

**Data Validation Checklist  
Inorganic Analyses**

Project: 35<sup>TH</sup> Avenue Superfund Site  
 Laboratory: TestAmerica - Savannah, GA  
 Method: SW-846 6010C and 7471B  
 Matrix: Soil  
 Reviewer: Jane Lindsey  
 Concurrence<sup>1</sup>: Carol Lovett, Sarah Choyke

Project No: 15268508.20000  
 Job ID.: 680-88632-4  
 Associated Samples: Refer to Attachment A (Sample Summary)  
 Date(s) Collected: 03/21/2013 & 03/22/2013  
 Date: 04/09/2013  
 Date: 04/19/2013

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.			✓		
2. Were all COC records signed and integrity seals intact, indicating that COC was maintained for all samples?	✓				
3. Were there any problems noted in laboratory data package concerning condition of samples upon receipt?		✓			
4. Do any soil/sediment samples contain more than 50% water? If yes, then results are to be reported on a wet-weight basis.		✓			
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.		✓			
6. Were results for all project-specified target analytes reported?	✓				
7. Were project-specified Reporting Limits achieved for undiluted sample analyses?		✓		The MDL (0.59 mg/Kg) for arsenic is greater than the Resident Soil RSL (0.39 mg/Kg). A RSL does not exist for total chromium; however, the total chromium MDL (0.5 mg/Kg) is greater than the hexavalent chromium Resident Soil RSL (0.29 mg/Kg).	
8. Were method blank (MB) prepared at the appropriate frequency (one per 20 samples, batch, matrix, and level)?	✓				
9. Was a calibration blank (ICB/CCB) analyzed at the beginning, after every 10 <sup>th</sup> sample, and at the end of each analytical run?	✓				
10. Were target analytes detected in the method and/or calibration blanks?		✓		Target analytes were not detected in the method blanks. Calibration blanks were not evaluated.	

<sup>1</sup> Independent technical reviewer

## Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
11. Were target analytes reported in equipment/rinsate blanks analyses above the DL?		✓		According to the QAPP, a rinsate blank is to be collected after each decontamination event, which occurs once per week per the client. Rinsate blank 032013-RB-Bowls+Spoons (680-88527-34) was collected during the week of 03/18/2013. Target analytes were not detected during the EPA Methods 200.7 and 245.1 analyses of the rinsate blank, and all results were reported under Test America Job ID 680-88527-3.	
12. Were contaminants detected in samples below the blank contamination action level? <ul style="list-style-type: none"> <li>○ If blank result &gt; RL,</li> <li>• Flag sample results <math>\leq</math> RL with a U</li> <li>• Flag positive sample results &gt; RL and <math>\leq 10x</math> blank result, as J+ positive results</li> <li>○ If blank result <math>\leq</math> RL,</li> <li>• Flag sample results <math>\leq</math> RL with a U</li> <li>• Flag positive sample results &gt; RL and <math>\leq 10x</math> blank result, as J+ positive results</li> </ul>			✓	Method and rinsate blank contamination does not exist.	
13. Are there negative laboratory blank results with the absolute value $\leq$ RL? If yes, then flag positive and non-detect sample results that are < 10x absolute blank value as J- and UJ, respectively.		✓			
14. Was a field duplicate analyzed?		✓			
15. Was precision deemed acceptable as defined by the project plans?			✓		
16. Were initial and continuing calibration standards analyzed at the lab/project-specified frequency for each instrument? <ul style="list-style-type: none"> <li>○ 6010C:</li> <li>• ICAL: Blank and one standard</li> <li>• ICV initially, and CCV every 10<sup>th</sup> sample and at the end of the analytical run</li> <li>• Lower Limit of Quantitation Check Sample (CRI) to be analyzed after establishing lower laboratory reporting limits and as needed</li> <li>○ 7471B:</li> <li>• ICAL: Blank and five standards</li> <li>• ICV initially, and CCV every 10<sup>th</sup> sample and at the end of the analytical run</li> </ul>	✓			<ul style="list-style-type: none"> <li>• 6010C: 03/27/2013 - 03/29/2013, instrument ICPE. One blank and one standard initially per analytical batch. ICV initially, and CCV every 10 samples and at end of run. CRI after initial calibration blank analysis.</li> <li>• 7471B: 03/27/2013-03/28/2013. 6-Point ICAL. ICV initially, CCV every 10 samples and at end of run. CRI after initial calibration blank analysis</li> </ul>	

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
<p>17. Were these results within lab/project specifications?</p> <ul style="list-style-type: none"> <li>o 6010C                             <ul style="list-style-type: none"> <li>• ICV/CCV (Criteria: 90-110%R):                                     <ul style="list-style-type: none"> <li>▪ If %R &lt;75, then J- flag positive results and R-flag non-detects</li> <li>▪ If 75-89%R, then J- flag positive results and UJ flag non-detects</li> <li>▪ If 111-125%R, then J flag positive results</li> <li>▪ If &gt;125%R, then J+ flag positive results</li> <li>▪ If &gt;160%R, then R flag positive results</li> </ul> </li> <li>• CRI (Method: 70-130%R, Laboratory: 50-150%R; Project: 50-150%R for Sb, Pb, and Tl, and 70-130%R for all other analytes):                                     <ul style="list-style-type: none"> <li>▪ If CRI %R &lt;50 (&lt;30% for Sb, Pb, TL), then R flag results <math>\leq 2x</math> RL and J flag positive results <math>&gt;2x</math> RL</li> <li>▪ If CRI %R 50-69% (30-49% for Sb, Pb, TL), then J- and UJ flag positive results <math>&lt;2x</math> RL and ND, respectively</li> <li>▪ If CRI %R &gt;130% and <math>\leq 180%</math> (&gt;150%, but <math>\leq 200%</math> for Sb, Pb, TL), then J+ flag positive results <math>&lt;2x</math> RL</li> <li>▪ If CRI %R &gt;180% (&gt;200% for Sb, Pb, TL), then R flag positive results</li> </ul> </li> </ul> </li> <li>o 7471B                             <ul style="list-style-type: none"> <li>• ICV/CCV (Criteria: 80-120%R):                                     <ul style="list-style-type: none"> <li>▪ If correlation coefficients &lt;0.995, then J and UJ flag positive and non-detect results.</li> <li>▪ If %R &lt;65, then J- flag positive results and R-flag non-detects</li> <li>▪ If 65-79%R, then J- flag positive results and UJ flag non-detects</li> <li>▪ If 121-135%R, then J flag positive results</li> <li>▪ If &gt;135%R, then J+ flag positive results</li> <li>▪ If &gt;170%R, then R flag positive results</li> </ul> </li> <li>• CRI (Method: Not required, Laboratory: 50-150%R, Project: 70-130%R):                                     <ul style="list-style-type: none"> <li>▪ If CRI %R &lt;50, then R flag results <math>\leq 2x</math> RL and J flag positive results <math>&gt;2x</math> RL</li> <li>▪ If CRI %R 50-69%, then J- and UJ flag positive results <math>&lt;2x</math> RL and ND, respectively</li> <li>▪ If CRI %R &gt;130% and <math>\leq 180%</math>, then J+ flag positive results <math>&lt;2x</math> RL</li> <li>▪ If CRI %R &gt;180%, then R flag positive result</li> </ul> </li> </ul> </li> </ul>	✓			Mercury correlation coefficient: ICAL of 03/27/2013 is 0.9997884 (page 562)	
<p>18. Was the interference check sample (ICS) analyzed at the beginning of each ICP analytical run?</p>	✓				

## Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
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: <ul style="list-style-type: none"> <li>○ If &gt;120%R (or &gt;&gt;true value plus 2x CRQL), J+ flag positive results</li> <li>○ If 50-79%R (or less than true value – 2x the CRQL), J- flag positive results and UJ flag non-detects</li> <li>○ If &lt;50%R, J- flag positive results and R-flag non-detects</li> </ul>	✓				
20. Was a LCS analyzed for each preparation batch (one per 20 samples per matrix and level)?	✓				
21. Did LCS recoveries meet method/laboratory/project (80-120%R) specifications? <ul style="list-style-type: none"> <li>○ Soil: <ul style="list-style-type: none"> <li>• LCS result &gt; Upper control limit (UCL): J+ flag positive results</li> <li>• LCS result &lt; Lower control limit (LCL): J- flag positive results and UJ flag non-detects</li> </ul> </li> <li>○ Aqueous: <ul style="list-style-type: none"> <li>• If &lt;50%R, then J- and R flag positive and ND results, respectively</li> <li>• If 50-LCL%R, J- and UJ flag positive and ND results, respectively</li> <li>• &gt;UCL: J+ Flag positive results</li> <li>• &gt;150%R: R Flag results</li> </ul> </li> </ul>	✓				
22. Was the RPD between LCS and LCSD results within method/laboratory /project control limits ( $\leq 20\%$ RPD)? If not, J and UJ flag positive and non-detect results, respectively			✓	LCS only	
23. Was a Matrix Spike (MS) and Matrix Spike Duplicate (MSD) analyzed once per preparation batch?	✓				
24. Is the MS and MSD parent sample a project-specific sample?	✓			<ul style="list-style-type: none"> <li>• 7471B, Prep Batch 270670: 680-88632-10 (CV0090B-CS-SP), MS/MSD</li> <li>• 6010C, Prep Batch 270845: 680-88632-10 (CV0090B-CS-SP), MS/MSD</li> </ul>	
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)?		✓		6010C: 680-88580-49 (Batch sample). A PDS was not conducted for CV0090B-CS-SP (680-88632-10) even though MS/MSD results did not meet control limits.	



Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
<p>26. For all analytes with sample concentration &lt; 4 x spike concentration, are spike recoveries within method (6010C: 75-125%R MS/MSD and 80-120%R PDS; 7471B: 80-120%R MS/MSD and PDS not required), laboratory (MS, MSD, and PDS: 75-125%R), and project (as noted below) specifications? <i>Only QC results for project samples that are reported under this Job ID are evaluated.</i></p> <p>If not,</p> <ul style="list-style-type: none"> <li>o 6010C:           <ul style="list-style-type: none"> <li>• If MS %R &lt;30 and PDS %R &lt;75, then J- and R Flag positive and ND results, respectively</li> <li>• If MS %R &lt;30 and PDS %R &gt;75, then J flag positive and UJ flag non-detect results</li> <li>• If MS and MSD %R 30-74 and PDS%R &lt;75, then J- flag positive and UJ flag non-detect results</li> <li>• If MS and MSD %R 30-74 and PDS%R ≥75, then J flag positive and UJ flag non-detect results</li> <li>• If MS, MSD, and PDS %R &gt;125, J+ flag positive results</li> <li>• If MS and MSD %R &gt;125 and PDS %R ≤125, then J flag positive results</li> <li>• If MS and MSD %R &lt;30 and no PDS, then J- flag positive and R-flag non-detect results</li> <li>• If MS and MSD %R 30-74 and no PDS, then J- and UJ flag positive and non-detect results, respectively</li> <li>• If MS and MSD %R &gt;125 and no PDS, then J+ flag positive results</li> </ul> </li> <li>o 7471B:           <ul style="list-style-type: none"> <li>• If MS %R &lt;30, then J- and R Flag positive and ND results, respectively</li> <li>• If MS and MSD %R 30-74, then J- flag positive and UJ flag non-detect results</li> <li>• If MS and MSD %R &gt;125, then J+ flag positive results</li> </ul> </li> </ul>		✓		<p>CV0090B-CS-SP (680-88632-10) [Note: PDS analysis not conducted]:</p> <ul style="list-style-type: none"> <li>• Arsenic @ -164 and -123%R (75-125). The native sample concentration is greater than 4x the spiking level; therefore, an evaluation of interference is not possible.</li> <li>• Barium @ -808 and -729%R (75-125). The native sample concentration is greater than 4x the spiking level; therefore, an evaluation of interference is not possible.</li> <li>• Cadmium @ 69 and 81%R (75-125). Qualification of data is not required, because MSD %R is within specifications.</li> <li>• Chromium @ 21 and 138%R (75-125). Flag result with J.</li> <li>• Lead @ -63533 and -58801%R (75-125). The native sample concentration is greater than 4x the spiking level; therefore, an evaluation of interference is not possible.</li> <li>• Selenium @ 71 and 85%R (75-125). Qualification of data is not required, because MSD %R is within specifications.</li> <li>• Silver @ 25 and 33%R (75-125). J- Flag sample result.</li> <li>• Mercury @ 90 and -23%R. The native sample concentration is greater than 4x the spiking level; therefore, an evaluation of interference is not possible.</li> </ul>	J, J-
<p>27. Were laboratory/project (≤20%RPD) criteria met for precision during the MS and MSD analysis? <i>Only QC results for project samples that are reported under this Job ID are evaluated.</i></p> <ul style="list-style-type: none"> <li>o If RPD &gt;20%, J and UJ flag positive and non-detect results.</li> </ul>		✓		<p>CV0090B-CS-SP (680-88632-10):</p> <ul style="list-style-type: none"> <li>• Chromium @ 29%RPD (≤20). Flag result with J.</li> <li>• Silver @ 23%RPD (≤20). Flag result with J.</li> <li>• Lead @ 57%RPD (≤20). The native sample concentration is greater than 4x the spiking level; therefore, an evaluation of interference is not possible.</li> </ul>	J
<p>28. Was a serial dilution conducted for 6010C?</p>	✓				
<p>29. Is the serial dilution parent sample a project-specific sample?</p>		✓		6010C: 680-88580-49 (Batch sample)	

**Data Validation Checklist (Continued)**

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
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)? <i>Only QC results for project samples are evaluated.</i> <ul style="list-style-type: none"> <li>o If %D &gt;10, J and UJ flag positive and non-detect results, respectively.</li> </ul>			✓		
31. Was a laboratory duplicate analyzed?		✓			
32. Was the lab duplicate analysis conducted on a project-specific sample?			✓		
33. Were criteria for laboratory/project precision met? <i>Only QC results for project samples are evaluated.</i> <ul style="list-style-type: none"> <li>o If RPD values &gt;20% (35% for soil/sediment) or absolute difference &gt; RL (2x RL for soil/sediment), then J and UJ flag positive and non-detect results, respectively</li> </ul>			✓		
34. Were lab comments included in report? If yes, summarize contents or attach a copy of the narrative.	✓			Refer to <b>Attachment B</b> (Case Narrative)	
<p><b>Comments:</b> The data validation was conducted in accordance with the <i>Non-Industrial Use Property Sampling Event QAPP for the 35th Avenue Removal Site, Birmingham, Alabama, Revision 1</i> (OTIE, October 2012). The data review process was modeled after the <i>USEPA Contract Laboratory Program (CLP) National Functional Guidelines (NFG) for Inorganic Data Review</i> (EPA 540-R-04-004, October 2004). Sample results have been qualified based on the results of the data review process (<b>Attachment C</b>). Criteria for acceptability of data were based upon available site information, analytical method requirements, guidance documents, and professional judgment</p>					

**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  
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-88632-4  
SDG: 68088632-4

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-88632-10	CV0090B-CS-SP	Solid	03/21/13 11:35	03/23/13 09:39
680-88632-23	CV0566A-CS-SP	Solid	03/21/13 16:01	03/23/13 09:39
680-88632-29	FM0017C-CS-SP	Solid	03/21/13 14:00	03/23/13 09:39
680-88632-34	CV0197C-CS	Solid	03/21/13 13:50	03/23/13 09:39
680-88632-41	FM0017C-GS-SP-sieve	Solid	03/21/13 14:00	03/23/13 09:39
680-88632-42	CV0197C-CS-sieve	Solid	03/21/13 13:50	03/23/13 09:39
680-88632-43	CV0090B-CS-SP-sieve	Solid	03/21/13 11:35	03/23/13 09:39
680-88632-44	CV0566A-CS-SP-sieve	Solid	03/21/13 16:01	03/23/13 09:39
680-88632-48	HP0084B-CS-SP	Solid	03/22/13 08:15	03/23/13 09:39
680-88632-50	HP0084B-CS-SP-sieve	Solid	03/22/13 08:15	03/23/13 09:39

**ATTACHMENT B**  
**CASE NARRATIVE**

# Case Narrative

Client: Oneida Total Integrated Enterprises LLC  
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-88632-4  
SDG: 68088632-4

**Job ID: 680-88632-4**

**Laboratory: TestAmerica Savannah**

**Narrative**

## CASE NARRATIVE

**Client: Oneida Total Integrated Enterprises LLC**

**Project: 35th Avenue Superfund Site**

**Report Number: 680-88632-4**

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 03/23/2013; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 1.2 C.

### METALS (ICP)

Samples CV0090B-CS-SP (680-88632-10), CV0566A-CS-SP (680-88632-23), FM0017C-CS-SP (680-88632-29), CV0197C-CS (680-88632-34), FM0017C-GS-SP-sieve (680-88632-41), CV0197C-CS-sieve (680-88632-42), CV0090B-CS-SP-sieve (680-88632-43), CV0566A-CS-SP-sieve (680-88632-44), HP0084B-CS-SP (680-88632-48) and HP0084B-CS-SP-sieve (680-88632-50) were analyzed for Metals (ICP) in accordance with EPA SW-846 Method 6010C. The samples were prepared on 03/27/2013 and analyzed on 03/28/2013 and 03/29/2013.

