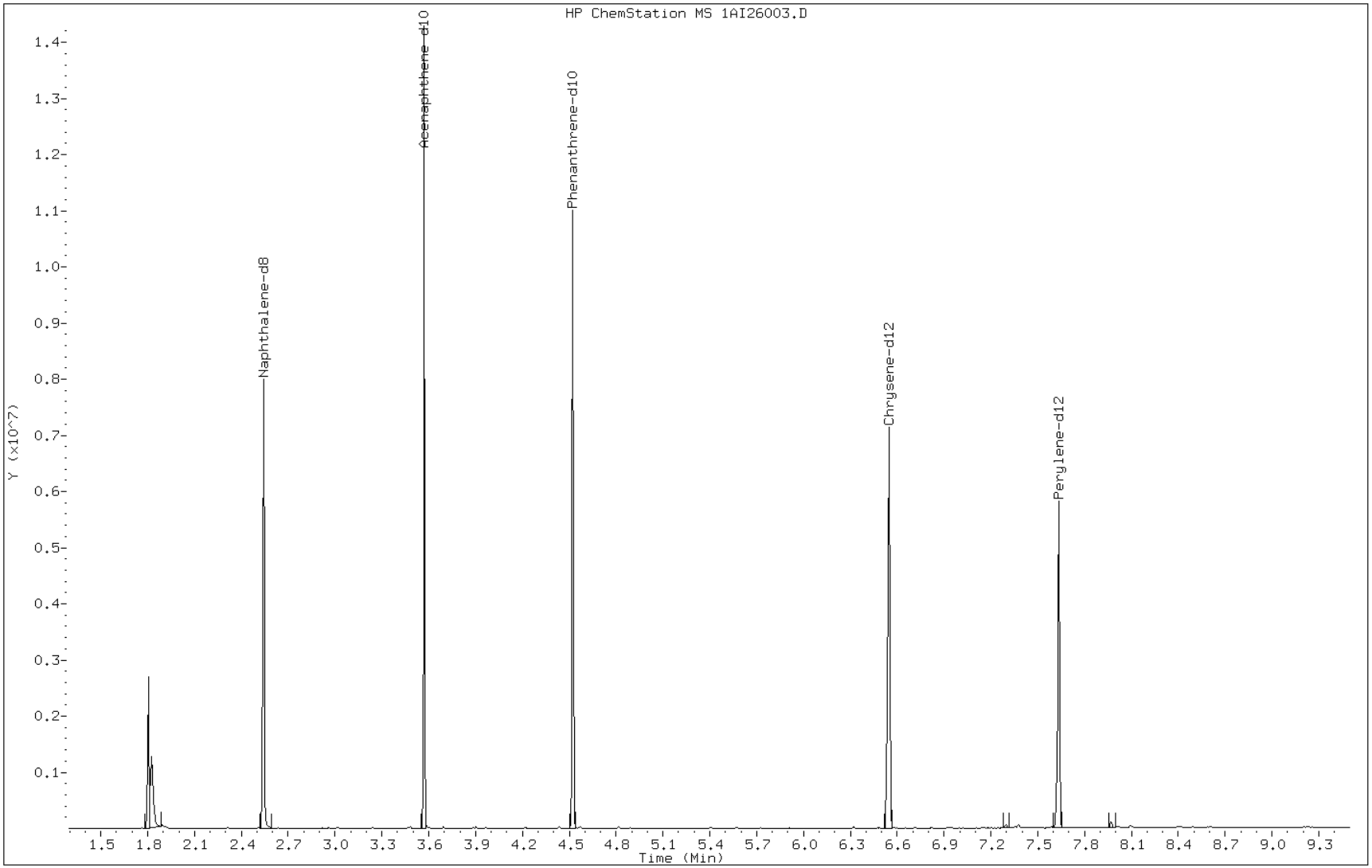
M - Compound response manually integrated.

Data File: 1AI26003.D

Date: 26-SEP-2013 12:30

Client ID: Instrument: BSMA5973.i

Sample Info: IC-1591238 Operator: SCC



Manual Integration Report

Data File: 1AI26003.D
Inj. Date and Time: 26-SEP-2013 12:30
Instrument ID: BSMA5973.i
Client ID:
Compound: 25 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 09/26/2013

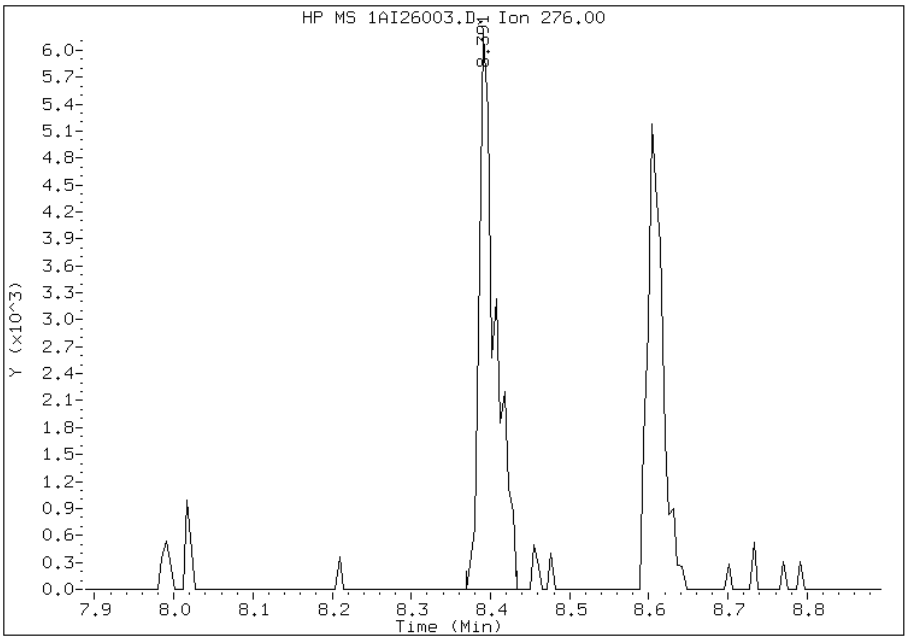
Processing Integration Results

RT: 8.39

Response: 8693

Amount: 0

Conc: 0



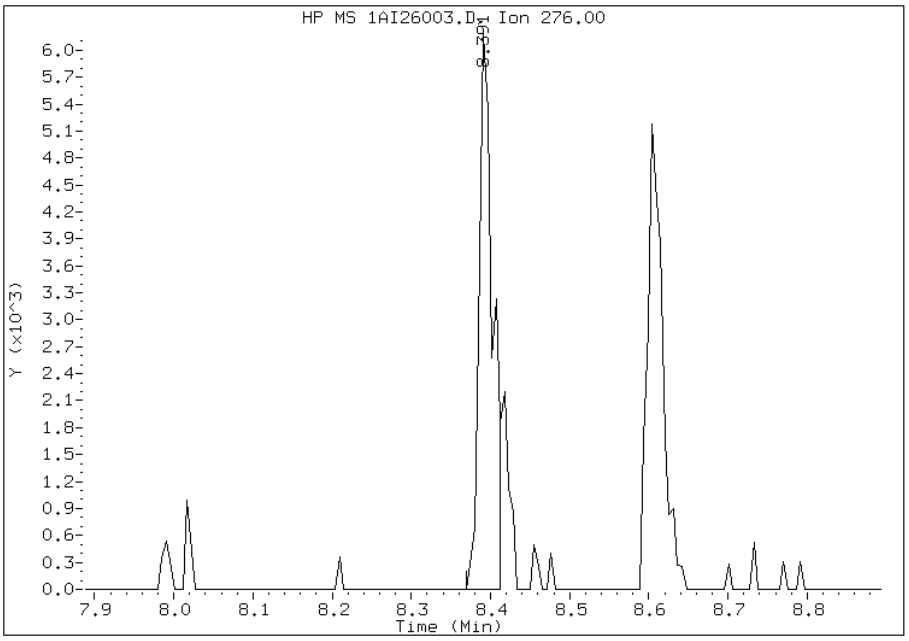
Manual Integration Results

RT: 8.39

Response: 7356

Amount: 0

Conc: 0



Manually Integrated By: cantins
Modification Date: 26-Sep-2013 14:24
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A092613.b\1AI26004.D
Lab Smp Id: IC-1591239
Inj Date : 26-SEP-2013 12:45
Operator : SCC Inst ID: BSMA5973.i
Smp Info : IC-1591239
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A092613.b\a-bFASTPAHi-m.m
Meth Date : 26-Sep-2013 14:34 BSMA5973.i Quant Type: ISTD
Cal Date : 26-SEP-2013 12:30 Cal File: 1AI26003.D
Als bottle: 4 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah+2.sub
Target Version: 4.14
Processing Host: TAM1000

						AMOUNTS	
	QUANT SIG					CAL-AMT	ON-COL
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/ml)	(ug/ml)
* 1 Naphthalene-d8	136	2.543	2.544	(1.000)	1723978	40.0000	
* 7 Acenaphthene-d10	164	3.574	3.575	(1.000)	1283039	40.0000	
* 11 Phenanthrene-d10	188	4.525	4.526	(1.000)	1985578	40.0000	
$ 15 o-Terphenyl	230	4.818	4.820	(1.065)	15728	1.00000	1.7524
* 19 Chrysene-d12	240	6.544	6.551	(1.000)	1735719	40.0000	
* 24 Perylene-d12	264	7.634	7.635	(1.000)	1530112	40.0000	
2 Naphthalene	128	2.548	2.555	(1.002)	28612	1.00000	1.3861
3 2-Methylnaphthalene	141	2.959	2.961	(1.164)	13604	1.00000	1.4873
4 1-Methylnaphthalene	142	3.013	3.014	(1.185)	17063	1.00000	1.4241
5 1,1'-Biphenyl	154	3.237	3.239	(1.273)	23002	1.00000	1.3906
6 Acenaphthylene	152	3.483	3.484	(0.975)	26700	1.00000	1.3613
8 Acenaphthene	154	3.590	3.591	(1.004)	13978	1.00000	1.4651(Q)
9 Dibenzofuran	168	3.696	3.698	(1.034)	23081	1.00000	1.5747
10 Fluorene	166	3.905	3.906	(1.093)	19113	1.00000	1.4933
12 Phenanthrene	178	4.535	4.542	(1.002)	25564	1.00000	1.7938
13 Anthracene	178	4.573	4.574	(1.011)	26803	1.00000	1.5798
16 Fluoranthene	202	5.401	5.408	(1.194)	31408	1.00000	1.4978
17 Pyrene	202	5.566	5.573	(0.851)	31168	1.00000	1.1801
18 Benzo(a)anthracene	228	6.539	6.540	(0.999)	44465	1.00000	1.0089
20 Chrysene	228	6.560	6.567	(1.002)	30989	1.00000	0.9982
21 Benzo(b)fluoranthene	252	7.356	7.363	(0.964)	29394	1.00000	0.8599
22 Benzo(k)fluoranthene	252	7.372	7.384	(0.966)	27645	1.00000	1.2886
23 Benzo(a)pyrene	252	7.580	7.587	(0.993)	24505	1.00000	0.8142
25 Indeno(1,2,3-cd)pyrene	276	8.387	8.398	(1.099)	24499	1.00000	0.8274(M)
26 Dibenzo(a,h)anthracene	278	8.408	8.420	(1.101)	26932	1.00000	0.9299
27 Benzo(g,h,i)perylene	276	8.606	8.618	(1.127)	24389	1.00000	0.8672

QC Flag Legend

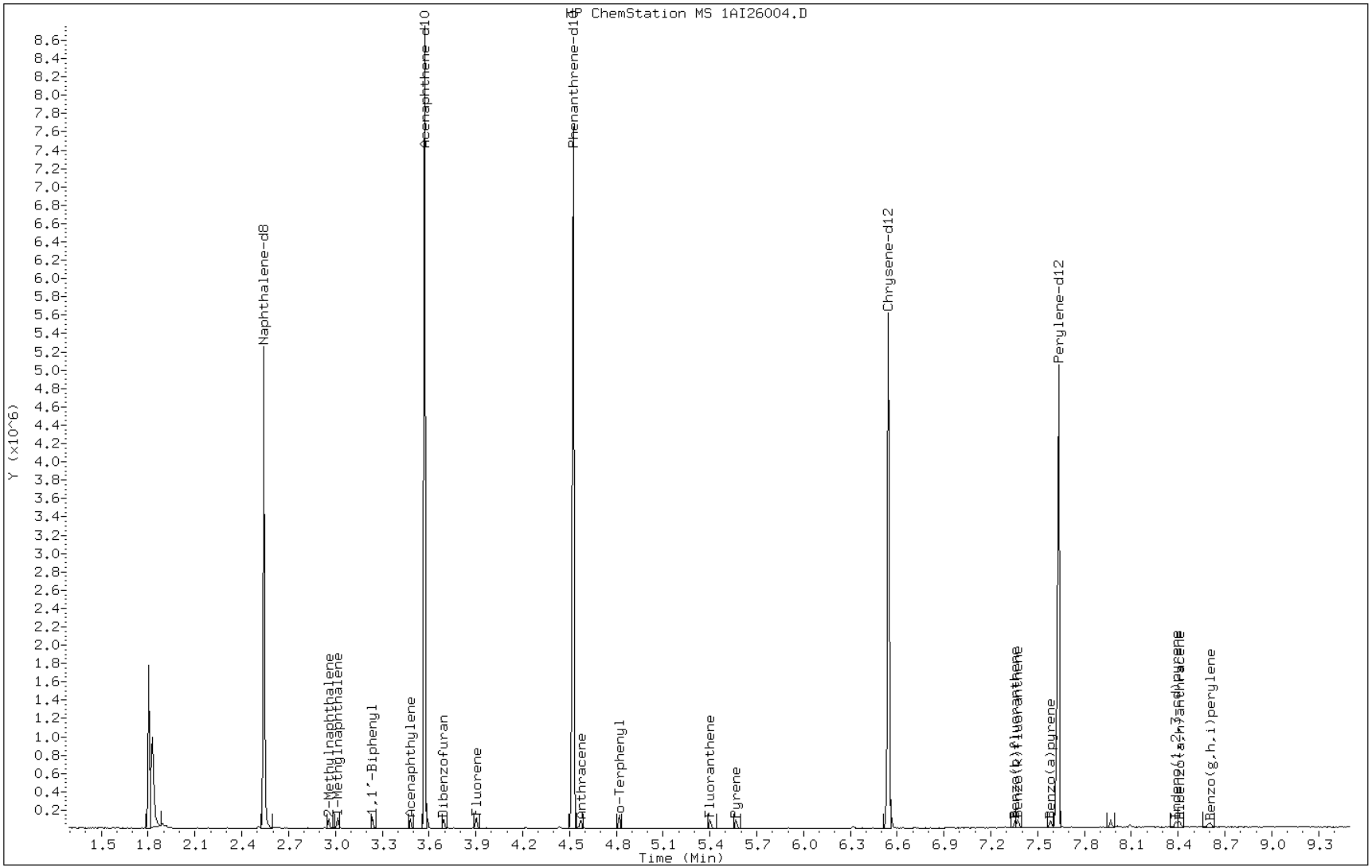
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1AI26004.D

Date: 26-SEP-2013 12:45

Client ID: Instrument: BSMA5973.i

Sample Info: IC-1591239 Operator: SCC



Manual Integration Report

Data File: 1AI26004.D
Inj. Date and Time: 26-SEP-2013 12:45
Instrument ID: BSMA5973.i
Client ID:
Compound: 25 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 09/26/2013

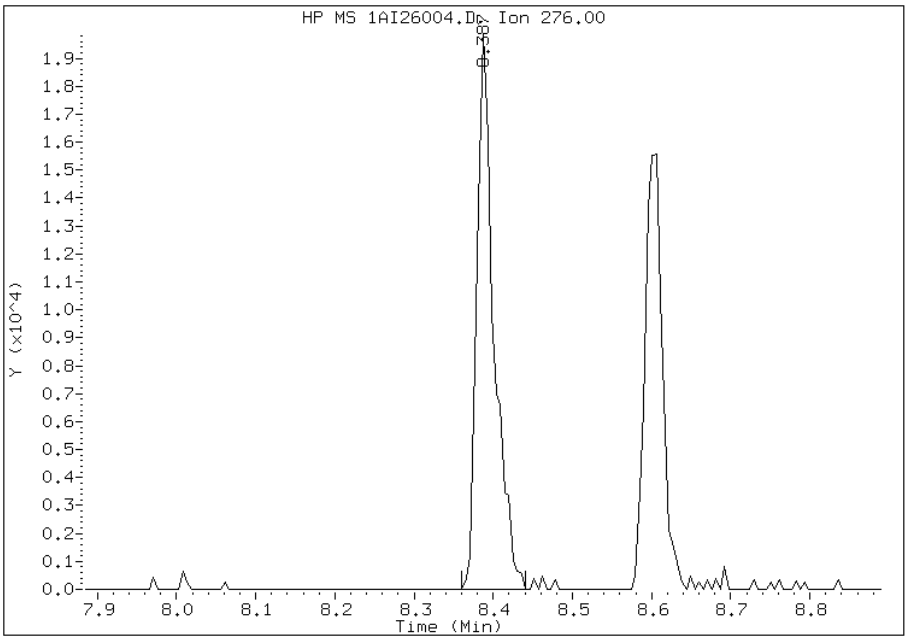
Processing Integration Results

RT: 8.39

Response: 29512

Amount: 1

Conc: 1



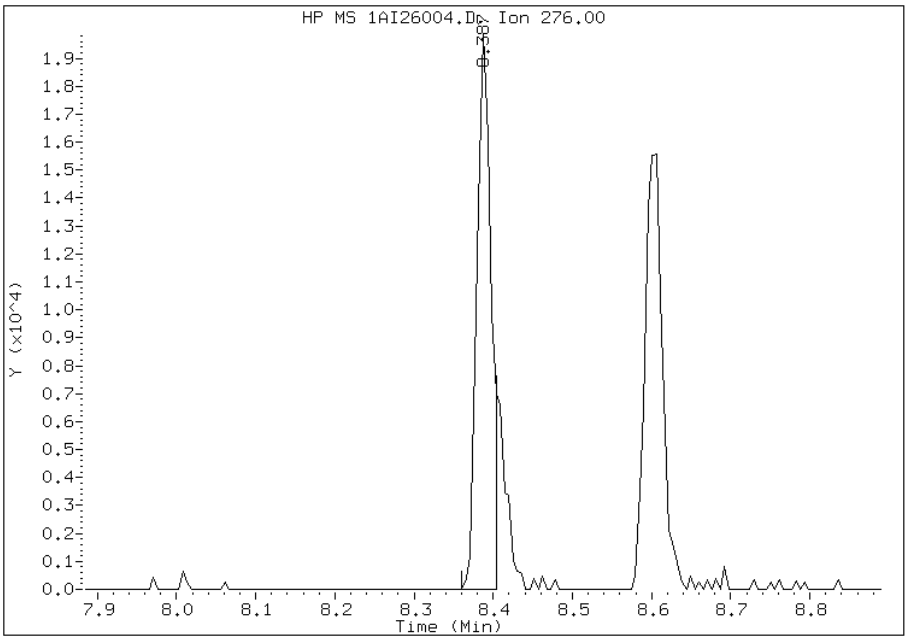
Manual Integration Results

RT: 8.39

Response: 24499

Amount: 1

Conc: 1



Manually Integrated By: cantins
Modification Date: 26-Sep-2013 14:25
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A092613.b\1AI26005.D
Lab Smp Id: IC-1591240
Inj Date : 26-SEP-2013 13:00
Operator : SCC Inst ID: BSMA5973.i
Smp Info : IC-1591240
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A092613.b\a-bFASTPAHi-m.m
Meth Date : 26-Sep-2013 14:34 BSMA5973.i Quant Type: ISTD
Cal Date : 26-SEP-2013 12:45 Cal File: 1AI26004.D
Als bottle: 5 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah+2.sub
Target Version: 4.14
Processing Host: TAM1000

		QUANT SIG					AMOUNTS	
							CAL-AMT	ON-COL
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/ml)	(ug/ml)
*	1 Naphthalene-d8	136	2.543	2.544	(1.000)	1665617	40.0000	
*	7 Acenaphthene-d10	164	3.574	3.575	(1.000)	1170400	40.0000	
*	11 Phenanthrene-d10	188	4.525	4.526	(1.000)	1958685	40.0000	
$	15 o-Terphenyl	230	4.819	4.820	(1.065)	86549	5.00000	4.6062
*	19 Chrysene-d12	240	6.545	6.551	(1.000)	1748469	40.0000	
*	24 Perylene-d12	264	7.634	7.635	(1.000)	1441864	40.0000	
	2 Naphthalene	128	2.549	2.555	(1.002)	137053	5.00000	4.8545
	3 2-Methylnaphthalene	141	2.960	2.961	(1.164)	72611	5.00000	4.8766
	4 1-Methylnaphthalene	142	3.013	3.014	(1.185)	84251	5.00000	5.0200
	5 1,1'-Biphenyl	154	3.238	3.239	(1.273)	108852	5.00000	4.7924
	6 Acenaphthylene	152	3.483	3.484	(0.975)	133405	5.00000	4.8698
	8 Acenaphthene	154	3.590	3.591	(1.004)	73715	5.00000	4.7280
	9 Dibenzofuran	168	3.692	3.698	(1.033)	121569	5.00000	4.9950
	10 Fluorene	166	3.900	3.906	(1.091)	96613	5.00000	4.8282
	12 Phenanthrene	178	4.536	4.542	(1.002)	136799	5.00000	4.7358
	13 Anthracene	178	4.568	4.574	(1.009)	135374	5.00000	4.6674
	16 Fluoranthene	202	5.401	5.408	(1.194)	163681	5.00000	4.8895
	17 Pyrene	202	5.567	5.573	(0.851)	154074	5.00000	5.0938
	18 Benzo(a)anthracene	228	6.539	6.540	(0.999)	192713	5.00000	4.7207
	20 Chrysene	228	6.561	6.567	(1.002)	147237	5.00000	4.7085
	21 Benzo(b)fluoranthene	252	7.357	7.363	(0.964)	161827	5.00000	5.0242
	22 Benzo(k)fluoranthene	252	7.373	7.384	(0.966)	138913	5.00000	4.7887
	23 Benzo(a)pyrene	252	7.581	7.587	(0.993)	128882	5.00000	4.5445
	25 Indeno(1,2,3-cd)pyrene	276	8.388	8.398	(1.099)	127452	5.00000	4.5680(M)
	26 Dibenzo(a,h)anthracene	278	8.409	8.420	(1.101)	124181	5.00000	4.5501
	27 Benzo(g,h,i)perylene	276	8.601	8.618	(1.127)	122748	5.00000	4.6318

QC Flag Legend

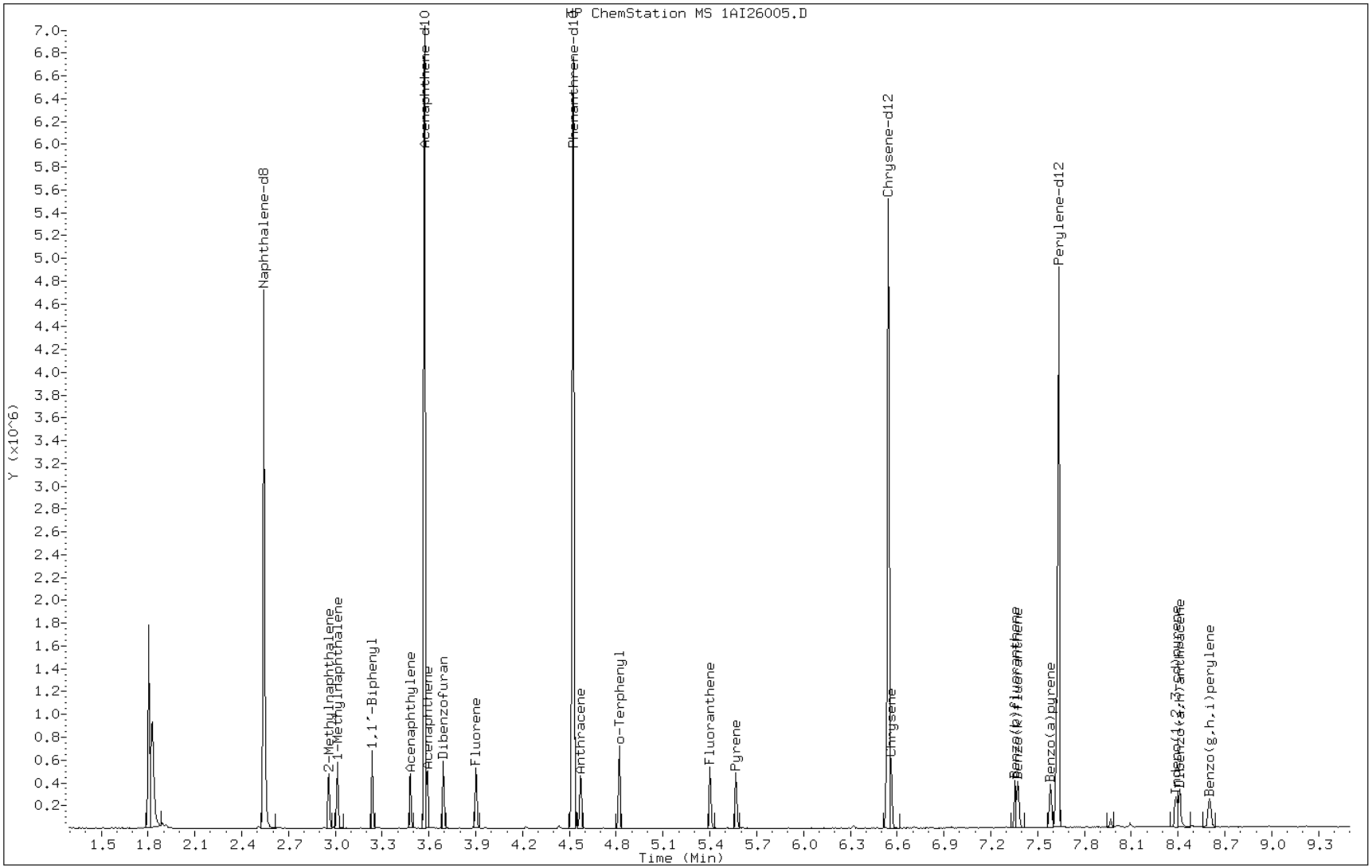
M - Compound response manually integrated.

Data File: 1AI26005.D

Date: 26-SEP-2013 13:00

Client ID: Instrument: BSMA5973.i

Sample Info: IC-1591240 Operator: SCC



Manual Integration Report

Data File: 1AI26005.D
Inj. Date and Time: 26-SEP-2013 13:00
Instrument ID: BSMA5973.i
Client ID:
Compound: 25 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 09/26/2013

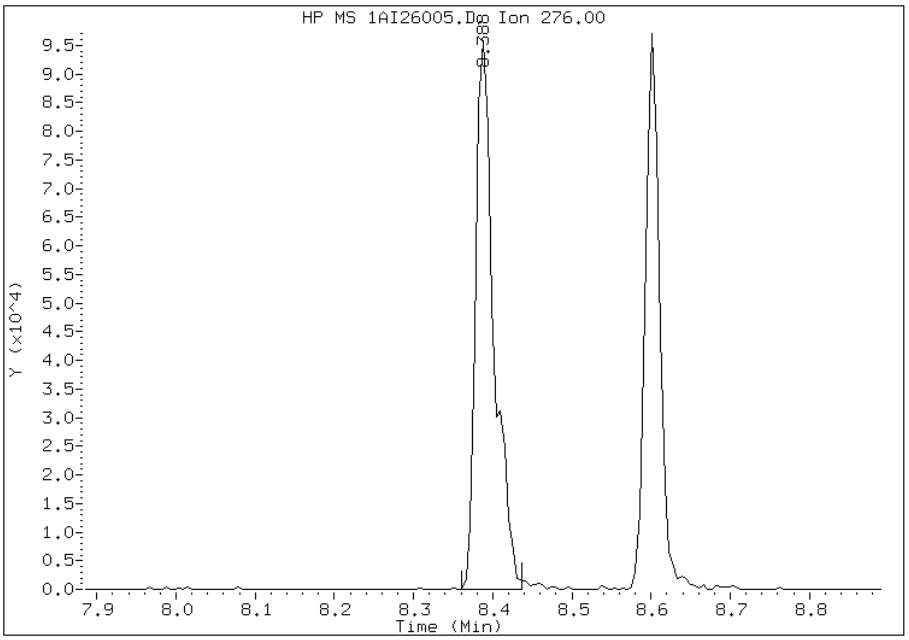
Processing Integration Results

RT: 8.39

Response: 152657

Amount: 5

Conc: 5



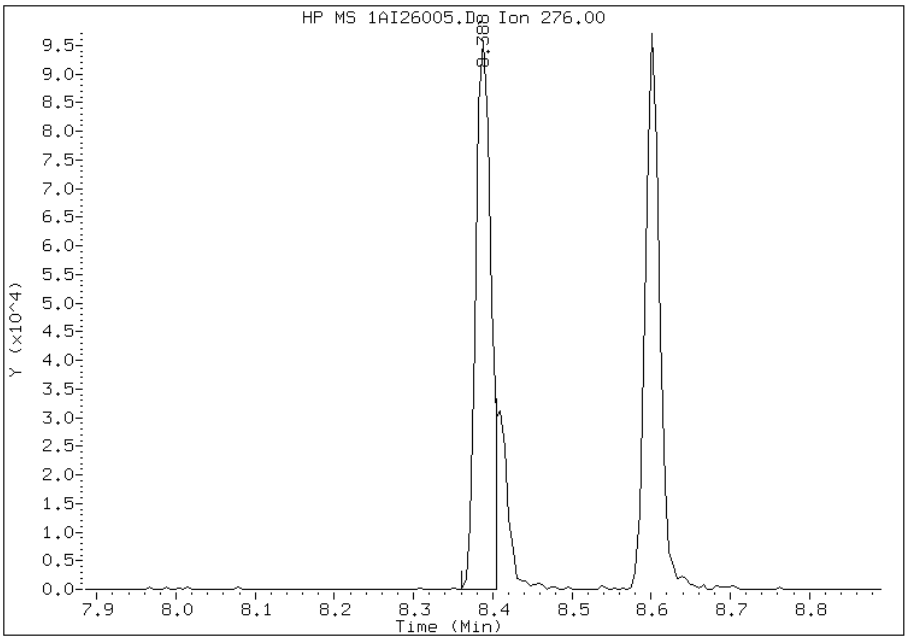
Manual Integration Results

RT: 8.39

Response: 127452

Amount: 5

Conc: 5



Manually Integrated By: cantins
Modification Date: 26-Sep-2013 14:25
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A092613.b\1AI26006.D
Lab Smp Id: IC-1591241
Inj Date : 26-SEP-2013 13:15
Operator : SCC Inst ID: BSMA5973.i
Smp Info : IC-1591241
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A092613.b\a-bFASTPAHi-m.m
Meth Date : 26-Sep-2013 14:34 BSMA5973.i Quant Type: ISTD
Cal Date : 26-SEP-2013 13:00 Cal File: 1AI26005.D
Als bottle: 6 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah+2.sub
Target Version: 4.14
Processing Host: TAM1000

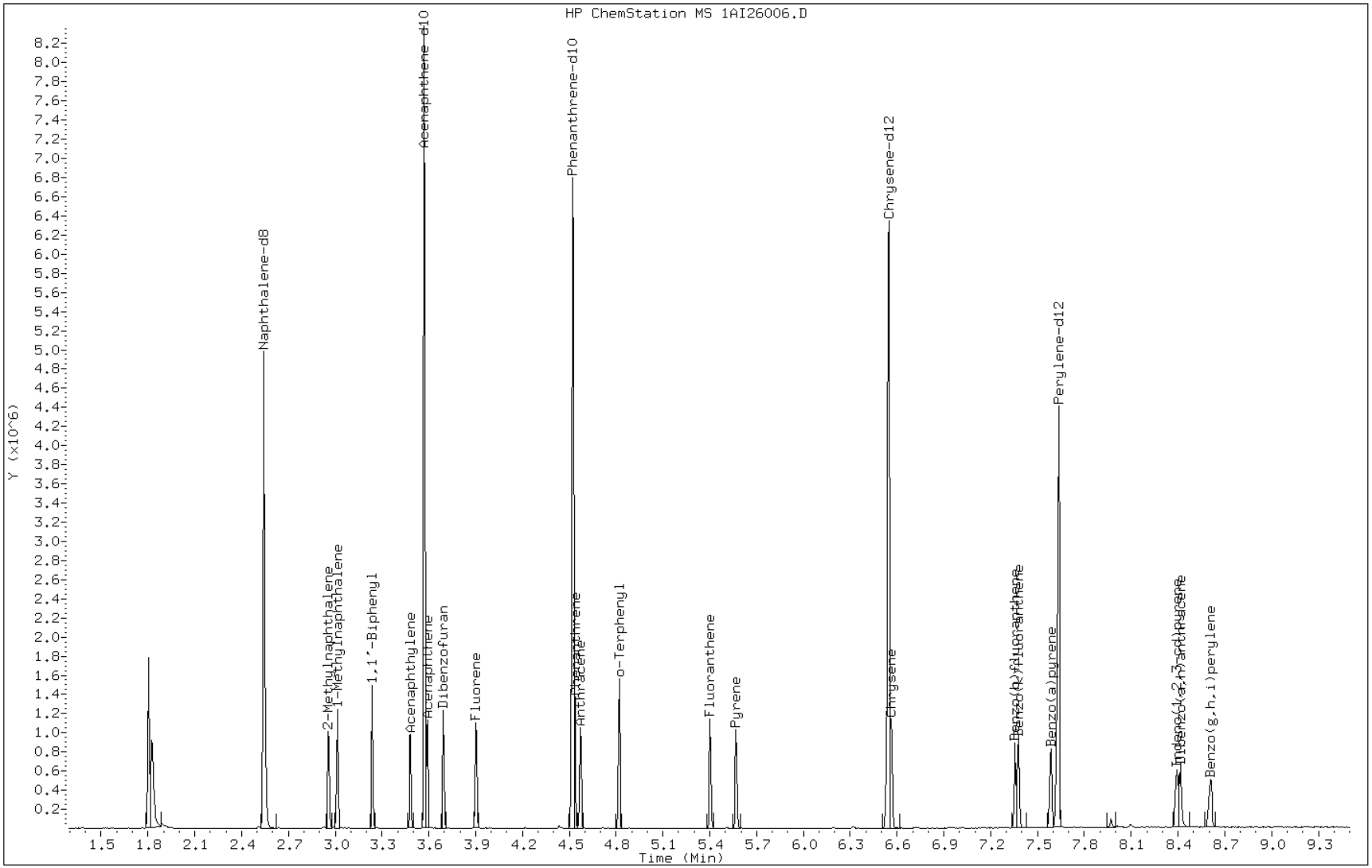
							AMOUNTS	
		QUANT SIG					CAL-AMT	ON-COL
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/ml)	(ug/ml)
*	1 Naphthalene-d8	136	2.544	2.544	(1.000)	1694081	40.0000	
*	7 Acenaphthene-d10	164	3.569	3.575	(1.000)	1216682	40.0000	
*	11 Phenanthrene-d10	188	4.520	4.526	(1.000)	1996961	40.0000	
$	15 o-Terphenyl	230	4.819	4.820	(1.066)	193131	10.0000	8.5857
*	19 Chrysene-d12	240	6.550	6.551	(1.000)	1997169	40.0000	
*	24 Perylene-d12	264	7.635	7.635	(1.000)	1502873	40.0000	
	2 Naphthalene	128	2.549	2.555	(1.002)	280824	10.0000	9.1243
	3 2-Methylnaphthalene	141	2.960	2.961	(1.164)	152995	10.0000	9.1504
	4 1-Methylnaphthalene	142	3.014	3.014	(1.185)	169949	10.0000	9.2338
	5 1,1'-Biphenyl	154	3.238	3.239	(1.273)	227850	10.0000	9.1260
	6 Acenaphthylene	152	3.484	3.484	(0.976)	283126	10.0000	9.1521
	8 Acenaphthene	154	3.591	3.591	(1.006)	161015	10.0000	8.8960
	9 Dibenzofuran	168	3.692	3.698	(1.034)	256780	10.0000	9.0881
	10 Fluorene	166	3.906	3.906	(1.094)	205945	10.0000	8.9331
	12 Phenanthrene	178	4.536	4.542	(1.004)	289133	10.0000	8.4703
	13 Anthracene	178	4.568	4.574	(1.011)	298084	10.0000	8.9402
	16 Fluoranthene	202	5.402	5.408	(1.195)	337513	10.0000	8.9967
	17 Pyrene	202	5.567	5.573	(0.850)	336922	10.0000	9.4264
	18 Benzo(a)anthracene	228	6.540	6.540	(0.998)	449425	10.0000	9.7580
	20 Chrysene	228	6.561	6.567	(1.002)	296441	10.0000	8.2995
	21 Benzo(b)fluoranthene	252	7.357	7.363	(0.964)	324452	10.0000	9.6643
	22 Benzo(k)fluoranthene	252	7.378	7.384	(0.966)	312652	10.0000	9.5958
	23 Benzo(a)pyrene	252	7.587	7.587	(0.994)	282184	10.0000	9.5461
	25 Indeno(1,2,3-cd)pyrene	276	8.393	8.398	(1.099)	296622	10.0000	10.1997
	26 Dibenzo(a,h)anthracene	278	8.415	8.420	(1.102)	276095	10.0000	9.7058
	27 Benzo(g,h,i)perylene	276	8.612	8.618	(1.128)	270428	10.0000	9.7902