Sample CV0090B-CS-SP (680-88632-10)[10X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

Several analytes recovered outside the recovery criteria for the MS/MSD of sample CV0090B-CS-SP (680-88632-10) in batch 680-271226. Also, Chromium, Silver and Lead exceeded the rpd limit.

No other difficulties were encountered during the metals analyses.

All other quality control parameters were within the acceptance limits.

### TOTAL MERCURY

Samples CV0090B-CS-SP (680-88632-10), CV0566A-CS-SP (680-88632-23), FM0017C-CS-SP (680-88632-29), CV0197C-CS (680-88632-34), FM0017C-GS-SP-sieve (680-88632-41), CV0197C-CS-sieve (680-88632-42), CV0090B-CS-SP-sieve (680-88632-43), CV0566A-CS-SP-sieve (680-88632-44), HP0084B-CS-SP (680-88632-48) and HP0084B-CS-SP-sieve (680-88632-50) were analyzed for total mercury in accordance with EPA SW-846 Method 7471B. The samples were prepared on 03/26/2013 and analyzed on 03/27/2013 and 03/28/2013.

Samples CV0090B-CS-SP (680-88632-10)[5X], CV0090B-CS-SP-sieve (680-88632-43)[5X] and CV0566A-CS-SP-sieve (680-88632-44)[5X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

Mercury recovered outside the recovery criteria for the MSD of sample CV0090B-CS-SPMSD (680-88632-10) in batch 680-271035.

The presence of the '4' qualifier in the data indicates analytes where the concentration in the unspiked sample exceeded four times the spiking amount.



## Case Narrative

Client: Oneida Total Integrated Enterprises LLC  
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-88632-4  
SDG: 68088632-4

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### Job ID: 680-88632-4 (Continued)

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#### Laboratory: TestAmerica Savannah (Continued)

No other difficulties were encountered during the mercury analyses.

All other quality control parameters were within the acceptance limits.

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**ATTACHMENT C**  
**QUALIFIED SAMPLE RESULTS**

## Client Sample Results

Client: Oneida Total Integrated Enterprises LLC  
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-88632-4  
 SDG: 68088632-4

**Client Sample ID: CV0090B-CS-SP**

**Lab Sample ID: 680-88632-10**

Date Collected: 03/21/13 11:35

Matrix: Solid

Date Received: 03/23/13 09:39

Percent Solids: 78.4

Method: 6010C - Metals (ICP)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	58		2.5	0.74	mg/Kg	☼	03/27/13 10:09	03/28/13 09:54	1
Barium	450		1.2	0.37	mg/Kg	☼	03/27/13 10:09	03/28/13 09:54	1
Cadmium	1.6		0.62	0.12	mg/Kg	☼	03/27/13 10:09	03/28/13 09:54	1
Chromium	40	J	1.2	0.62	mg/Kg	☼	03/27/13 10:09	03/28/13 09:54	1
Lead	4300		12	6.6	mg/Kg	☼	03/27/13 10:09	03/29/13 12:32	10
Selenium	3.1	U	3.1	1.2	mg/Kg	☼	03/27/13 10:09	03/28/13 09:54	1
Silver	0.34	J	1.2	0.12	mg/Kg	☼	03/27/13 10:09	03/28/13 09:54	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	0.67		0.11	0.047	mg/Kg	☼	03/26/13 10:24	03/28/13 09:10	5

**Client Sample ID: CV0566A-CS-SP**

**Lab Sample ID: 680-88632-23**

Date Collected: 03/21/13 16:01

Matrix: Solid

Date Received: 03/23/13 09:39

Percent Solids: 74.1

Method: 6010C - Metals (ICP)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	23		2.5	0.74	mg/Kg	☼	03/27/13 10:09	03/28/13 10:11	1
Barium	190		1.3	0.38	mg/Kg	☼	03/27/13 10:09	03/28/13 10:11	1
Cadmium	5.9		0.63	0.13	mg/Kg	☼	03/27/13 10:09	03/28/13 10:11	1
Chromium	39		1.3	0.63	mg/Kg	☼	03/27/13 10:09	03/28/13 10:11	1
Lead	660		1.3	0.67	mg/Kg	☼	03/27/13 10:09	03/28/13 10:11	1
Selenium	3.2	U	3.2	1.3	mg/Kg	☼	03/27/13 10:09	03/28/13 10:11	1
Silver	2.3		1.3	0.12	mg/Kg	☼	03/27/13 10:09	03/28/13 10:11	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	0.39		0.023	0.0095	mg/Kg	☼	03/26/13 10:24	03/27/13 14:57	1

**Client Sample ID: FM0017C-CS-SP**

**Lab Sample ID: 680-88632-29**

Date Collected: 03/21/13 14:00

Matrix: Solid

Date Received: 03/23/13 09:39

Percent Solids: 77.0

Method: 6010C - Metals (ICP)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	28		2.3	0.69	mg/Kg	☼	03/27/13 10:09	03/28/13 10:16	1
Barium	170		1.2	0.35	mg/Kg	☼	03/27/13 10:09	03/28/13 10:16	1
Cadmium	0.61		0.59	0.12	mg/Kg	☼	03/27/13 10:09	03/28/13 10:16	1
Chromium	29		1.2	0.59	mg/Kg	☼	03/27/13 10:09	03/28/13 10:16	1
Lead	110		1.2	0.62	mg/Kg	☼	03/27/13 10:09	03/28/13 10:16	1
Selenium	2.9	U	2.9	1.2	mg/Kg	☼	03/27/13 10:09	03/28/13 10:16	1
Silver	1.2	U	1.2	0.11	mg/Kg	☼	03/27/13 10:09	03/28/13 10:16	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	0.30		0.022	0.0090	mg/Kg	☼	03/26/13 10:24	03/27/13 14:59	1

TestAmerica Savannah

Sample results have been qualified by URS in accordance with the Non-Industrial Use Property Sampling Event QAPP for the 35th Avenue Removal Site, Birmingham, Alabama, Revision 1 (OTIE, October 2012)

## Client Sample Results

Client: Oneida Total Integrated Enterprises LLC  
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-88632-4  
 SDG: 68088632-4

**Client Sample ID: CV0197C-CS**

**Lab Sample ID: 680-88632-34**

Date Collected: 03/21/13 13:50

Matrix: Solid

Date Received: 03/23/13 09:39

Percent Solids: 69.4

**Method: 6010C - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	370		2.6	0.78	mg/Kg	☐	03/27/13 10:09	03/28/13 10:22	1
Barium	250		1.3	0.40	mg/Kg	☐	03/27/13 10:09	03/28/13 10:22	1
Cadmium	14		0.66	0.13	mg/Kg	☐	03/27/13 10:09	03/28/13 10:22	1
Chromium	140		1.3	0.66	mg/Kg	☐	03/27/13 10:09	03/28/13 10:22	1
Lead	360		1.3	0.70	mg/Kg	☐	03/27/13 10:09	03/28/13 10:22	1
Selenium	3.2	J	3.3	1.3	mg/Kg	☐	03/27/13 10:09	03/28/13 10:22	1
Silver	1.1	J	1.3	0.13	mg/Kg	☐	03/27/13 10:09	03/28/13 10:22	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	0.27		0.025	0.010	mg/Kg	☐	03/26/13 10:24	03/27/13 15:02	1

**Client Sample ID: FM0017C-GS-SP-sieve**

**Lab Sample ID: 680-88632-41**

Date Collected: 03/21/13 14:00

Matrix: Solid

Date Received: 03/23/13 09:39

Percent Solids: 87.2

**Method: 6010C - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	38		2.3	0.68	mg/Kg	☐	03/27/13 10:09	03/28/13 10:27	1
Barium	210		1.1	0.34	mg/Kg	☐	03/27/13 10:09	03/28/13 10:27	1
Cadmium	0.74		0.57	0.11	mg/Kg	☐	03/27/13 10:09	03/28/13 10:27	1
Chromium	34		1.1	0.57	mg/Kg	☐	03/27/13 10:09	03/28/13 10:27	1
Lead	150		1.1	0.61	mg/Kg	☐	03/27/13 10:09	03/28/13 10:27	1
Selenium	2.9	U	2.9	1.1	mg/Kg	☐	03/27/13 10:09	03/28/13 10:27	1
Silver	0.14	J	1.1	0.11	mg/Kg	☐	03/27/13 10:09	03/28/13 10:27	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	0.39		0.022	0.0092	mg/Kg	☐	03/26/13 10:24	03/27/13 15:09	1

**Client Sample ID: CV0197C-CS-sieve**

**Lab Sample ID: 680-88632-42**

Date Collected: 03/21/13 13:50

Matrix: Solid

Date Received: 03/23/13 09:39

Percent Solids: 66.3

**Method: 6010C - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	340		3.0	0.88	mg/Kg	☐	03/27/13 10:09	03/28/13 10:33	1
Barium	300		1.5	0.45	mg/Kg	☐	03/27/13 10:09	03/28/13 10:33	1
Cadmium	14		0.75	0.15	mg/Kg	☐	03/27/13 10:09	03/28/13 10:33	1
Chromium	130		1.5	0.75	mg/Kg	☐	03/27/13 10:09	03/28/13 10:33	1
Lead	540		1.5	0.79	mg/Kg	☐	03/27/13 10:09	03/28/13 10:33	1
Selenium	1.5	J	3.7	1.5	mg/Kg	☐	03/27/13 10:09	03/28/13 10:33	1
Silver	0.54	J	1.5	0.14	mg/Kg	☐	03/27/13 10:09	03/28/13 10:33	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		0.028	0.011	mg/Kg	☐	03/26/13 10:24	03/27/13 15:12	1

TestAmerica Savannah

## Client Sample Results

Client: Oneida Total Integrated Enterprises LLC  
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-88632-4  
 SDG: 68088632-4

**Client Sample ID: CV0090B-CS-SP-sieve**

**Lab Sample ID: 680-88632-43**

Date Collected: 03/21/13 11:35

Matrix: Solid

Date Received: 03/23/13 09:39

Percent Solids: 75.7

**Method: 6010C - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	38		2.5	0.75	mg/Kg	☐	03/27/13 10:09	03/28/13 10:38	1
Barium	510		1.3	0.38	mg/Kg	☐	03/27/13 10:09	03/28/13 10:38	1
Cadmium	1.7		0.63	0.13	mg/Kg	☐	03/27/13 10:09	03/28/13 10:38	1
Chromium	50		1.3	0.63	mg/Kg	☐	03/27/13 10:09	03/28/13 10:38	1
Lead	420		1.3	0.67	mg/Kg	☐	03/27/13 10:09	03/28/13 10:38	1
Selenium	3.2	U	3.2	1.3	mg/Kg	☐	03/27/13 10:09	03/28/13 10:38	1
Silver	0.28	J	1.3	0.12	mg/Kg	☐	03/27/13 10:09	03/28/13 10:38	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	0.83		0.11	0.047	mg/Kg	☐	03/26/13 10:24	03/28/13 09:17	5

**Client Sample ID: CV0566A-CS-SP-sieve**

**Lab Sample ID: 680-88632-44**

Date Collected: 03/21/13 16:01

Matrix: Solid

Date Received: 03/23/13 09:39

Percent Solids: 71.6

**Method: 6010C - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	27		2.7	0.81	mg/Kg	☐	03/27/13 10:09	03/28/13 10:54	1
Barium	250		1.4	0.41	mg/Kg	☐	03/27/13 10:09	03/28/13 10:54	1
Cadmium	7.1		0.68	0.14	mg/Kg	☐	03/27/13 10:09	03/28/13 10:54	1
Chromium	54		1.4	0.68	mg/Kg	☐	03/27/13 10:09	03/28/13 10:54	1
Lead	790		1.4	0.73	mg/Kg	☐	03/27/13 10:09	03/28/13 10:54	1
Selenium	1.7	J	3.4	1.4	mg/Kg	☐	03/27/13 10:09	03/28/13 10:54	1
Silver	2.7		1.4	0.13	mg/Kg	☐	03/27/13 10:09	03/28/13 10:54	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	0.77		0.13	0.054	mg/Kg	☐	03/26/13 10:24	03/28/13 09:20	5

**Client Sample ID: HP0084B-CS-SP**

**Lab Sample ID: 680-88632-48**

Date Collected: 03/22/13 08:15

Matrix: Solid

Date Received: 03/23/13 09:39

Percent Solids: 74.4

**Method: 6010C - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	47		2.7	0.79	mg/Kg	☐	03/27/13 10:09	03/28/13 11:00	1
Barium	430		1.3	0.40	mg/Kg	☐	03/27/13 10:09	03/28/13 11:00	1
Cadmium	4.3		0.67	0.13	mg/Kg	☐	03/27/13 10:09	03/28/13 11:00	1
Chromium	57		1.3	0.67	mg/Kg	☐	03/27/13 10:09	03/28/13 11:00	1
Lead	460		1.3	0.71	mg/Kg	☐	03/27/13 10:09	03/28/13 11:00	1
Selenium	3.4	U	3.4	1.3	mg/Kg	☐	03/27/13 10:09	03/28/13 11:00	1
Silver	0.26	J	1.3	0.13	mg/Kg	☐	03/27/13 10:09	03/28/13 11:00	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	0.39		0.026	0.011	mg/Kg	☐	03/26/13 10:24	03/27/13 15:19	1

TestAmerica Savannah

Sample results have been qualified by URS in accordance with the Non-Industrial Use Property Sampling Event QAPP for the 35th Avenue Removal Site, Birmingham, Alabama, Revision 1 (OTIE, October 2012)

## Client Sample Results

Client: Oneida Total Integrated Enterprises LLC  
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-88632-4  
 SDG: 68088632-4

**Client Sample ID: HP0084B-CS-SP-sieve**

**Lab Sample ID: 680-88632-50**

Date Collected: 03/22/13 08:15

Matrix: Solid

Date Received: 03/23/13 09:39

Percent Solids: 79.1

Method: 6010C - Metals (ICP)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	28		2.5	0.72	mg/Kg	☆	03/27/13 10:09	03/28/13 11:05	1
Barium	480		1.2	0.37	mg/Kg	☆	03/27/13 10:09	03/28/13 11:05	1
Cadmium	5.5		0.61	0.12	mg/Kg	☆	03/27/13 10:09	03/28/13 11:05	1
Chromium	51		1.2	0.61	mg/Kg	☆	03/27/13 10:09	03/28/13 11:05	1
Lead	540		1.2	0.65	mg/Kg	☆	03/27/13 10:09	03/28/13 11:05	1
Selenium	2.0	J	3.1	1.2	mg/Kg	☆	03/27/13 10:09	03/28/13 11:05	1
Silver	0.20	J	1.2	0.12	mg/Kg	☆	03/27/13 10:09	03/28/13 11:05	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	0.33		0.023	0.0096	mg/Kg	☆	03/26/13 10:24	03/27/13 15:22	1

TestAmerica Savannah

Sample results have been qualified by URS in accordance with the Non-Industrial Use Property Sampling Event QAPP for the 35th Avenue Removal Site, Birmingham, Alabama, Revision 1 (OTIE, October 2012)



## ANALYTICAL REPORT

Job Number: 680-88632-4

SDG Number: 68088632-4

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.  
Bernard Kirkland  
Project Manager I  
4/4/2013 7:00 AM

---

Designee for

Lisa Harvey

Project Manager II

[lisa.harvey@testamericainc.com](mailto:lisa.harvey@testamericainc.com)

04/04/2013

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.

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## CASE NARRATIVE

**Client: Oneida Total Integrated Enterprises LLC**

**Project: 35th Avenue Superfund Site**

**Report Number: 680-88632-4**

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 03/23/2013; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 1.2 C.

### METALS (ICP)

Samples CV0090B-CS-SP (680-88632-10), CV0566A-CS-SP (680-88632-23), FM0017C-CS-SP (680-88632-29), CV0197C-CS (680-88632-34), FM0017C-GS-SP-sieve (680-88632-41), CV0197C-CS-sieve (680-88632-42), CV0090B-CS-SP-sieve (680-88632-43), CV0566A-CS-SP-sieve (680-88632-44), HP0084B-CS-SP (680-88632-48) and HP0084B-CS-SP-sieve (680-88632-50) were analyzed for Metals (ICP) in accordance with EPA SW-846 Method 6010C. The samples were prepared on 03/27/2013 and analyzed on 03/28/2013 and 03/29/2013.

Sample CV0090B-CS-SP (680-88632-10)[10X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

Several analytes recovered outside the recovery criteria for the MS/MSD of sample CV0090B-CS-SP (680-88632-10) in batch 680-271226. Also, Chromium, Silver and Lead exceeded the rpd limit.

No other difficulties were encountered during the metals analyses.

All other quality control parameters were within the acceptance limits.