Data File: 1AI26006.D

Date: 26-SEP-2013 13:15

Client ID: Instrument: BSMA5973.i

Sample Info: IC-1591241 Operator: SCC



TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A092613.b\1AI26007.D
Lab Smp Id: ICIS-1591242
Inj Date : 26-SEP-2013 13:30
Operator : SCC Inst ID: BSMA5973.i
Smp Info : ICIS-1591242
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A092613.b\a-bFASTPAHi-m.m
Meth Date : 26-Sep-2013 14:34 BSMA5973.i Quant Type: ISTD
Cal Date : 26-SEP-2013 13:15 Cal File: 1AI26006.D
Als bottle: 7 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah+2.sub
Target Version: 4.14
Processing Host: TAM1000

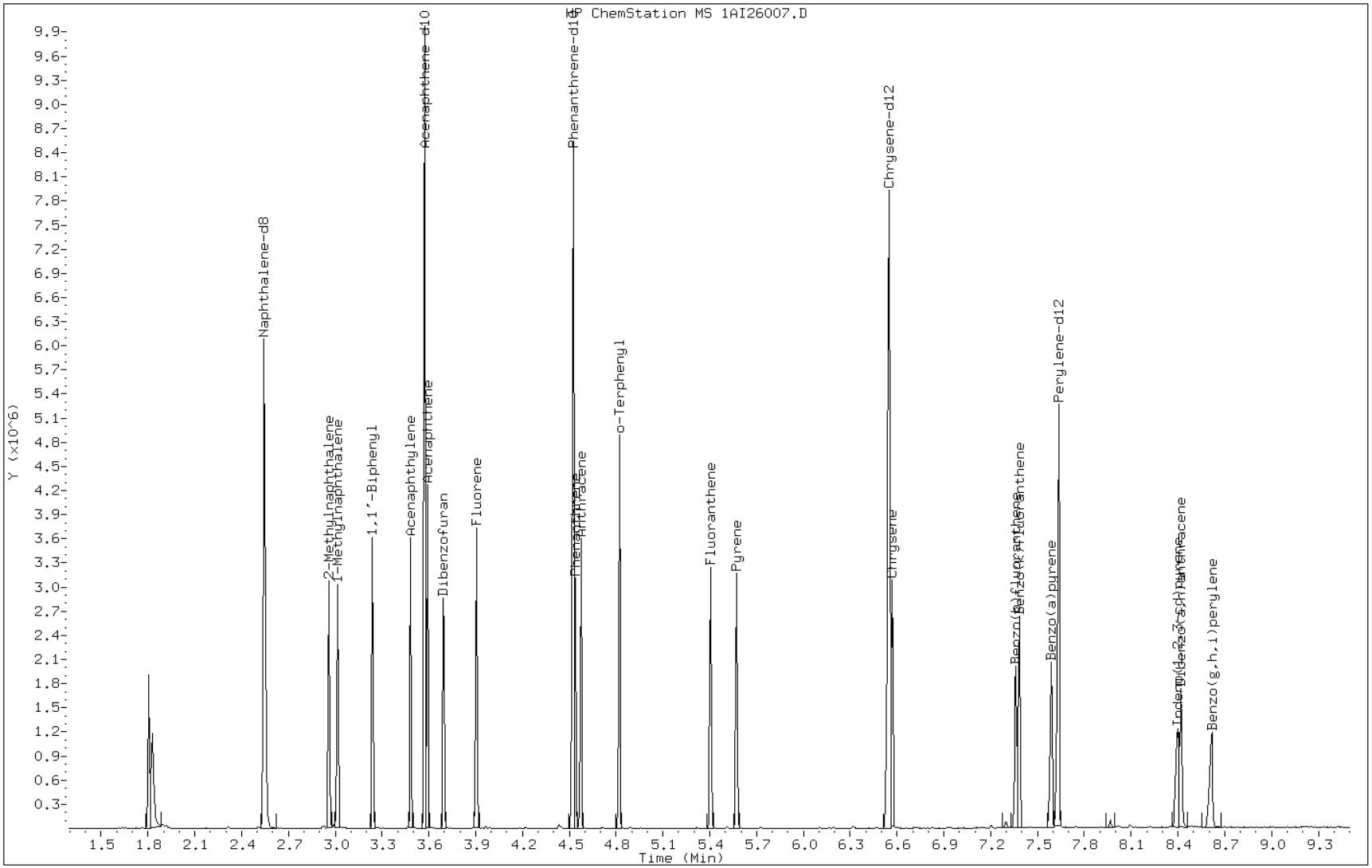
		QUANT SIG					AMOUNTS	
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)
*	1 Naphthalene-d8	136	2.544	2.544	(1.000)	1976353	40.0000	
*	7 Acenaphthene-d10	164	3.575	3.575	(1.000)	1424744	40.0000	
*	11 Phenanthrene-d10	188	4.526	4.526	(1.000)	2251458	40.0000	
$	15 o-Terphenyl	230	4.819	4.819	(1.065)	553385	20.0000	18.8889
*	19 Chrysene-d12	240	6.550	6.550	(1.000)	2367265	40.0000	
*	24 Perylene-d12	264	7.635	7.635	(1.000)	1726100	40.0000	
	2 Naphthalene	128	2.554	2.554	(1.004)	752989	20.0000	19.4182
	3 2-Methylnaphthalene	141	2.960	2.960	(1.164)	399019	20.0000	18.6195
	4 1-Methylnaphthalene	142	3.014	3.014	(1.185)	443570	20.0000	18.8754
	5 1,1'-Biphenyl	154	3.238	3.238	(1.273)	633483	20.0000	19.7156
	6 Acenaphthylene	152	3.484	3.484	(0.975)	780656	20.0000	19.4989
	8 Acenaphthene	154	3.591	3.591	(1.004)	461577	20.0000	19.3640
	9 Dibenzofuran	168	3.698	3.698	(1.034)	671447	20.0000	18.2148
	10 Fluorene	166	3.906	3.906	(1.093)	579039	20.0000	19.1831
	12 Phenanthrene	178	4.542	4.542	(1.004)	823351	20.0000	18.5795
	13 Anthracene	178	4.574	4.574	(1.011)	807433	20.0000	19.1138
	16 Fluoranthene	202	5.407	5.407	(1.195)	893865	20.0000	19.0247
	17 Pyrene	202	5.573	5.573	(0.851)	899744	20.0000	19.9679
	18 Benzo(a)anthracene	228	6.540	6.540	(0.998)	1030503	20.0000	18.9839
	20 Chrysene	228	6.566	6.566	(1.002)	790868	20.0000	18.6805
	21 Benzo(b)fluoranthene	252	7.362	7.362	(0.964)	833677	20.0000	21.6211
	22 Benzo(k)fluoranthene	252	7.384	7.384	(0.967)	762467	20.0000	18.9415
	23 Benzo(a)pyrene	252	7.587	7.587	(0.994)	691794	20.0000	20.3764
	25 Indeno(1,2,3-cd)pyrene	276	8.399	8.399	(1.100)	675887	20.0000	20.2356
	26 Dibenzo(a,h)anthracene	278	8.420	8.420	(1.103)	654579	20.0000	20.0352
	27 Benzo(g,h,i)perylene	276	8.618	8.618	(1.129)	645568	20.0000	20.3488

Data File: 1AI26007.D

Date: 26-SEP-2013 13:30

Client ID: Instrument: BSMA5973.i

Sample Info: ICIS-1591242 Operator: SCC



TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A092613.b\1AI26008.D
Lab Smp Id: IC-1591243
Inj Date : 26-SEP-2013 13:45
Operator : SCC Inst ID: BSMA5973.i
Smp Info : IC-1591243
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A092613.b\a-bFASTPAHi-m.m
Meth Date : 26-Sep-2013 14:34 BSMA5973.i Quant Type: ISTD
Cal Date : 26-SEP-2013 13:30 Cal File: 1AI26007.D
Als bottle: 8 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah+2.sub
Target Version: 4.14
Processing Host: TAM1000

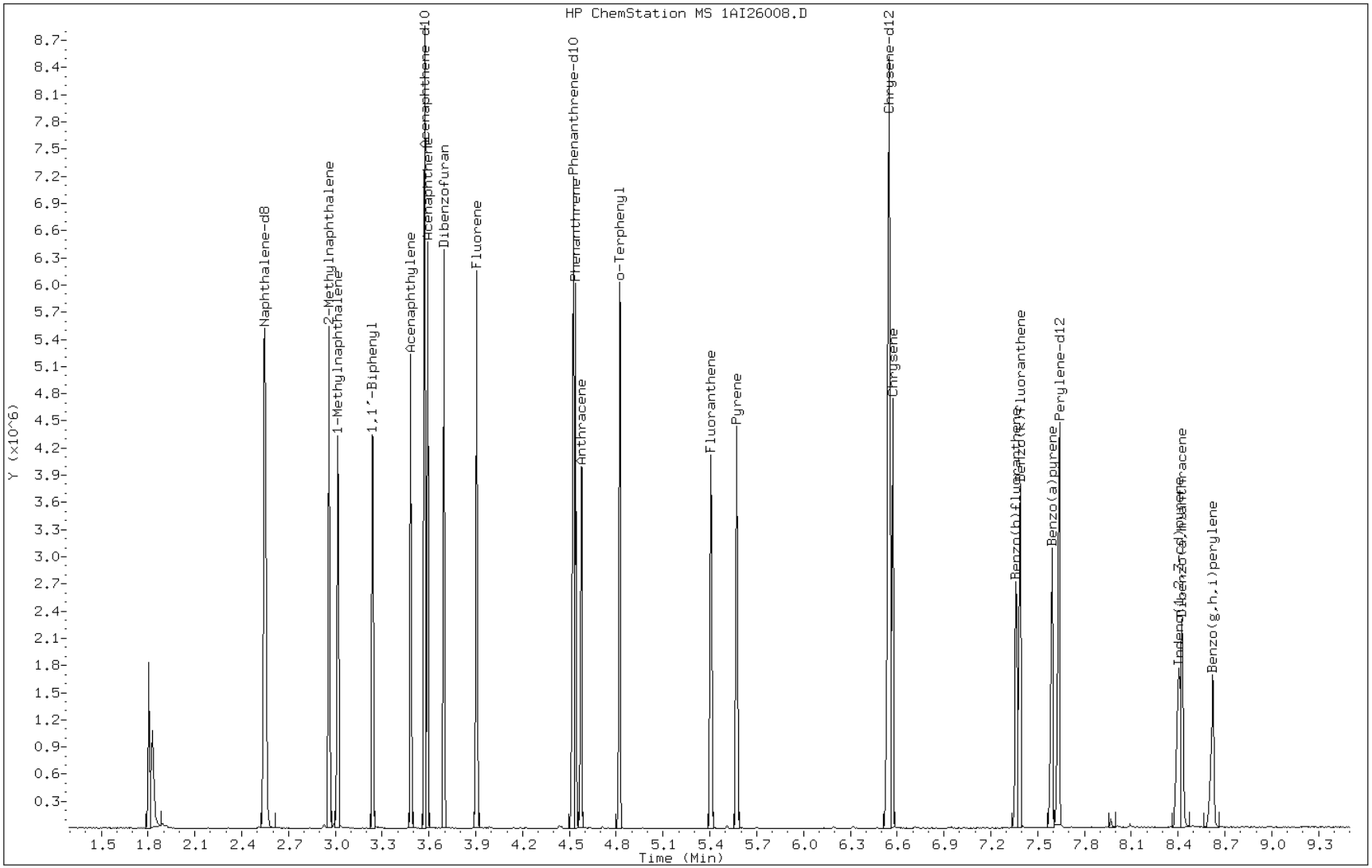
							AMOUNTS	
		QUANT SIG					CAL-AMT	ON-COL
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/ml)	(ug/ml)
*	1 Naphthalene-d8	136	2.543	2.544	(1.000)	1762455	40.0000	
*	7 Acenaphthene-d10	164	3.574	3.575	(1.000)	1241745	40.0000	
*	11 Phenanthrene-d10	188	4.525	4.526	(1.000)	1877665	40.0000	
$	15 o-Terphenyl	230	4.824	4.819	(1.066)	869275	30.0000	31.2748
*	19 Chrysene-d12	240	6.550	6.550	(1.000)	2224654	40.0000	
*	24 Perylene-d12	264	7.640	7.635	(1.000)	1579405	40.0000	
	2 Naphthalene	128	2.554	2.554	(1.004)	1149456	30.0000	30.9237
	3 2-Methylnaphthalene	141	2.960	2.960	(1.164)	666588	30.0000	31.4584
	4 1-Methylnaphthalene	142	3.013	3.014	(1.185)	727189	30.0000	31.1120
	5 1,1'-Biphenyl	154	3.243	3.238	(1.275)	966656	30.0000	30.5637
	6 Acenaphthylene	152	3.483	3.484	(0.975)	1187882	30.0000	30.6999
	8 Acenaphthene	154	3.590	3.591	(1.004)	717129	30.0000	30.8484
	9 Dibenzofuran	168	3.697	3.698	(1.034)	1155356	30.0000	31.5165
	10 Fluorene	166	3.905	3.906	(1.093)	912068	30.0000	31.0091
	12 Phenanthrene	178	4.541	4.542	(1.004)	1328222	30.0000	31.5723
	13 Anthracene	178	4.578	4.574	(1.012)	1228719	30.0000	31.0546
	16 Fluoranthene	202	5.407	5.407	(1.195)	1362821	30.0000	31.0994
	17 Pyrene	202	5.572	5.573	(0.851)	1367118	30.0000	30.2650
	18 Benzo(a)anthracene	228	6.544	6.540	(0.999)	1479350	30.0000	29.0603
	20 Chrysene	228	6.571	6.566	(1.003)	1215081	30.0000	30.5403
	21 Benzo(b)fluoranthene	252	7.362	7.362	(0.964)	1079623	30.0000	30.6002
	22 Benzo(k)fluoranthene	252	7.388	7.384	(0.967)	1248158	30.0000	31.0897
	23 Benzo(a)pyrene	252	7.591	7.587	(0.994)	1019521	30.0000	32.8186
	25 Indeno(1,2,3-cd)pyrene	276	8.403	8.399	(1.100)	968206	30.0000	31.6798
	26 Dibenzo(a,h)anthracene	278	8.425	8.420	(1.103)	949063	30.0000	31.7468
	27 Benzo(g,h,i)perylene	276	8.628	8.618	(1.129)	925526	30.0000	31.8830

Data File: 1AI26008.D

Date: 26-SEP-2013 13:45

Client ID: Instrument: BSMA5973.i

Sample Info: IC-1591243 Operator: SCC



TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A092613.b\1AI26009.D
Lab Smp Id: IC-1591244
Inj Date : 26-SEP-2013 14:01
Operator : SCC Inst ID: BSMA5973.i
Smp Info : IC-1591244
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A092613.b\a-bFASTPAHi-m.m
Meth Date : 26-Sep-2013 14:34 BSMA5973.i Quant Type: ISTD
Cal Date : 26-SEP-2013 13:45 Cal File: 1AI26008.D
Als bottle: 9 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah+2.sub
Target Version: 4.14
Processing Host: TAM1000

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
*	1 Naphthalene-d8	136	2.544	2.544	(1.000)	1911940	40.0000	
*	7 Acenaphthene-d10	164	3.575	3.575	(1.000)	1162757	40.0000	
*	11 Phenanthrene-d10	188	4.526	4.526	(1.000)	1817395	40.0000	
$	15 o-Terphenyl	230	4.825	4.819	(1.066)	2048020	50.0000	49.8486
*	19 Chrysene-d12	240	6.556	6.550	(1.000)	2422685	40.0000	
*	24 Perylene-d12	264	7.640	7.635	(1.000)	1625483	40.0000	
	2 Naphthalene	128	2.554	2.554	(1.004)	2338827	50.0000	49.8105
	3 2-Methylnaphthalene	141	2.960	2.960	(1.164)	1419098	50.0000	49.7363
	4 1-Methylnaphthalene	142	3.019	3.014	(1.187)	1763385	50.0000	49.8529
	5 1,1'-Biphenyl	154	3.244	3.238	(1.275)	2530909	50.0000	49.9293
	6 Acenaphthylene	152	3.484	3.484	(0.975)	2677365	50.0000	49.9165
	8 Acenaphthene	154	3.591	3.591	(1.004)	1773929	50.0000	49.9158
	9 Dibenzofuran	168	3.698	3.698	(1.034)	2612705	50.0000	49.8265
	10 Fluorene	166	3.906	3.906	(1.093)	1963734	50.0000	49.8675
	12 Phenanthrene	178	4.542	4.542	(1.004)	2794126	50.0000	49.7615
	13 Anthracene	178	4.579	4.574	(1.012)	2824046	50.0000	49.8705
	16 Fluoranthene	202	5.413	5.407	(1.196)	2978471	50.0000	49.8525
	17 Pyrene	202	5.578	5.573	(0.851)	2943623	50.0000	49.9458
	18 Benzo(a)anthracene	228	6.545	6.540	(0.998)	2891041	50.0000	52.2408(A)
	20 Chrysene	228	6.577	6.566	(1.003)	2574004	50.0000	59.4078(A)
	21 Benzo(b)fluoranthene	252	7.368	7.362	(0.964)	2288025	50.0000	63.0121(A)
	22 Benzo(k)fluoranthene	252	7.394	7.384	(0.968)	2490188	50.0000	49.8062
	23 Benzo(a)pyrene	252	7.597	7.587	(0.994)	2022607	50.0000	63.2626(A)
	25 Indeno(1,2,3-cd)pyrene	276	8.409	8.399	(1.101)	1807793	50.0000	57.4745(A)
	26 Dibenzo(a,h)anthracene	278	8.436	8.420	(1.104)	1925239	50.0000	62.5750(A)
	27 Benzo(g,h,i)perylene	276	8.634	8.618	(1.130)	1678338	50.0000	56.1773(A)

QC Flag Legend

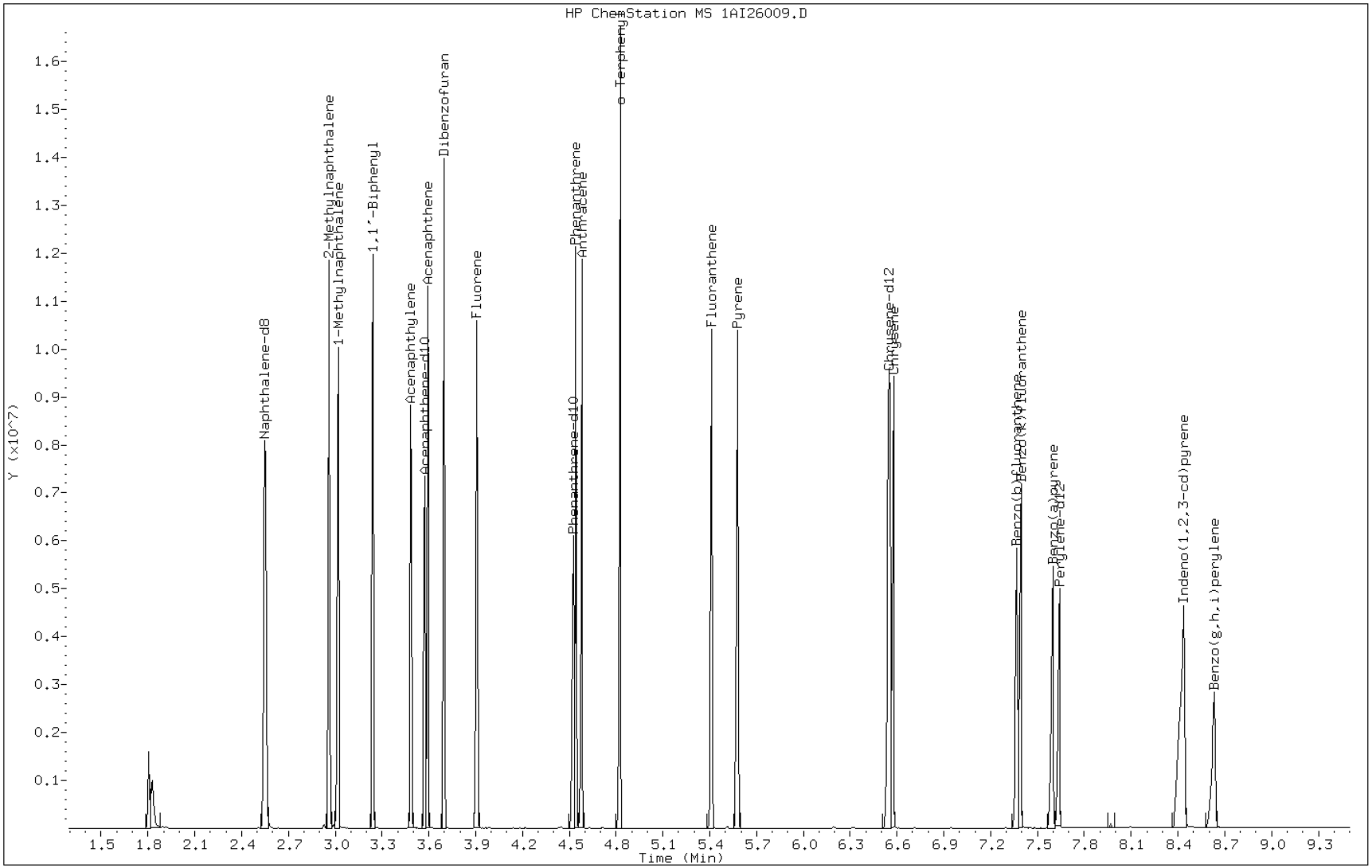
A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: 1AI26009.D

Date: 26-SEP-2013 14:01

Client ID: Instrument: BSMA5973.i

Sample Info: IC-1591244 Operator: SCC



FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Tampa Job No.: 680-94506-2 Analy Batch No.: 141824

SDG No.: 680-94506-2

Instrument ID: BSMA5973 GC Column: DB-5MS ID: 250(um) Heated Purge: (Y/N) N

Calibration Start Date: 09/27/2013 11:23 Calibration End Date: 09/27/2013 13:01 Calibration ID: 3519

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 660-141824/4	1AI27004.D
Level 2	IC 660-141824/5	1AI27005.D
Level 3	IC 660-141824/6	1AI27006.D
Level 4	IC 660-141824/7	1AI27007.D
Level 5	ICIS 660-141824/3	1AI27003.D
Level 6	IC 660-141824/8	1AI27008.D
Level 7	IC 660-141824/9	1AI27009.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Naphthalene	0.7177 0.8160	0.6863 0.9714	0.6695	0.6741	0.7493	Ave		0.7549			0.0000	14.4		15.0			
2-Methylnaphthalene	0.3281 0.4740	0.3143 0.5942	0.3568	0.3645	0.3976	Qua	0.0113	2.5878	-1.245		0.0000				0.9988		0.9900
1-Methylnaphthalene	0.4066 0.5880	0.4168 0.7049	0.4135	0.4189	0.4631	Qua	0.0168	2.1082	-0.813		0.0000				0.9969		0.9900
1,1'-Biphenyl	0.4755 0.8270	0.5013 0.8715	0.5269	0.5757	0.6703	Qua	0.0239	1.4093	-0.269						0.9961		
Acenaphthylene	0.7439 1.4316	0.7359 1.7971	0.7893	0.9360	1.1089	Qua	0.0280	0.8634	-0.143		0.0000				0.9960		0.9900
Acenaphthene	0.4404 0.8559	0.4228 1.1962	0.4297	0.5419	0.6653	Qua	0.0310	1.4496	-0.426		0.0000				0.9960		0.9900
Dibenzofuran	0.6851 1.1663	0.6652 1.6939	0.6642	0.8014	1.0088	Qua	0.0229	1.0422	-0.219						0.9984		
Fluorene	0.5035 1.0112	0.5577 1.5466	0.5661	0.6618	0.8212	Qua	0.0262	1.2226	-0.306		0.0000				0.9973		0.9900
Phenanthrene	0.6998 0.9032	0.4619 1.2777	0.5179	0.6220	0.7606	Qua	0.0231	1.3552	-0.369		0.0000				0.9982		0.9900
Anthracene	0.5066 0.9212	0.4483 1.1083	0.4883	0.5634	0.6965	Qua	0.0323	1.3376	-0.335		0.0000				0.9945		0.9900
Fluoranthene	0.6442 0.9469	0.5601 1.2092	0.6012	0.6795	0.8041	Qua	0.0190	1.2823	-0.311		0.0000				0.9985		0.9900
Pyrene	0.5779 0.8237	0.6160 0.9885	0.6164	0.6796	0.7315	Qua	0.0087	1.4423	-0.356		0.0000				0.9996		0.9900
Benzo[a]anthracene	1.4548 0.8446	0.9560 0.9225	0.7950	0.8361	0.8246	Lin1	-0.002	0.8715							0.9967		
Chrysene	0.6703 0.7449	0.5377 0.8239	0.5750	0.6126	0.6965	Ave		0.6659			0.0000	15.0		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Tampa Job No.: 680-94506-2 Analy Batch No.: 141824

SDG No.: 680-94506-2

Instrument ID: BSMA5973 GC Column: DB-5MS ID: 250(um) Heated Purge: (Y/N) N

Calibration Start Date: 09/27/2013 11:23 Calibration End Date: 09/27/2013 13:01 Calibration ID: 3519

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Benzo[b]fluoranthene	0.7405 0.9260	0.6556 1.1902	0.7989	0.7248	0.8704	Qua	0.0059	1.2823	-0.300		0.0000				0.9995		0.9900
Benzo[k]fluoranthene	0.9361 1.0597	0.7792 1.2575	0.7168	0.7823	0.8472	Qua	0.0158	1.1611	-0.242		0.0000				0.9973		0.9900
Benzo[a]pyrene	0.6955 0.8726	0.6695 1.0483	0.6612	0.6660	0.7782	Qua	0.0109	1.3629	-0.320		0.0000				0.9992		0.9900
Indeno[1,2,3-cd]pyrene	0.7015 0.7761	0.6464 0.8969	0.6211	0.6141	0.6702	Ave		0.7038			0.0000	14.4		15.0			
Dibenz(a,h)anthracene	0.5767 0.7703	0.6163 1.0107	0.5888	0.5943	0.6542	Qua	0.0087	1.6041	-0.494		0.0000				0.9991		0.9900
Benzo[g,h,i]perylene	0.6564 0.6664	0.6141 0.7422	0.5759	0.5909	0.5916	Ave		0.6339			0.0000	9.3		15.0			
o-Terphenyl	0.3425 0.6806	0.3036 0.8179	0.3466	0.3931	0.5159	Qua	0.0357	1.8008	-0.608		0.0000				0.9939		0.9900

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Tampa Job No.: 680-94506-2 Analy Batch No.: 141824

SDG No.: 680-94506-2

Instrument ID: BSMA5973 GC Column: DB-5MS ID: 250(um) Heated Purge: (Y/N) N

Calibration Start Date: 09/27/2013 11:23 Calibration End Date: 09/27/2013 13:01 Calibration ID: 3519

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 660-141824/4	1AI27004.D
Level 2	IC 660-141824/5	1AI27005.D
Level 3	IC 660-141824/6	1AI27006.D
Level 4	IC 660-141824/7	1AI27007.D
Level 5	ICIS 660-141824/3	1AI27003.D
Level 6	IC 660-141824/8	1AI27008.D
Level 7	IC 660-141824/9	1AI27009.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Naphthalene	NPT	Ave	13670 2221077	50755 4594922	259447	525754	1626920	0.200 30.0	1.00 50.0	5.00	10.0	20.0
2-Methylnaphthalene	NPT	Qua	6249 1290229	23246 2810584	138256	284303	863255	0.200 30.0	1.00 50.0	5.00	10.0	20.0
1-Methylnaphthalene	NPT	Qua	7745 1600483	30822 3334186	160238	326749	1005469	0.200 30.0	1.00 50.0	5.00	10.0	20.0
1,1'-Biphenyl	NPT	Qua	9057 2250867	37077 4122583	204196	449022	1455475	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Acenaphthylene	ANT	Qua	12383 2778966	50937 5428432	271305	556337	1773511	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Acenaphthene	ANT	Qua	7332 1661376	29265 3613242	147702	322061	1064082	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Dibenzofuran	ANT	Qua	11405 2263839	46047 5116674	228328	476352	1613435	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Fluorene	ANT	Qua	8381 1962820	38608 4671874	194587	393362	1313464	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Phenanthrene	PHN	Qua	17645 2834408	49548 6289473	282428	641842	1960170	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Anthracene	PHN	Qua	12774 2890657	48088 5455887	266293	581403	1795021	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Fluoranthene	PHN	Qua	16242 2971310	60076 5952291	327889	701238	2072376	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Pyrene	CRY	Qua	14029 3123861	60667 6491592	329125	706734	2075192	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[a]anthracene	CRY	Lin1	35317 3202926	94159 6058130	424489	869370	2339253	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Chrysene	CRY	Ave	16272 2825035	52962 5410782	307057	636962	1975792	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[b]fluoranthene	PRY	Qua	13577 2325184	50786 4918161	326146	607243	1666584	0.200 30.0	1.00 50.0	5.00	10.0	20.0

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Tampa Job No.: 680-94506-2 Analy Batch No.: 141824

SDG No.: 680-94506-2

Instrument ID: BSMA5973 GC Column: DB-5MS ID: 250(um) Heated Purge: (Y/N) N

Calibration Start Date: 09/27/2013 11:23 Calibration End Date: 09/27/2013 13:01 Calibration ID: 3519

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Benzo[k]fluoranthene	PRY	Qua	17163 2660807	60359 5196187	292648	655403	1622049	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[a]pyrene	PRY	Qua	12751 2191097	51861 4331524	269960	557999	1490013	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Indeno[1,2,3-cd]pyrene	PRY	Ave	12861 1948616	50075 3706099	253567	514521	1283156	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Dibenz(a,h)anthracene	PRY	Qua	10574 1934136	47744 4176110	240396	497883	1252623	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[g,h,i]perylene	PRY	Ave	12034 1673226	47575 3066977	235119	495021	1132706	0.200 30.0	1.00 50.0	5.00	10.0	20.0
o-Terphenyl	PHN	Qua	8635 2135641	32569 4026252	189024	405666	1329696	0.200 30.0	1.00 50.0	5.00	10.0	20.0

Curve Type Legend:

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD
Qua = Quadratic ISTD

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A092713.b\1AI27003.D
Lab Smp Id: ICIS-1591242
Inj Date : 27-SEP-2013 11:23
Operator : SCC Inst ID: BSMA5973.i
Smp Info : ICIS-1591242
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A092713.b\a-bFASTPAHi-m.m
Meth Date : 27-Sep-2013 13:48 BSMA5973.i Quant Type: ISTD
Cal Date : 27-SEP-2013 13:01 Cal File: 1AI27009.D
Als bottle: 3 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah+2.sub
Target Version: 4.14
Processing Host: TAM1000

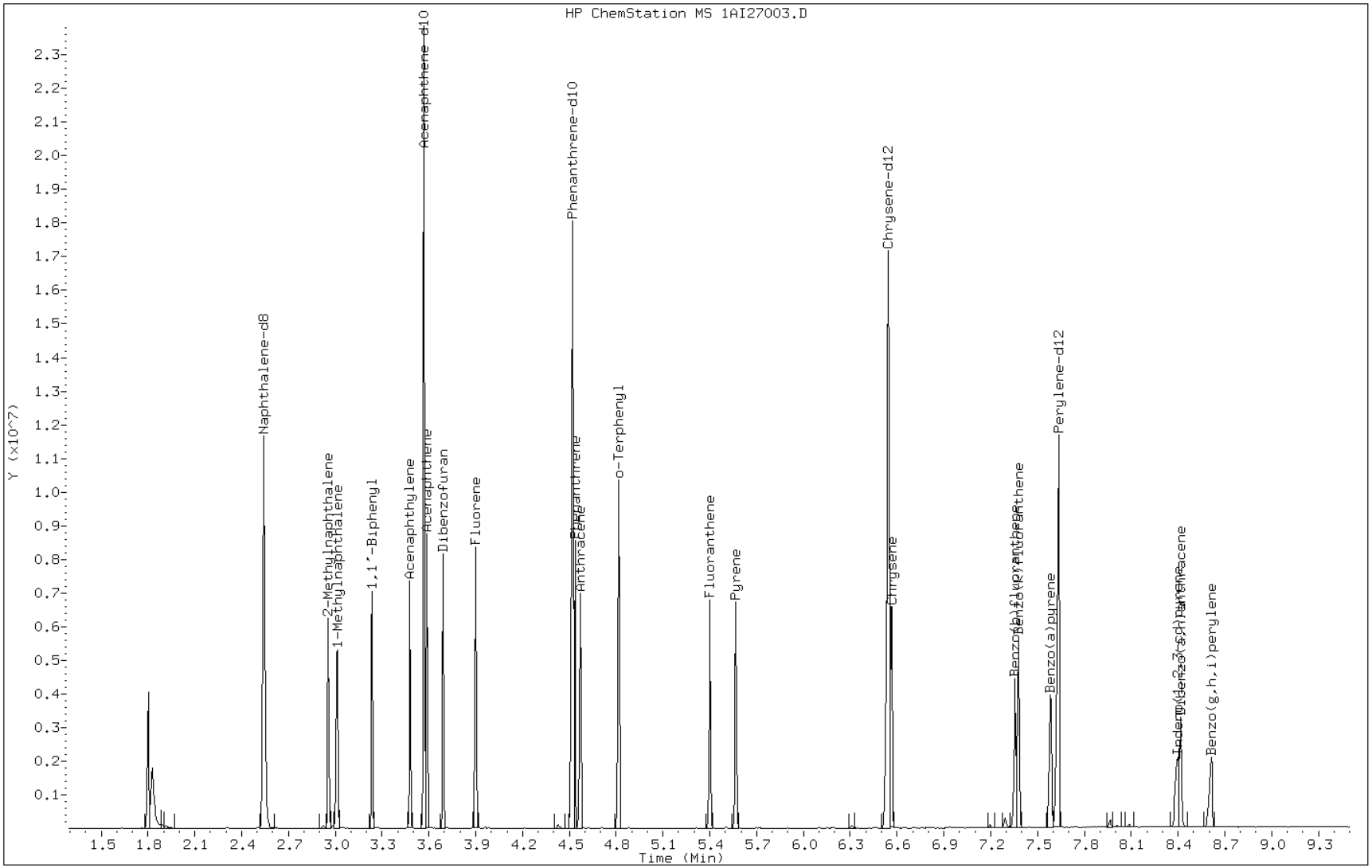
		QUANT SIG					AMOUNTS	
							CAL-AMT	ON-COL
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/ml)	(ug/ml)
*	1 Naphthalene-d8	136	2.538	2.538	(1.000)	4342544	40.0000	
*	7 Acenaphthene-d10	164	3.569	3.569	(1.000)	3198739	40.0000	
*	11 Phenanthrene-d10	188	4.520	4.520	(1.000)	5154560	40.0000	
$	15 o-Terphenyl	230	4.814	4.814	(1.065)	1329696	20.0000	18.3904
*	19 Chrysene-d12	240	6.545	6.545	(1.000)	5673607	40.0000	
*	24 Perylene-d12	264	7.635	7.635	(1.000)	3829309	40.0000	
	2 Naphthalene	128	2.549	2.549	(1.004)	1626920	20.0000	19.8516
	3 2-Methylnaphthalene	141	2.955	2.955	(1.164)	863255	20.0000	19.0609
	4 1-Methylnaphthalene	142	3.014	3.014	(1.187)	1005469	20.0000	18.4528
	5 1,1'-Biphenyl	154	3.238	3.238	(1.276)	1455475	20.0000	18.6379
	6 Acenaphthylene	152	3.478	3.478	(0.975)	1773511	20.0000	18.5050
	8 Acenaphthene	154	3.585	3.585	(1.004)	1064082	20.0000	18.6423
	9 Dibenzofuran	168	3.692	3.692	(1.034)	1613435	20.0000	19.7142
	10 Fluorene	166	3.900	3.900	(1.093)	1313464	20.0000	19.0667
	12 Phenanthrene	178	4.536	4.536	(1.004)	1960170	20.0000	19.4054
	13 Anthracene	178	4.568	4.568	(1.011)	1795021	20.0000	18.2973
	16 Fluoranthene	202	5.402	5.402	(1.195)	2072376	20.0000	19.3711
	17 Pyrene	202	5.567	5.567	(0.851)	2075192	20.0000	19.5449
	18 Benzo(a)anthracene	228	6.534	6.534	(0.998)	2339253	20.0000	18.8293
	20 Chrysene	228	6.566	6.566	(1.003)	1975792	20.0000	20.9201
	21 Benzo(b)fluoranthene	252	7.357	7.357	(0.964)	1666584	20.0000	20.2851
	22 Benzo(k)fluoranthene	252	7.378	7.378	(0.966)	1622049	20.0000	18.5707
	23 Benzo(a)pyrene	252	7.586	7.586	(0.994)	1490013	20.0000	19.7089
	25 Indeno(1,2,3-cd)pyrene	276	8.398	8.398	(1.100)	1283156	20.0000	19.0458
	26 Dibenzo(a,h)anthracene	278	8.420	8.420	(1.103)	1252623	20.0000	19.2218
	27 Benzo(g,h,i)perylene	276	8.612	8.612	(1.128)	1132706	20.0000	18.6645

Data File: 1AI27003.D

Date: 27-SEP-2013 11:23

Client ID: Instrument: BSMA5973.i

Sample Info: ICIS-1591242 Operator: SCC



TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A092713.b\1AI27004.D
Lab Smp Id: IC-1591238
Inj Date : 27-SEP-2013 11:45
Operator : SCC Inst ID: BSMA5973.i
Smp Info : IC-1591238
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A092713.b\a-bFASTPAHi-m.m
Meth Date : 27-Sep-2013 13:48 BSMA5973.i Quant Type: ISTD
Cal Date : 27-SEP-2013 11:23 Cal File: 1AI27003.D
Als bottle: 4 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah+2.sub
Target Version: 4.14
Processing Host: TAM1000

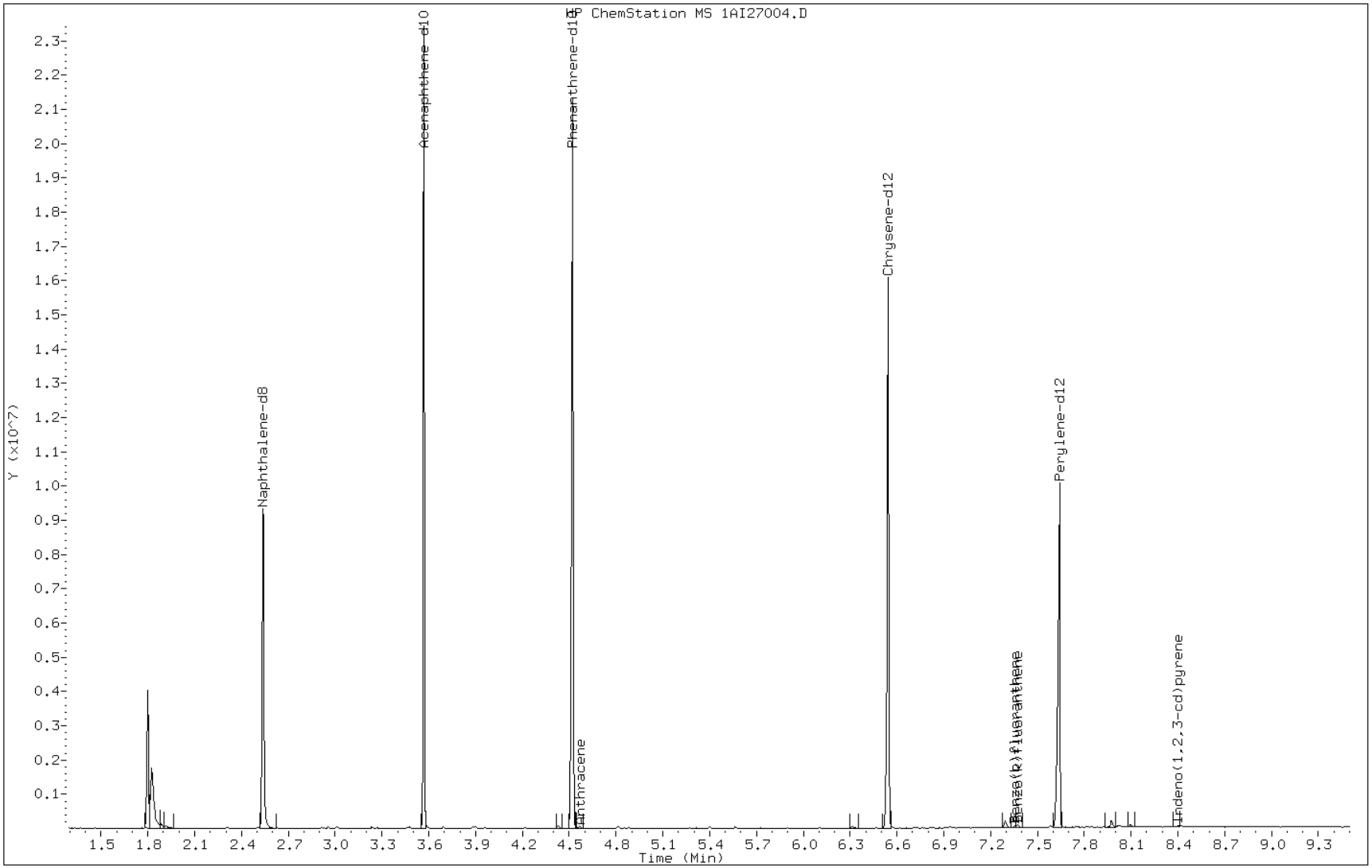
						AMOUNTS	
	QUANT SIG					CAL-AMT	ON-COL
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/ml)	(ug/ml)
* 1 Naphthalene-d8	136	2.534	2.538	(1.000)	3809651	40.0000	
* 7 Acenaphthene-d10	164	3.570	3.569	(1.000)	3329418	40.0000	
* 11 Phenanthrene-d10	188	4.521	4.520	(1.000)	5042666	40.0000	
$ 15 o-Terphenyl	230	4.815	4.814	(1.065)	8635	0.20000	1.5500
* 19 Chrysene-d12	240	6.546	6.545	(1.000)	4855273	40.0000	
* 24 Perylene-d12	264	7.641	7.635	(1.000)	3666930	40.0000	
2 Naphthalene	128	2.544	2.549	(1.004)	13670	0.20000	0.1901
3 2-Methylnaphthalene	141	2.956	2.955	(1.167)	6249	0.20000	0.6219
4 1-Methylnaphthalene	142	3.009	3.014	(1.188)	7745	0.20000	0.8417
5 1,1'-Biphenyl	154	3.233	3.238	(1.276)	9057	0.20000	1.0884
6 Acenaphthylene	152	3.479	3.478	(0.975)	12383	0.20000	1.2500
8 Acenaphthene	154	3.586	3.585	(1.004)	7332	0.20000	1.3686
9 Dibenzofuran	168	3.693	3.692	(1.034)	11405	0.20000	1.0579
10 Fluorene	166	3.896	3.900	(1.091)	8381	0.20000	1.1707
12 Phenanthrene	178	4.532	4.536	(1.002)	17645	0.20000	1.1137
13 Anthracene	178	4.569	4.568	(1.011)	12774	0.20000	1.4276
16 Fluoranthene	202	5.402	5.402	(1.195)	16242	0.20000	0.9259
17 Pyrene	202	5.563	5.567	(0.850)	14029	0.20000	0.5132
18 Benzo(a)anthracene	228	6.540	6.534	(0.999)	35317	0.20000	0.2382
20 Chrysene	228	6.556	6.566	(1.002)	16272	0.20000	0.2013
21 Benzo(b)fluoranthene	252	7.352	7.357	(0.962)	13577	0.20000	0.4258
22 Benzo(k)fluoranthene	252	7.374	7.378	(0.965)	17163	0.20000	0.8492
23 Benzo(a)pyrene	252	7.587	7.586	(0.993)	12751	0.20000	0.6241
25 Indeno(1,2,3-cd)pyrene	276	8.399	8.398	(1.099)	12861	0.20000	0.1993
26 Dibenzo(a,h)anthracene	278	8.426	8.420	(1.103)	10574	0.20000	0.5312
27 Benzo(g,h,i)perylene	276	8.618	8.612	(1.128)	12034	0.20000	0.2070

Data File: 1AI27004.D

Date: 27-SEP-2013 11:45

Client ID: Instrument: BSMA5973.i

Sample Info: IC-1591238 Operator: SCC



TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A092713.b\1AI27005.D
Lab Smp Id: IC-1591239
Inj Date : 27-SEP-2013 12:00
Operator : SCC Inst ID: BSMA5973.i
Smp Info : IC-1591239
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A092713.b\a-bFASTPAHi-m.m
Meth Date : 27-Sep-2013 13:48 BSMA5973.i Quant Type: ISTD
Cal Date : 27-SEP-2013 11:45 Cal File: 1AI27004.D
Als bottle: 5 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah+2.sub
Target Version: 4.14
Processing Host: TAM1000

		QUANT SIG					AMOUNTS	
							CAL-AMT	ON-COL
Compounds		MASS	RT	EXP RT	REL RT	RESPONSE	(ug/ml)	(ug/ml)
*	1 Naphthalene-d8	136	2.538	2.538	(1.000)	2958263	40.0000	
*	7 Acenaphthene-d10	164	3.569	3.569	(1.000)	2768852	40.0000	
*	11 Phenanthrene-d10	188	4.520	4.520	(1.000)	4290451	40.0000	
$	15 o-Terphenyl	230	4.809	4.814	(1.064)	32569	1.00000	1.9721
*	19 Chrysene-d12	240	6.540	6.545	(1.000)	3939651	40.0000	
*	24 Perylene-d12	264	7.629	7.635	(1.000)	3098651	40.0000	
	2 Naphthalene	128	2.544	2.549	(1.002)	50755	1.00000	0.9091
	3 2-Methylnaphthalene	141	2.955	2.955	(1.164)	23246	1.00000	1.2626
	4 1-Methylnaphthalene	142	3.008	3.014	(1.185)	30822	1.00000	1.5455
	5 1,1'-Biphenyl	154	3.233	3.238	(1.274)	37077	1.00000	1.6593
	6 Acenaphthylene	152	3.478	3.478	(0.975)	50937	1.00000	1.7550
	8 Acenaphthene	154	3.580	3.585	(1.003)	29265	1.00000	1.8519
	9 Dibenzofuran	168	3.687	3.692	(1.033)	46047	1.00000	1.6060
	10 Fluorene	166	3.895	3.900	(1.091)	38608	1.00000	1.7272
	12 Phenanthrene	178	4.531	4.536	(1.002)	49548	1.00000	1.5483
	13 Anthracene	178	4.563	4.568	(1.009)	48088	1.00000	1.8901
	16 Fluoranthene	202	5.396	5.402	(1.194)	60076	1.00000	1.4766
	17 Pyrene	202	5.562	5.567	(0.851)	60667	1.00000	1.2317
	18 Benzo(a)anthracene	228	6.534	6.534	(0.999)	94159	1.00000	1.0014
	20 Chrysene	228	6.556	6.566	(1.002)	52962	1.00000	0.8075
	21 Benzo(b)fluoranthene	252	7.346	7.357	(0.963)	50786	1.00000	1.0734
	22 Benzo(k)fluoranthene	252	7.368	7.378	(0.966)	60359	1.00000	1.5331
	23 Benzo(a)pyrene	252	7.576	7.586	(0.993)	51861	1.00000	1.3436
	25 Indeno(1,2,3-cd)pyrene	276	8.383	8.398	(1.099)	50075	1.00000	0.9185(M)
	26 Dibenzo(a,h)anthracene	278	8.409	8.420	(1.102)	47744	1.00000	1.3302
	27 Benzo(g,h,i)perylene	276	8.596	8.612	(1.127)	47575	1.00000	0.9687

QC Flag Legend

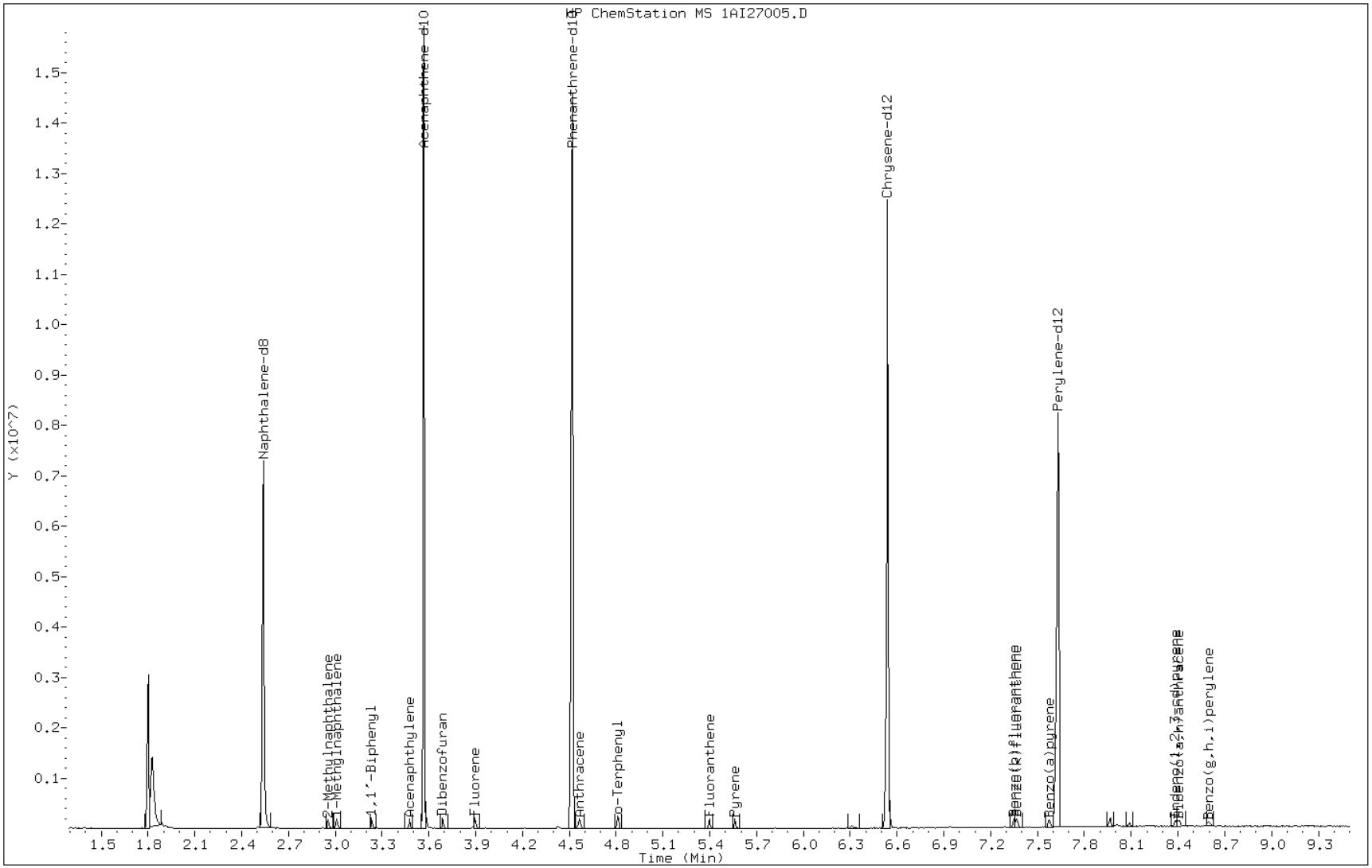
M - Compound response manually integrated.

Data File: 1AI27005.D

Date: 27-SEP-2013 12:00

Client ID: Instrument: BSMA5973.i

Sample Info: IC-1591239 Operator: SCC



Manual Integration Report

Data File: 1AI27005.D
Inj. Date and Time: 27-SEP-2013 12:00
Instrument ID: BSMA5973.i
Client ID:
Compound: 25 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 09/27/2013

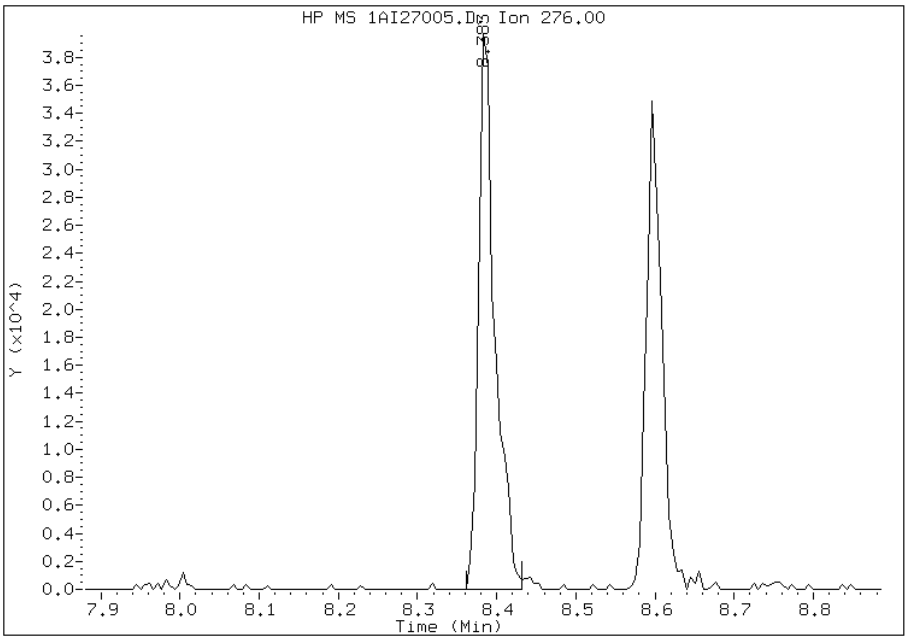
Processing Integration Results

RT: 8.38

Response: 56659

Amount: 1

Conc: 1



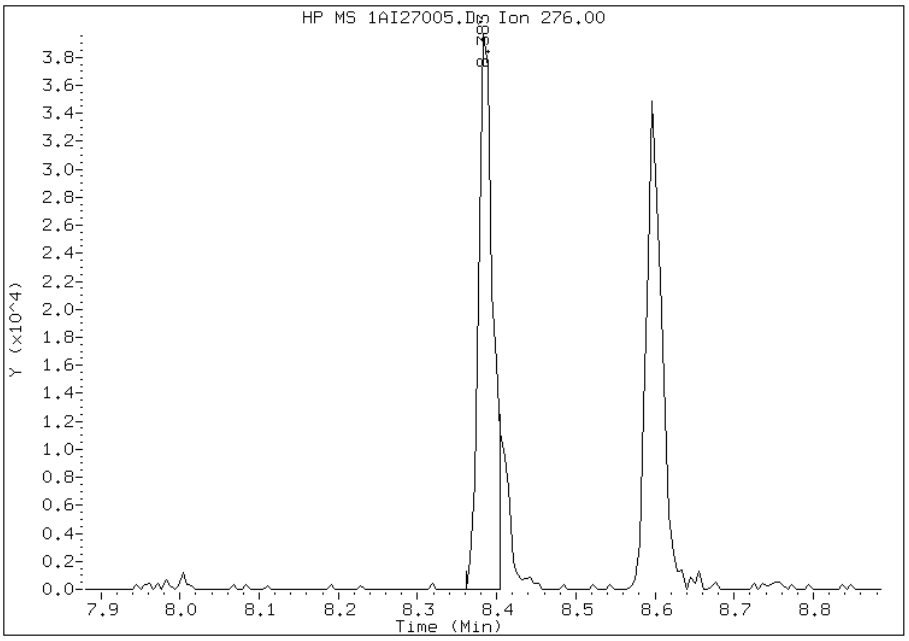
Manual Integration Results

RT: 8.38

Response: 50075

Amount: 1

Conc: 1



Manually Integrated By: cantins
Modification Date: 27-Sep-2013 13:37
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A092713.b\1AI27006.D
Lab Smp Id: IC-1591240
Inj Date : 27-SEP-2013 12:16
Operator : SCC Inst ID: BSMA5973.i
Smp Info : IC-1591240
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A092713.b\a-bFASTPAHi-m.m
Meth Date : 27-Sep-2013 13:48 BSMA5973.i Quant Type: ISTD
Cal Date : 27-SEP-2013 12:00 Cal File: 1AI27005.D
Als bottle: 6 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah+2.sub
Target Version: 4.14
Processing Host: TAM1000

						AMOUNTS	
		QUANT SIG				CAL-AMT	ON-COL
	Compounds	MASS	RT	EXP RT	REL RT RESPONSE	(ug/ml)	(ug/ml)
*	1 Naphthalene-d8	136	2.539	2.538	(1.000) 3100191	40.0000	
*	7 Acenaphthene-d10	164	3.570	3.569	(1.000) 2749912	40.0000	
*	11 Phenanthrene-d10	188	4.521	4.520	(1.000) 4363010	40.0000	
$	15 o-Terphenyl	230	4.815	4.814	(1.065) 189024	5.00000	4.5018
*	19 Chrysene-d12	240	6.540	6.545	(1.000) 4271780	40.0000	
*	24 Perylene-d12	264	7.635	7.635	(1.000) 3266087	40.0000	
	2 Naphthalene	128	2.544	2.549	(1.002) 259447	5.00000	4.4343
	3 2-Methylnaphthalene	141	2.955	2.955	(1.164) 138256	5.00000	4.9694
	4 1-Methylnaphthalene	142	3.009	3.014	(1.185) 160238	5.00000	4.9422
	5 1,1'-Biphenyl	154	3.233	3.238	(1.273) 204196	5.00000	4.6208
	6 Acenaphthylene	152	3.479	3.478	(0.975) 271305	5.00000	4.4730
	8 Acenaphthene	154	3.586	3.585	(1.004) 147702	5.00000	4.3061
	9 Dibenzofuran	168	3.687	3.692	(1.033) 228328	5.00000	4.3163
	10 Fluorene	166	3.896	3.900	(1.091) 194587	5.00000	4.4470
	12 Phenanthrene	178	4.531	4.536	(1.002) 282428	5.00000	4.3714
	13 Anthracene	178	4.563	4.568	(1.009) 266293	5.00000	4.5078
	16 Fluoranthene	202	5.397	5.402	(1.194) 327889	5.00000	4.5453
	17 Pyrene	202	5.562	5.567	(0.851) 329125	5.00000	4.7073
	18 Benzo(a)anthracene	228	6.535	6.534	(0.999) 424489	5.00000	4.4655
	20 Chrysene	228	6.556	6.566	(1.002) 307057	5.00000	4.3180
	21 Benzo(b)fluoranthene	252	7.352	7.357	(0.963) 326146	5.00000	5.2382
	22 Benzo(k)fluoranthene	252	7.368	7.378	(0.965) 292648	5.00000	4.7160
	23 Benzo(a)pyrene	252	7.582	7.586	(0.993) 269960	5.00000	4.8534
	25 Indeno(1,2,3-cd)pyrene	276	8.388	8.398	(1.099) 253567	5.00000	4.4127(M)
	26 Dibenzo(a,h)anthracene	278	8.410	8.420	(1.101) 240396	5.00000	4.9619
	27 Benzo(g,h,i)perylene	276	8.602	8.612	(1.127) 235119	5.00000	4.5423

QC Flag Legend

M - Compound response manually integrated.

Data File: 1AI27006.D

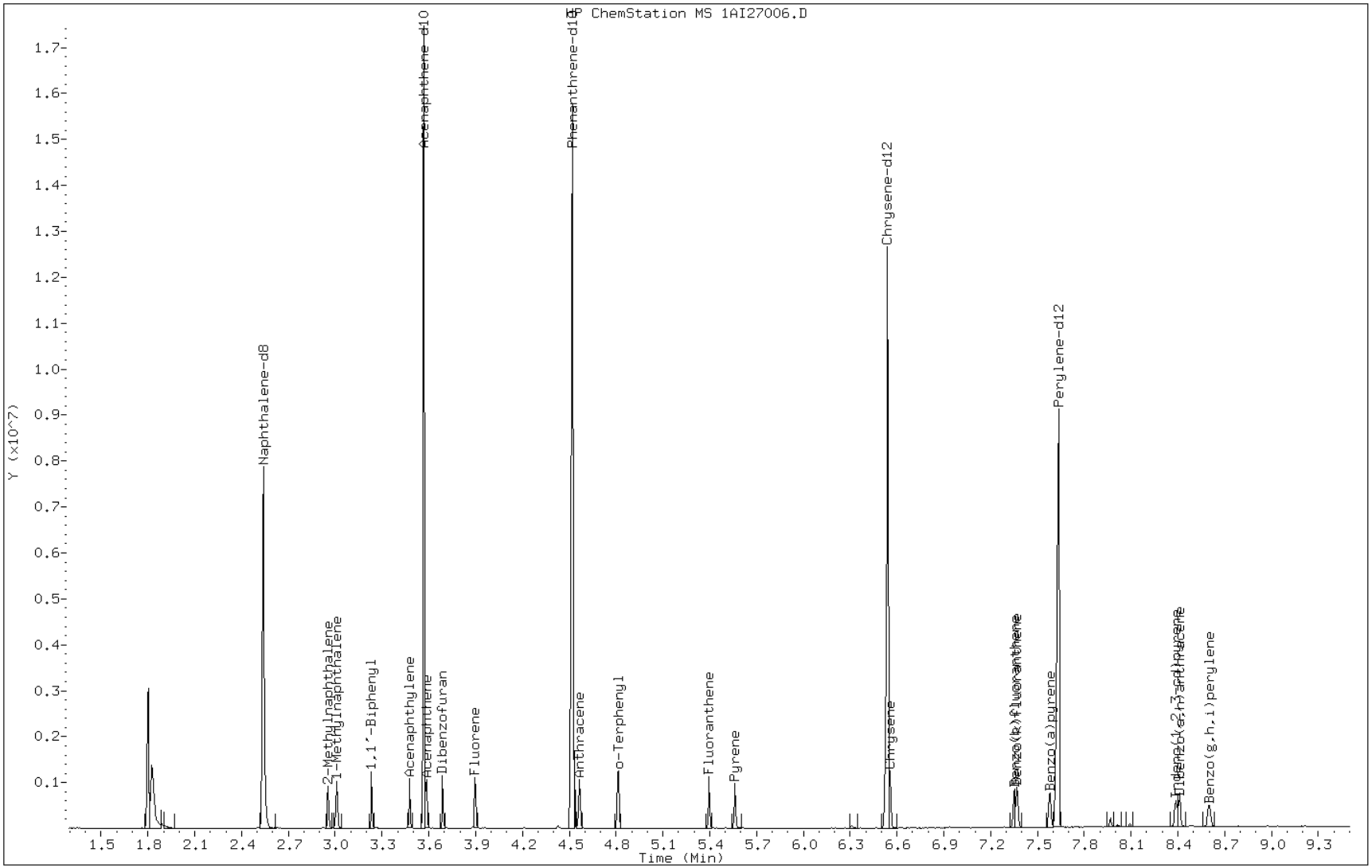
Date: 27-SEP-2013 12:16

Client ID:

Instrument: BSMA5973.i

Sample Info: IC-1591240

Operator: SCC



Manual Integration Report

Data File: 1AI27006.D
Inj. Date and Time: 27-SEP-2013 12:16
Instrument ID: BSMA5973.i
Client ID:
Compound: 25 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 09/27/2013

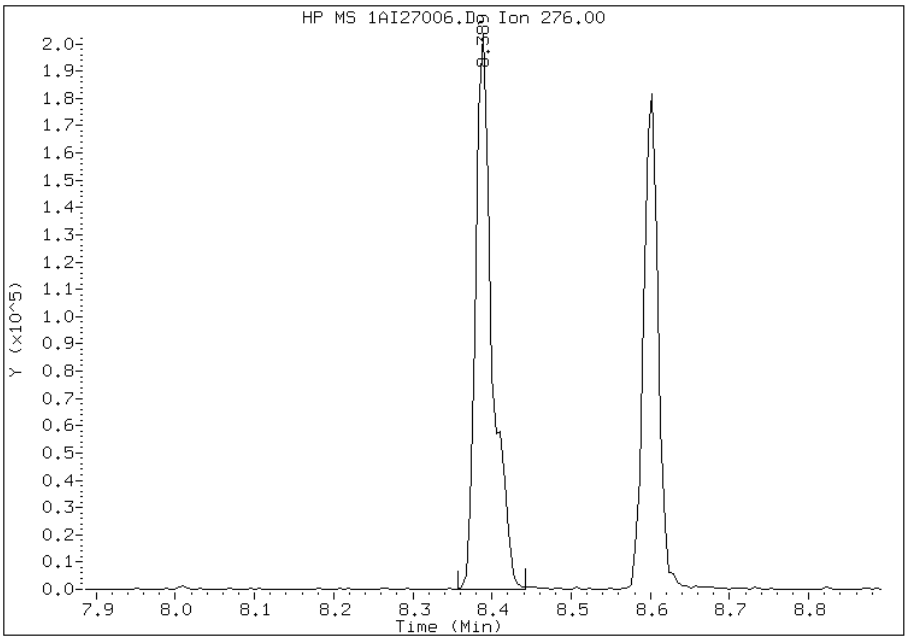
Processing Integration Results

RT: 8.39

Response: 294612

Amount: 5

Conc: 5



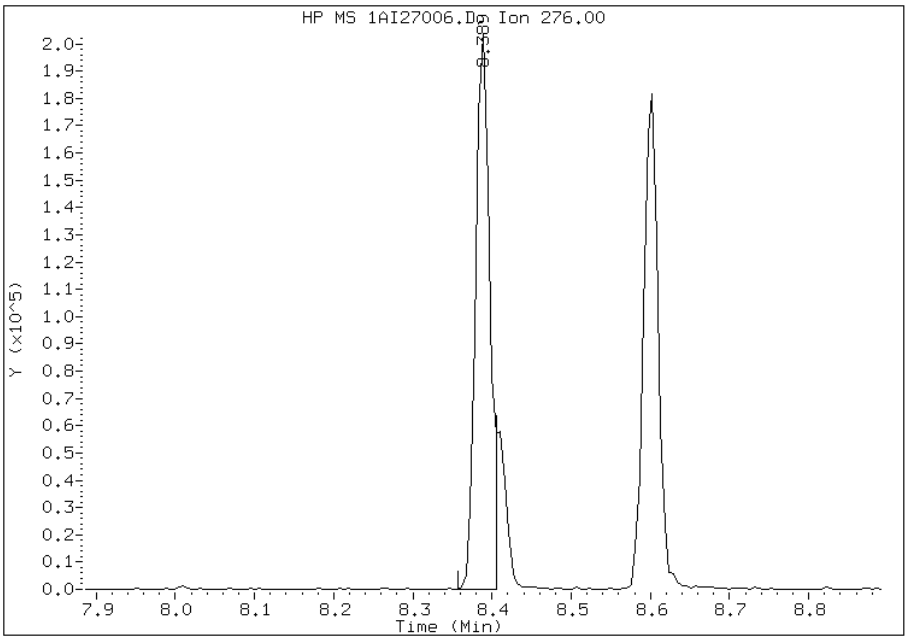
Manual Integration Results

RT: 8.39

Response: 253567

Amount: 4

Conc: 4



Manually Integrated By: cantins
Modification Date: 27-Sep-2013 13:37
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A092713.b\1AI27007.D
Lab Smp Id: IC-1591241
Inj Date : 27-SEP-2013 12:31
Operator : SCC Inst ID: BSMA5973.i
Smp Info : IC-1591241
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A092713.b\a-bFASTPAHi-m.m
Meth Date : 27-Sep-2013 13:48 BSMA5973.i Quant Type: ISTD
Cal Date : 27-SEP-2013 12:16 Cal File: 1AI27006.D
Als bottle: 7 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah+2.sub
Target Version: 4.14
Processing Host: TAM1000

						AMOUNTS	
		QUANT SIG				CAL-AMT	ON-COL
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/ml)	(ug/ml)
*	1 Naphthalene-d8	136	2.535	2.538	(1.000)	3119787	40.0000	
*	7 Acenaphthene-d10	164	3.566	3.569	(1.000)	2377490	40.0000	
*	11 Phenanthrene-d10	188	4.517	4.520	(1.000)	4127859	40.0000	
$	15 o-Terphenyl	230	4.811	4.814	(1.065)	405666	10.0000	8.2708
*	19 Chrysene-d12	240	6.542	6.545	(1.000)	4159402	40.0000	
*	24 Perylene-d12	264	7.626	7.635	(1.000)	3351143	40.0000	
	2 Naphthalene	128	2.546	2.549	(1.004)	525754	10.0000	8.9295
	3 2-Methylnaphthalene	141	2.957	2.955	(1.166)	284303	10.0000	9.4714
	4 1-Methylnaphthalene	142	3.011	3.014	(1.188)	326749	10.0000	9.1458
	5 1,1'-Biphenyl	154	3.235	3.238	(1.276)	449022	10.0000	8.8448
	6 Acenaphthylene	152	3.475	3.478	(0.975)	556337	10.0000	8.8886
	8 Acenaphthene	154	3.582	3.585	(1.004)	322061	10.0000	8.7826
	9 Dibenzofuran	168	3.689	3.692	(1.034)	476352	10.0000	8.9163
	10 Fluorene	166	3.897	3.900	(1.093)	393362	10.0000	8.8042
	12 Phenanthrene	178	4.533	4.536	(1.004)	641842	10.0000	8.9963
	13 Anthracene	178	4.565	4.568	(1.011)	581403	10.0000	8.5620
	16 Fluoranthene	202	5.399	5.402	(1.195)	701238	10.0000	9.1152
	17 Pyrene	202	5.564	5.567	(0.851)	706734	10.0000	9.7387
	18 Benzo(a)anthracene	228	6.531	6.534	(0.998)	869370	10.0000	9.4981
	20 Chrysene	228	6.558	6.566	(1.002)	636962	10.0000	9.1995
	21 Benzo(b)fluoranthene	252	7.348	7.357	(0.964)	607243	10.0000	9.1362
	22 Benzo(k)fluoranthene	252	7.370	7.378	(0.966)	655403	10.0000	9.3457
	23 Benzo(a)pyrene	252	7.578	7.586	(0.994)	557999	10.0000	9.1573
	25 Indeno(1,2,3-cd)pyrene	276	8.379	8.398	(1.099)	514521	10.0000	8.7267(M)
	26 Dibenzo(a,h)anthracene	278	8.401	8.420	(1.102)	497883	10.0000	9.4431
	27 Benzo(g,h,i)perylene	276	8.593	8.612	(1.127)	495021	10.0000	9.3207

QC Flag Legend

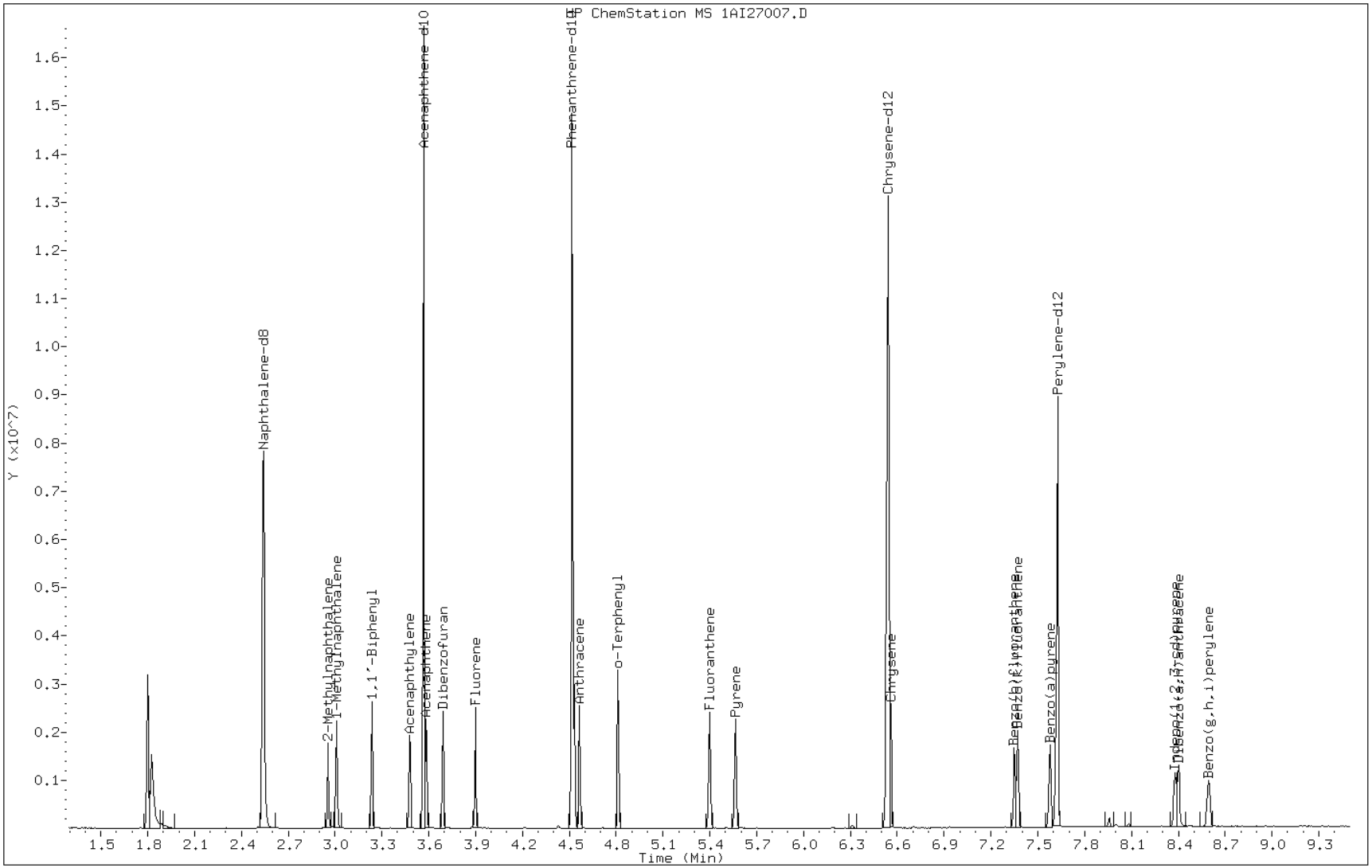
M - Compound response manually integrated.