### TOTAL MERCURY

Samples CV0090B-CS-SP (680-88632-10), CV0566A-CS-SP (680-88632-23), FM0017C-CS-SP (680-88632-29), CV0197C-CS (680-88632-34), FM0017C-GS-SP-sieve (680-88632-41), CV0197C-CS-sieve (680-88632-42), CV0090B-CS-SP-sieve (680-88632-43), CV0566A-CS-SP-sieve (680-88632-44), HP0084B-CS-SP (680-88632-48) and HP0084B-CS-SP-sieve (680-88632-50) were analyzed for total mercury in accordance with EPA SW-846 Method 7471B. The samples were prepared on 03/26/2013 and analyzed on 03/27/2013 and 03/28/2013.

Samples CV0090B-CS-SP (680-88632-10)[5X], CV0090B-CS-SP-sieve (680-88632-43)[5X] and CV0566A-CS-SP-sieve (680-88632-44) [5X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

Mercury recovered outside the recovery criteria for the MSD of sample CV0090B-CS-SPMSD (680-88632-10) in batch 680-271035.

The presence of the '4' qualifier in the data indicates analytes where the concentration in the unspiked sample exceeded four times the spiking amount.

No other difficulties were encountered during the mercury analyses.

All other quality control parameters were within the acceptance limits.

## SAMPLE SUMMARY

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88632-4

Sdg Number: 68088632-4

<b>Lab Sample ID</b>	<b>Client Sample ID</b>	<b>Client Matrix</b>	<b>Date/Time Sampled</b>	<b>Date/Time Received</b>
680-88632-10	CV0090B-CS-SP	Solid	03/21/2013 1135	03/23/2013 0939
680-88632-10MS	CV0090B-CS-SP	Solid	03/21/2013 1135	03/23/2013 0939
680-88632-10MSD	CV0090B-CS-SP	Solid	03/21/2013 1135	03/23/2013 0939
680-88632-23	CV0566A-CS-SP	Solid	03/21/2013 1601	03/23/2013 0939
680-88632-29	FM0017C-CS-SP	Solid	03/21/2013 1400	03/23/2013 0939
680-88632-34	CV0197C-CS	Solid	03/21/2013 1350	03/23/2013 0939
680-88632-41	FM0017C-GS-SP-sieve	Solid	03/21/2013 1400	03/23/2013 0939
680-88632-42	CV0197C-CS-sieve	Solid	03/21/2013 1350	03/23/2013 0939
680-88632-43	CV0090B-CS-SP-sieve	Solid	03/21/2013 1135	03/23/2013 0939
680-88632-44	CV0566A-CS-SP-sieve	Solid	03/21/2013 1601	03/23/2013 0939
680-88632-48	HP0084B-CS-SP	Solid	03/22/2013 0815	03/23/2013 0939
680-88632-50	HP0084B-CS-SP-sieve	Solid	03/22/2013 0815	03/23/2013 0939

## METHOD SUMMARY

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88632-4

Sdg Number: 68088632-4

Description	Lab Location	Method	Preparation Method
<b>Matrix: Solid</b>			
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 SAV	EPA Moisture	
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: 680-88632-4

Sdg Number: 68088632-4

<b>Method</b>	<b>Analyst</b>	<b>Analyst ID</b>
SW846 6010C	Bland, Brian	BCB
SW846 7471B	Bland, Brian	BCB
EPA Moisture	Galio, Andrew	AG
EPA Moisture	Swafford, Frances	FS

## DATA REPORTING QUALIFIERS

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88632-4

Sdg Number: 68088632-4

<b>Lab Section</b>	<b>Qualifier</b>	<b>Description</b>
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.
	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

## Quality Control Results

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88632-4

Sdg Number: 68088632-4

### QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
<b>Metals</b>					
<b>Prep Batch: 680-270670</b>					
LCS 680-270670/2-A	Lab Control Sample	T	Solid	7471B	
MB 680-270670/1-A	Method Blank	T	Solid	7471B	
680-88632-10	CV0090B-CS-SP	T	Solid	7471B	
680-88632-10MS	Matrix Spike	T	Solid	7471B	
680-88632-10MSD	Matrix Spike Duplicate	T	Solid	7471B	
680-88632-23	CV0566A-CS-SP	T	Solid	7471B	
680-88632-29	FM0017C-CS-SP	T	Solid	7471B	
680-88632-34	CV0197C-CS	T	Solid	7471B	
680-88632-41	FM0017C-GS-SP-sieve	T	Solid	7471B	
680-88632-42	CV0197C-CS-sieve	T	Solid	7471B	
680-88632-43	CV0090B-CS-SP-sieve	T	Solid	7471B	
680-88632-44	CV0566A-CS-SP-sieve	T	Solid	7471B	
680-88632-48	HP0084B-CS-SP	T	Solid	7471B	
680-88632-50	HP0084B-CS-SP-sieve	T	Solid	7471B	
<b>Prep Batch: 680-270845</b>					
LCS 680-270845/3-A	Lab Control Sample	T	Solid	3050B	
MB 680-270845/1-A	Method Blank	T	Solid	3050B	
680-88632-10	CV0090B-CS-SP	T	Solid	3050B	
680-88632-10MS	Matrix Spike	T	Solid	3050B	
680-88632-10MSD	Matrix Spike Duplicate	T	Solid	3050B	
680-88632-23	CV0566A-CS-SP	T	Solid	3050B	
680-88632-29	FM0017C-CS-SP	T	Solid	3050B	
680-88632-34	CV0197C-CS	T	Solid	3050B	
680-88632-41	FM0017C-GS-SP-sieve	T	Solid	3050B	
680-88632-42	CV0197C-CS-sieve	T	Solid	3050B	
680-88632-43	CV0090B-CS-SP-sieve	T	Solid	3050B	
680-88632-44	CV0566A-CS-SP-sieve	T	Solid	3050B	
680-88632-48	HP0084B-CS-SP	T	Solid	3050B	
680-88632-50	HP0084B-CS-SP-sieve	T	Solid	3050B	

## Quality Control Results

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88632-4

Sdg Number: 68088632-4

### QC Association Summary

Lab Sample ID	Client Sample ID	Report		Method	Prep Batch
		Basis	Client Matrix		
<b>Metals</b>					
<b>Analysis Batch:680-271035</b>					
LCS 680-270670/2-A	Lab Control Sample	T	Solid	7471B	680-270670
MB 680-270670/1-A	Method Blank	T	Solid	7471B	680-270670
680-88632-10	CV0090B-CS-SP	T	Solid	7471B	680-270670
680-88632-10MS	Matrix Spike	T	Solid	7471B	680-270670
680-88632-10MSD	Matrix Spike Duplicate	T	Solid	7471B	680-270670
680-88632-23	CV0566A-CS-SP	T	Solid	7471B	680-270670
680-88632-29	FM0017C-CS-SP	T	Solid	7471B	680-270670
680-88632-34	CV0197C-CS	T	Solid	7471B	680-270670
680-88632-41	FM0017C-GS-SP-sieve	T	Solid	7471B	680-270670
680-88632-42	CV0197C-CS-sieve	T	Solid	7471B	680-270670
680-88632-43	CV0090B-CS-SP-sieve	T	Solid	7471B	680-270670
680-88632-44	CV0566A-CS-SP-sieve	T	Solid	7471B	680-270670
680-88632-48	HP0084B-CS-SP	T	Solid	7471B	680-270670
680-88632-50	HP0084B-CS-SP-sieve	T	Solid	7471B	680-270670
<b>Analysis Batch:680-271075</b>					
LCS 680-270845/3-A	Lab Control Sample	T	Solid	6010C	680-270845
MB 680-270845/1-A	Method Blank	T	Solid	6010C	680-270845
680-88632-10	CV0090B-CS-SP	T	Solid	6010C	680-270845
680-88632-10MS	Matrix Spike	T	Solid	6010C	680-270845
680-88632-10MSD	Matrix Spike Duplicate	T	Solid	6010C	680-270845
680-88632-23	CV0566A-CS-SP	T	Solid	6010C	680-270845
680-88632-29	FM0017C-CS-SP	T	Solid	6010C	680-270845
680-88632-34	CV0197C-CS	T	Solid	6010C	680-270845
680-88632-41	FM0017C-GS-SP-sieve	T	Solid	6010C	680-270845
680-88632-42	CV0197C-CS-sieve	T	Solid	6010C	680-270845
680-88632-43	CV0090B-CS-SP-sieve	T	Solid	6010C	680-270845
680-88632-44	CV0566A-CS-SP-sieve	T	Solid	6010C	680-270845
680-88632-48	HP0084B-CS-SP	T	Solid	6010C	680-270845
680-88632-50	HP0084B-CS-SP-sieve	T	Solid	6010C	680-270845
<b>Analysis Batch:680-271226</b>					
680-88632-10	CV0090B-CS-SP	T	Solid	6010C	680-270845
680-88632-10MS	Matrix Spike	T	Solid	6010C	680-270845
680-88632-10MSD	Matrix Spike Duplicate	T	Solid	6010C	680-270845