Data File: 1AI27007.D

Date: 27-SEP-2013 12:31

Client ID: Instrument: BSMA5973.i

Sample Info: IC-1591241 Operator: SCC



Manual Integration Report

Data File: 1AI27007.D
Inj. Date and Time: 27-SEP-2013 12:31
Instrument ID: BSMA5973.i
Client ID:
Compound: 25 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 09/27/2013

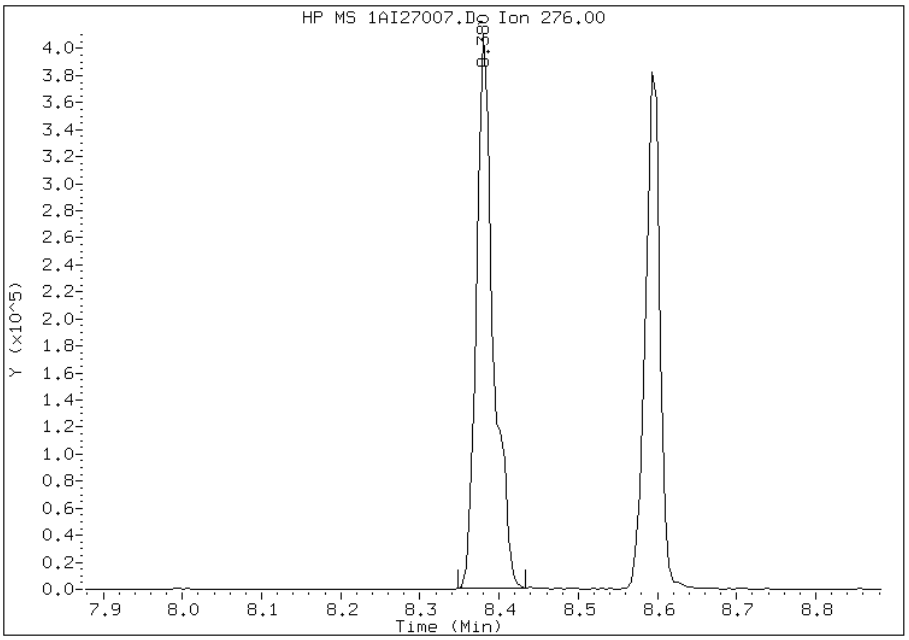
Processing Integration Results

RT: 8.38

Response: 599852

Amount: 10

Conc: 10



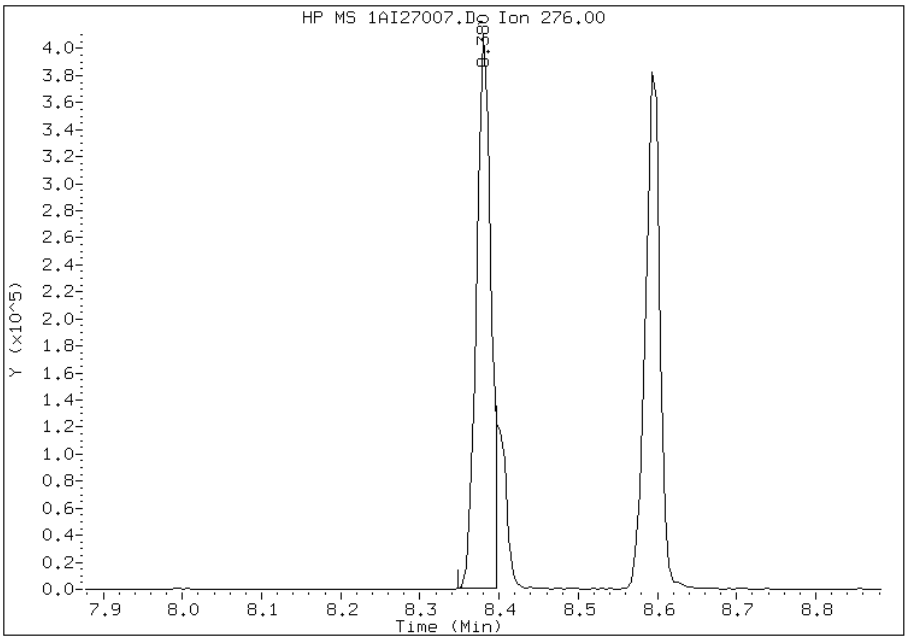
Manual Integration Results

RT: 8.38

Response: 514521

Amount: 9

Conc: 9



Manually Integrated By: cantins
Modification Date: 27-Sep-2013 13:38
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A092713.b\1AI27008.D
Lab Smp Id: IC-1591243
Inj Date : 27-SEP-2013 12:46
Operator : SCC Inst ID: BSMA5973.i
Smp Info : IC-1591243
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A092713.b\a-bFASTPAHi-m.m
Meth Date : 27-Sep-2013 13:48 BSMA5973.i Quant Type: ISTD
Cal Date : 27-SEP-2013 12:31 Cal File: 1AI27007.D
Als bottle: 8 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah+2.sub
Target Version: 4.14
Processing Host: TAM1000

						AMOUNTS	
	QUANT SIG					CAL-AMT	ON-COL
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/ml)	(ug/ml)
* 1 Naphthalene-d8	136	2.543	2.538	(1.000)	3629005	40.0000	
* 7 Acenaphthene-d10	164	3.568	3.569	(1.000)	2588147	40.0000	
* 11 Phenanthrene-d10	188	4.519	4.520	(1.000)	4184073	40.0000	
$ 15 o-Terphenyl	230	4.818	4.814	(1.066)	2135641	30.0000	31.8587
* 19 Chrysene-d12	240	6.544	6.545	(1.000)	5056535	40.0000	
* 24 Perylene-d12	264	7.634	7.635	(1.000)	3347836	40.0000	
2 Naphthalene	128	2.548	2.549	(1.002)	2221077	30.0000	32.4302
3 2-Methylnaphthalene	141	2.954	2.955	(1.162)	1290229	30.0000	30.9577
4 1-Methylnaphthalene	142	3.013	3.014	(1.185)	1600483	30.0000	31.5381
5 1,1'-Biphenyl	154	3.237	3.238	(1.273)	2250867	30.0000	31.7727
6 Acenaphthylene	152	3.483	3.478	(0.976)	2778966	30.0000	31.5865
8 Acenaphthene	154	3.584	3.585	(1.004)	1661376	30.0000	31.4345
9 Dibenzofuran	168	3.691	3.692	(1.034)	2263839	30.0000	30.6778
10 Fluorene	166	3.900	3.900	(1.093)	1962820	30.0000	31.1020
12 Phenanthrene	178	4.535	4.536	(1.004)	2834408	30.0000	30.8784
13 Anthracene	178	4.573	4.568	(1.012)	2890657	30.0000	31.8523
16 Fluoranthene	202	5.401	5.402	(1.195)	2971310	30.0000	30.9097
17 Pyrene	202	5.572	5.567	(0.851)	3123861	30.0000	30.5573
18 Benzo(a)anthracene	228	6.539	6.534	(0.999)	3202926	30.0000	28.9787
20 Chrysene	228	6.565	6.566	(1.003)	2825035	30.0000	33.5624
21 Benzo(b)fluoranthene	252	7.361	7.357	(0.964)	2325184	30.0000	30.0686
22 Benzo(k)fluoranthene	252	7.383	7.378	(0.967)	2660807	30.0000	31.4379
23 Benzo(a)pyrene	252	7.586	7.586	(0.994)	2191097	30.0000	30.6298
25 Indeno(1,2,3-cd)pyrene	276	8.398	8.398	(1.100)	1948616	30.0000	33.0828
26 Dibenzo(a,h)anthracene	278	8.424	8.420	(1.104)	1934136	30.0000	30.8237
27 Benzo(g,h,i)perylene	276	8.617	8.612	(1.129)	1673226	30.0000	31.5363

Data File: 1AI27008.D

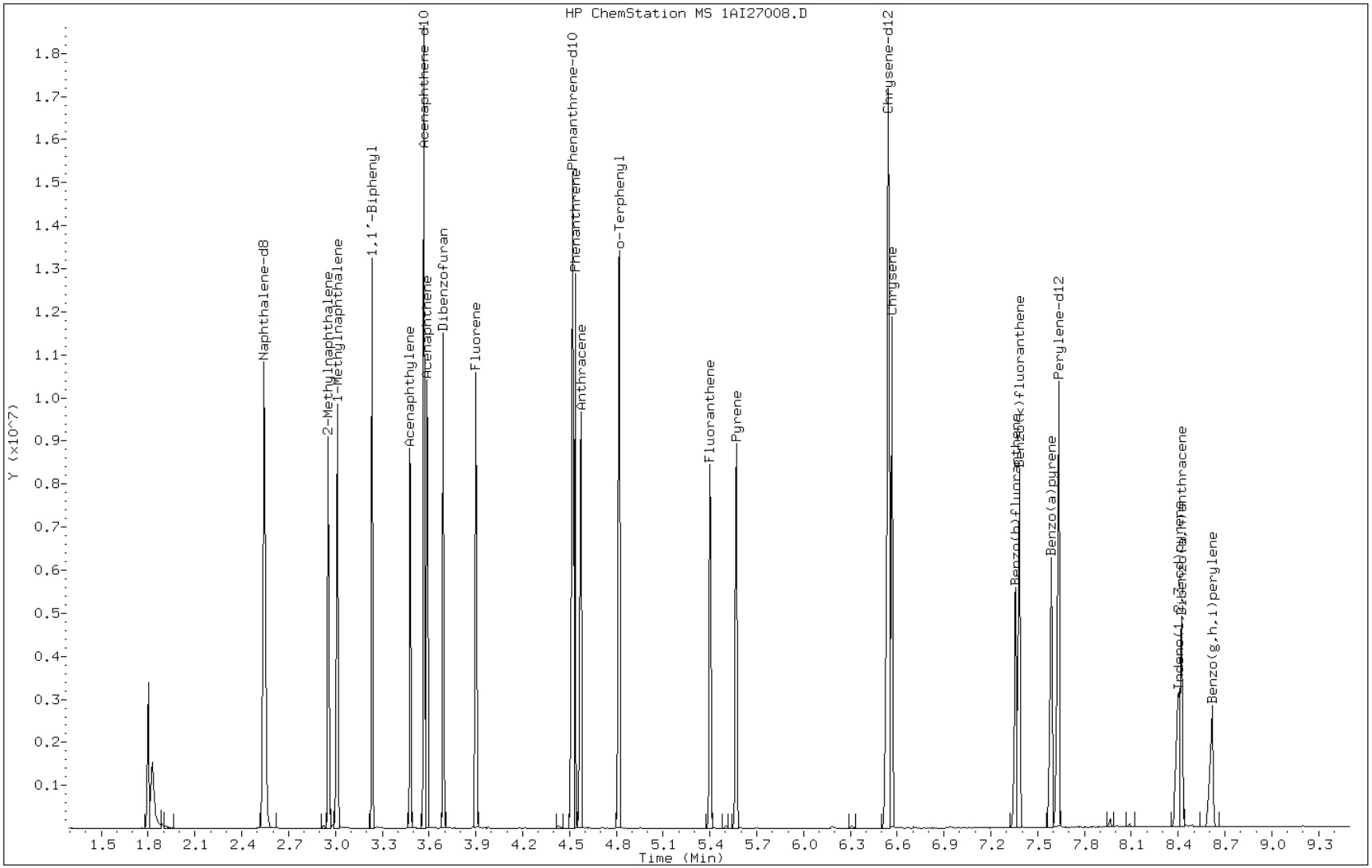
Date: 27-SEP-2013 12:46

Client ID:

Instrument: BSMA5973.i

Sample Info: IC-1591243

Operator: SCC



TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A092713.b\1AI27009.D
Lab Smp Id: IC-1591244
Inj Date : 27-SEP-2013 13:01
Operator : SCC Inst ID: BSMA5973.i
Smp Info : IC-1591244
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A092713.b\a-bFASTPAHi-m.m
Meth Date : 27-Sep-2013 13:48 BSMA5973.i Quant Type: ISTD
Cal Date : 27-SEP-2013 12:46 Cal File: 1AI27008.D
Als bottle: 9 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah+2.sub
Target Version: 4.14
Processing Host: TAM1000

		QUANT SIG					AMOUNTS	
							CAL-AMT	ON-COL
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/ml)	(ug/ml)
*	1 Naphthalene-d8	136	2.544	2.538	(1.000)	3784169	40.0000	
*	7 Acenaphthene-d10	164	3.569	3.569	(1.000)	2416529	40.0000	
*	11 Phenanthrene-d10	188	4.520	4.520	(1.000)	3938142	40.0000	
$	15 o-Terphenyl	230	4.819	4.814	(1.066)	4026252	50.0000	49.6559
*	19 Chrysene-d12	240	6.550	6.545	(1.000)	5253510	40.0000	
*	24 Perylene-d12	264	7.640	7.635	(1.000)	3305668	40.0000	
	2 Naphthalene	128	2.549	2.549	(1.002)	4594922	50.0000	64.3400(A)
	3 2-Methylnaphthalene	141	2.955	2.955	(1.162)	2810584	50.0000	49.8558
	4 1-Methylnaphthalene	142	3.014	3.014	(1.185)	3334186	50.0000	49.7336
	5 1,1'-Biphenyl	154	3.238	3.238	(1.273)	4122583	50.0000	49.5757
	6 Acenaphthylene	152	3.484	3.478	(0.976)	5428432	50.0000	49.7416
	8 Acenaphthene	154	3.591	3.585	(1.006)	3613242	50.0000	49.8136
	9 Dibenzofuran	168	3.692	3.692	(1.034)	5116674	50.0000	49.9112
	10 Fluorene	166	3.906	3.900	(1.094)	4671874	50.0000	49.8819
	12 Phenanthrene	178	4.542	4.536	(1.005)	6289473	50.0000	49.8861
	13 Anthracene	178	4.574	4.568	(1.012)	5455887	50.0000	49.6626
	16 Fluoranthene	202	5.407	5.402	(1.196)	5952291	50.0000	49.8559
	17 Pyrene	202	5.573	5.567	(0.851)	6491592	50.0000	49.9065
	18 Benzo(a)anthracene	228	6.540	6.534	(0.998)	6058130	50.0000	52.8347(A)
	20 Chrysene	228	6.572	6.566	(1.003)	5410782	50.0000	61.8718(A)
	21 Benzo(b)fluoranthene	252	7.368	7.357	(0.964)	4918161	50.0000	49.9723
	22 Benzo(k)fluoranthene	252	7.389	7.378	(0.967)	5196187	50.0000	49.7471
	23 Benzo(a)pyrene	252	7.597	7.586	(0.994)	4331524	50.0000	49.8826
	25 Indeno(1,2,3-cd)pyrene	276	8.420	8.398	(1.102)	3706099	50.0000	63.7233(A)
	26 Dibenzo(a,h)anthracene	278	8.441	8.420	(1.105)	4176110	50.0000	49.8876
	27 Benzo(g,h,i)perylene	276	8.639	8.612	(1.131)	3066977	50.0000	58.5426(A)

QC Flag Legend

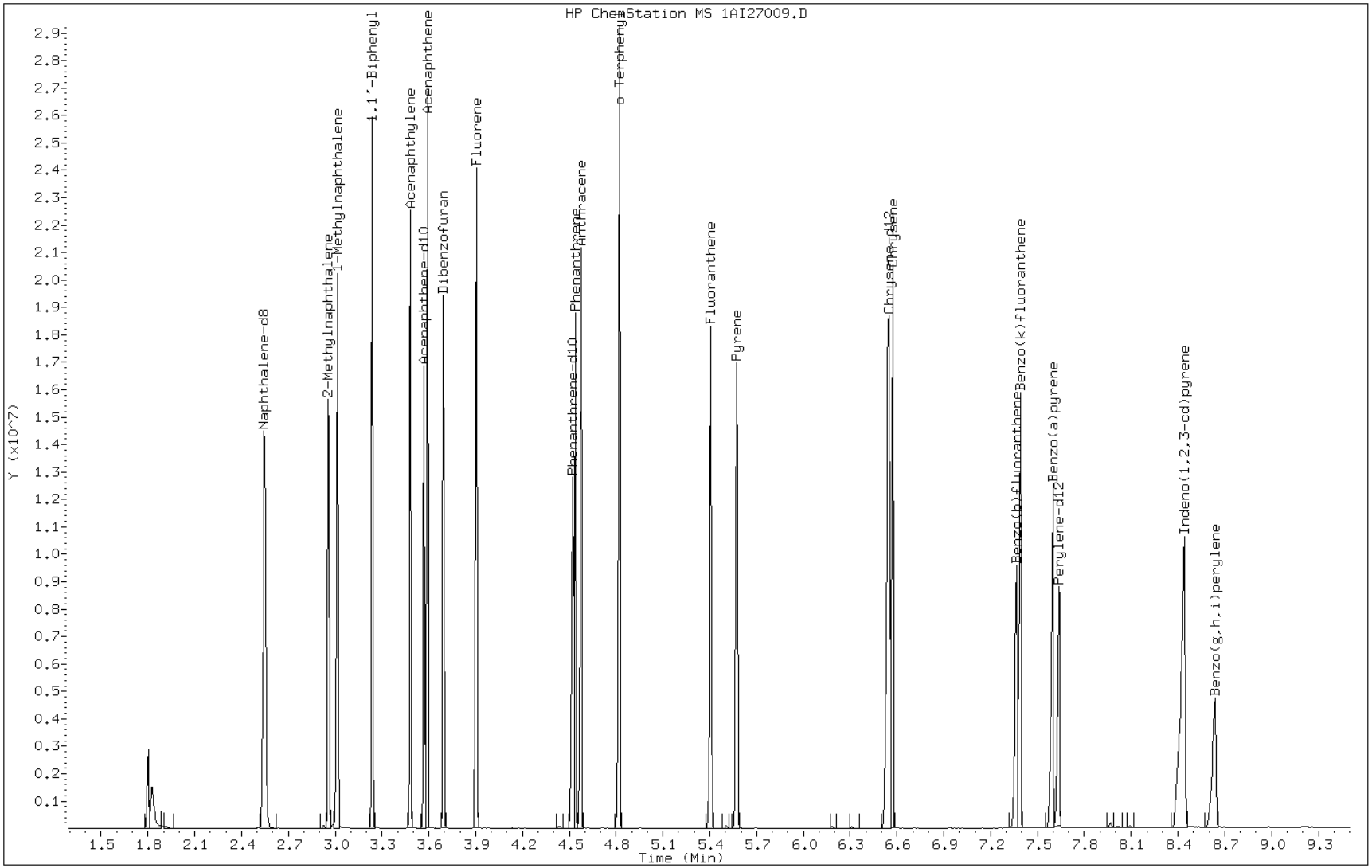
A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: 1AI27009.D

Date: 27-SEP-2013 13:01

Client ID: Instrument: BSMA5973.i

Sample Info: IC-1591244 Operator: SCC



FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-94506-2

SDG No.: 680-94506-2

Lab Sample ID: ICV 660-141781/10 Calibration Date: 09/26/2013 14:16

Instrument ID: BSMA5973 Calib Start Date: 09/26/2013 12:30

GC Column: DB-5MS ID: 250.00(um) Calib End Date: 09/26/2013 14:01

Lab File ID: 1AI26010.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Qua	0.7560	0.7993	0.0000	20.3	20.0	1.3	35.0
2-Methylnaphthalene	Qua	0.4044	0.4601	0.0000	20.8	20.0	4.2	35.0
1-Methylnaphthalene	Qua	0.4678	0.4848	0.0000	20.2	20.0	0.8	35.0
1,1'-Biphenyl	Qua	0.6533	0.6468		19.9	20.0	-0.7	
Acenaphthylene	Qua	1.089	1.291	0.0000	22.4	20.0	12.0	35.0
Acenaphthene	Qua	0.6822	0.7978	0.0000	23.0	20.0	15.2	35.0
Dibenzofuran	Qua	1.010	1.059		20.1	20.0	0.5	
Fluorene	Qua	0.8056	0.9355	0.0000	21.6	20.0	8.0	35.0
Phenanthrene	Qua	0.7431	0.8408	0.0000	20.9	20.0	4.4	35.0
Anthracene	Qua	0.7257	0.8415	0.0000	21.9	20.0	9.3	35.0
Fluoranthene	Qua	0.8053	0.9396	0.0000	21.9	20.0	9.7	35.0
Pyrene	Qua	0.7458	0.9381	0.0000	24.0	20.0	20.2	35.0
Benzo[a]anthracene	Lin1	1.008	1.118	0.0000	24.4	20.0	22.1	35.0
Chrysene	Ave	0.7154	0.8447	0.0000	23.6	20.0	18.1	35.0
Benzo[b]fluoranthene	Ave	0.8935	0.9573	0.0000	21.4	20.0	7.1	35.0
Benzo[k]fluoranthene	Qua	0.9241	1.048	0.0000	22.0	20.0	10.0	35.0
Benzo[a]pyrene	Ave	0.7868	0.9040	0.0000	23.0	20.0	14.9	35.0
Indeno[1,2,3-cd]pyrene	Ave	0.7740	0.8671	0.0000	22.4	20.0	12.0	35.0
Dibenz(a,h)anthracene	Ave	0.7571	0.8543	0.0000	22.6	20.0	12.8	35.0
Benzo[g,h,i]perylene	Ave	0.7352	0.8386	0.0000	22.8	20.0	14.1	35.0
o-Terphenyl	Qua	0.4828	0.5224	0.0000	19.9	20.0	-0.6	35.0

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A092613.b\1AI26010.D
Lab Smp Id: ICV-1558374
Inj Date : 26-SEP-2013 14:16
Operator : SCC Inst ID: BSMA5973.i
Smp Info : ICV-1558374
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A092613.b\a-bFASTPAHi-m.m
Meth Date : 26-Sep-2013 14:34 BSMA5973.i Quant Type: ISTD
Cal Date : 26-SEP-2013 14:01 Cal File: 1AI26009.D
Als bottle: 10 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah+2.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula: Amt * DF * 1/Vi * Vt/Vo * A * B * C * D * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Vo	1000.000	Sample Volume
A	1000.000	uL to mL conversion
B	1000.000	mL to L conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1= if no con
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/l)
*	1 Naphthalene-d8	136	2.539	2.544	(1.000)	1733076	40.0000	
*	7 Acenaphthene-d10	164	3.570	3.575	(1.000)	1137818	40.0000	
*	11 Phenanthrene-d10	188	4.521	4.526	(1.000)	1773509	40.0000	
$	15 o-Terphenyl	230	4.820	4.819	(1.066)	463242	19.8705	19.8704
*	19 Chrysene-d12	240	6.551	6.550	(1.000)	1781784	40.0000	
*	24 Perylene-d12	264	7.636	7.635	(1.000)	1456222	40.0000	
	2 Naphthalene	128	2.550	2.554	(1.004)	692638	20.2622	20.2622
	3 2-Methylnaphthalene	141	2.961	2.960	(1.166)	398731	20.8457	20.8457
	4 1-Methylnaphthalene	142	3.015	3.014	(1.187)	420121	20.1683	20.1682
	5 1,1'-Biphenyl	154	3.239	3.238	(1.276)	560512	19.8678	19.8678
	6 Acenaphthylene	152	3.485	3.484	(0.976)	734644	22.4049	22.4048
	8 Acenaphthene	154	3.592	3.591	(1.006)	453869	23.0381	23.0381
	9 Dibenzofuran	168	3.693	3.698	(1.034)	602309	20.0950	20.0949
	10 Fluorene	166	3.907	3.906	(1.094)	532204	21.6014	21.6013
	12 Phenanthrene	178	4.537	4.542	(1.004)	745602	20.8760	20.8760
	13 Anthracene	178	4.575	4.574	(1.012)	746196	21.8580	21.8580
	16 Fluoranthene	202	5.408	5.407	(1.196)	833232	21.9414	21.9413

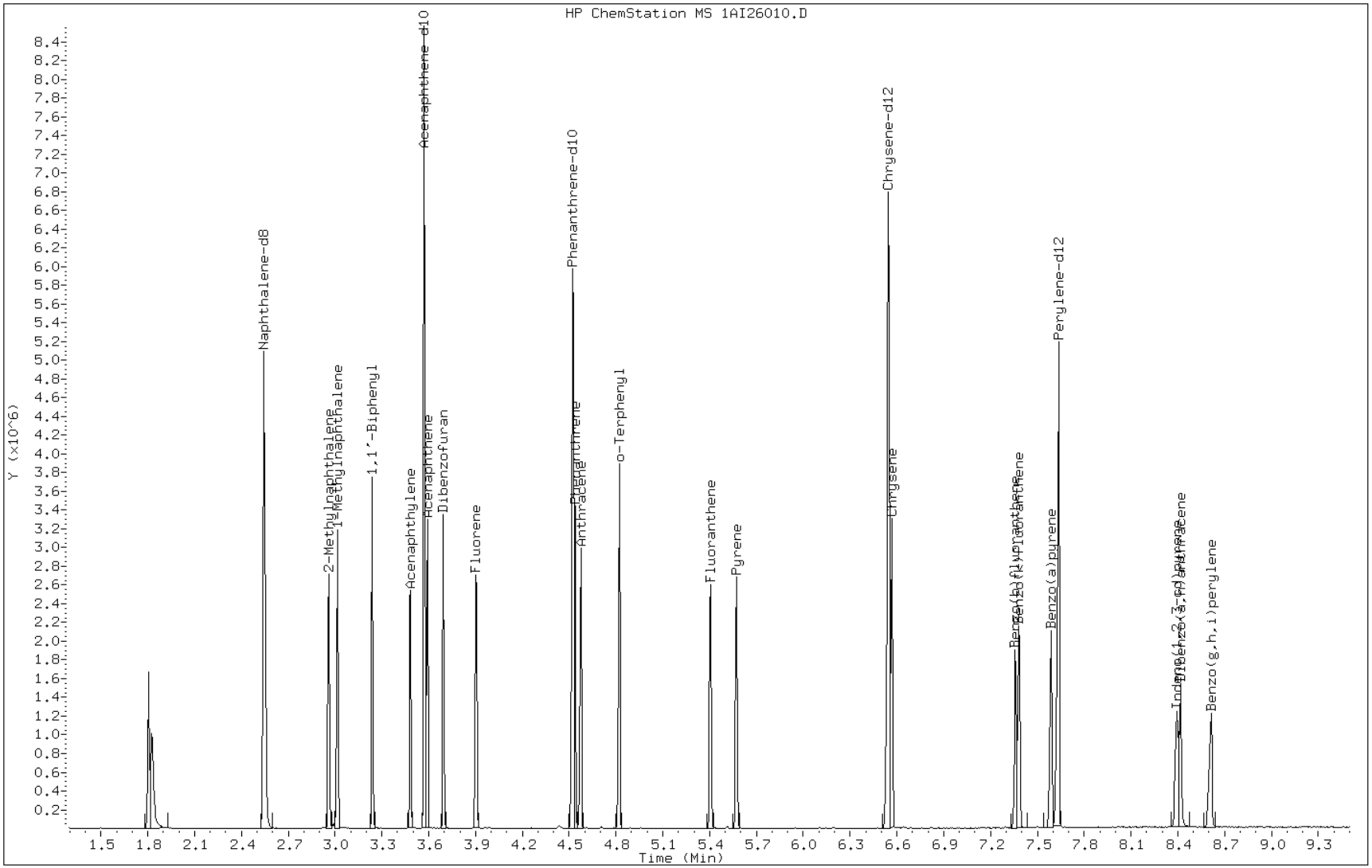
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/l)
17 Pyrene	202	5.574	5.573	(0.851)	835774	24.0491	24.0490
18 Benzo(a)anthracene	228	6.541	6.540	(0.998)	996071	24.4119	24.4119
20 Chrysene	228	6.567	6.566	(1.002)	752495	23.6146	23.6145
21 Benzo(b)fluoranthene	252	7.358	7.362	(0.964)	697016	21.4270	21.4269
22 Benzo(k)fluoranthene	252	7.385	7.384	(0.967)	763277	22.0078	22.0077
23 Benzo(a)pyrene	252	7.588	7.587	(0.994)	658245	22.9815	22.9814
25 Indeno(1,2,3-cd)pyrene	276	8.394	8.399	(1.099)	631331	22.4047	22.4046
26 Dibenzo(a,h)anthracene	278	8.416	8.420	(1.102)	622006	22.5666	22.5666
27 Benzo(g,h,i)perylene	276	8.613	8.618	(1.128)	610593	22.8133	22.8133

Data File: 1AI26010.D

Date: 26-SEP-2013 14:16

Client ID: Instrument: BSMA5973.i

Sample Info: ICV-1558374 Operator: SCC



FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-94506-2

SDG No.: 680-94506-2

Lab Sample ID: ICV 660-141824/10 Calibration Date: 09/27/2013 13:16

Instrument ID: BSMA5973 Calib Start Date: 09/27/2013 11:23

GC Column: DB-5MS ID: 250.00(um) Calib End Date: 09/27/2013 13:01

Lab File ID: 1AI27010.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	0.7549	0.8320	0.0000	22.0	20.0	10.2	35.0
2-Methylnaphthalene	Qua	0.4042	0.4530	0.0000	21.3	20.0	6.7	35.0
1-Methylnaphthalene	Qua	0.4874	0.4896	0.0000	19.4	20.0	-3.2	35.0
1,1'-Biphenyl	Qua	0.6355	0.6671		18.6	20.0	-7.2	
Acenaphthylene	Qua	1.078	1.253	0.0000	20.5	20.0	2.5	35.0
Acenaphthene	Qua	0.6503	0.7368	0.0000	20.3	20.0	1.4	35.0
Dibenzofuran	Qua	0.9550	0.9573		18.9	20.0	-5.7	
Fluorene	Qua	0.8097	0.9418	0.0000	21.4	20.0	6.8	35.0
Phenanthrene	Qua	0.7490	0.8574	0.0000	21.5	20.0	7.3	35.0
Anthracene	Qua	0.6761	0.8111	0.0000	20.8	20.0	3.9	35.0
Fluoranthene	Qua	0.7779	0.9127	0.0000	21.6	20.0	7.9	35.0
Pyrene	Qua	0.7191	0.9366	0.0000	24.2	20.0	21.2	35.0
Benzo[a]anthracene	Lin1	0.9476	1.082	0.0000	24.7	20.0	23.7	35.0
Chrysene	Ave	0.6659	0.8537	0.0000	25.6	20.0	28.2	35.0
Benzo[b]fluoranthene	Qua	0.8438	1.060	0.0000	24.1	20.0	20.3	35.0
Benzo[k]fluoranthene	Qua	0.9113	0.9586	0.0000	20.7	20.0	3.4	35.0
Benzo[a]pyrene	Qua	0.7702	0.8885	0.0000	22.1	20.0	10.6	35.0
Indeno[1,2,3-cd]pyrene	Ave	0.7038	0.7924	0.0000	22.5	20.0	12.6	35.0
Dibenz(a,h)anthracene	Qua	0.6873	0.7820	0.0000	22.4	20.0	12.1	35.0
Benzo[g,h,i]perylene	Ave	0.6339	0.7461	0.0000	23.5	20.0	17.7	35.0
o-Terphenyl	Qua	0.4857	0.5419	0.0000	19.2	20.0	-4.2	35.0

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A092713.b\1AI27010.D
Lab Smp Id: ICV-1558374
Inj Date : 27-SEP-2013 13:16
Operator : SCC Inst ID: BSMA5973.i
Smp Info : ICV-1558374
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A092713.b\a-bFASTPAHi-m.m
Meth Date : 27-Sep-2013 13:48 BSMA5973.i Quant Type: ISTD
Cal Date : 27-SEP-2013 13:01 Cal File: 1AI27009.D
Als bottle: 10 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah+2.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula: Amt * DF * 1/Vi * Vt/Vo * A * B * C * D * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Vo	1000.000	Sample Volume
A	1000.000	uL to mL conversion
B	1000.000	mL to L conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1= if no con
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/l)
*	1 Naphthalene-d8	136	2.538	2.538	(1.000)	3393715	40.0000	
*	7 Acenaphthene-d10	164	3.569	3.569	(1.000)	2539862	40.0000	
*	11 Phenanthrene-d10	188	4.520	4.520	(1.000)	3939050	40.0000	
$	15 o-Terphenyl	230	4.814	4.814	(1.065)	1067238	19.1580	19.1580
*	19 Chrysene-d12	240	6.545	6.545	(1.000)	3869024	40.0000	
*	24 Perylene-d12	264	7.635	7.635	(1.000)	3053583	40.0000	
	2 Naphthalene	128	2.549	2.549	(1.004)	1411838	22.0436	22.0436
	3 2-Methylnaphthalene	141	2.955	2.955	(1.164)	768690	21.3425	21.3425
	4 1-Methylnaphthalene	142	3.008	3.014	(1.185)	830796	19.3661	19.3660
	5 1,1'-Biphenyl	154	3.233	3.238	(1.274)	1131939	18.5580	18.5579
	6 Acenaphthylene	152	3.479	3.478	(0.975)	1591051	20.5034	20.5033
	8 Acenaphthene	154	3.585	3.585	(1.004)	935700	20.2878	20.2878
	9 Dibenzofuran	168	3.692	3.692	(1.034)	1215659	18.8620	18.8619
	10 Fluorene	166	3.901	3.900	(1.093)	1196063	21.3655	21.3654
	12 Phenanthrene	178	4.536	4.536	(1.004)	1688587	21.4517	21.4517
	13 Anthracene	178	4.568	4.568	(1.011)	1597502	20.7843	20.7842
	16 Fluoranthene	202	5.402	5.402	(1.195)	1797545	21.5759	21.5759

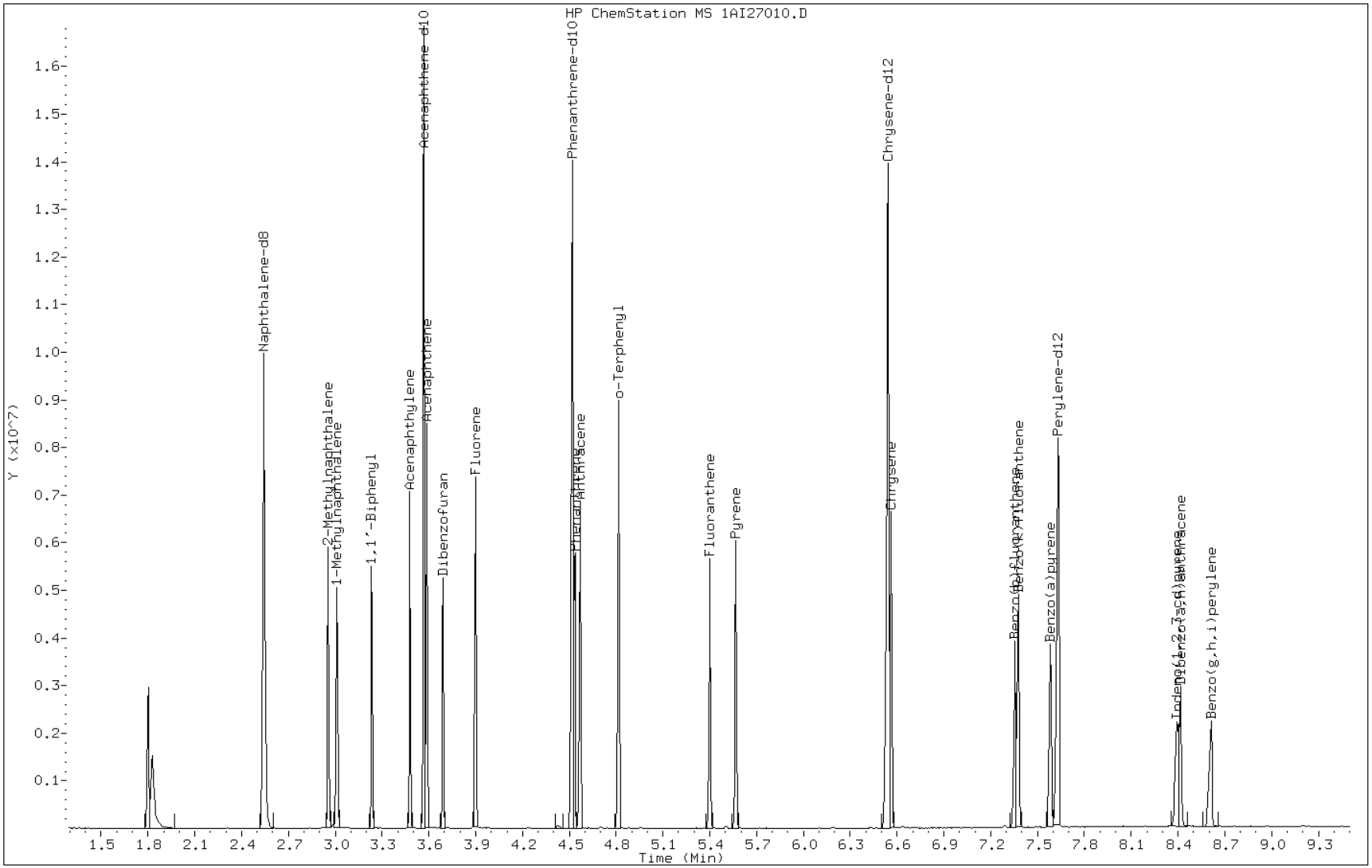
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/l)
17 Pyrene	202	5.567	5.567	(0.851)	1811807	24.2429	24.2429
18 Benzo(a)anthracene	228	6.534	6.534	(0.998)	2093369	24.7392	24.7391
20 Chrysene	228	6.561	6.566	(1.002)	1651417	25.6412	25.6411
21 Benzo(b)fluoranthene	252	7.357	7.357	(0.964)	1618594	24.0508	24.0508
22 Benzo(k)fluoranthene	252	7.378	7.378	(0.966)	1463530	20.6713	20.6712
23 Benzo(a)pyrene	252	7.581	7.586	(0.993)	1356527	22.1262	22.1262
25 Indeno(1,2,3-cd)pyrene	276	8.393	8.398	(1.099)	1209764	22.5181	22.5181
26 Dibenzo(a,h)anthracene	278	8.415	8.420	(1.102)	1193872	22.4137	22.4137
27 Benzo(g,h,i)perylene	276	8.612	8.612	(1.128)	1139126	23.5387	23.5387

Data File: 1AI27010.D

Date: 27-SEP-2013 13:16

Client ID: Instrument: BSMA5973.i

Sample Info: ICV-1558374 Operator: SCC



TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A092613.b\1AI26002.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 26-SEP-2013 12:16
Operator : SCC Inst ID: BSMA5973.i
Smp Info : DFTPP-1588025
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A092613.b\a-dftpp198.m
Meth Date : 04-Apr-2013 10:35 cantins Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 2 QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: None
Processing Host: TAM1000

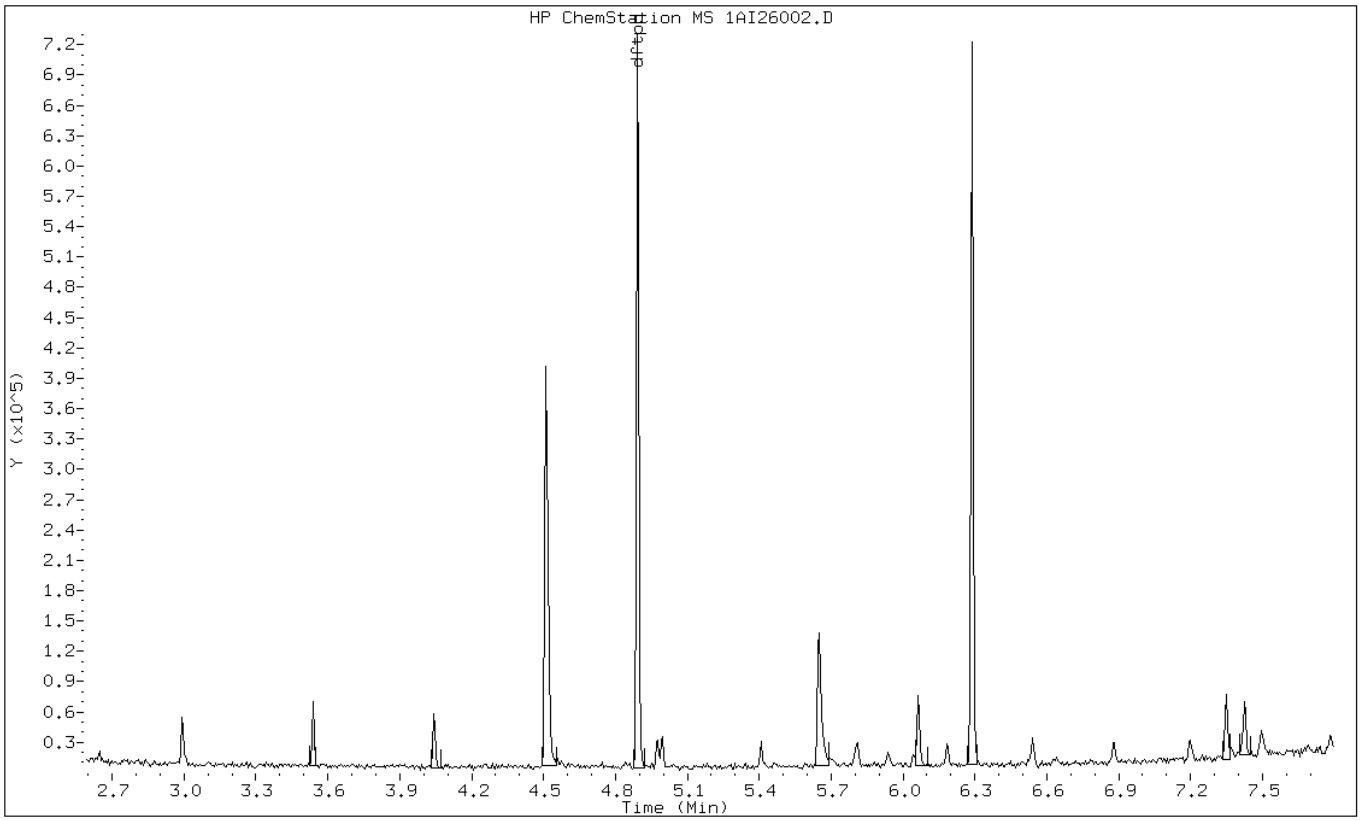
					CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT	DLT RT	MASS	RESPONSE	(ug/L)	(ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
4.890	4.963	-0.073	198	54304			50.00- 0.00	100.00
4.890	4.963	-0.073	51	12756			10.00- 80.00	23.49
4.890	4.963	-0.073	68	0	0.0	0.0	0.00- 2.00	0.00
4.890	4.963	-0.073	69	17608			0.00- 0.00	32.42
4.890	4.963	-0.073	70	0	0.0	0.0	0.00- 2.00	0.00
4.890	4.963	-0.073	127	21664			10.00- 80.00	39.89
4.890	4.963	-0.073	197	0	0.0	0.0	0.00- 2.00	0.00
4.890	4.963	-0.073	442	51184			50.00- 0.00	94.25
4.890	4.963	-0.073	199	3044			5.00- 9.00	5.61
4.890	4.963	-0.073	275	14215			10.00- 60.00	26.18
4.890	4.963	-0.073	365	3774			1.00- 0.00	6.95
4.890	4.963	-0.073	441	6969			0.01- 99.99	57.11
4.890	4.963	-0.073	443	12203			15.00- 24.00	23.84

Data File: 1AI26002.D

Date: 26-SEP-2013 12:16

Client ID: DFTPP Instrument: BSMA5973.i

Sample Info: DFTPP-1588025 Operator: SCC



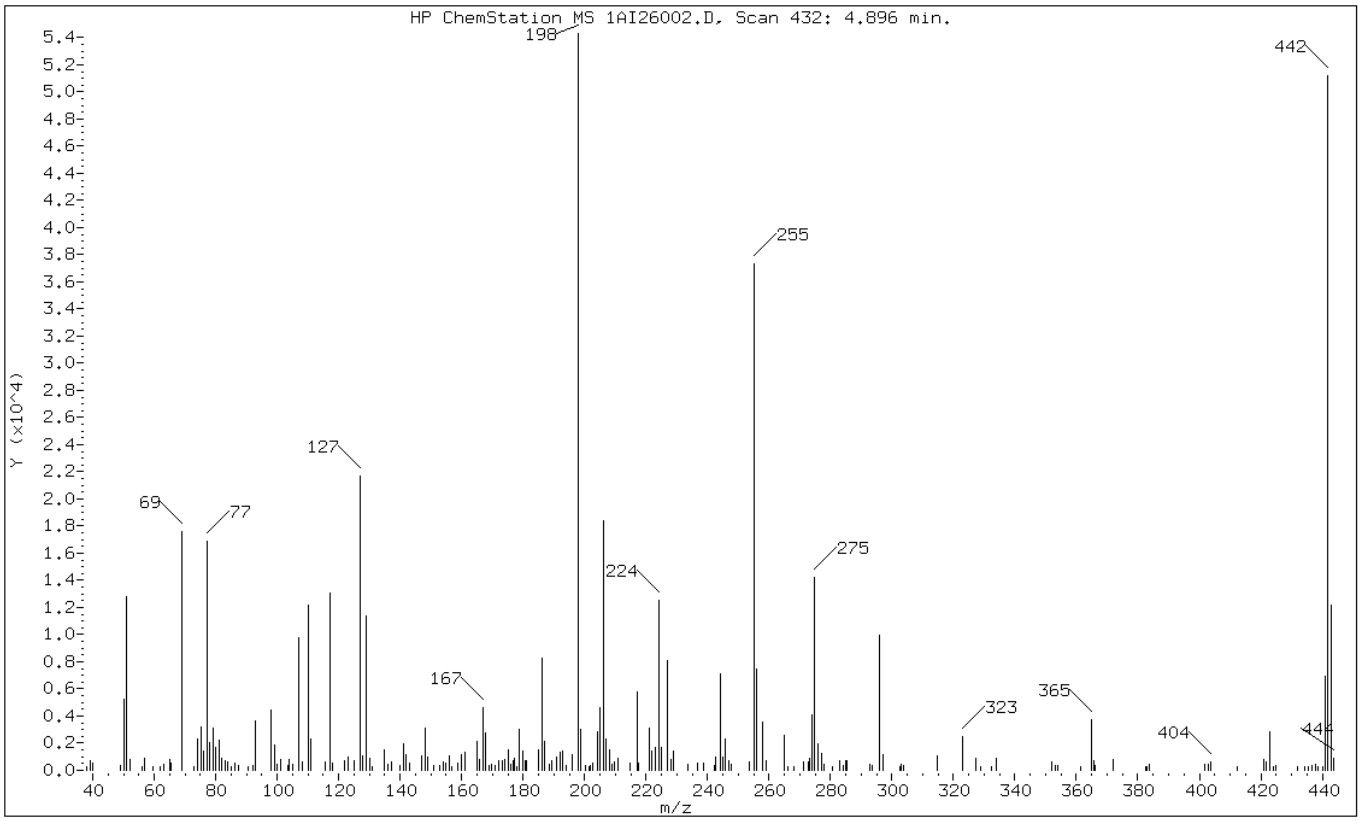
Data File: 1AI26002.D

Date: 26-SEP-2013 12:16

Client ID: DFTPP Instrument: BSMA5973.i

Sample Info: DFTPP-1588025 Operator: SCC

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	23.49
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	32.42
70	Less than 2.00% of mass 69	0.00 (0.00)
127	10.00 - 80.00% of mass 198	39.89
197	Less than 2.00% of mass 198	0.00
442	Greater than 50.00% of mass 198	94.25
199	5.00 - 9.00% of mass 198	5.61
275	10.00 - 60.00% of mass 198	26.18
365	Greater than 1.00% of mass 198	6.95
441	Present, but less than mass 443	12.83
443	15.00 - 24.00% of mass 442	22.47 (23.84)

Data File: 1AI26002.D

Date: 26-SEP-2013 12:16

Client ID: DFTPP Instrument: BSMA5973.i

Sample Info: DFTPP-1588025 Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMA5973.i\1A092613_pahIC.b\1AI26002.D
Spectrum: HP ChemStation MS 1AI26002.D, Scan 432: 4.896 min.
Location of Maximum: 197.90
Number of points: 203

m/z	Y	m/z	Y	m/z	Y	m/z	Y
38.00	264	127.90	1096	196.10	1180	278.00	417
39.00	752	129.00	11407	197.90	54304	280.80	276
40.10	532	130.00	884	198.90	3044	282.90	696
49.10	335	131.00	256	200.20	350	284.10	375
50.10	5220	135.00	1511	201.30	282	285.00	687
51.10	12756	136.00	400	201.80	345	285.20	673
52.20	823	137.00	578	202.60	572	292.90	416
55.90	261	139.90	374	204.10	2811	293.70	358
57.00	846	141.10	1934	205.00	4630	296.00	9955
59.40	298	142.00	1161	206.00	18408	297.00	1175
62.10	256	142.90	512	207.10	2325	302.70	310
63.10	449	147.10	1057	208.00	1521	303.10	418
64.90	761	148.10	3105	208.90	438	303.70	377
65.30	570	148.90	1018	209.60	617	314.90	1103
69.00	17608	151.00	329	210.70	862	322.80	2447
72.90	268	152.80	363	214.80	554	327.10	914
74.00	2343	153.90	583	217.00	5749	328.90	260
75.10	3232	155.00	524	217.70	516	332.30	295
76.00	1438	156.00	1030	221.10	3112	334.10	877
77.10	16904	156.80	310	221.80	1413	351.80	599
78.00	2072	158.80	516	223.10	1700	353.00	314
79.00	3088	160.00	1157	224.00	12555	353.80	329
80.00	1651	160.90	1369	225.00	1649	361.50	289
81.10	2235	164.90	2099	226.90	8056	364.90	3774
82.00	882	165.90	762	228.10	783	365.60	671
82.90	729	166.90	4648	228.90	1439	366.20	333
84.00	612	167.90	2780	233.70	412	371.80	784
85.20	250	168.90	377	236.90	549	382.70	284
86.20	562	169.60	438	238.60	537	382.90	284
87.20	367	171.00	329	242.20	358	383.70	425
90.70	295	171.90	713	242.80	955	401.80	464
92.00	319	173.10	725	244.00	7071	403.00	485
93.00	3679	174.10	803	244.80	974	403.70	608
98.10	4401	175.10	1510	245.90	2317	412.40	310
99.00	1856	176.10	406	247.10	725	420.80	820
100.00	431	176.80	707	247.70	420	421.60	590
101.10	822	177.10	873	253.70	666	422.80	2828
103.30	343	178.00	276	255.00	37288	424.00	311
104.00	802	178.90	2996	256.00	7478	424.90	327
105.20	415	180.00	1406	257.90	3526	432.10	264

107.00	9767	180.80	712	259.10	721	434.10	309
108.00	624	181.00	696	265.00	2542	435.60	251
110.00	12213	185.00	1555	266.10	260	436.80	377
111.00	2348	186.00	8298	267.90	252	437.90	450
115.80	594	186.90	2124	271.10	595	438.60	304
117.00	13069	188.70	403	272.70	636	440.00	300
118.10	522	189.20	693	273.10	848	440.80	6969
121.90	680	190.90	952	274.00	4095	441.80	51184
123.10	990	191.90	1310	274.90	14215	442.80	12203
125.10	718	192.80	1385	275.90	1933	443.70	874
127.00	21664	194.00	335	277.00	1223		

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A092713.b\1AI27002.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 27-SEP-2013 11:10
Operator : SCC Inst ID: BSMA5973.i
Smp Info : DFTPP-1588025
Misc Info :
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMA5973.i\1A092713.b\a-dftpp198.m
Meth Date : 26-Sep-2013 15:08 cantins Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 2 QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: None
Processing Host: TAM1000

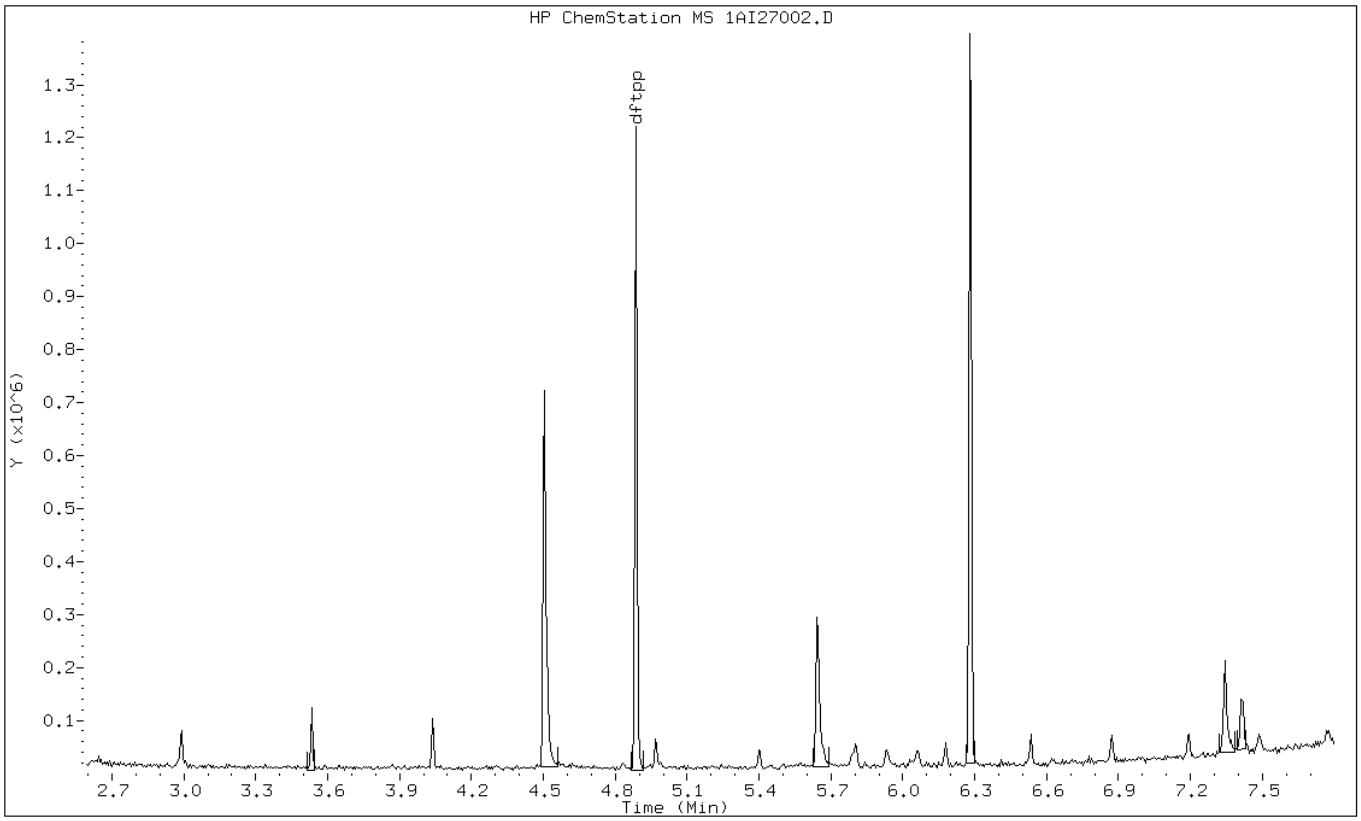
					CONCENTRATIONS ON-COL	CONCENTRATIONS FINAL		
RT	EXP RT	DLT RT	MASS	RESPONSE	(ug/L)	(ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
4.886	4.891	-0.005	198	111696			50.00- 0.00	100.00
4.886	4.891	-0.005	51	34624			10.00- 80.00	31.00
4.886	4.891	-0.005	68	0	0.0	0.0	0.00- 2.00	0.00
4.886	4.891	-0.005	69	39920			0.00- 0.00	35.74
4.886	4.891	-0.005	70	447			0.00- 2.00	1.12
4.886	4.891	-0.005	127	52824			10.00- 80.00	47.29
4.886	4.891	-0.005	197	0	0.0	0.0	0.00- 2.00	0.00
4.886	4.891	-0.005	442	80800			50.00- 0.00	72.34
4.886	4.891	-0.005	199	7500			5.00- 9.00	6.71
4.886	4.891	-0.005	275	28392			10.00- 60.00	25.42
4.886	4.891	-0.005	365	6227			1.00- 0.00	5.57
4.886	4.891	-0.005	441	11267			0.01- 99.99	71.81
4.886	4.891	-0.005	443	15691			15.00- 24.00	19.42

Data File: 1AI27002.D

Date: 27-SEP-2013 11:10

Client ID: DFTPP Instrument: BSMA5973.i

Sample Info: DFTPP-1588025 Operator: SCC



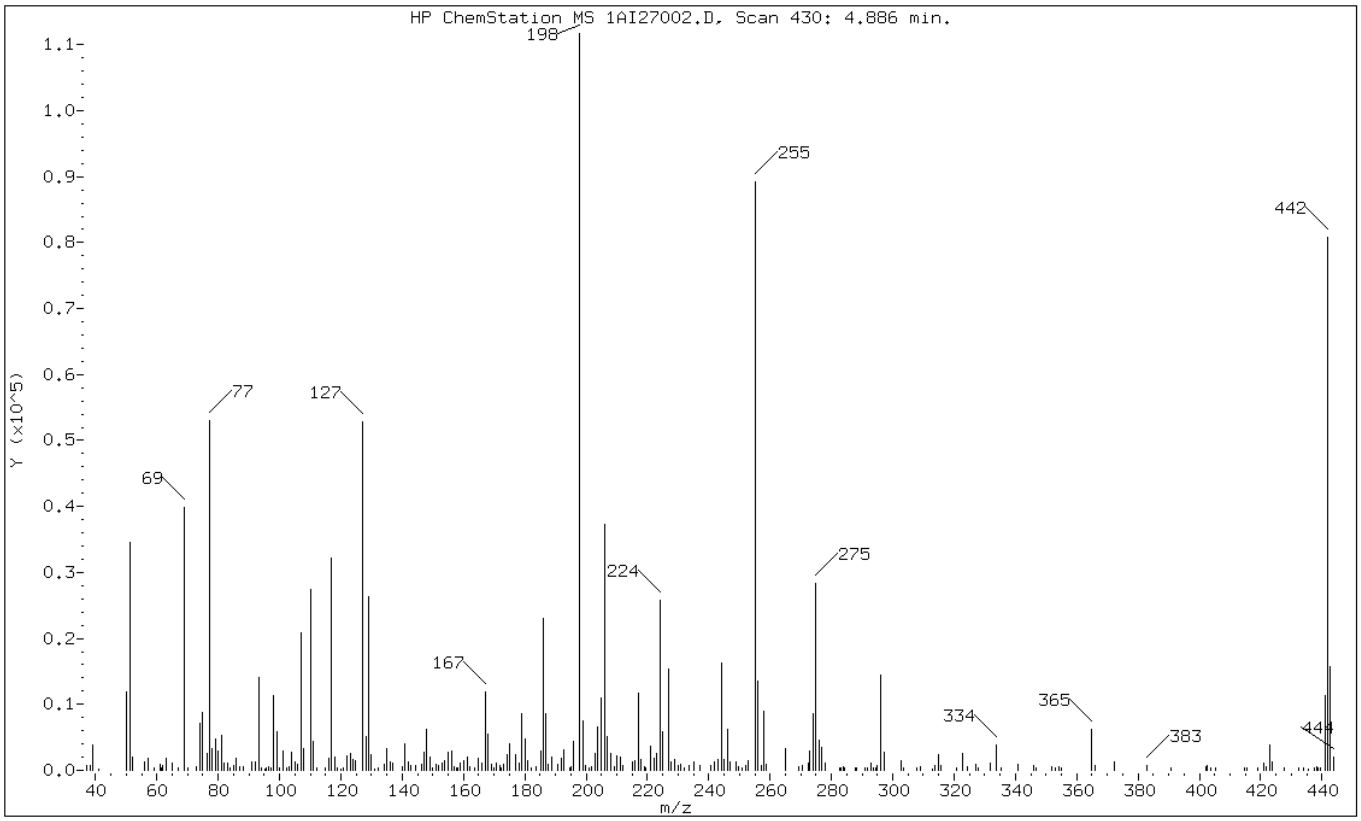
Data File: 1AI27002.D

Date: 27-SEP-2013 11:10

Client ID: DFTPP Instrument: BSMA5973.i

Sample Info: DFTPP-1588025 Operator: SCC

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	31.00
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	35.74
70	Less than 2.00% of mass 69	0.40 (1.12)
127	10.00 - 80.00% of mass 198	47.29
197	Less than 2.00% of mass 198	0.00
442	Greater than 50.00% of mass 198	72.34
199	5.00 - 9.00% of mass 198	6.71
275	10.00 - 60.00% of mass 198	25.42
365	Greater than 1.00% of mass 198	5.57
441	Present, but less than mass 443	10.09
443	15.00 - 24.00% of mass 442	14.05 (19.42)

Data File: 1AI27002.D

Date: 27-SEP-2013 11:10

Client ID: DFTPP Instrument: BSMA5973.i

Sample Info: DFTPP-1588025 Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMA5973.i\1A092713_pahIC.b\1AI27002.D
Spectrum: HP ChemStation MS 1AI27002.D, Scan 430: 4.886 min.
Location of Maximum: 197.90
Number of points: 259

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.10	767	124.00	1646	196.00	4331	283.80	483
38.10	760	124.80	1458	197.90	111696	284.30	318
39.10	3900	127.00	52824	198.90	7500	287.70	335
41.10	255	128.10	5103	199.90	735	288.20	276
50.10	11852	129.00	26408	201.10	291	291.10	298
51.10	34624	130.00	2430	201.80	553	291.60	352
52.00	2057	130.90	268	203.00	2473	293.00	1120
56.10	1270	132.20	432	203.90	6657	293.80	340
57.00	1878	134.00	963	204.90	10890	294.40	430
59.00	285	134.90	3225	206.00	37312	294.90	762
60.90	930	136.00	1314	207.00	5178	295.90	14516
61.50	310	136.90	1137	207.90	2525	297.10	2730
62.00	725	140.20	639	209.10	636	302.80	1480
63.10	1798	140.90	4052	210.10	2127	303.70	392
65.10	1168	142.00	1261	211.00	2083	308.00	294
66.90	383	142.80	726	211.80	666	309.10	579
69.00	39920	144.20	717	215.00	1334	313.10	274
70.10	447	146.20	916	215.90	1387	313.90	709
73.00	486	147.00	2674	216.90	11632	315.00	2306
74.20	7118	148.00	6174	217.90	1679	315.70	711
75.00	8727	149.00	2035	218.90	471	321.00	320
76.20	2533	149.80	406	219.50	277	322.80	2483
77.10	53016	151.00	873	221.10	3574	324.20	525
78.10	3273	152.00	813	222.00	1799	326.90	959
79.00	4751	153.00	1033	223.00	2512	327.80	353
80.00	2917	153.90	1505	224.00	25704	331.70	1133
81.00	5226	155.00	2797	225.00	5849	333.90	3882
82.00	1113	156.10	2906	227.00	15437	335.20	447
83.00	1128	157.00	498	227.80	1242	341.00	996
83.80	329	157.80	416	228.80	1647	345.90	769
85.20	713	158.20	341	230.10	752	346.60	303
85.90	1837	159.00	1135	230.80	901	351.90	551
87.00	530	160.20	1478	231.90	402	352.90	380
88.10	590	161.10	1969	233.70	773	353.20	415
90.90	1213	162.00	528	235.10	1303	354.10	622
92.10	1319	163.60	338	237.00	812	354.90	326
93.10	14031	164.90	1902	240.60	811	364.90	6227
94.00	343	166.10	1091	241.90	1329	366.00	807
95.10	261	167.00	11926	243.00	1682	372.30	1370
95.50	349	168.00	5525	244.00	16188	382.90	694

96.50	469	169.10	972	245.10	1672	390.60	378
97.10	406	170.00	395	246.00	6128	402.00	475
98.00	11260	170.80	1032	247.10	1240	402.60	652
99.00	5885	171.70	711	248.90	1309	403.70	351
100.00	331	172.20	359	249.80	581	405.10	276
101.00	2935	173.00	889	250.80	283	414.90	328
102.20	409	174.10	2449	251.90	736	415.70	380
103.00	530	175.10	3986	253.00	1438	418.90	409
103.90	2816	176.90	2317	255.00	89288	420.90	1041
105.10	1324	178.00	1043	256.00	13469	421.90	509
106.00	870	178.90	8563	257.00	767	422.90	3817
107.00	20912	180.00	4672	258.00	9010	423.70	1208
108.00	3344	181.10	1491	258.90	827	427.80	307
110.00	27368	182.20	343	265.00	3221	432.60	279
111.10	4329	183.80	573	269.30	458	434.00	321
112.20	411	185.10	2845	270.60	656	435.60	274
114.90	393	186.00	23040	272.30	1103	437.60	418
116.00	1857	187.00	8621	272.90	2871	438.20	556
117.00	32152	187.70	927	274.00	8637	438.80	288
118.10	1942	188.90	2051	275.00	28392	439.60	380
119.00	453	190.80	952	276.00	4553	440.90	11267
120.20	266	192.00	1910	276.90	3453	441.90	80800
120.80	361	192.90	3126	278.10	1113	442.80	15691
121.90	2274	194.60	375	282.60	341	443.80	1922
123.00	2593	195.00	496	283.10	448		

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-94506-2

SDG No.: 680-94506-2

Client Sample ID: | Lab Sample ID: MB 660-141709/1-A

Matrix: Solid | Lab File ID: 1AI26013.D

Analysis Method: 8270C LL | Date Collected:

Extract. Method: 3546 | Date Extracted: 09/25/2013 09:48

Sample wt/vol: 14.99(g) | Date Analyzed: 09/26/2013 15:26

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 141781 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	100	U	100	20
208-96-8	Acenaphthylene	40	U	40	5.0
120-12-7	Anthracene	8.4	U	8.4	4.2
56-55-3	Benzo[a]anthracene	8.0	U	8.0	3.9
50-32-8	Benzo[a]pyrene	10	U	10	5.2
205-99-2	Benzo[b]fluoranthene	12	U	12	6.1
191-24-2	Benzo[g,h,i]perylene	20	U	20	4.4
207-08-9	Benzo[k]fluoranthene	8.0	U	8.0	3.6
218-01-9	Chrysene	9.0	U	9.0	4.5
53-70-3	Dibenz(a,h)anthracene	20	U	20	4.1
206-44-0	Fluoranthene	20	U	20	4.0
86-73-7	Fluorene	20	U	20	4.1
193-39-5	Indeno[1,2,3-cd]pyrene	20	U	20	7.1
90-12-0	1-Methylnaphthalene	40	U	40	4.4
91-57-6	2-Methylnaphthalene	40	U	40	7.1
91-20-3	Naphthalene	40	U	40	4.4
85-01-8	Phenanthrene	8.0	U	8.0	3.9
129-00-0	Pyrene	20	U	20	3.7

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	70		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A092613_pahIC.b\1AI26013.D
Lab Smp Id: mb 660-141709/1-a
Inj Date : 26-SEP-2013 15:26
Operator : SCC Inst ID: BSMA5973.i
Smp Info : mb 660-141709/1-a
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A092613_pahIC.b\a-bFASTPAHi-m.m
Meth Date : 26-Sep-2013 14:34 BSMA5973.i Quant Type: ISTD
Cal Date : 26-SEP-2013 14:01 Cal File: 1AI26009.D
Als bottle: 13 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:
Amt * DF * 1/Vi * Vt/Ws * 100/(100 - M) * A * B * C * D * GPC * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.990	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

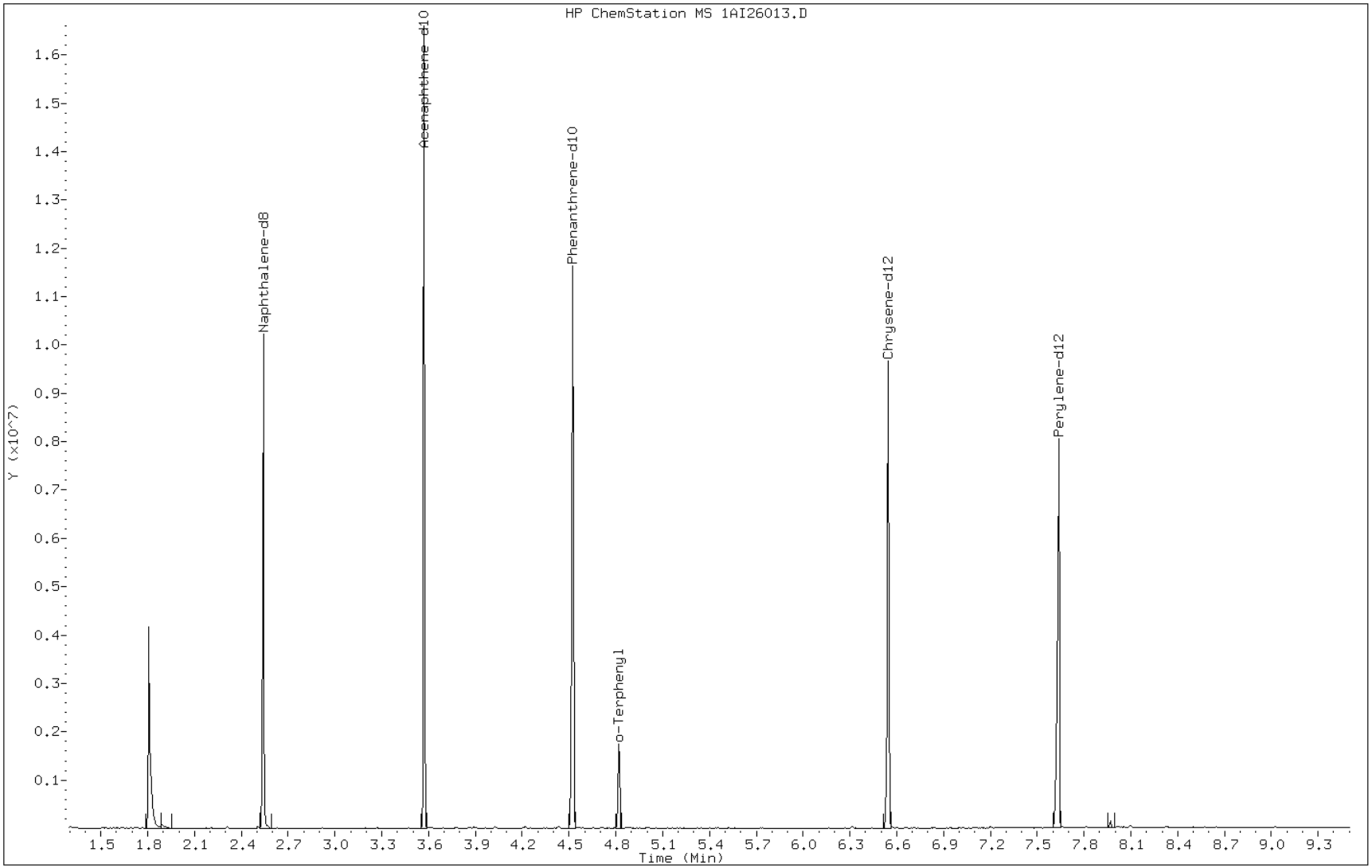
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
*	1 Naphthalene-d8	136	2.540	2.544	(1.000)	2786066	40.0000	
*	7 Acenaphthene-d10	164	3.571	3.575	(1.000)	2009162	40.0000	
*	11 Phenanthrene-d10	188	4.522	4.526	(1.000)	3100117	40.0000	
$	15 o-Terphenyl	230	4.816	4.819	(1.065)	233143	6.97823	465.5259
*	19 Chrysene-d12	240	6.547	6.550	(1.000)	2834880	40.0000	
*	24 Perylene-d12	264	7.637	7.635	(1.000)	2679450	40.0000	

Data File: 1AI26013.D

Date: 26-SEP-2013 15:26

Client ID: Instrument: BSMA5973.i

Sample Info: mb 660-141709/1-a Operator: SCC



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-94506-2

SDG No.: 680-94506-2

Client Sample ID: | Lab Sample ID: LCS 660-141709/2-A

Matrix: Solid | Lab File ID: 1AI26014.D

Analysis Method: 8270C LL | Date Collected:

Extract. Method: 3546 | Date Extracted: 09/25/2013 09:48

Sample wt/vol: 15.08(g) | Date Analyzed: 09/26/2013 15:41

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 141781 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	315		99	20
208-96-8	Acenaphthylene	315		40	5.0
120-12-7	Anthracene	356		8.4	4.2
56-55-3	Benzo[a]anthracene	385		8.0	3.9
50-32-8	Benzo[a]pyrene	345		10	5.2
205-99-2	Benzo[b]fluoranthene	359		12	6.1
191-24-2	Benzo[g,h,i]perylene	308		20	4.4
207-08-9	Benzo[k]fluoranthene	365		8.0	3.6
218-01-9	Chrysene	314		9.0	4.5
53-70-3	Dibenz(a,h)anthracene	305		20	4.1
206-44-0	Fluoranthene	361		20	4.0
86-73-7	Fluorene	318		20	4.1
193-39-5	Indeno[1,2,3-cd]pyrene	314		20	7.1
90-12-0	1-Methylnaphthalene	337		40	4.4
91-57-6	2-Methylnaphthalene	335		40	7.1
91-20-3	Naphthalene	341		40	4.4
85-01-8	Phenanthrene	368		8.0	3.9
129-00-0	Pyrene	364		20	3.7

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	57		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A092613_pahIC.b\1AI26014.D
Lab Smp Id: lcs 660-141709/2-a
Inj Date : 26-SEP-2013 15:41
Operator : SCC Inst ID: BSMA5973.i
Smp Info : lcs 660-141709/2-a
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A092613_pahIC.b\a-bFASTPAHi-m.m
Meth Date : 26-Sep-2013 14:34 BSMA5973.i Quant Type: ISTD
Cal Date : 26-SEP-2013 14:01 Cal File: 1AI26009.D
Als bottle: 14 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:
Amt * DF * 1/Vi * Vt/Ws * 100/(100 - M) * A * B * C * D * GPC * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.080	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	2.538	2.544	(1.000)	3316283	40.0000	
* 7 Acenaphthene-d10	164	3.575	3.575	(1.000)	2581145	40.0000	
* 11 Phenanthrene-d10	188	4.526	4.526	(1.000)	3574968	40.0000	
$ 15 o-Terphenyl	230	4.819	4.819	(1.065)	207801	5.68011	376.6651
* 19 Chrysene-d12	240	6.550	6.550	(1.000)	3544930	40.0000	
* 24 Perylene-d12	264	7.640	7.635	(1.000)	2964705	40.0000	
2 Naphthalene	128	2.549	2.554	(1.004)	291562	5.14761	341.3537
3 2-Methylnaphthalene	141	2.955	2.960	(1.164)	150669	5.04835	334.7709
4 1-Methylnaphthalene	142	3.014	3.014	(1.187)	170138	5.08257	337.0402
6 Acenaphthylene	152	3.478	3.484	(0.973)	285447	4.74434	314.6112
8 Acenaphthene	154	3.591	3.591	(1.004)	163267	4.74469	314.6346
10 Fluorene	166	3.901	3.906	(1.091)	211652	4.80167	318.4131
12 Phenanthrene	178	4.536	4.542	(1.002)	307251	5.55130	368.1233
13 Anthracene	178	4.568	4.574	(1.009)	293258	5.37009	356.1066

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
16 Fluoranthene	202	5.402	5.407	(1.194)	339105	5.44310	360.9484
17 Pyrene	202	5.567	5.573	(0.850)	338194	5.49254	364.2264
18 Benzo(a)anthracene	228	6.540	6.540	(0.998)	478839	5.81139	385.3704
20 Chrysene	228	6.566	6.566	(1.002)	299876	4.73005	313.6639
21 Benzo(b)fluoranthene	252	7.357	7.362	(0.963)	358105	5.40723	358.5696
22 Benzo(k)fluoranthene	252	7.378	7.384	(0.966)	333886	5.50299	364.9196
23 Benzo(a)pyrene	252	7.581	7.587	(0.992)	303512	5.20490	345.1527
25 Indeno(1,2,3-cd)pyrene	276	8.393	8.399	(1.099)	271858	4.73882	314.2450(M)
26 Dibenzo(a,h)anthracene	278	8.415	8.420	(1.101)	257978	4.59728	304.8590
27 Benzo(g,h,i)perylene	276	8.607	8.618	(1.127)	253358	4.64962	308.3301

QC Flag Legend

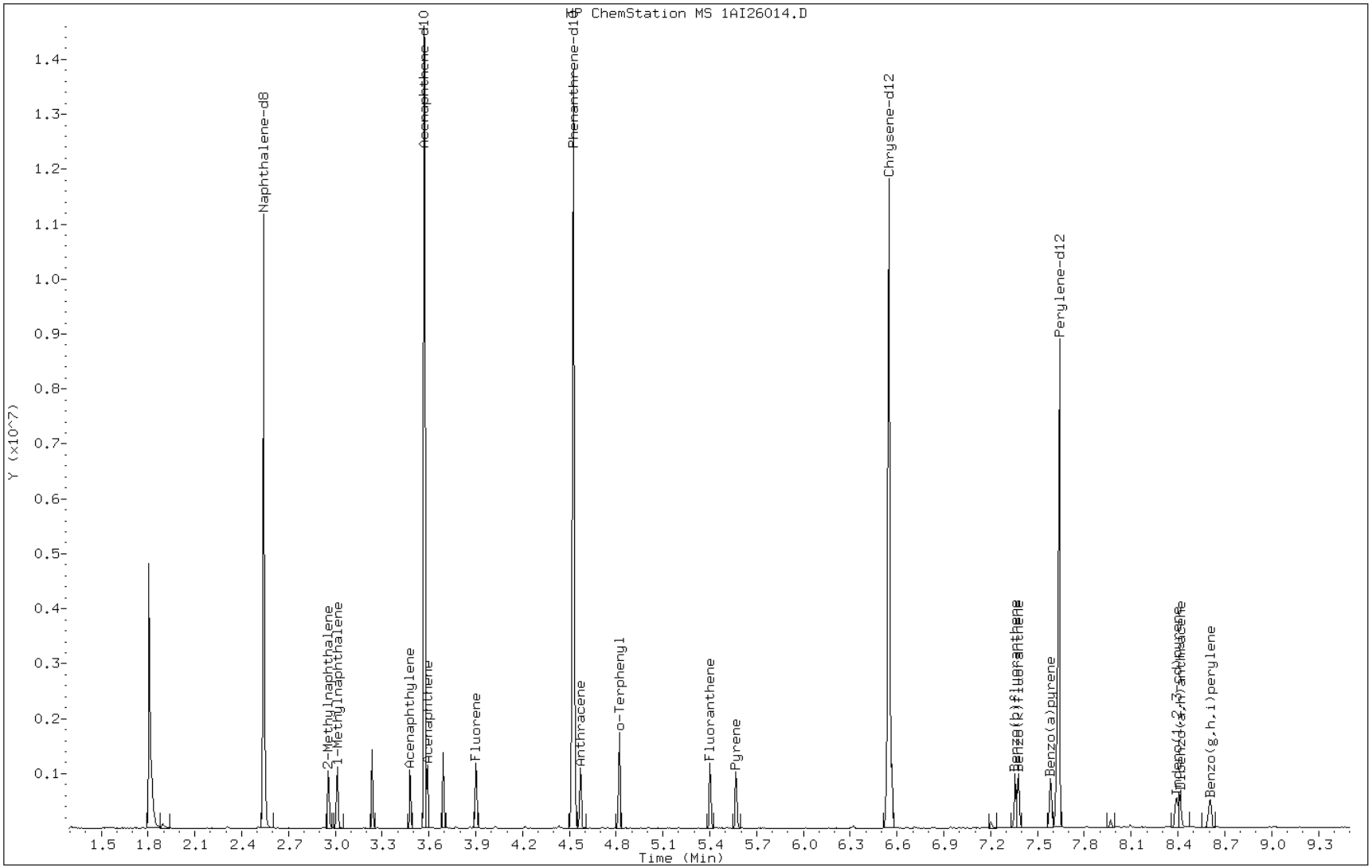
M - Compound response manually integrated.