**Report Basis**

T = Total

## Quality Control Results

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88632-4

Sdg Number: 68088632-4

### QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
<b>General Chemistry</b>					
<b>Analysis Batch:660-135786</b>					
680-88632-10	CV0090B-CS-SP	T	Solid	Moisture	
680-88632-10MS	Matrix Spike	T	Solid	Moisture	
680-88632-10MSD	Matrix Spike Duplicate	T	Solid	Moisture	
680-88632-23	CV0566A-CS-SP	T	Solid	Moisture	
680-88632-29	FM0017C-CS-SP	T	Solid	Moisture	
680-88632-34	CV0197C-CS	T	Solid	Moisture	
680-88632-48	HP0084B-CS-SP	T	Solid	Moisture	
<b>Analysis Batch:680-270486</b>					
680-88582-A-22 MS	Matrix Spike	T	Solid	Moisture	
680-88582-A-22 MSD	Matrix Spike Duplicate	T	Solid	Moisture	
680-88632-41	FM0017C-GS-SP-sieve	T	Solid	Moisture	
680-88632-42	CV0197C-CS-sieve	T	Solid	Moisture	
680-88632-43	CV0090B-CS-SP-sieve	T	Solid	Moisture	
680-88632-44	CV0566A-CS-SP-sieve	T	Solid	Moisture	
680-88632-50	HP0084B-CS-SP-sieve	T	Solid	Moisture	

**Report Basis**

T = Total

# **METALS**



COVER PAGE  
METALS

Lab Name: TestAmerica Savannah Job Number: 680-88632-4

SDG No.: 68088632-4

Project: 35th Avenue Superfund Site

Client Sample ID	Lab Sample ID
<u>CV0090B-CS-SP</u>	<u>680-88632-10</u>
<u>CV0566A-CS-SP</u>	<u>680-88632-23</u>
<u>FM0017C-CS-SP</u>	<u>680-88632-29</u>
<u>CV0197C-CS</u>	<u>680-88632-34</u>
<u>FM0017C-GS-SP-sieve</u>	<u>680-88632-41</u>
<u>CV0197C-CS-sieve</u>	<u>680-88632-42</u>
<u>CV0090B-CS-SP-sieve</u>	<u>680-88632-43</u>
<u>CV0566A-CS-SP-sieve</u>	<u>680-88632-44</u>
<u>HP0084B-CS-SP</u>	<u>680-88632-48</u>
<u>HP0084B-CS-SP-sieve</u>	<u>680-88632-50</u>

Comments:

1A-IN  
INORGANIC ANALYSIS DATA SHEET  
METALS

Client Sample ID: CV0090B-CS-SP Lab Sample ID: 680-88632-10  
 Lab Name: TestAmerica Savannah Job No.: 680-88632-4  
 SDG ID.: 68088632-4  
 Matrix: Solid Date Sampled: 03/21/2013 11:35  
 Reporting Basis: DRY Date Received: 03/23/2013 09:39  
 % Solids: 78.4

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	58	2.5	0.74	mg/Kg			1	6010C
7440-39-3	Barium	450	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	40	1.2	0.62	mg/Kg			1	6010C
7439-92-1	Lead	4300	12	6.6	mg/Kg			10	6010C
7782-49-2	Selenium	3.1	3.1	1.2	mg/Kg	U		1	6010C
7440-22-4	Silver	0.34	1.2	0.12	mg/Kg	J		1	6010C
7439-97-6	Mercury	0.67	0.11	0.047	mg/Kg			5	7471B

1A-IN  
INORGANIC ANALYSIS DATA SHEET  
METALS

Client Sample ID: CV0566A-CS-SP

Lab Sample ID: 680-88632-23

Lab Name: TestAmerica Savannah

Job No.: 680-88632-4

SDG ID.: 68088632-4

Matrix: Solid

Date Sampled: 03/21/2013 16:01

Reporting Basis: DRY

Date Received: 03/23/2013 09:39

% Solids: 74.1

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	23	2.5	0.74	mg/Kg			1	6010C
7440-39-3	Barium	190	1.3	0.38	mg/Kg			1	6010C
7440-43-9	Cadmium	5.9	0.63	0.13	mg/Kg			1	6010C
7440-47-3	Chromium	39	1.3	0.63	mg/Kg			1	6010C
7439-92-1	Lead	660	1.3	0.67	mg/Kg			1	6010C
7782-49-2	Selenium	3.2	3.2	1.3	mg/Kg	U		1	6010C
7440-22-4	Silver	2.3	1.3	0.12	mg/Kg			1	6010C
7439-97-6	Mercury	0.39	0.023	0.0095	mg/Kg			1	7471B

1A-IN  
INORGANIC ANALYSIS DATA SHEET  
METALS

Client Sample ID: FM0017C-CS-SP

Lab Sample ID: 680-88632-29

Lab Name: TestAmerica Savannah

Job No.: 680-88632-4

SDG ID.: 68088632-4

Matrix: Solid

Date Sampled: 03/21/2013 14:00

Reporting Basis: DRY

Date Received: 03/23/2013 09:39

% Solids: 77.0

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	28	2.3	0.69	mg/Kg			1	6010C
7440-39-3	Barium	170	1.2	0.35	mg/Kg			1	6010C
7440-43-9	Cadmium	0.61	0.59	0.12	mg/Kg			1	6010C
7440-47-3	Chromium	29	1.2	0.59	mg/Kg			1	6010C
7439-92-1	Lead	110	1.2	0.62	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	0.30	0.022	0.0090	mg/Kg			1	7471B

1A-IN  
INORGANIC ANALYSIS DATA SHEET  
METALS

Client Sample ID: CV0197C-CS

Lab Sample ID: 680-88632-34

Lab Name: TestAmerica Savannah

Job No.: 680-88632-4

SDG ID.: 68088632-4

Matrix: Solid

Date Sampled: 03/21/2013 13:50

Reporting Basis: DRY

Date Received: 03/23/2013 09:39

% Solids: 69.4

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	370	2.6	0.78	mg/Kg			1	6010C
7440-39-3	Barium	250	1.3	0.40	mg/Kg			1	6010C
7440-43-9	Cadmium	14	0.66	0.13	mg/Kg			1	6010C
7440-47-3	Chromium	140	1.3	0.66	mg/Kg			1	6010C
7439-92-1	Lead	360	1.3	0.70	mg/Kg			1	6010C
7782-49-2	Selenium	3.2	3.3	1.3	mg/Kg	J		1	6010C
7440-22-4	Silver	1.1	1.3	0.13	mg/Kg	J		1	6010C
7439-97-6	Mercury	0.27	0.025	0.010	mg/Kg			1	7471B

1A-IN  
INORGANIC ANALYSIS DATA SHEET  
METALS

Client Sample ID: FM0017C-GS-SP-sieve

Lab Sample ID: 680-88632-41

Lab Name: TestAmerica Savannah

Job No.: 680-88632-4

SDG ID.: 68088632-4

Matrix: Solid

Date Sampled: 03/21/2013 14:00

Reporting Basis: DRY

Date Received: 03/23/2013 09:39

% Solids: 87.2

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	210	1.1	0.34	mg/Kg			1	6010C
7440-43-9	Cadmium	0.74	0.57	0.11	mg/Kg			1	6010C
7440-47-3	Chromium	34	1.1	0.57	mg/Kg			1	6010C
7439-92-1	Lead	150	1.1	0.61	mg/Kg			1	6010C
7782-49-2	Selenium	2.9	2.9	1.1	mg/Kg	U		1	6010C
7440-22-4	Silver	0.14	1.1	0.11	mg/Kg	J		1	6010C
7439-97-6	Mercury	0.39	0.022	0.0092	mg/Kg			1	7471B

1A-IN  
INORGANIC ANALYSIS DATA SHEET  
METALS

Client Sample ID: CV0197C-CS-sieve

Lab Sample ID: 680-88632-42

Lab Name: TestAmerica Savannah

Job No.: 680-88632-4

SDG ID.: 68088632-4

Matrix: Solid

Date Sampled: 03/21/2013 13:50

Reporting Basis: DRY

Date Received: 03/23/2013 09:39

% Solids: 66.3

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	340	3.0	0.88	mg/Kg			1	6010C
7440-39-3	Barium	300	1.5	0.45	mg/Kg			1	6010C
7440-43-9	Cadmium	14	0.75	0.15	mg/Kg			1	6010C
7440-47-3	Chromium	130	1.5	0.75	mg/Kg			1	6010C
7439-92-1	Lead	540	1.5	0.79	mg/Kg			1	6010C
7782-49-2	Selenium	1.5	3.7	1.5	mg/Kg	J		1	6010C
7440-22-4	Silver	0.54	1.5	0.14	mg/Kg	J		1	6010C
7439-97-6	Mercury	0.25	0.028	0.011	mg/Kg			1	7471B

1A-IN  
 INORGANIC ANALYSIS DATA SHEET  
 METALS

Client Sample ID: CV0090B-CS-SP-sieve

Lab Sample ID: 680-88632-43

Lab Name: TestAmerica Savannah

Job No.: 680-88632-4

SDG ID.: 68088632-4

Matrix: Solid

Date Sampled: 03/21/2013 11:35

Reporting Basis: DRY

Date Received: 03/23/2013 09:39

% Solids: 75.7

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	38	2.5	0.75	mg/Kg			1	6010C
7440-39-3	Barium	510	1.3	0.38	mg/Kg			1	6010C
7440-43-9	Cadmium	1.7	0.63	0.13	mg/Kg			1	6010C
7440-47-3	Chromium	50	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	3.2	3.2	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	0.83	0.11	0.047	mg/Kg			5	7471B



1A-IN  
INORGANIC ANALYSIS DATA SHEET  
METALS

Client Sample ID: CV0566A-CS-SP-sieve

Lab Sample ID: 680-88632-44

Lab Name: TestAmerica Savannah

Job No.: 680-88632-4

SDG ID.: 68088632-4

Matrix: Solid

Date Sampled: 03/21/2013 16:01

Reporting Basis: DRY

Date Received: 03/23/2013 09:39

% Solids: 71.6

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	27	2.7	0.81	mg/Kg			1	6010C
7440-39-3	Barium	250	1.4	0.41	mg/Kg			1	6010C
7440-43-9	Cadmium	7.1	0.68	0.14	mg/Kg			1	6010C
7440-47-3	Chromium	54	1.4	0.68	mg/Kg			1	6010C
7439-92-1	Lead	790	1.4	0.73	mg/Kg			1	6010C
7782-49-2	Selenium	1.7	3.4	1.4	mg/Kg	J		1	6010C
7440-22-4	Silver	2.7	1.4	0.13	mg/Kg			1	6010C
7439-97-6	Mercury	0.77	0.13	0.054	mg/Kg			5	7471B

1A-IN  
INORGANIC ANALYSIS DATA SHEET  
METALS

Client Sample ID: HP0084B-CS-SP Lab Sample ID: 680-88632-48  
 Lab Name: TestAmerica Savannah Job No.: 680-88632-4  
 SDG ID.: 68088632-4  
 Matrix: Solid Date Sampled: 03/22/2013 08:15  
 Reporting Basis: DRY Date Received: 03/23/2013 09:39  
 % Solids: 74.4

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	47	2.7	0.79	mg/Kg			1	6010C
7440-39-3	Barium	430	1.3	0.40	mg/Kg			1	6010C
7440-43-9	Cadmium	4.3	0.67	0.13	mg/Kg			1	6010C
7440-47-3	Chromium	57	1.3	0.67	mg/Kg			1	6010C
7439-92-1	Lead	460	1.3	0.71	mg/Kg			1	6010C
7782-49-2	Selenium	3.4	3.4	1.3	mg/Kg	U		1	6010C
7440-22-4	Silver	0.26	1.3	0.13	mg/Kg	J		1	6010C
7439-97-6	Mercury	0.39	0.026	0.011	mg/Kg			1	7471B

1A-IN  
INORGANIC ANALYSIS DATA SHEET  
METALS

Client Sample ID: HP0084B-CS-SP-sieve

Lab Sample ID: 680-88632-50

Lab Name: TestAmerica Savannah

Job No.: 680-88632-4

SDG ID.: 68088632-4

Matrix: Solid

Date Sampled: 03/22/2013 08:15

Reporting Basis: DRY

Date Received: 03/23/2013 09:39

% Solids: 79.1

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	28	2.5	0.72	mg/Kg			1	6010C
7440-39-3	Barium	480	1.2	0.37	mg/Kg			1	6010C
7440-43-9	Cadmium	5.5	0.61	0.12	mg/Kg			1	6010C
7440-47-3	Chromium	51	1.2	0.61	mg/Kg			1	6010C
7439-92-1	Lead	540	1.2	0.65	mg/Kg			1	6010C
7782-49-2	Selenium	2.0	3.1	1.2	mg/Kg	J		1	6010C
7440-22-4	Silver	0.20	1.2	0.12	mg/Kg	J		1	6010C
7439-97-6	Mercury	0.33	0.023	0.0096	mg/Kg			1	7471B

2A-IN  
 CALIBRATION VERIFICATIONS  
 METALS

Lab Name: TestAmerica Savannah Job No.: 680-88632-4

SDG No.: 68088632-4

ICV Source: P\_ICV\_wk\_00213 Concentration Units: ug/L

CCV Source: P\_CCV\_wk\_00108

Analyte	ICV 680-271075/4 03/27/2013 15:37				CCV 680-271075/177 03/28/2013 07:26				CCV 680-271075/189 03/28/2013 08:32			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
<b>Arsenic</b>	964		1000	96	468		500	94	481		500	96
<b>Barium</b>	1020		1000	102	4900		5000	98	4920		5000	98
<b>Cadmium</b>	1020		1000	102	491		500	98	494		500	99
<b>Chromium</b>	998		1000	100	4870		5000	97	4880		5000	98
<b>Lead</b>	1020		1000	102	489		500	98	488		500	98
<b>Selenium</b>	998		1000	100	4800		5000	96	4810		5000	96
<b>Silver</b>	1020		1000	102	496		500	99	504		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.: 680-88632-4

SDG No.: 68088632-4

ICV Source: P\_ICV\_wk\_00213 Concentration Units: ug/L

CCV Source: P\_CCv\_wk\_00108

Analyte	CCV 680-271075/201 03/28/2013 09:38				CCV 680-271075/213 03/28/2013 10:43				CCV 680-271075/225 03/28/2013 11:49			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
<b>Arsenic</b>	469		500	94	477		500	95	478		500	96
<b>Barium</b>	4930		5000	99	4950		5000	99	4950		5000	99
<b>Cadmium</b>	494		500	99	496		500	99	496		500	99
<b>Chromium</b>	4870		5000	97	4890		5000	98	4910		5000	98
<b>Lead</b>	489		500	98	493		500	99	496		500	99
<b>Selenium</b>	4840		5000	97	4880		5000	98	4900		5000	98
<b>Silver</b>	501		500	100	499		500	100	505		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.: 680-88632-4

SDG No.: 68088632-4

ICV Source: P\_ICV\_wk\_00213 Concentration Units: ug/L

CCV Source: P\_CCV\_wk\_00108

Analyte	ICV 680-271226/4 03/29/2013 10:00				CCV 680-271226/21 03/29/2013 11:41				CCV 680-271226/33 03/29/2013 12:48			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
<b>Lead</b>	1030		1000	103	492		500	98	492		500	98
<i>Arsenic</i>	973		1000	97	509		500	102	506		500	101
<i>Barium</i>	1020		1000	102	4650		5000	93	4680		5000	94
<i>Cadmium</i>	1020		1000	102	463		500	93	464		500	93
<i>Chromium</i>	1000		1000	100	4600		5000	92	4640		5000	93
<i>Selenium</i>	1000		1000	100	4940		5000	99	4910		5000	98
<i>Silver</i>	997		1000	100	485		500	97	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.: 680-88632-4

SDG No.: 68088632-4

ICV Source: hg\_icvint\_00084 Concentration Units: ug/L

CCV Source: Hg\_Int\_Cal\_00090

Analyte	ICV 680-270664/32-A 03/27/2013 13:29				CCV 680-270664/29-A 03/27/2013 14:35				CCV 680-270664/29-A 03/27/2013 15:04			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
<b>Mercury</b>	3.06		3.00	102	2.62		2.50	105	2.60		2.50	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.: 680-88632-4

SDG No.: 68088632-4

ICV Source: hg\_icvint\_00084 Concentration Units: ug/L

CCV Source: Hg\_Int\_Cal\_00090

Analyte	CCV 680-270664/29-A 03/27/2013 15:34				CCV 680-270664/29-A 03/28/2013 09:05				CCV 680-270664/29-A 03/28/2013 09:22			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
<b>Mercury</b>	2.59		2.50	104	2.57		2.50	103	2.64		2.50	105