Data File: 1AI26014.D

Date: 26-SEP-2013 15:41

Client ID: Instrument: BSMA5973.i

Sample Info: lcs 660-141709/2-a Operator: SCC



Manual Integration Report

Data File: 1AI26014.D
Inj. Date and Time: 26-SEP-2013 15:41
Instrument ID: BSMA5973.i
Client ID:
Compound: 25 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 09/27/2013

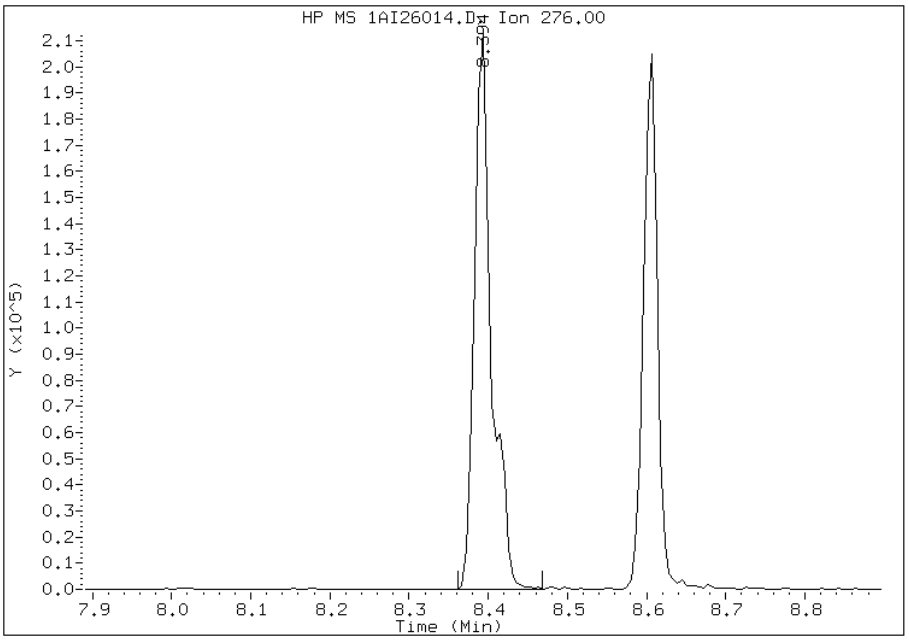
Processing Integration Results

RT: 8.39

Response: 313824

Amount: 5

Conc: 363



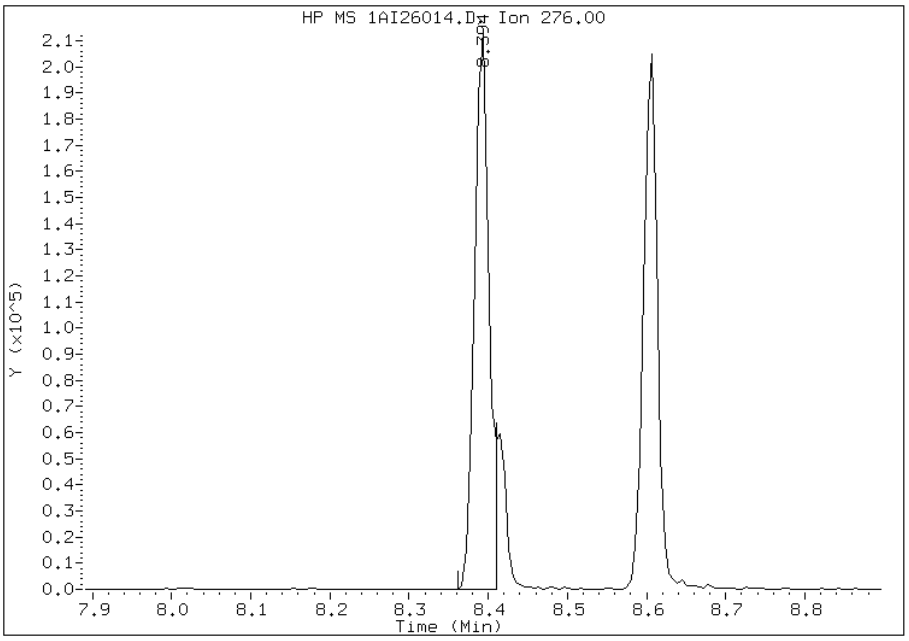
Manual Integration Results

RT: 8.39

Response: 271858

Amount: 5

Conc: 314



Manually Integrated By: cantins
Modification Date: 27-Sep-2013 10:20
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-94506-2

SDG No.: 680-94506-2

Client Sample ID: WCWL-GP05-2_4ft MS | Lab Sample ID: 680-94506-19 MS

Matrix: Solid | Lab File ID: 1AI27013.D

Analysis Method: 8270C LL | Date Collected: 09/16/2013 13:48

Extract. Method: 3546 | Date Extracted: 09/25/2013 09:48

Sample wt/vol: 14.97(g) | Date Analyzed: 09/27/2013 14:02

Con. Extract Vol.: 1(mL) | Dilution Factor: 4

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 6.7 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 141824 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	822		430	86
208-96-8	Acenaphthylene	397		170	21
120-12-7	Anthracene	642		36	18
56-55-3	Benzo[a]anthracene	2460		34	17
50-32-8	Benzo[a]pyrene	1740		45	22
205-99-2	Benzo[b]fluoranthene	5200		52	26
191-24-2	Benzo[g,h,i]perylene	1720		86	19
207-08-9	Benzo[k]fluoranthene	1290		34	15
218-01-9	Chrysene	4890		39	19
53-70-3	Dibenz(a,h)anthracene	713		86	18
206-44-0	Fluoranthene	4700		86	17
86-73-7	Fluorene	797		86	18
193-39-5	Indeno[1,2,3-cd]pyrene	1460		86	31
90-12-0	1-Methylnaphthalene	836		170	19
91-57-6	2-Methylnaphthalene	899		170	31
91-20-3	Naphthalene	2370		170	19
85-01-8	Phenanthrene	3320		34	17
129-00-0	Pyrene	2980		86	16

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	101		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A092713.b\1AI27013.D
Lab Smp Id: 680-94506-a-19-b ms
Inj Date : 27-SEP-2013 14:02
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-94506-a-19-b ms
Misc Info : 4.0
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A092713.b\a-bFASTPAHi-m.m
Meth Date : 27-Sep-2013 13:48 BSMA5973.i Quant Type: ISTD
Cal Date : 27-SEP-2013 13:01 Cal File: 1AI27009.D
Als bottle: 12 QC Sample: MS
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:
Amt * DF * 1/Vi * Vt/Ws * 100/(100 - M) * A * B * C * D * GPC * CpndVariable

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.970	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	2.540	2.538	(1.000)	2945373	40.0000	
* 7 Acenaphthene-d10	164	3.566	3.569	(1.000)	2348348	40.0000	
* 11 Phenanthrene-d10	188	4.517	4.520	(1.000)	3628534	40.0000	
$ 15 o-Terphenyl	230	4.811	4.814	(1.065)	55511	2.52303	674.1574
* 19 Chrysene-d12	240	6.541	6.545	(1.000)	3303867	40.0000	
* 24 Perylene-d12	264	7.631	7.635	(1.000)	2242241	40.0000	
2 Naphthalene	128	2.545	2.549	(1.002)	459425	8.26510	2208.4439(R)
3 2-Methylnaphthalene	141	2.951	2.955	(1.162)	77370	3.13698	838.2053
4 1-Methylnaphthalene	142	3.010	3.014	(1.185)	79298	2.91724	779.4885
6 Acenaphthylene	152	3.475	3.478	(0.975)	18017	1.38631	370.4229(Q)
8 Acenaphthene	154	3.582	3.585	(1.004)	66508	2.86950	766.7324
10 Fluorene	166	3.897	3.900	(1.093)	84009	2.78154	743.2308
12 Phenanthrene	178	4.533	4.536	(1.004)	756815	11.5888	3096.5444(R)
13 Anthracene	178	4.565	4.568	(1.011)	64652	2.24123	598.8602

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
16 Fluoranthene	202	5.398	5.402	(1.195)	1203695	16.4066	4383.8503(R)
17 Pyrene	202	5.564	5.567	(0.851)	603485	10.4102	2781.6216(R)
18 Benzo(a)anthracene	228	6.536	6.534	(0.999)	624601	8.58195	2293.1052(R)
20 Chrysene	228	6.557	6.566	(1.002)	939702	17.0864	4565.4979(R)
21 Benzo(b)fluoranthene	252	7.359	7.357	(0.964)	860513	18.1523	4850.3213(RM)
22 Benzo(k)fluoranthene	252	7.369	7.378	(0.966)	189444	4.48714	1198.9695(QRM)
23 Benzo(a)pyrene	252	7.578	7.586	(0.993)	238342	6.08505	1625.9328(R)
25 Indeno(1,2,3-cd)pyrene	276	8.384	8.398	(1.099)	201274	5.10207	1363.2782(RM)
26 Dibenzo(a,h)anthracene	278	8.400	8.420	(1.101)	75708	2.49026	665.4000
27 Benzo(g,h,i)perylene	276	8.598	8.612	(1.127)	213159	5.99850	1602.8043(R)

QC Flag Legend

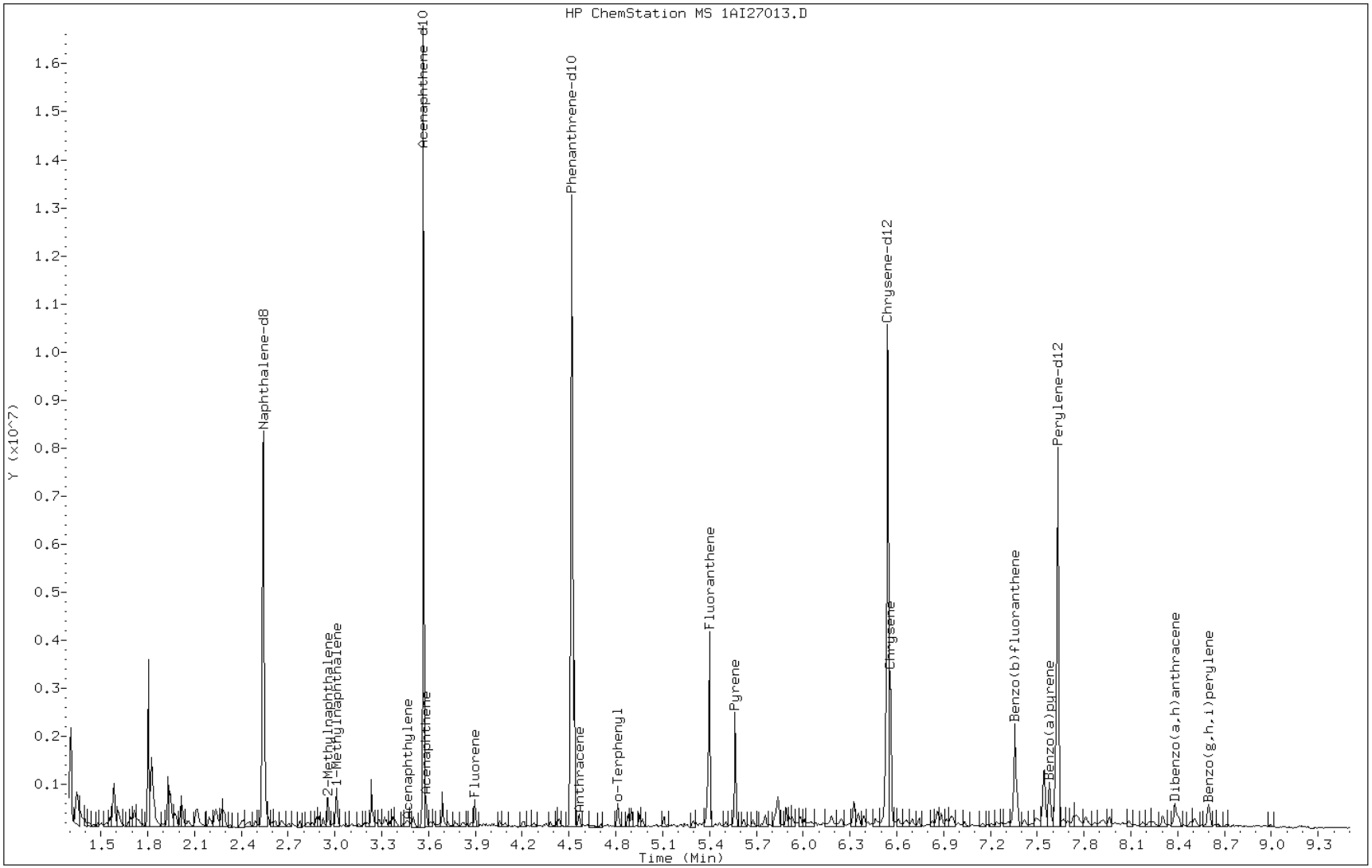
Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: 1AI27013.D

Date: 27-SEP-2013 14:02

Client ID: Instrument: BSMA5973.i

Sample Info: 680-94506-a-19-b ms Operator: SCC



Manual Integration Report

Data File: 1AI27013.D
Inj. Date and Time: 27-SEP-2013 14:02
Instrument ID: BSMA5973.i
Client ID:
Compound: 21 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 09/27/2013

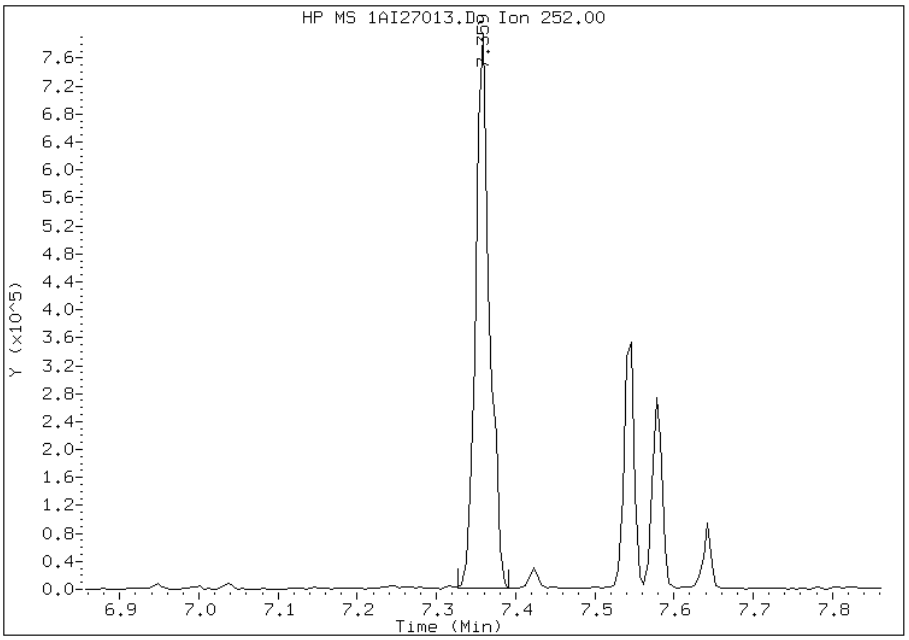
Processing Integration Results

RT: 7.36

Response: 951330

Amount: 20

Conc: 5300



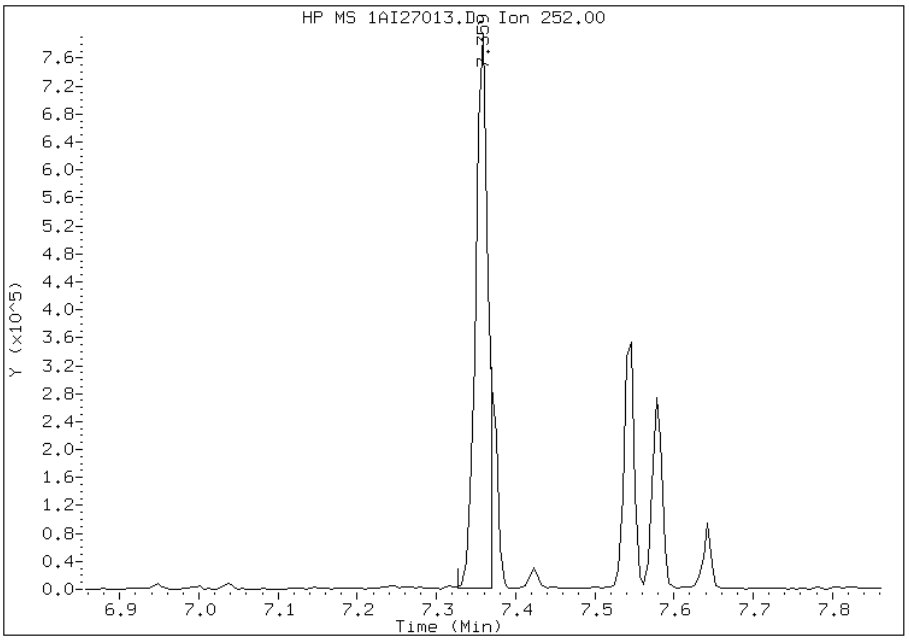
Manual Integration Results

RT: 7.36

Response: 860513

Amount: 18

Conc: 4850



Manually Integrated By: cantins
Modification Date: 27-Sep-2013 15:01
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AI27013.D
Inj. Date and Time: 27-SEP-2013 14:02
Instrument ID: BSMA5973.i
Client ID:
Compound: 22 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 09/27/2013

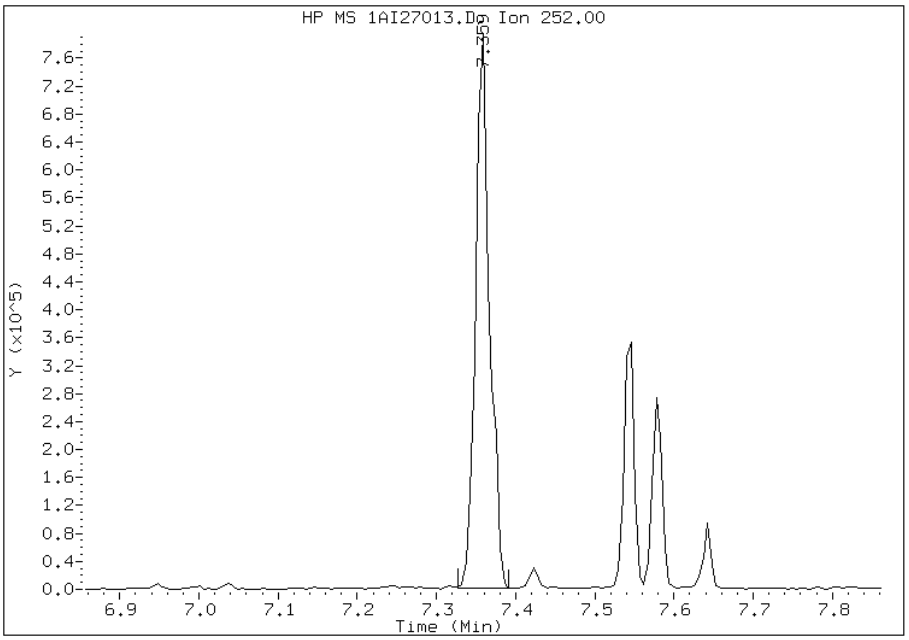
Processing Integration Results

RT: 7.36

Response: 952116

Amount: 19

Conc: 4973



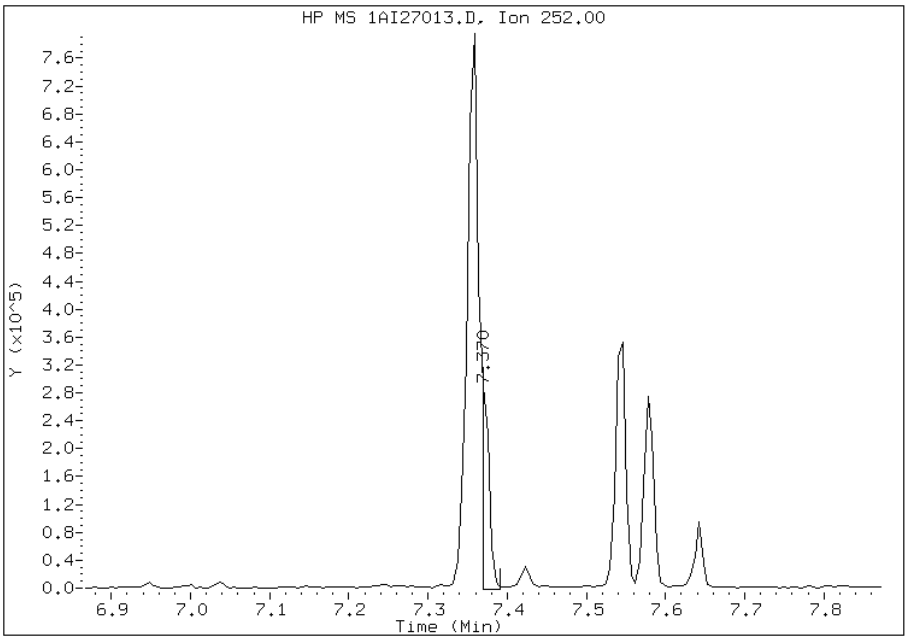
Manual Integration Results

RT: 7.37

Response: 189444

Amount: 4

Conc: 1199



Manually Integrated By: cantins
Modification Date: 27-Sep-2013 15:01
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AI27013.D
Inj. Date and Time: 27-SEP-2013 14:02
Instrument ID: BSMA5973.i
Client ID:
Compound: 25 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 09/27/2013

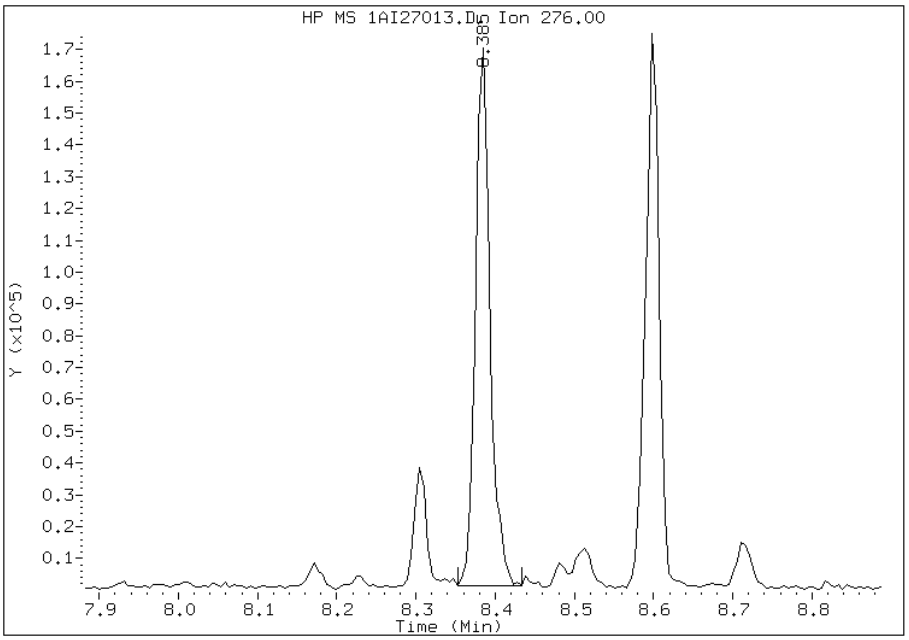
Processing Integration Results

RT: 8.38

Response: 212820

Amount: 5

Conc: 1441



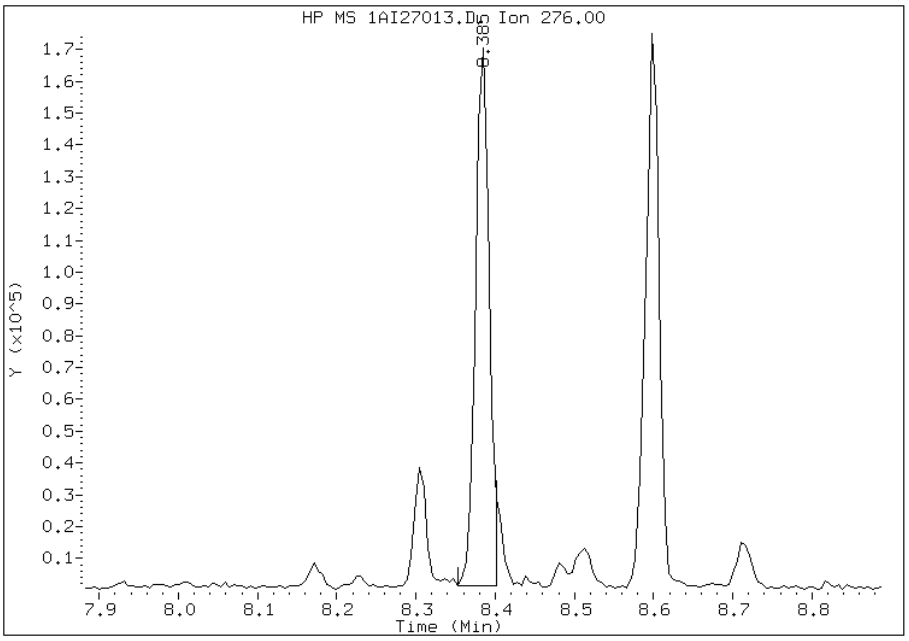
Manual Integration Results

RT: 8.38

Response: 201274

Amount: 5

Conc: 1363



Manually Integrated By: cantins
Modification Date: 27-Sep-2013 15:01
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-94506-2

SDG No.: 680-94506-2

Client Sample ID: WCWL-GP05-2_4ft MSD | Lab Sample ID: 680-94506-19 MSD

Matrix: Solid | Lab File ID: 1AI27014.D

Analysis Method: 8270C LL | Date Collected: 09/16/2013 13:48

Extract. Method: 3546 | Date Extracted: 09/25/2013 09:48

Sample wt/vol: 14.97(g) | Date Analyzed: 09/27/2013 14:17

Con. Extract Vol.: 1(mL) | Dilution Factor: 4

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 6.7 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 141824 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	859		430	86
208-96-8	Acenaphthylene	525		170	21
120-12-7	Anthracene	756		36	18
56-55-3	Benzo[a]anthracene	4650		34	17
50-32-8	Benzo[a]pyrene	4400		45	22
205-99-2	Benzo[b]fluoranthene	10100		52	26
191-24-2	Benzo[g,h,i]perylene	4550		86	19
207-08-9	Benzo[k]fluoranthene	3500		34	15
218-01-9	Chrysene	8100		39	19
53-70-3	Dibenz(a,h)anthracene	1950		86	18
206-44-0	Fluoranthene	5030		86	17
86-73-7	Fluorene	776		86	18
193-39-5	Indeno[1,2,3-cd]pyrene	3710		86	31
90-12-0	1-Methylnaphthalene	810		170	19
91-57-6	2-Methylnaphthalene	842		170	31
91-20-3	Naphthalene	1680		170	19
85-01-8	Phenanthrene	2520		34	17
129-00-0	Pyrene	4720		86	16

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	97		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A092713.b\1AI27014.D
Lab Smp Id: 680-94506-a-19-c ms
Inj Date : 27-SEP-2013 14:17
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-94506-a-19-c msd
Misc Info : 4.0
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A092713.b\a-bFASTPAHi-m.m
Meth Date : 27-Sep-2013 13:48 BSMA5973.i Quant Type: ISTD
Cal Date : 27-SEP-2013 13:01 Cal File: 1AI27009.D
Als bottle: 13 QC Sample: MSD
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:
Amt * DF * 1/Vi * Vt/Ws * 100/(100 - M) * A * B * C * D * GPC * CpndVariable

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.970	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
*	1 Naphthalene-d8	136	2.539	2.538	(1.000)	2811489	40.0000	
*	7 Acenaphthene-d10	164	3.570	3.569	(1.000)	2462095	40.0000	
*	11 Phenanthrene-d10	188	4.521	4.520	(1.000)	3673699	40.0000	
$	15 o-Terphenyl	230	4.814	4.814	(1.065)	51492	2.43160	649.7256
*	19 Chrysene-d12	240	6.545	6.545	(1.000)	3315138	40.0000	
*	24 Perylene-d12	264	7.635	7.635	(1.000)	2287464	40.0000	
	2 Naphthalene	128	2.544	2.549	(1.002)	311441	5.86966	1568.3805(R)
	3 2-Methylnaphthalene	141	2.955	2.955	(1.164)	68389	2.94071	785.7606
	4 1-Methylnaphthalene	142	3.009	3.014	(1.185)	72685	2.82884	755.8680
	6 Acenaphthylene	152	3.479	3.478	(0.975)	50878	1.83288	489.7475
	8 Acenaphthene	154	3.586	3.585	(1.004)	75314	2.99874	801.2653
	10 Fluorene	166	3.895	3.900	(1.091)	84440	2.71054	724.2600
	12 Phenanthrene	178	4.531	4.536	(1.002)	557009	8.80412	2352.4697(R)
	13 Anthracene	178	4.563	4.568	(1.009)	93148	2.64017	705.4565

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
16 Fluoranthene	202	5.402	5.402	(1.195)	1316827	17.5474	4688.6956(R)
17 Pyrene	202	5.568	5.567	(0.851)	1002683	16.4946	4407.3734(R)
18 Benzo(a)anthracene	228	6.540	6.534	(0.999)	1178321	16.2191	4333.7530(R)
20 Chrysene	228	6.567	6.566	(1.003)	1560186	28.2720	7554.3189(R)
21 Benzo(b)fluoranthene	252	7.363	7.357	(0.964)	1948766	35.2196	9410.7137(RM)
22 Benzo(k)fluoranthene	252	7.379	7.378	(0.966)	603103	12.2055	3261.3123(QRM)
23 Benzo(a)pyrene	252	7.587	7.586	(0.994)	672153	15.3485	4101.1309(R)
25 Indeno(1,2,3-cd)pyrene	276	8.399	8.398	(1.100)	520760	12.9397	3457.5022(RM)
26 Dibenzo(a,h)anthracene	278	8.410	8.420	(1.101)	238071	6.81028	1819.7140(R)
27 Benzo(g,h,i)perylene	276	8.618	8.612	(1.129)	575766	15.8823	4243.7605(R)

QC Flag Legend

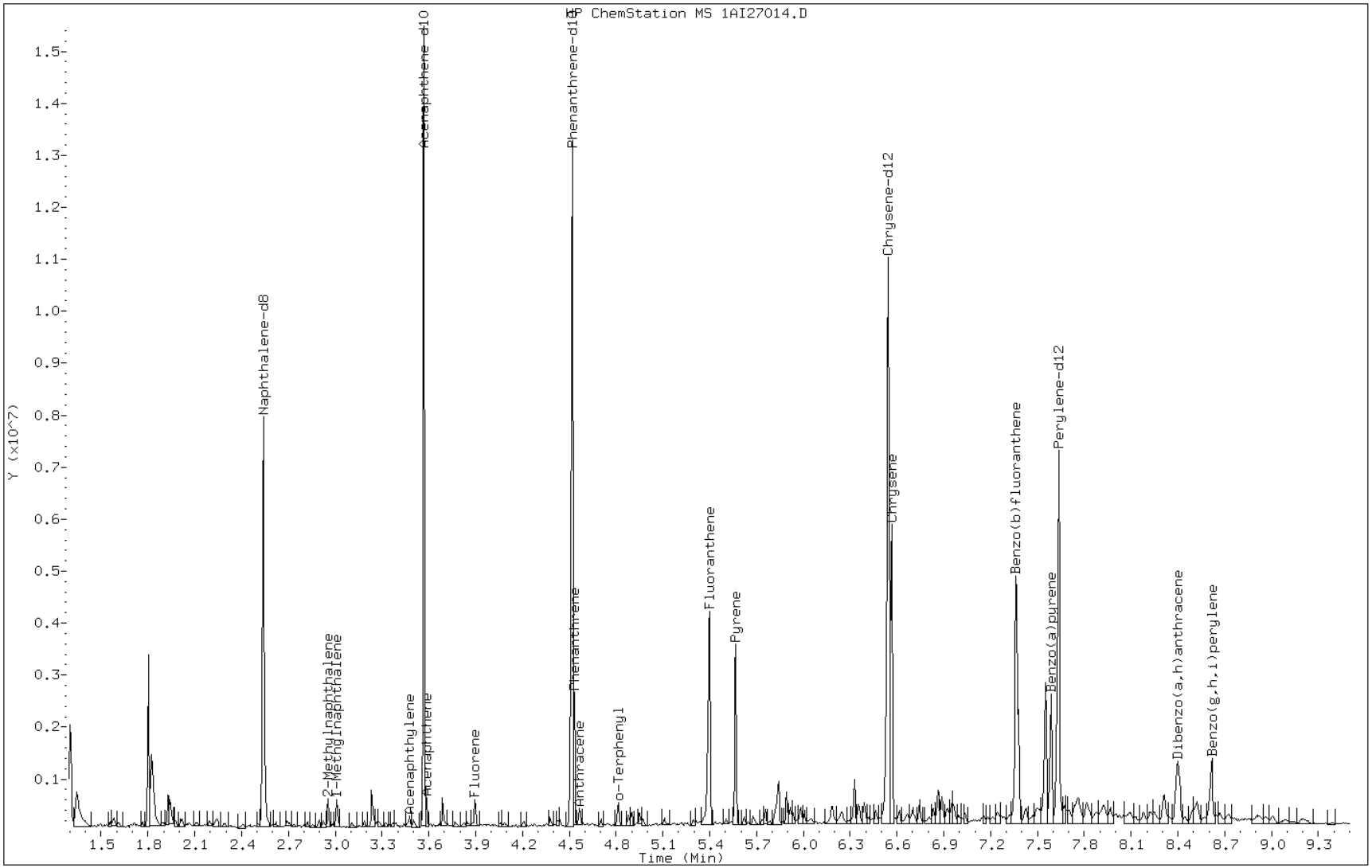
Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: 1AI27014.D

Date: 27-SEP-2013 14:17

Client ID: Instrument: BSMA5973.i

Sample Info: 680-94506-a-19-c msd Operator: SCC



Manual Integration Report

Data File: 1AI27014.D
Inj. Date and Time: 27-SEP-2013 14:17
Instrument ID: BSMA5973.i
Client ID:
Compound: 21 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 09/27/2013

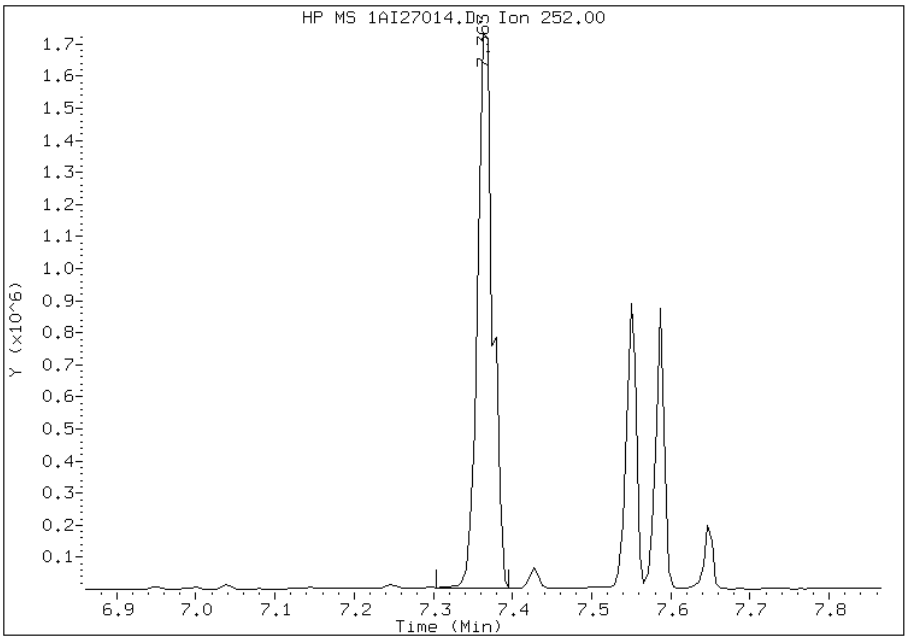
Processing Integration Results

RT: 7.36

Response: 2303876

Amount: 40

Conc: 10612



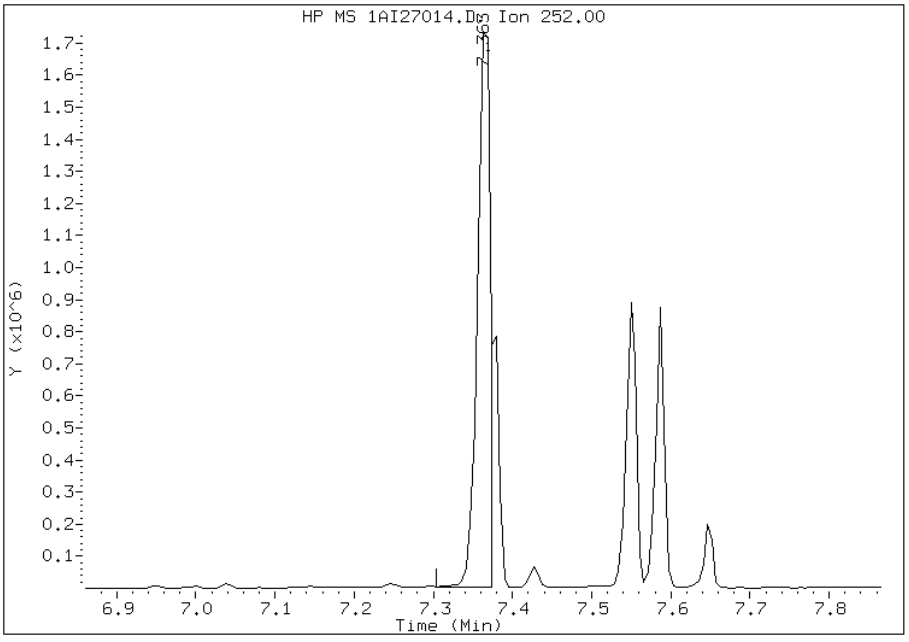
Manual Integration Results

RT: 7.36

Response: 1948766

Amount: 35

Conc: 9411



Manually Integrated By: cantins
Modification Date: 27-Sep-2013 15:02
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AI27014.D
Inj. Date and Time: 27-SEP-2013 14:17
Instrument ID: BSMA5973.i
Client ID:
Compound: 22 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 09/27/2013

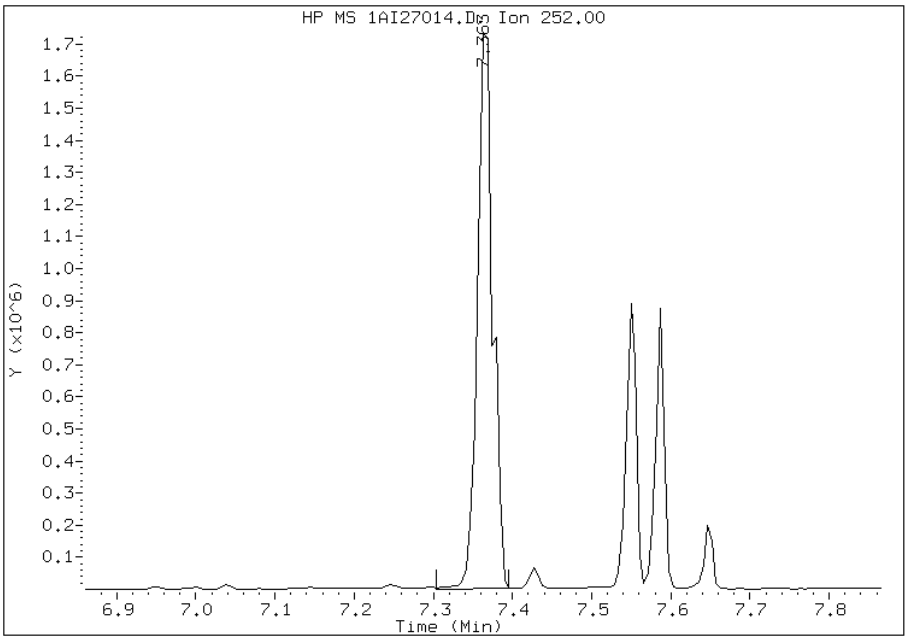
Processing Integration Results

RT: 7.36

Response: 2309501

Amount: 38

Conc: 10065



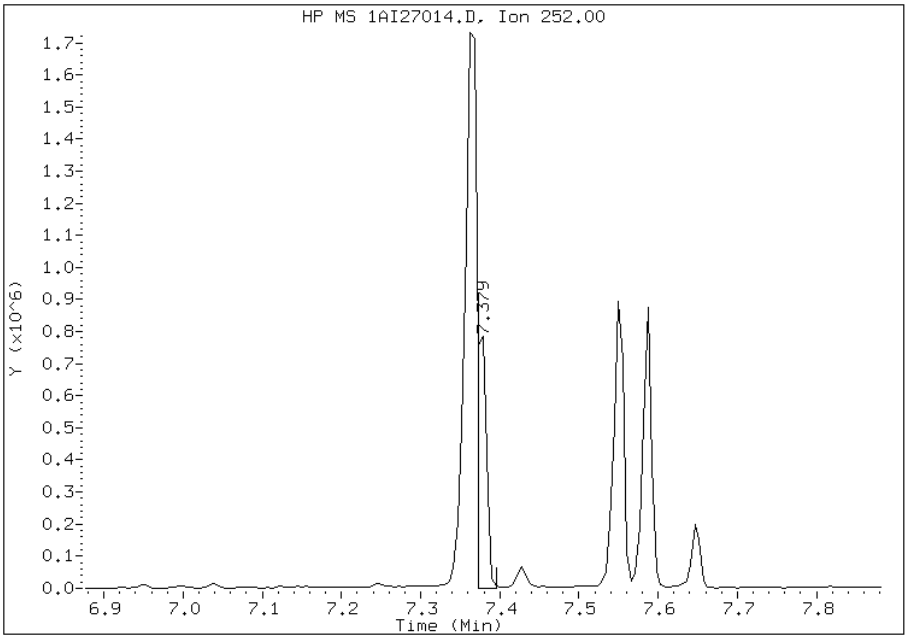
Manual Integration Results

RT: 7.38

Response: 603103

Amount: 12

Conc: 3261



Manually Integrated By: cantins
Modification Date: 27-Sep-2013 15:02
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AI27014.D
Inj. Date and Time: 27-SEP-2013 14:17
Instrument ID: BSMA5973.i
Client ID:
Compound: 25 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 09/27/2013

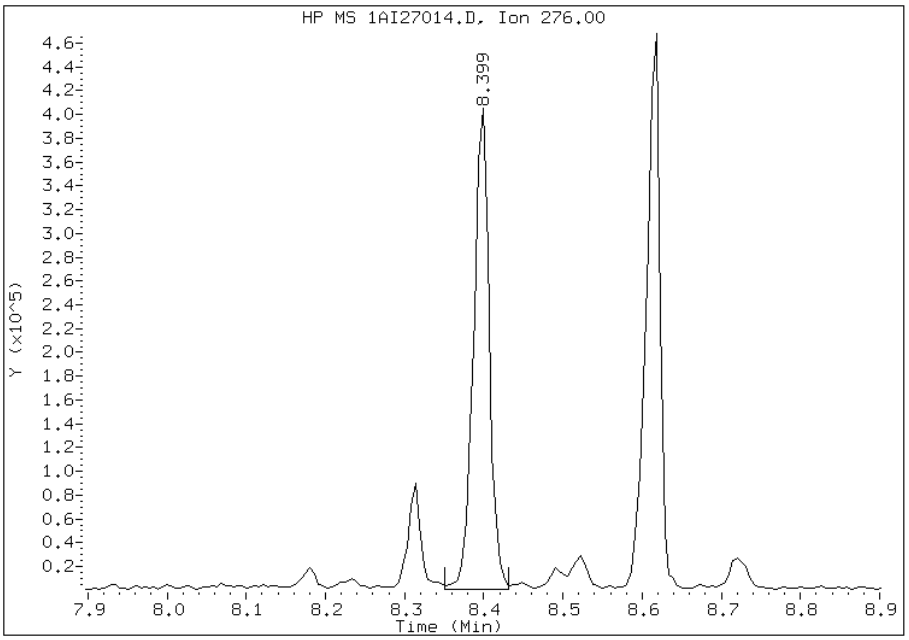
Processing Integration Results

RT: 8.40

Response: 549541

Amount: 14

Conc: 3649



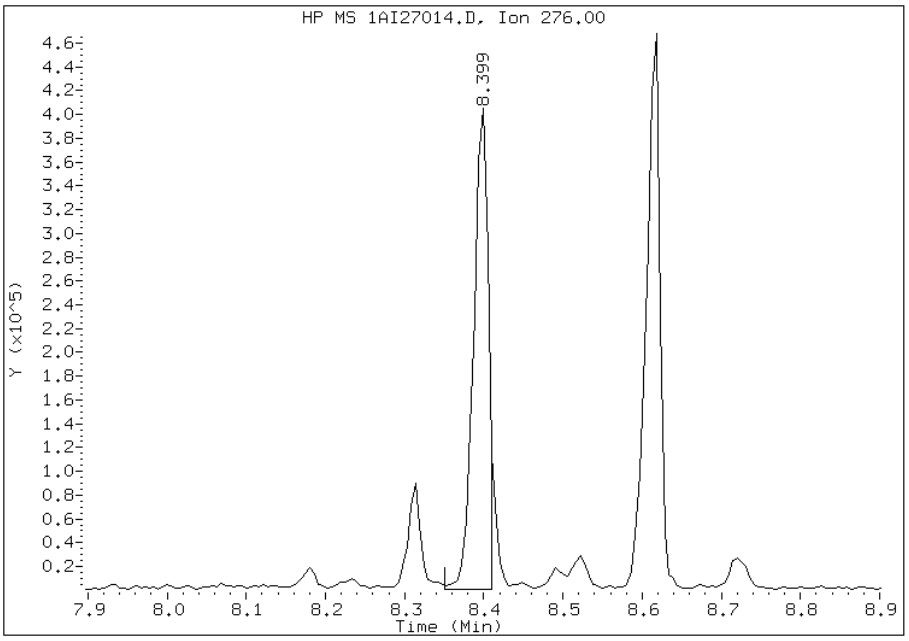
Manual Integration Results

RT: 8.40

Response: 520760

Amount: 13

Conc: 3458



Manually Integrated By: cantins
Modification Date: 27-Sep-2013 15:02
Manual Integration Reason: Split Peak

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-94506-2

SDG No.: 680-94506-2

Instrument ID: BSMA5973 Start Date: 09/26/2013 11:46

Analysis Batch Number: 141781 End Date: 09/26/2013 19:14

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		09/26/2013 11:46	1		DB-5MS 250(um)
ZZZZZ		09/26/2013 12:01	1		DB-5MS 250(um)
DFTPP 660-141781/2		09/26/2013 12:16	1	1AI26002.D	DB-5MS 250(um)
IC 660-141781/3		09/26/2013 12:30	1	1AI26003.D	DB-5MS 250(um)
IC 660-141781/4		09/26/2013 12:45	1	1AI26004.D	DB-5MS 250(um)
IC 660-141781/5		09/26/2013 13:00	1	1AI26005.D	DB-5MS 250(um)
IC 660-141781/6		09/26/2013 13:15	1	1AI26006.D	DB-5MS 250(um)
ICIS 660-141781/7		09/26/2013 13:30	1	1AI26007.D	DB-5MS 250(um)
IC 660-141781/8		09/26/2013 13:45	1	1AI26008.D	DB-5MS 250(um)
IC 660-141781/9		09/26/2013 14:01	1	1AI26009.D	DB-5MS 250(um)
ICV 660-141781/10		09/26/2013 14:16	1	1AI26010.D	DB-5MS 250(um)
ZZZZZ		09/26/2013 14:41	1		DB-5MS 250(um)
ZZZZZ		09/26/2013 14:56	1		DB-5MS 250(um)
ZZZZZ		09/26/2013 15:11	1		DB-5MS 250(um)
MB 660-141709/1-A		09/26/2013 15:26	1	1AI26013.D	DB-5MS 250(um)
LCS 660-141709/2-A		09/26/2013 15:41	1	1AI26014.D	DB-5MS 250(um)
ZZZZZ		09/26/2013 15:57	1		DB-5MS 250(um)
ZZZZZ		09/26/2013 16:12	1		DB-5MS 250(um)
ZZZZZ		09/26/2013 16:27	1		DB-5MS 250(um)
ZZZZZ		09/26/2013 16:42	1		DB-5MS 250(um)
ZZZZZ		09/26/2013 16:57	1		DB-5MS 250(um)
ZZZZZ		09/26/2013 17:12	1		DB-5MS 250(um)
680-94506-20	WCRW-GP01-0_6in	09/26/2013 17:28	1	1AI26021.D	DB-5MS 250(um)
680-94506-21	WCWL-GP04-3_4ft	09/26/2013 17:43	1	1AI26022.D	DB-5MS 250(um)
680-94506-22	WCWL-GP06-2_3ft	09/26/2013 17:58	1	1AI26023.D	DB-5MS 250(um)
ZZZZZ		09/26/2013 18:13	1		DB-5MS 250(um)
ZZZZZ		09/26/2013 18:29	1		DB-5MS 250(um)
ZZZZZ		09/26/2013 18:44	1		DB-5MS 250(um)
ZZZZZ		09/26/2013 18:59	1		DB-5MS 250(um)
ZZZZZ		09/26/2013 19:14	1		DB-5MS 250(um)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-94506-2

SDG No.: 680-94506-2

Instrument ID: BSMA5973 Start Date: 09/27/2013 10:55

Analysis Batch Number: 141824 End Date: 09/27/2013 16:22

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		09/27/2013 10:55	1		DB-5MS 250(um)
DFTPP 660-141824/2		09/27/2013 11:10	1	1AI27002.D	DB-5MS 250(um)
ICIS 660-141824/3		09/27/2013 11:23	1	1AI27003.D	DB-5MS 250(um)
IC 660-141824/4		09/27/2013 11:45	1	1AI27004.D	DB-5MS 250(um)
IC 660-141824/5		09/27/2013 12:00	1	1AI27005.D	DB-5MS 250(um)
IC 660-141824/6		09/27/2013 12:16	1	1AI27006.D	DB-5MS 250(um)
IC 660-141824/7		09/27/2013 12:31	1	1AI27007.D	DB-5MS 250(um)
IC 660-141824/8		09/27/2013 12:46	1	1AI27008.D	DB-5MS 250(um)
IC 660-141824/9		09/27/2013 13:01	1	1AI27009.D	DB-5MS 250(um)
ICV 660-141824/10		09/27/2013 13:16	1	1AI27010.D	DB-5MS 250(um)
660-56451-A-1-A MDLV		09/27/2013 13:31	1		DB-5MS 250(um)
680-94506-19	WCWL-GP05-2_4ft	09/27/2013 13:47	4	1AI27012.D	DB-5MS 250(um)
680-94506-19 MS	WCWL-GP05-2_4ft MS	09/27/2013 14:02	4	1AI27013.D	DB-5MS 250(um)
680-94506-19 MSD	WCWL-GP05-2_4ft MSD	09/27/2013 14:17	4	1AI27014.D	DB-5MS 250(um)
680-94506-23	WCWL-GP08-0_2ft	09/27/2013 14:32	4	1AI27015.D	DB-5MS 250(um)
680-94506-24	WCWL-GP08D-0_2ft	09/27/2013 14:47	4	1AI27016.D	DB-5MS 250(um)
680-94506-23 DL	WCWL-GP08-0_2ft DL	09/27/2013 16:07	20	1AI27017.D	DB-5MS 250(um)
680-94506-24 DL	WCWL-GP08D-0_2ft DL	09/27/2013 16:22	20	1AI27018.D	DB-5MS 250(um)

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-94506-2

SDG No.: 680-94506-2

Batch Number: 141709 Batch Start Date: 09/25/13 09:48 Batch Analyst: Cerome, Saurel

Batch Method: 3546 Batch End Date: 09/25/13 16:45

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	EX-8270LL SPK 00003	EXLLSURINT 00187		
MB 660-141709/1		3546, 8270C LL		14.99 g	1 mL		1 mL		
LCS 660-141709/2		3546, 8270C LL		15.08 g	1 mL	1 mL	1 mL		
680-94506-A-19	WCWL-GP05-2_4ft	3546, 8270C LL	T	14.97 g	1 mL		1 mL		
680-94506-A-19 MS	WCWL-GP05-2_4ft	3546, 8270C LL	T	14.97 g	1 mL	1 mL	1 mL		
680-94506-A-19 MSD	WCWL-GP05-2_4ft	3546, 8270C LL	T	14.97 g	1 mL	1 mL	1 mL		
680-94506-A-20	WCRW-GP01-0_6in	3546, 8270C LL	T	15.33 g	1 mL		1 mL		
680-94506-A-21	WCWL-GP04-3_4ft	3546, 8270C LL	T	15.22 g	1 mL		1 mL		
680-94506-A-22	WCWL-GP06-2_3ft	3546, 8270C LL	T	15.09 g	1 mL		1 mL		
680-94506-A-23	WCWL-GP08-0_2ft	3546, 8270C LL	T	14.96 g	1 mL		1 mL		
680-94506-A-24	WCWL-GP08D-0_2ft	3546, 8270C LL	T	14.97 g	1 mL		1 mL		

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-94506-2

SDG No.: 680-94506-2

Batch Number: 141709 Batch Start Date: 09/25/13 09:48 Batch Analyst: Cerome, Saurel

Batch Method: 3546 Batch End Date: 09/25/13 16:45

Batch Notes	
Acetone Lot #	EX-ACETON BOT 55
Balance ID	B001
Batch Comment	NONE
Person's name who did the concentration	SAUREL
Exchange Solvent Lot #	EX-MC CYCL 60
Exchange Solvent Name	DCM
Final Concentrator Volume	1 mL
MeCL2 Lot #	EX-MC CYCL 60
MeCl2/Acetone Lot #	DCM/ACETON 104
Microwave Start Time	10:45 9/25/13
Microwave Stop Time	11:20 9/25/13
Na2SO4 Lot Number	EX-NA2S04A 72
Ottawa Sand Lot #	OTTOWA SAND 23
Person's name who did the prep	SAUREL
SOP Number	TP-EX014
Person who witnessed spiking	AG
Surrogate Lot Number	EXLLSURINT 187
Water Bath ID	TURBOVAP2 #1-3
Water Bath Temperature	40 C for all

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY

COVER PAGE
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job Number: 680-94506-2

SDG No.: 680-94506-2

Project: 35th Avenue Superfund Site

Client Sample ID	Lab Sample ID
WCWL-GP05-2_4ft	680-94506-19
WCRW-GP01-0_6in	680-94506-20
WCWL-GP04-3_4ft	680-94506-21
WCWL-GP06-2_3ft	680-94506-22
WCWL-GP08-0_2ft	680-94506-23
WCWL-GP08D-0_2ft	680-94506-24

Comments:

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job Number: 680-94506-2

SDG Number: 680-94506-2

Matrix: Solid Instrument ID: Moisture

Method: Moisture RL Date: 01/01/2004 18:10

Analyte	Wavelength/ Mass	RL (%)	
Percent Moisture		0.1	

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job Number: 680-94506-2

SDG Number: 680-94506-2

Matrix: Solid Instrument ID: Moisture

Method: Moisture XRL Date: 04/12/2010 08:14

Analyte	Wavelength/ Mass	XRL (%)	
Percent Moisture		0.1	

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job No.: 680-94506-2

SDG No.: 680-94506-2

Instrument ID: Moisture Method: Moisture

Start Date: 09/26/2013 06:25 End Date: 09/26/2013 11:12

Lab Sample ID	D / F	Type	Time	Analytes																			
				Moist																			
680-94506-19 DU	1	T	06:25	X																			
680-94506-19	1	T	06:27	X																			
680-94506-20	1	T	06:37	X																			
680-94506-21	1	T	06:41	X																			
680-94506-22	1	T	06:45	X																			
680-94506-23	1	T	07:15	X																			
680-94506-24	1	T	07:19	X																			
ZZZZZZ			08:18																				
ZZZZZZ			08:20																				
ZZZZZZ			08:47																				
ZZZZZZ			08:57																				
ZZZZZZ			08:59																				
ZZZZZZ			09:25																				
ZZZZZZ			09:35																				
ZZZZZZ			09:43																				
ZZZZZZ			09:49																				
ZZZZZZ			10:19																				
ZZZZZZ			10:29																				
ZZZZZZ			10:59																				
ZZZZZZ			11:12																				

Prep Types

T = Total/NA

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-94506-2

SDG No.: 680-94506-2

Batch Number: 141769 Batch Start Date: 09/26/13 06:25 Batch Analyst: Galio, Andrew

Batch Method: Moisture Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	DishWeight	SampleMassWet	SampleMassDry			
680-94506-A-19	WCWL-GP05-2_4ft	Moisture	T	0 g	4.855 g	4.529 g			
680-94506-A-20	WCRW-GP01-0_6in	Moisture	T	0 g	4.714 g	4.366 g			
680-94506-A-22	WCWL-GP06-2_3ft	Moisture	T	0 g	4.618 g	4.267 g			
680-94506-A-24	WCWL-GP08D-0_2ft	Moisture	T	0 g	4.621 g	4.355 g			
680-94506-A-23	WCWL-GP08-0_2ft	Moisture	T	0 g	4.678 g	4.365 g			
680-94506-A-21	WCWL-GP04-3_4ft	Moisture	T	0 g	4.471 g	3.761 g			
680-94506-A-19 DU	WCWL-GP05-2_4ft	Moisture	T	0 g	4.929 g	4.534 g			

Batch Notes	
Oven ID	HB43-1, HB43-2

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Shipping and Receiving Documents

Serial Number 59222

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

Alternate Laboratory Name/Location
6712 Benjamin Rd
Tampa, FL 33634

Phone:
Fax

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
35th Ave Removal Site	200548-1386	AL
TAL (LAB) PROJECT MANAGER	P.O. NUMBER	CONTRACT NO.
CLIENT (SITE) PM: Russell Henderson	CLIENT PHONE: 678-355-5550	CLIENT FAX: 770-508-0677
CLIENT NAME: OTIE	CLIENT E-MAIL: rhenderson@otie.com	
CLIENT ADDRESS: 1320 Kennestone Circle, Suite 106, Marietta, GA 30066		
COMPANY CONTRACTING THIS WORK (if applicable)		

PAGE 1 OF 1

STANDARD REPORT DELIVERY (X)
DATE DUE
EXPEDITED REPORT DELIVERY (SURCHARGE) ( )
DATE DUE
NUMBER OF COOLERS SUBMITTED PER SHIPMENT: 1

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	MATRIX TYPE: COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	REQUIRED ANALYSIS: TL PAH	CARB 435	NUMBER OF CONTAINERS SUBMITTED	REMARKS
9/16/13	1348	WCWL-SP05-2-4ft	G					X		1	
9/18/13	1330	WCLW-SP01-0-6in	G					X	X	2	
9/18/13	1550	WCWL-SP04-3_4ft	G					X		1	
9/18/13	1630	WCWL-SP06-2_3ft	G					X		1	
9/18/13	1730	WCWL-SP08-0_2ft	G					X		1	
9/18/13	1730	WCWL-SP08D-0_2ft	G					X		1	

6 | 1 | PRESERVATIVE

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
	9/23/13	1200						
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
	9/24/13	1015						

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT YES ( ) NO ( )	CUSTODY SEAL NO.	SAVANNAH LOG NO: 680-94506	LABORATORY REMARKS: 4.5°C (4-0)

TAL8240-680 (1008)

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10/07/2013

Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-94506-2
SDG Number: 680-94506-2

Login Number: 94506
List Source: TestAmerica Savannah
List Number: 1
Creator: Conner, Keaton

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-94506-2
SDG Number: 680-94506-2

Login Number: 94506
List Number: 1
Creator: Snead, Joshua

List Source: TestAmerica Tampa
List Creation: 09/25/13 09:30 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Tel: (912)354-7858

TestAmerica Job ID: 680-94506-2
TestAmerica Sample Delivery Group: 680-94506-2
Client Project/Site: 35th Avenue Superfund Site

For:
Oneida Total Integrated Enterprises LLC
1220 Kennestone Circle
Suite 106
Marietta, Georgia 30060

Attn: Ms. Limari F Krebs

Authorized for release by:
10/7/2013 5:42:02 PM

Lisa Harvey, Project Manager II
(912)354-7858 e.3221
lisa.harvey@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Job ID: 680-94506-2

Laboratory: TestAmerica Savannah

Narrative

CASE NARRATIVE
Client: Oneida Total Integrated Enterprises LLC
Project: 35th Avenue Superfund Site
Report Number: 680-94506-2

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 9/24/2013 9:19 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 4.0º C and 4.5º C.

SEMIVOLATILE ORGANIC COMPOUNDS BY GCMS - LOW LEVEL

Samples WCWL-GP05-2_4ft (680-94506-19), WCRW-GP01-0_6in (680-94506-20), WCWL-GP04-3_4ft (680-94506-21), WCWL-GP06-2_3ft (680-94506-22), WCWL-GP08-0_2ft (680-94506-23) and WCWL-GP08D-0_2ft (680-94506-24) were analyzed for Semivolatile Organic Compounds by GCMS - Low Level in accordance with EPA SW-846 Method 8270C.

Method(s) 8270C LL: The matrix spike / matrix spike duplicate (MS/MSD) percent recoveries and %RPD for batch 141824 were outside control limits. This is attributed to matrix interferences.

Method(s) 8270C LL: The following samples were diluted due to the nature of the sample matrix: (680-94506-19 MS), (680-94506-19 MSD), WCWL-GP05-2_4ft (680-94506-19), WCWL-GP08-0_2ft (680-94506-23), WCWL-GP08D-0_2ft (680-94506-24). Elevated reporting limits (RLs) are provided. Batch: 141824.

Several analytes recoveries and RPD are outside criteria for the MS and MSD of sample WCWL-GP05-2_4ft (680-94506-19) in batch 660-141824.

Samples WCWL-GP05-2_4ft (680-94506-19)[4X], WCWL-GP08-0_2ft (680-94506-23)[20X], WCWL-GP08-0_2ft (680-94506-23)[4X], WCWL-GP08D-0_2ft (680-94506-24)[20X] and WCWL-GP08D-0_2ft (680-94506-24)[4X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

Sample Summary

Client: Oneida Total Integrated Enterprises LLC
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-94506-2
SDG: 680-94506-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-94506-19	WCWL-GP05-2_4ft	Solid	09/16/13 13:48	09/24/13 10:15
680-94506-20	WCRW-GP01-0_6in	Solid	09/18/13 13:30	09/24/13 10:15
680-94506-21	WCWL-GP04-3_4ft	Solid	09/18/13 15:50	09/24/13 10:15
680-94506-22	WCWL-GP06-2_3ft	Solid	09/18/13 16:30	09/24/13 10:15
680-94506-23	WCWL-GP08-0_2ft	Solid	09/18/13 17:30	09/24/13 10:15
680-94506-24	WCWL-GP08D-0_2ft	Solid	09/18/13 17:30	09/24/13 10:15

Method Summary

Client: Oneida Total Integrated Enterprises LLC
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-94506-2
SDG: 680-94506-2

Method	Method Description	Protocol	Laboratory
8270C LL	Semivolatile Organic Compounds by GCMS - Low Levels	SW846	TAL TAM
Moisture	Percent Moisture	EPA	TAL TAM

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL TAM = TestAmerica Tampa, 6712 Benjamin Road, Suite 100, Tampa, FL 33634, TEL (813)885-7427

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
F	MS/MSD Recovery and/or RPD exceeds the control limits
4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client: Oneida Total Integrated Enterprises LLC
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-94506-2
SDG: 680-94506-2

Client Sample ID: WCWL-GP05-2_4ft

Lab Sample ID: 680-94506-19

Date Collected: 09/16/13 13:48
Matrix: Solid
Date Received: 09/24/13 10:15
Percent Solids: 93.3

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**520**		430	86	ug/Kg	☼	09/25/13 09:48	09/27/13 13:47	4
Acenaphthylene	170	U	170	21	ug/Kg	☼	09/25/13 09:48	09/27/13 13:47	4
Anthracene	**500**	**F**	36	18	ug/Kg	☼	09/25/13 09:48	09/27/13 13:47	4
Benzo[a]anthracene	**3300**	**F**	34	17	ug/Kg	☼	09/25/13 09:48	09/27/13 13:47	4
Benzo[a]pyrene	**2600**	**F**	45	22	ug/Kg	☼	09/25/13 09:48	09/27/13 13:47	4
Benzo[b]fluoranthene	**8200**	**F**	52	26	ug/Kg	☼	09/25/13 09:48	09/27/13 13:47	4
Benzo[g,h,i]perylene	**2900**	**F**	86	19	ug/Kg	☼	09/25/13 09:48	09/27/13 13:47	4
Benzo[k]fluoranthene	**2100**	**F**	34	15	ug/Kg	☼	09/25/13 09:48	09/27/13 13:47	4
Chrysene	**7000**	**F**	39	19	ug/Kg	☼	09/25/13 09:48	09/27/13 13:47	4
Dibenz(a,h)anthracene	**1200**	**F**	86	18	ug/Kg	☼	09/25/13 09:48	09/27/13 13:47	4
Fluoranthene	**3800**	**F**	86	17	ug/Kg	☼	09/25/13 09:48	09/27/13 13:47	4
Fluorene	**450**		86	18	ug/Kg	☼	09/25/13 09:48	09/27/13 13:47	4
Indeno[1,2,3-cd]pyrene	**2200**	**F**	86	31	ug/Kg	☼	09/25/13 09:48	09/27/13 13:47	4
1-Methylnaphthalene	**410**		170	19	ug/Kg	☼	09/25/13 09:48	09/27/13 13:47	4
2-Methylnaphthalene	**420**		170	31	ug/Kg	☼	09/25/13 09:48	09/27/13 13:47	4
Naphthalene	**1200**	**F**	170	19	ug/Kg	☼	09/25/13 09:48	09/27/13 13:47	4
Phenanthrene	**1900**	**F**	34	17	ug/Kg	☼	09/25/13 09:48	09/27/13 13:47	4
Pyrene	**2600**	**F**	86	16	ug/Kg	☼	09/25/13 09:48	09/27/13 13:47	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*93*		*30 - 130*	*09/25/13 09:48*	*09/27/13 13:47*	*4*

Client Sample ID: WCRW-GP01-0_6in

Lab Sample ID: 680-94506-20

Date Collected: 09/18/13 13:30
Matrix: Solid
Date Received: 09/24/13 10:15
Percent Solids: 92.6

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	110	U	110	21	ug/Kg	☼	09/25/13 09:48	09/26/13 17:28	1
Acenaphthylene	42	U	42	5.3	ug/Kg	☼	09/25/13 09:48	09/26/13 17:28	1
Anthracene	8.9	U	8.9	4.4	ug/Kg	☼	09/25/13 09:48	09/26/13 17:28	1
Benzo[a]anthracene	8.5	U	8.5	4.1	ug/Kg	☼	09/25/13 09:48	09/26/13 17:28	1
Benzo[a]pyrene	11	U	11	5.5	ug/Kg	☼	09/25/13 09:48	09/26/13 17:28	1
Benzo[b]fluoranthene	**9.0**	**J**	13	6.4	ug/Kg	☼	09/25/13 09:48	09/26/13 17:28	1
Benzo[g,h,i]perylene	21	U	21	4.6	ug/Kg	☼	09/25/13 09:48	09/26/13 17:28	1
Benzo[k]fluoranthene	8.5	U	8.5	3.8	ug/Kg	☼	09/25/13 09:48	09/26/13 17:28	1
Chrysene	**8.6**	**J**	9.5	4.8	ug/Kg	☼	09/25/13 09:48	09/26/13 17:28	1
Dibenz(a,h)anthracene	21	U	21	4.3	ug/Kg	☼	09/25/13 09:48	09/26/13 17:28	1
Fluoranthene	**59**		21	4.2	ug/Kg	☼	09/25/13 09:48	09/26/13 17:28	1
Fluorene	21	U	21	4.3	ug/Kg	☼	09/25/13 09:48	09/26/13 17:28	1
Indeno[1,2,3-cd]pyrene	21	U	21	7.5	ug/Kg	☼	09/25/13 09:48	09/26/13 17:28	1
1-Methylnaphthalene	42	U	42	4.6	ug/Kg	☼	09/25/13 09:48	09/26/13 17:28	1
2-Methylnaphthalene	42	U	42	7.5	ug/Kg	☼	09/25/13 09:48	09/26/13 17:28	1
Naphthalene	42	U	42	4.6	ug/Kg	☼	09/25/13 09:48	09/26/13 17:28	1
Phenanthrene	8.5	U	8.5	4.1	ug/Kg	☼	09/25/13 09:48	09/26/13 17:28	1
Pyrene	**21**		21	3.9	ug/Kg	☼	09/25/13 09:48	09/26/13 17:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*60*		*30 - 130*	*09/25/13 09:48*	*09/26/13 17:28*	*1*

Client: Oneida Total Integrated Enterprises LLC
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-94506-2
SDG: 680-94506-2

Client Sample ID: WCWL-GP04-3_4ft

Lab Sample ID: 680-94506-21

Date Collected: 09/18/13 15:50
Matrix: Solid
Date Received: 09/24/13 10:15
Percent Solids: 84.1

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	U	120	23	ug/Kg	☼	09/25/13 09:48	09/26/13 17:43	1
Acenaphthylene	**62**		47	5.9	ug/Kg	☼	09/25/13 09:48	09/26/13 17:43	1
Anthracene	**96**		9.8	4.9	ug/Kg	☼	09/25/13 09:48	09/26/13 17:43	1
Benzo[a]anthracene	**150**		9.4	4.6	ug/Kg	☼	09/25/13 09:48	09/26/13 17:43	1
Benzo[a]pyrene	**55**		12	6.1	ug/Kg	☼	09/25/13 09:48	09/26/13 17:43	1
Benzo[b]fluoranthene	**130**		14	7.1	ug/Kg	☼	09/25/13 09:48	09/26/13 17:43	1
Benzo[g,h,i]perylene	**61**		23	5.2	ug/Kg	☼	09/25/13 09:48	09/26/13 17:43	1
Benzo[k]fluoranthene	**79**		9.4	4.2	ug/Kg	☼	09/25/13 09:48	09/26/13 17:43	1
Chrysene	**250**		11	5.3	ug/Kg	☼	09/25/13 09:48	09/26/13 17:43	1
Dibenz(a,h)anthracene	**24**		23	4.8	ug/Kg	☼	09/25/13 09:48	09/26/13 17:43	1
Fluoranthene	**190**		23	4.7	ug/Kg	☼	09/25/13 09:48	09/26/13 17:43	1
Fluorene	**70**		23	4.8	ug/Kg	☼	09/25/13 09:48	09/26/13 17:43	1
Indeno[1,2,3-cd]pyrene	**41**		23	8.3	ug/Kg	☼	09/25/13 09:48	09/26/13 17:43	1
1-Methylnaphthalene	**180**		47	5.2	ug/Kg	☼	09/25/13 09:48	09/26/13 17:43	1
2-Methylnaphthalene	**190**		47	8.3	ug/Kg	☼	09/25/13 09:48	09/26/13 17:43	1
Naphthalene	**220**		47	5.2	ug/Kg	☼	09/25/13 09:48	09/26/13 17:43	1
Phenanthrene	**310**		9.4	4.6	ug/Kg	☼	09/25/13 09:48	09/26/13 17:43	1
Pyrene	**160**		23	4.3	ug/Kg	☼	09/25/13 09:48	09/26/13 17:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*58*		*30 - 130*	*09/25/13 09:48*	*09/26/13 17:43*	*1*

Client Sample ID: WCWL-GP06-2_3ft

Lab Sample ID: 680-94506-22

Date Collected: 09/18/13 16:30
Matrix: Solid
Date Received: 09/24/13 10:15
Percent Solids: 92.4

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	110	U	110	22	ug/Kg	☼	09/25/13 09:48	09/26/13 17:58	1
Acenaphthylene	**54**		43	5.4	ug/Kg	☼	09/25/13 09:48	09/26/13 17:58	1
Anthracene	**84**		9.0	4.5	ug/Kg	☼	09/25/13 09:48	09/26/13 17:58	1
Benzo[a]anthracene	**180**		8.6	4.2	ug/Kg	☼	09/25/13 09:48	09/26/13 17:58	1
Benzo[a]pyrene	**110**		11	5.6	ug/Kg	☼	09/25/13 09:48	09/26/13 17:58	1
Benzo[b]fluoranthene	**180**		13	6.6	ug/Kg	☼	09/25/13 09:48	09/26/13 17:58	1
Benzo[g,h,i]perylene	**92**		22	4.7	ug/Kg	☼	09/25/13 09:48	09/26/13 17:58	1
Benzo[k]fluoranthene	**110**		8.6	3.9	ug/Kg	☼	09/25/13 09:48	09/26/13 17:58	1
Chrysene	**210**		9.7	4.8	ug/Kg	☼	09/25/13 09:48	09/26/13 17:58	1
Dibenz(a,h)anthracene	**28**		22	4.4	ug/Kg	☼	09/25/13 09:48	09/26/13 17:58	1
Fluoranthene	**480**		22	4.3	ug/Kg	☼	09/25/13 09:48	09/26/13 17:58	1
Fluorene	**65**		22	4.4	ug/Kg	☼	09/25/13 09:48	09/26/13 17:58	1
Indeno[1,2,3-cd]pyrene	**77**		22	7.6	ug/Kg	☼	09/25/13 09:48	09/26/13 17:58	1
1-Methylnaphthalene	**140**		43	4.7	ug/Kg	☼	09/25/13 09:48	09/26/13 17:58	1
2-Methylnaphthalene	**170**		43	7.6	ug/Kg	☼	09/25/13 09:48	09/26/13 17:58	1
Naphthalene	**150**		43	4.7	ug/Kg	☼	09/25/13 09:48	09/26/13 17:58	1
Phenanthrene	**240**		8.6	4.2	ug/Kg	☼	09/25/13 09:48	09/26/13 17:58	1
Pyrene	**260**		22	4.0	ug/Kg	☼	09/25/13 09:48	09/26/13 17:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*52*		*30 - 130*	*09/25/13 09:48*	*09/26/13 17:58*	*1*

Client: Oneida Total Integrated Enterprises LLC
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-94506-2
SDG: 680-94506-2

Client Sample ID: WCWL-GP08-0_2ft

Lab Sample ID: 680-94506-23
Date Collected: 09/18/13 17:30
Matrix: Solid
Date Received: 09/24/13 10:15
Percent Solids: 93.3

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	3000		430	86	ug/Kg	☼	09/25/13 09:48	09/27/13 14:32	4
Acenaphthylene	3300		170	21	ug/Kg	☼	09/25/13 09:48	09/27/13 14:32	4
Benzo[a]pyrene	12000		45	22	ug/Kg	☼	09/25/13 09:48	09/27/13 14:32	4
Benzo[g,h,i]perylene	7700		86	19	ug/Kg	☼	09/25/13 09:48	09/27/13 14:32	4
Benzo[k]fluoranthene	8300		34	15	ug/Kg	☼	09/25/13 09:48	09/27/13 14:32	4
Dibenz(a,h)anthracene	3300		86	18	ug/Kg	☼	09/25/13 09:48	09/27/13 14:32	4
Fluoranthene	4300		86	17	ug/Kg	☼	09/25/13 09:48	09/27/13 14:32	4
Fluorene	12000		86	18	ug/Kg	☼	09/25/13 09:48	09/27/13 14:32	4
Indeno[1,2,3-cd]pyrene	7100		86	31	ug/Kg	☼	09/25/13 09:48	09/27/13 14:32	4
1-Methylnaphthalene	3600		170	19	ug/Kg	☼	09/25/13 09:48	09/27/13 14:32	4
2-Methylnaphthalene	6500		170	31	ug/Kg	☼	09/25/13 09:48	09/27/13 14:32	4
Naphthalene	6700		170	19	ug/Kg	☼	09/25/13 09:48	09/27/13 14:32	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*89*		*30 - 130*	*09/25/13 09:48*	*09/27/13 14:32*	*4*

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	12000		180	90	ug/Kg	☼	09/25/13 09:48	09/27/13 16:07	20
Benzo[a]anthracene	18000		170	84	ug/Kg	☼	09/25/13 09:48	09/27/13 16:07	20
Benzo[b]fluoranthene	13000		260	130	ug/Kg	☼	09/25/13 09:48	09/27/13 16:07	20
Chrysene	17000		190	97	ug/Kg	☼	09/25/13 09:48	09/27/13 16:07	20
Phenanthrene	50000		170	84	ug/Kg	☼	09/25/13 09:48	09/27/13 16:07	20
Pyrene	28000		430	80	ug/Kg	☼	09/25/13 09:48	09/27/13 16:07	20

Client Sample ID: WCWL-GP08D-0_2ft

Lab Sample ID: 680-94506-24
Date Collected: 09/18/13 17:30
Matrix: Solid
Date Received: 09/24/13 10:15
Percent Solids: 94.2

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	990		430	85	ug/Kg	☼	09/25/13 09:48	09/27/13 14:47	4
Acenaphthylene	1800		170	21	ug/Kg	☼	09/25/13 09:48	09/27/13 14:47	4
Anthracene	5400		36	18	ug/Kg	☼	09/25/13 09:48	09/27/13 14:47	4
Benzo[a]anthracene	11000		34	17	ug/Kg	☼	09/25/13 09:48	09/27/13 14:47	4
Benzo[a]pyrene	6200		44	22	ug/Kg	☼	09/25/13 09:48	09/27/13 14:47	4
Benzo[b]fluoranthene	9800		52	26	ug/Kg	☼	09/25/13 09:48	09/27/13 14:47	4
Benzo[g,h,i]perylene	4000		85	19	ug/Kg	☼	09/25/13 09:48	09/27/13 14:47	4
Benzo[k]fluoranthene	3900		34	15	ug/Kg	☼	09/25/13 09:48	09/27/13 14:47	4
Chrysene	12000		38	19	ug/Kg	☼	09/25/13 09:48	09/27/13 14:47	4
Dibenz(a,h)anthracene	1800		85	17	ug/Kg	☼	09/25/13 09:48	09/27/13 14:47	4
Fluorene	2700		85	17	ug/Kg	☼	09/25/13 09:48	09/27/13 14:47	4
Indeno[1,2,3-cd]pyrene	3800		85	30	ug/Kg	☼	09/25/13 09:48	09/27/13 14:47	4
1-Methylnaphthalene	1200		170	19	ug/Kg	☼	09/25/13 09:48	09/27/13 14:47	4
2-Methylnaphthalene	2300		170	30	ug/Kg	☼	09/25/13 09:48	09/27/13 14:47	4
Naphthalene	3000		170	19	ug/Kg	☼	09/25/13 09:48	09/27/13 14:47	4
Phenanthrene	14000		34	17	ug/Kg	☼	09/25/13 09:48	09/27/13 14:47	4
Pyrene	13000		85	16	ug/Kg	☼	09/25/13 09:48	09/27/13 14:47	4

Client: Oneida Total Integrated Enterprises LLC
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-94506-2
SDG: 680-94506-2

Client Sample ID: WCWL-GP08D-0_2ft
Date Collected: 09/18/13 17:30
Date Received: 09/24/13 10:15

Lab Sample ID: 680-94506-24
Matrix: Solid
Percent Solids: 94.2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*105*		*30 - 130*	*09/25/13 09:48*	*09/27/13 14:47*	*4*

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	16000		430	85	ug/Kg	☼	09/25/13 09:48	09/27/13 16:22	20

Client: Oneida Total Integrated Enterprises LLC
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-94506-2
SDG: 680-94506-2

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Lab Sample ID: MB 660-141709/1-A
Matrix: Solid
Analysis Batch: 141781

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 141709

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	100	U	100	20	ug/Kg		09/25/13 09:48	09/26/13 15:26	1
Acenaphthylene	40	U	40	5.0	ug/Kg		09/25/13 09:48	09/26/13 15:26	1
Anthracene	8.4	U	8.4	4.2	ug/Kg		09/25/13 09:48	09/26/13 15:26	1
Benzo[a]anthracene	8.0	U	8.0	3.9	ug/Kg		09/25/13 09:48	09/26/13 15:26	1
Benzo[a]pyrene	10	U	10	5.2	ug/Kg		09/25/13 09:48	09/26/13 15:26	1
Benzo[b]fluoranthene	12	U	12	6.1	ug/Kg		09/25/13 09:48	09/26/13 15:26	1
Benzo[g,h,i]perylene	20	U	20	4.4	ug/Kg		09/25/13 09:48	09/26/13 15:26	1
Benzo[k]fluoranthene	8.0	U	8.0	3.6	ug/Kg		09/25/13 09:48	09/26/13 15:26	1
Chrysene	9.0	U	9.0	4.5	ug/Kg		09/25/13 09:48	09/26/13 15:26	1
Dibenz(a,h)anthracene	20	U	20	4.1	ug/Kg		09/25/13 09:48	09/26/13 15:26	1
Fluoranthene	20	U	20	4.0	ug/Kg		09/25/13 09:48	09/26/13 15:26	1
Fluorene	20	U	20	4.1	ug/Kg		09/25/13 09:48	09/26/13 15:26	1
Indeno[1,2,3-cd]pyrene	20	U	20	7.1	ug/Kg		09/25/13 09:48	09/26/13 15:26	1
1-Methylnaphthalene	40	U	40	4.4	ug/Kg		09/25/13 09:48	09/26/13 15:26	1
2-Methylnaphthalene	40	U	40	7.1	ug/Kg		09/25/13 09:48	09/26/13 15:26	1
Naphthalene	40	U	40	4.4	ug/Kg		09/25/13 09:48	09/26/13 15:26	1
Phenanthrene	8.0	U	8.0	3.9	ug/Kg		09/25/13 09:48	09/26/13 15:26	1
Pyrene	20	U	20	3.7	ug/Kg		09/25/13 09:48	09/26/13 15:26	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*70*		*30 - 130*	*09/25/13 09:48*	*09/26/13 15:26*	*1*

Lab Sample ID: LCS 660-141709/2-A
Matrix: Solid
Analysis Batch: 141781

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 141709

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	663	315		ug/Kg		47	39 - 130
Acenaphthylene	663	315		ug/Kg		47	38 - 130
Anthracene	663	356		ug/Kg		54	37 - 130
Benzo[a]anthracene	663	385		ug/Kg		58	40 - 130
Benzo[a]pyrene	663	345		ug/Kg		52	49 - 130
Benzo[b]fluoranthene	663	359		ug/Kg		54	37 - 130
Benzo[g,h,i]perylene	663	308		ug/Kg		46	32 - 130
Benzo[k]fluoranthene	663	365		ug/Kg		55	32 - 130
Chrysene	663	314		ug/Kg		47	41 - 130
Dibenz(a,h)anthracene	663	305		ug/Kg		46	27 - 130
Fluoranthene	663	361		ug/Kg		54	40 - 130
Fluorene	663	318		ug/Kg		48	40 - 130
Indeno[1,2,3-cd]pyrene	663	314		ug/Kg		47	30 - 130
1-Methylnaphthalene	663	337		ug/Kg		51	31 - 130
2-Methylnaphthalene	663	335		ug/Kg		50	33 - 130
Naphthalene	663	341		ug/Kg		51	36 - 130
Phenanthrene	663	368		ug/Kg		56	42 - 130
Pyrene	663	364		ug/Kg		55	44 - 130

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Lab Sample ID: LCS 660-141709/2-A
Matrix: Solid
Analysis Batch: 141781

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 141709

Surrogate	LCS %Recovery	LCS Qualifier	Limits
o-Terphenyl	57		30 - 130

Lab Sample ID: 680-94506-19 MS
Matrix: Solid
Analysis Batch: 141824

Client Sample ID: WCWL-GP05-2_4ft
Prep Type: Total/NA
Prep Batch: 141709

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	520		716	822		ug/Kg	☼	42	39 - 130
Acenaphthylene	170	U	716	397		ug/Kg	☼	55	38 - 130
Anthracene	500	F	716	642	F	ug/Kg	☼	19	37 - 130
Benzo[a]anthracene	3300	F	716	2460	4	ug/Kg	☼	-113	40 - 130
Benzo[a]pyrene	2600	F	716	1740	F	ug/Kg	☼	-125	49 - 130
Benzo[b]fluoranthene	8200	F	716	5200	4	ug/Kg	☼	-416	37 - 130
Benzo[g,h,i]perylene	2900	F	716	1720	4	ug/Kg	☼	-166	32 - 130
Benzo[k]fluoranthene	2100	F	716	1290	F	ug/Kg	☼	-117	32 - 130
Chrysene	7000	F	716	4890	4	ug/Kg	☼	-300	41 - 130
Dibenz(a,h)anthracene	1200	F	716	713	F	ug/Kg	☼	-74	27 - 130
Fluoranthene	3800	F	716	4700	4	ug/Kg	☼	121	40 - 130
Fluorene	450		716	797		ug/Kg	☼	49	40 - 130
Indeno[1,2,3-cd]pyrene	2200	F	716	1460	F	ug/Kg	☼	-97	30 - 130
1-Methylnaphthalene	410		716	836		ug/Kg	☼	60	31 - 130
2-Methylnaphthalene	420		716	899		ug/Kg	☼	67	33 - 130
Naphthalene	1200	F	716	2370	F	ug/Kg	☼	160	36 - 130
Phenanthrene	1900	F	716	3320	F	ug/Kg	☼	194	42 - 130
Pyrene	2600	F	716	2980		ug/Kg	☼	49	44 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
o-Terphenyl	101		30 - 130

Lab Sample ID: 680-94506-19 MSD
Matrix: Solid
Analysis Batch: 141824

Client Sample ID: WCWL-GP05-2_4ft
Prep Type: Total/NA
Prep Batch: 141709

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene	520		716	859		ug/Kg	☼	48	39 - 130	4	40
Acenaphthylene	170	U	716	525		ug/Kg	☼	73	38 - 130	28	40
Anthracene	500	F	716	756	F	ug/Kg	☼	35	37 - 130	16	40
Benzo[a]anthracene	3300	F	716	4650	4 F	ug/Kg	☼	192	40 - 130	62	40
Benzo[a]pyrene	2600	F	716	4400	F	ug/Kg	☼	245	49 - 130	86	40
Benzo[b]fluoranthene	8200	F	716	10100	4 F	ug/Kg	☼	267	37 - 130	64	40
Benzo[g,h,i]perylene	2900	F	716	4550	4 F	ug/Kg	☼	229	32 - 130	90	40
Benzo[k]fluoranthene	2100	F	716	3500	F	ug/Kg	☼	192	32 - 130	92	40
Chrysene	7000	F	716	8100	4 F	ug/Kg	☼	147	41 - 130	49	40
Dibenz(a,h)anthracene	1200	F	716	1950	F	ug/Kg	☼	99	27 - 130	93	40
Fluoranthene	3800	F	716	5030	4	ug/Kg	☼	167	40 - 130	7	40
Fluorene	450		716	776		ug/Kg	☼	46	40 - 130	3	40
Indeno[1,2,3-cd]pyrene	2200	F	716	3710	F	ug/Kg	☼	217	30 - 130	87	40
1-Methylnaphthalene	410		716	810		ug/Kg	☼	56	31 - 130	3	40

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Lab Sample ID: 680-94506-19 MSD
Matrix: Solid
Analysis Batch: 141824

Client Sample ID: WCWL-GP05-2_4ft
Prep Type: Total/NA
Prep Batch: 141709

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Methylnaphthalene	420		716	842		ug/Kg	☼	59	33 - 130	6	40
Naphthalene	1200	F	716	1680		ug/Kg	☼	64	36 - 130	34	40
Phenanthrene	1900	F	716	2520		ug/Kg	☼	83	42 - 130	27	40
Pyrene	2600	F	716	4720	F	ug/Kg	☼	293	44 - 130	45	40

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
o-Terphenyl	*97*		*30 - 130*

QC Association Summary

Client: Oneida Total Integrated Enterprises LLC
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-94506-2
SDG: 680-94506-2

GC/MS Semi VOA

Prep Batch: 141709

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-94506-19	WCWL-GP05-2_4ft	Total/NA	Solid	3546	
680-94506-19 MS	WCWL-GP05-2_4ft	Total/NA	Solid	3546	
680-94506-19 MSD	WCWL-GP05-2_4ft	Total/NA	Solid	3546	
680-94506-20	WCRW-GP01-0_6in	Total/NA	Solid	3546	
680-94506-21	WCWL-GP04-3_4ft	Total/NA	Solid	3546	
680-94506-22	WCWL-GP06-2_3ft	Total/NA	Solid	3546	
680-94506-23 - DL	WCWL-GP08-0_2ft	Total/NA	Solid	3546	
680-94506-23	WCWL-GP08-0_2ft	Total/NA	Solid	3546	
680-94506-24	WCWL-GP08D-0_2ft	Total/NA	Solid	3546	
680-94506-24 - DL	WCWL-GP08D-0_2ft	Total/NA	Solid	3546	
LCS 660-141709/2-A	Lab Control Sample	Total/NA	Solid	3546	
MB 660-141709/1-A	Method Blank	Total/NA	Solid	3546	

Analysis Batch: 141781

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-94506-20	WCRW-GP01-0_6in	Total/NA	Solid	8270C LL	141709
680-94506-21	WCWL-GP04-3_4ft	Total/NA	Solid	8270C LL	141709
680-94506-22	WCWL-GP06-2_3ft	Total/NA	Solid	8270C LL	141709
LCS 660-141709/2-A	Lab Control Sample	Total/NA	Solid	8270C LL	141709
MB 660-141709/1-A	Method Blank	Total/NA	Solid	8270C LL	141709

Analysis Batch: 141824

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-94506-19	WCWL-GP05-2_4ft	Total/NA	Solid	8270C LL	141709
680-94506-19 MS	WCWL-GP05-2_4ft	Total/NA	Solid	8270C LL	141709
680-94506-19 MSD	WCWL-GP05-2_4ft	Total/NA	Solid	8270C LL	141709
680-94506-23	WCWL-GP08-0_2ft	Total/NA	Solid	8270C LL	141709
680-94506-23 - DL	WCWL-GP08-0_2ft	Total/NA	Solid	8270C LL	141709
680-94506-24	WCWL-GP08D-0_2ft	Total/NA	Solid	8270C LL	141709
680-94506-24 - DL	WCWL-GP08D-0_2ft	Total/NA	Solid	8270C LL	141709

General Chemistry

Analysis Batch: 141769

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-94506-19	WCWL-GP05-2_4ft	Total/NA	Solid	Moisture	
680-94506-19 DU	WCWL-GP05-2_4ft	Total/NA	Solid	Moisture	
680-94506-20	WCRW-GP01-0_6in	Total/NA	Solid	Moisture	
680-94506-21	WCWL-GP04-3_4ft	Total/NA	Solid	Moisture	
680-94506-22	WCWL-GP06-2_3ft	Total/NA	Solid	Moisture	
680-94506-23	WCWL-GP08-0_2ft	Total/NA	Solid	Moisture	
680-94506-24	WCWL-GP08D-0_2ft	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Oneida Total Integrated Enterprises LLC
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-94506-2
SDG: 680-94506-2

Client Sample ID: WCWL-GP05-2_4ft

Lab Sample ID: 680-94506-19
Date Collected: 09/16/13 13:48
Matrix: Solid
Date Received: 09/24/13 10:15
Percent Solids: 93.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			141709	09/25/13 09:48	SC1	TAL TAM
Total/NA	Analysis	8270C LL		4	141824	09/27/13 13:47	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	141769	09/26/13 06:27	AJG	TAL TAM

Client Sample ID: WCRW-GP01-0_6in

Lab Sample ID: 680-94506-20
Date Collected: 09/18/13 13:30
Matrix: Solid
Date Received: 09/24/13 10:15
Percent Solids: 92.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			141709	09/25/13 09:48	SC1	TAL TAM
Total/NA	Analysis	8270C LL		1	141781	09/26/13 17:28	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	141769	09/26/13 06:37	AJG	TAL TAM

Client Sample ID: WCWL-GP04-3_4ft

Lab Sample ID: 680-94506-21
Date Collected: 09/18/13 15:50
Matrix: Solid
Date Received: 09/24/13 10:15
Percent Solids: 84.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			141709	09/25/13 09:48	SC1	TAL TAM
Total/NA	Analysis	8270C LL		1	141781	09/26/13 17:43	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	141769	09/26/13 06:41	AJG	TAL TAM

Client Sample ID: WCWL-GP06-2_3ft

Lab Sample ID: 680-94506-22
Date Collected: 09/18/13 16:30
Matrix: Solid
Date Received: 09/24/13 10:15
Percent Solids: 92.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			141709	09/25/13 09:48	SC1	TAL TAM
Total/NA	Analysis	8270C LL		1	141781	09/26/13 17:58	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	141769	09/26/13 06:45	AJG	TAL TAM

Client Sample ID: WCWL-GP08-0_2ft

Lab Sample ID: 680-94506-23
Date Collected: 09/18/13 17:30
Matrix: Solid
Date Received: 09/24/13 10:15
Percent Solids: 93.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			141709	09/25/13 09:48	SC1	TAL TAM
Total/NA	Analysis	8270C LL		4	141824	09/27/13 14:32	SCC	TAL TAM
Total/NA	Prep	3546	DL		141709	09/25/13 09:48	SC1	TAL TAM
Total/NA	Analysis	8270C LL	DL	20	141824	09/27/13 16:07	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	141769	09/26/13 07:15	AJG	TAL TAM

Lab Chronicle

Client: Oneida Total Integrated Enterprises LLC
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-94506-2
SDG: 680-94506-2

Client Sample ID: WCWL-GP08D-0_2ft
Date Collected: 09/18/13 17:30
Date Received: 09/24/13 10:15

Lab Sample ID: 680-94506-24
Matrix: Solid
Percent Solids: 94.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			141709	09/25/13 09:48	SC1	TAL TAM
Total/NA	Analysis	8270C LL		4	141824	09/27/13 14:47	SCC	TAL TAM
Total/NA	Prep	3546	DL		141709	09/25/13 09:48	SC1	TAL TAM
Total/NA	Analysis	8270C LL	DL	20	141824	09/27/13 16:22	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	141769	09/26/13 07:19	AJG	TAL TAM

Laboratory References:

TAL TAM = TestAmerica Tampa, 6712 Benjamin Road, Suite 100, Tampa, FL 33634, TEL (813)885-7427

Serial Number 59222

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

NO

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

Alternate Laboratory Name/Location
6712 Benjamin Rd
Tampa, FL 33634

Phone:
Fax:

PROJECT REFERENCE: 35th Ave Removal Site	PROJECT NO.: 2005148-1356	PROJECT LOCATION (STATE): AL	PAGE 1 OF 1
TAL (LAB) PROJECT MANAGER:	P.O. NUMBER:	CONTRACT NO.:	STANDARD REPORT DELIVERY ● DATE DUE
CLIENT (SITE) PM: Russell Henderson	CLIENT PHONE: 678-355-5550	CLIENT FAX: 770-528-0167	EXPEDITED REPORT DELIVERY (SURCHARGE) ○ DATE DUE
CLIENT NAME: OTIE	CLIENT E-MAIL: rhenderson@otie.com		
CLIENT ADDRESS: 1220 Kennestone Circle, Suite 106, Marietta, GA 30066			NUMBER OF COOLERS SUBMITTED PER SHIPMENT: 1
COMPANY CONTRACTING THIS WORK (if applicable):			

MATRIX TYPE: COMPOSITE (C) OR GRAB (G) INDICATE; AQUEOUS (WATER); SOLID OR SEMISOLID; AIR; NONAQUEOUS LIQUID (OIL, SOLVENT, ...)

REQUIRED ANALYSIS

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	LL PAH	CARB 435								REMARKS
								6	1	PRESERVATIVE							
9/16/13	1348	WCWL-GP05-2-4ft	G					X									
9/18/13	1330	WCRW-GP01-0-6in	G					X	X								
9/18/13	1550	WCWL-GP04-3-4ft	G					X									
9/18/13	1630	WCWL-GP06-2-3ft	G					X									
9/18/13	1730	WCWL-GP08-0-2ft	G					X									
9/18/13	1730	WCWL-GP08D-0-2ft	G					X									

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
[signature]	9/23/13	1200						
RECEIVED BY: (SIGNATURE)	**DATE**	**TIME**	**RECEIVED BY: (SIGNATURE)**	**DATE**	**TIME**	**RECEIVED BY: (SIGNATURE)**	**DATE**	**TIME**
[signature]	9/24/13	1015						

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS
			YES ○ NO ○		680-94506	4.5°C (U-0)

TAL8240-680 (1008)

Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-94506-2
SDG Number: 680-94506-2

Login Number: 94506
List Number: 1
Creator: Conner, Keaton

List Source: TestAmerica Savannah

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-94506-2
SDG Number: 680-94506-2

Login Number: 94506
List Number: 1
Creator: Snead, Joshua

List Source: TestAmerica Tampa
List Creation: 09/25/13 09:30 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Certification Summary

Client: Oneida Total Integrated Enterprises LLC
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-94506-2
SDG: 680-94506-2

Laboratory: TestAmerica Savannah

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
	AFCEE		SAVLAB	
A2LA	DoD ELAP		399.01	02-28-15
A2LA	ISO/IEC 17025		399.01	02-28-15
Alabama	State Program	4	41450	06-30-14
Arkansas DEQ	State Program	6	88-0692	02-01-14
California	NELAP	9	3217CA	07-31-14
Colorado	State Program	8	N/A	12-31-13
Connecticut	State Program	1	PH-0161	03-31-15
Florida	NELAP	4	E87052	06-30-14
GA Dept. of Agriculture	State Program	4	N/A	12-31-13
Georgia	State Program	4	N/A	06-30-14
Georgia	State Program	4	803	06-30-14
Guam	State Program	9	09-005r	06-17-14
Hawaii	State Program	9	N/A	06-30-14
Illinois	NELAP	5	200022	11-30-13
Indiana	State Program	5	N/A	06-30-14
Iowa	State Program	7	353	07-01-15
Kentucky	State Program	4	90084	12-31-13
Kentucky (UST)	State Program	4	18	06-30-14
Louisiana	NELAP	6	30690	06-30-14
Maine	State Program	1	GA00006	08-16-14
Maryland	State Program	3	250	12-31-13
Massachusetts	State Program	1	M-GA006	06-30-14
Michigan	State Program	5	9925	06-30-14
Mississippi	State Program	4	N/A	06-30-14
Montana	State Program	8	CERT0081	01-01-14
Nebraska	State Program	7	TestAmerica-Savannah	06-30-14
New Jersey	NELAP	2	GA769	06-30-14
New Mexico	State Program	6	N/A	06-30-14
New York	NELAP	2	10842	04-01-14
North Carolina DENR	State Program	4	269	12-31-13
North Carolina DHHS	State Program	4	13701	07-31-14
Oklahoma	State Program	6	9984	08-31-14
Pennsylvania	NELAP	3	68-00474	06-30-14
Puerto Rico	State Program	2	GA00006	01-01-14
South Carolina	State Program	4	98001	06-30-14
Tennessee	State Program	4	TN02961	06-30-14
Texas	NELAP	6	T104704185-08-TX	11-30-13
USDA	Federal		SAV 3-04	04-07-14
Virginia	NELAP	3	460161	06-14-14
Washington	State Program	10	C1794	06-10-14
West Virginia	State Program	3	9950C	12-31-13
West Virginia DEP	State Program	3	94	06-30-14
Wisconsin	State Program	5	999819810	08-31-14
Wyoming	State Program	8	8TMS-L	06-30-14

Laboratory: TestAmerica Tampa

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Certification Summary

Client: Oneida Total Integrated Enterprises LLC
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-94506-2
SDG: 680-94506-2

Laboratory: TestAmerica Tampa (Continued)

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alabama	State Program	4	40610	06-30-14
Florida	NELAP	4	E84282	06-30-14
Georgia	State Program	4	905	06-30-14
USDA	Federal		P330-11-00177	04-20-14

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Tel: (912)354-7858

TestAmerica Job ID: 680-94506-3
TestAmerica Sample Delivery Group: 680-94506-3 (Asbestos)
Client Project/Site: 35th Avenue Superfund Site

For:
Oneida Total Integrated Enterprises LLC
1220 Kennestone Circle
Suite 106
Marietta, Georgia 30060

Attn: Ms. Limari F Krebs

Authorized for release by:
10/3/2013 3:52:02 PM

Lisa Harvey, Project Manager II
(912)354-7858 e.3221
lisa.harvey@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Sample Summary

Client: Oneida Total Integrated Enterprises LLC
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-94506-3
SDG: 680-94506-3 (Asbestos)

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-94506-20	WCRW-GP01-0_6in	Solid	09/18/13 13:30	09/24/13 10:15

Method Summary

Client: Oneida Total Integrated Enterprises LLC
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-94506-3
SDG: 680-94506-3 (Asbestos)

Method	Method Description	Protocol	Laboratory
Local Method	General Sub Contract Method	NONE	EMLab Fort

Protocol References:

NONE = NONE

Laboratory References:

EMLab Fort = EMLab P&K Fort Lauderdale, 6301 NW 5th Way, Suite 2850, Fort Lauderdale, FL 33309

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

EMLab P&K
A TestAmerica Company

Report for:

Ms. Lisa Harvey
TestAmerica-Savannah
5102 LaRoche Ave
Savannah, GA 31406

Regarding: Project: 35th Avenue Superfund Site
EML ID: 1120074

Approved by:

Lab Manager
Baluswamy Krishnan

Dates of Analysis:
Asbestos-EPA Method 600/R-93/116: 09-30-2013

Service SOPs: Asbestos-EPA Method 600/R-93/116 (EPA-600/M4-82-020 (SOP 01267))

All samples were received in acceptable condition unless noted in the Report Comments portion in the body of the report. The results relate only to the items tested. The results include an inherent uncertainty of measurement associated with estimating percentages by polarized light microscopy. Measurement uncertainty data for sample results with >1% asbestos concentration can be provided when requested.

EMLab P&K ("the Company") shall have no liability to the client or the client's customer with respect to decisions or recommendations made, actions taken or courses of conduct implemented by either the client or the client's customer as a result of or based upon the Test Results. In no event shall the Company be liable to the client with respect to the Test Results except for the Company's own willful misconduct or gross negligence nor shall the Company be liable for incidental or consequential damages or lost profits or revenues to the fullest extent such liability may be disclaimed by law, even if the Company has been advised of the possibility of such damages, lost profits or lost revenues. In no event shall the Company's liability with respect to the Test Results exceed the amount paid to the Company by the client therefor.

EMLab P&K
6301 NW 5th Way, Suite 2850, Ft. Lauderdale, FL 33309
(877) 711-8400 Fax (954) 776-8485 www.emlab.com

Client: TestAmerica-Savannah
C/O: Ms. Lisa Harvey
Re: 35th Avenue Superfund Site

Date of Sampling: 09-18-2013
Date of Receipt: 09-26-2013
Date of Report: 09-30-2013

ASBESTOS PLM REPORT: EPA-600/M4-82-020 & EPA METHOD 600/R-93-116

Total Samples Submitted:	1
Total Samples Analysed:	1
Total Samples with Layer Asbestos Content > 1%:	0

Location: WCRW-GP01-0_6in (680-94506-20) Lab ID-Version‡: 5055137-1

Sample Layers	Asbestos Content
Gray Soil	ND
Composite Non-Asbestos Content:	10% Mineral Wool
Sample Composite Homogeneity:	Moderate

The test report shall not be reproduced except in full, without written approval of the laboratory. The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government. EMLab P&K reserves the right to dispose of all samples after a period of thirty (30) days, according to all state and federal guidelines, unless otherwise specified.

Inhomogeneous samples are separated into homogeneous subsamples and analyzed individually. ND means no fibers were detected. When detected, the minimum detection and reporting limit is less than 1% unless point counting is performed. Floor tile samples may contain large amounts of interference material and it is recommended that the sample be analyzed by gravimetric point count analysis to lower the detection limit and to aid in asbestos identification.
‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

1 2 3 4 5 6 7 8

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone (912) 354-7858 Fax (912) 352-0165

Chain of Custody Record

TestAme
THE LEADER IN ENVIRONMEN

001120074

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Harvey, Lisa M	Carrier Tracking No(s):	COC No: 680-305444.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: lisa.harvey@testamericainc.com		Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc				Job #: 680-94506-1
Address: 6801 NW 5th Way, Suite 2850,	Due Date Requested: 10/3/2013			
City: Fort Lauderdale	TAT Requested (days):			
State, Zip: FL, 33309				
Phone:	PO #:			
Email:	WO #:			
Project Name: 35th Avenue Superfund Site	Project #: 68010788			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - Di Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=wasteoil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SUBCONTRACT - Asbestos	Total Number of containers	Special Instructions/Note:
			Preservation Codes						
WCRW-GP01-0_6in (680-94506-20)	9/18/13	13:30 Central		Solid			X		

Possible Hazard Identification
Unconfirmed

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:		
Relinquished by: [signature]	Date/Time: 9-25-13 1547	Company	Received by: [signature]	Date/Time: 9/26/13 940	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks:

10/3/2013

Serial Number 59222

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

Alternate Laboratory Name/Location
6712 Benjamin Rd
Tampa, FL 33634

Phone:
Fax:

PROJECT REFERENCE: 35th Ave Removal Site	PROJECT NO.: 2005148-1356	PROJECT LOCATION (STATE): AL	PAGE 1 OF 1
TAL (LAB) PROJECT MANAGER:	P.O. NUMBER:	CONTRACT NO.:	STANDARD REPORT DELIVERY ● DATE DUE
CLIENT (SITE) PM: Russell Henderson	CLIENT PHONE: 678-355-5550	CLIENT FAX: 770-528-0167	EXPEDITED REPORT DELIVERY (SURCHARGE) ○ DATE DUE
CLIENT NAME: OTIE	CLIENT E-MAIL: rhenderson@otie.com		
CLIENT ADDRESS: 1220 Kennestone Circle, Suite 106, Marietta, GA 30066			NUMBER OF COOLERS SUBMITTED PER SHIPMENT: 1
COMPANY CONTRACTING THIS WORK (if applicable):			

MATRIX TYPE: COMPOSITE (C) OR GRAB (G) INDICATE; AQUEOUS (WATER); SOLID OR SEMISOLID; AIR; NONAQUEOUS LIQUID (OIL, SOLVENT, ...)

REQUIRED ANALYSIS

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	LL PAH	CARB 435								REMARKS
								6	1	PRESERVATIVE							
9/16/13	1348	WCWL-GP05-2-4ft	G					X									
9/18/13	1330	WCRW-GP01-0-6in	G					X	X								
9/18/13	1550	WCWL-GP04-3-4ft	G					X									
9/18/13	1630	WCWL-GP06-2-3ft	G					X									
9/18/13	1730	WCWL-GP08-0-2ft	G					X									
9/18/13	1730	WCWL-GP08D-0-2ft	G					X									

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
[signature]	9/23/13	1200						
RECEIVED BY: (SIGNATURE)	**DATE**	**TIME**	**RECEIVED BY: (SIGNATURE)**	**DATE**	**TIME**	**RECEIVED BY: (SIGNATURE)**	**DATE**	**TIME**
[signature]	9/24/13	1015						

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS
			YES ○ NO ○		680-94506	4.5°C Cu-07

TAL8240-680 (1008)

Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-94506-3
SDG Number: 680-94506-3 (Asbestos)

Login Number: 94506
List Number: 1
Creator: Conner, Keaton

List Source: TestAmerica Savannah

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Certification Summary

Client: Oneida Total Integrated Enterprises LLC
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-94506-3
SDG: 680-94506-3 (Asbestos)

Laboratory: TestAmerica Savannah

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
	AFCEE		SAVLAB	
A2LA	DoD ELAP		399.01	02-28-15
A2LA	ISO/IEC 17025		399.01	02-28-15
Alabama	State Program	4	41450	06-30-14
Arkansas DEQ	State Program	6	88-0692	02-01-14
California	NELAP	9	3217CA	07-31-14
Colorado	State Program	8	N/A	12-31-13
Connecticut	State Program	1	PH-0161	03-31-15
Florida	NELAP	4	E87052	06-30-14
GA Dept. of Agriculture	State Program	4	N/A	12-31-13
Georgia	State Program	4	N/A	06-30-14
Georgia	State Program	4	803	06-30-14
Guam	State Program	9	09-005r	06-17-14
Hawaii	State Program	9	N/A	06-30-14
Illinois	NELAP	5	200022	11-30-13
Indiana	State Program	5	N/A	06-30-14
Iowa	State Program	7	353	07-01-15
Kentucky	State Program	4	90084	12-31-13
Kentucky (UST)	State Program	4	18	06-30-14
Louisiana	NELAP	6	30690	06-30-14
Maine	State Program	1	GA00006	08-16-14
Maryland	State Program	3	250	12-31-13
Massachusetts	State Program	1	M-GA006	06-30-14
Michigan	State Program	5	9925	06-30-14
Mississippi	State Program	4	N/A	06-30-14
Montana	State Program	8	CERT0081	01-01-14
Nebraska	State Program	7	TestAmerica-Savannah	06-30-14
New Jersey	NELAP	2	GA769	06-30-14
New Mexico	State Program	6	N/A	06-30-14
New York	NELAP	2	10842	04-01-14
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North Carolina DHHS	State Program	4	13701	07-31-14
Oklahoma	State Program	6	9984	08-31-14
Pennsylvania	NELAP	3	68-00474	06-30-14
Puerto Rico	State Program	2	GA00006	01-01-14
South Carolina	State Program	4	98001	06-30-14
Tennessee	State Program	4	TN02961	06-30-14
Texas	NELAP	6	T104704185-08-TX	11-30-13
USDA	Federal		SAV 3-04	04-07-14
Virginia	NELAP	3	460161	06-14-14
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West Virginia DEP	State Program	3	94	06-30-14
Wisconsin	State Program	5	999819810	08-31-14
Wyoming	State Program	8	8TMS-L	06-30-14

Laboratory: EMLab P&K Fort Lauderdale

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Certification Summary

Client: Oneida Total Integrated Enterprises LLC
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-94506-3
SDG: 680-94506-3 (Asbestos)

Laboratory: EMLab P&K Fort Lauderdale (Continued)

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
AIHA	EMLAP		173067	03-01-14
AIHA	IHLAP		173067	03-01-14