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.: 680-88632-4  
 SDG No.: 68088632-4  
 Method: 6010C Instrument ID: ICPE  
 Lab Sample ID: CRI 680-271075/6 Concentration Units: ug/L  
 CRQL Check Standard Source: P\_CRI\_00023

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Arsenic	20.0	22.4		112	50-150
Barium	10.0	10.0		100	50-150
Cadmium	5.00	5.12		102	50-150
Chromium	10.0	10.2		102	50-150
Lead	10.0	10.1		101	50-150
Selenium	20.0	18.2	J	91	50-150
Silver	10.0	9.86	J	99	50-150

Lab Sample ID: CRI 680-271226/6 Concentration Units: ug/L  
 CRQL Check Standard Source: P\_CRI\_00023

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Arsenic	20.0	23.3		116	50-150
Barium	10.0	10.5		105	50-150
Cadmium	5.00	5.33		107	50-150
Chromium	10.0	10.2		102	50-150
Lead	10.0	10.2		102	50-150
Selenium	20.0	23.9	J	120	50-150
Silver	10.0	9.51	J	95	50-150

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

2B-IN  
CRQL CHECK STANDARD  
METALS

Lab Name: TestAmerica Savannah Job No.: 680-88632-4  
 SDG No.: 68088632-4  
 Method: 7471B Instrument ID: LEEMAN2  
 Lab Sample ID: CRA 680-270664/34-A Concentration Units: ug/L  
 CRQL Check Standard Source: Hg\_Int\_Cal\_00090

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Mercury	0.200	0.183	J	91	50-150

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

3-IN  
INSTRUMENT BLANKS  
METALS

Lab Name: TestAmerica Savannah Job No.: 680-88632-4

SDG No.: 68088632-4

Concentration Units: ug/L

Analyte	RL	ICBIS 680-271075/5 03/27/2013 15:43		CCB 680-271075/178 03/28/2013 07:32		CCB 680-271075/190 03/28/2013 08:37		CCB 680-271075/202 03/28/2013 09:43	
		Found	C	Found	C	Found	C	Found	C
<b>Arsenic</b>	20	20	U	20	U	20	U	20	U
<b>Barium</b>	10	10	U	10	U	10	U	10	U
<b>Cadmium</b>	5.0	5.0	U	5.0	U	5.0	U	5.0	U
<b>Chromium</b>	10	10	U	10	U	10	U	10	U
<b>Lead</b>	10	10	U	10	U	10	U	10	U
<b>Selenium</b>	25	25	U	25	U	25	U	25	U
<b>Silver</b>	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.: 680-88632-4

SDG No.: 68088632-4

Concentration Units: ug/L

Analyte	RL	CCB 680-271075/214 03/28/2013 10:49		CCB 680-271075/226 03/28/2013 11:55					
		Found	C	Found	C	Found	C	Found	C
<b>Arsenic</b>	20	20	U	20	U				
<b>Barium</b>	10	10	U	10	U				
<b>Cadmium</b>	5.0	5.0	U	5.0	U				
<b>Chromium</b>	10	10	U	10	U				
<b>Lead</b>	10	10	U	10	U				
<b>Selenium</b>	25	25	U	25	U				
<b>Silver</b>	10	10	U	10	U				

Italicized analytes were not requested for this sequence.

3-IN  
INSTRUMENT BLANKS  
METALS

Lab Name: TestAmerica Savannah Job No.: 680-88632-4

SDG No.: 68088632-4

Concentration Units: ug/L

Analyte	RL	ICBIS 680-271226/5 03/29/2013 10:06		CCB 680-271226/22 03/29/2013 11:46		CCB 680-271226/34 03/29/2013 12:54		Found	C
		Found	C	Found	C	Found	C		
<b>Lead</b>	10	10	U	10	U	10	U		
<i>Arsenic</i>	20	20	U	20	U	20	U		
<i>Barium</i>	10	10	U	10	U	10	U		
<i>Cadmium</i>	5.0	5.0	U	5.0	U	5.0	U		
<i>Chromium</i>	10	10	U	10	U	10	U		
<i>Selenium</i>	25	25	U	25	U	25	U		
<i>Silver</i>	10	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.: 680-88632-4

SDG No.: 68088632-4

Concentration Units: ug/L

Analyte	RL	ICB 680-270664/33-A 03/27/2013 13:31		CCB 680-270664/30-A 03/27/2013 14:37		CCB 680-270664/30-A 03/27/2013 15:07		CCB 680-270664/30-A 03/27/2013 15:36	
		Found	C	Found	C	Found	C	Found	C
<b>Mercury</b>	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.: 680-88632-4

SDG No.: 68088632-4

Concentration Units: ug/L

Analyte	RL	CCB 680-270664/30-A 03/28/2013 09:08		CCB 680-270664/30-A 03/28/2013 09:25		Found	C	Found	C
		Found	C	Found	C				
<b>Mercury</b>	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.: 680-88632-4  
SDG No.: 68088632-4  
Concentration Units: mg/Kg Lab Sample ID: MB 680-270845/1-A  
Instrument Code: ICPE Batch No.: 271075

CAS No.	Analyte	Concentration	C	Q	Method
7440-38-2	Arsenic	2.0	U		6010C
7440-39-3	Barium	0.98	U		6010C
7440-43-9	Cadmium	0.49	U		6010C
7440-47-3	Chromium	0.98	U		6010C
7439-92-1	Lead	0.98	U		6010C
7782-49-2	Selenium	2.5	U		6010C
7440-22-4	Silver	0.98	U		6010C



3-IN  
METHOD BLANK  
METALS

Lab Name: TestAmerica Savannah Job No.: 680-88632-4  
SDG No.: 68088632-4  
Concentration Units: mg/Kg Lab Sample ID: MB 680-270670/1-A  
Instrument Code: LEEMAN2 Batch No.: 271035

CAS No.	Analyte	Concentration	C	Q	Method
7439-97-6	Mercury	0.020	U		7471B

4A-IN  
INTERFERENCE CHECK STANDARD  
METALS

Lab Name: TestAmerica Savannah

Job No.: 680-88632-4

SDG No.: 68088632-4

Lab Sample ID: ICSA 680-271075/7

Instrument ID: ICPE

Lab File ID: E03272013.csv

ICS Source: P\_ICSA\_wk\_00030

Concentration Units: ug/L

Analyte	True Solution A	Found Solution A	Percent Recovery
<b>Arsenic</b>		<b>-1.92</b>	
<b>Barium</b>		<b>2.33</b>	
<b>Cadmium</b>		<b>0.0053</b>	
<b>Chromium</b>		<b>0.584</b>	
<b>Lead</b>		<b>3.44</b>	
<b>Selenium</b>		<b>-9.88</b>	
<b>Silver</b>		<b>-0.456</b>	
<i>Aluminum</i>	<i>500000</i>	<i>542309</i>	<i>108</i>
<i>Antimony</i>		<i>7.35</i>	
<i>Beryllium</i>		<i>-0.160</i>	
<i>Boron</i>		<i>-25.4</i>	
<i>Calcium</i>	<i>500000</i>	<i>505107</i>	<i>101</i>
<i>Cobalt</i>		<i>0.137</i>	
<i>Copper</i>		<i>0.364</i>	
<i>Iron</i>	<i>200000</i>	<i>201141</i>	<i>101</i>
<i>Magnesium</i>	<i>500000</i>	<i>555414</i>	<i>111</i>
<i>Manganese</i>		<i>0.642</i>	
<i>Molybdenum</i>		<i>0.851</i>	
<i>Nickel</i>		<i>2.64</i>	
<i>Potassium</i>		<i>3.96</i>	
<i>Sodium</i>		<i>-392</i>	
<i>Strontium</i>		<i>1.78</i>	
<i>Thallium</i>		<i>0.501</i>	
<i>Tin</i>		<i>-1.56</i>	
<i>Titanium</i>		<i>0.120</i>	
<i>Vanadium</i>		<i>-3.25</i>	
<i>Zinc</i>		<i>18.9</i>	

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

4A-IN  
INTERFERENCE CHECK STANDARD  
METALS

Lab Name: TestAmerica Savannah

Job No.: 680-88632-4

SDG No.: 68088632-4

Lab Sample ID: ICSAB 680-271075/8

Instrument ID: ICPE

Lab File ID: E03272013.csv

ICS Source: P\_ICSAB\_wk\_00043

Concentration Units: ug/L

Analyte	True	Found	Percent Recovery
	Solution AB	Solution AB	
<b>Arsenic</b>	<b>100</b>	<b>111</b>	<b>111</b>
<b>Barium</b>	<b>500</b>	<b>510</b>	<b>102</b>
<b>Cadmium</b>	<b>1000</b>	<b>970</b>	<b>97</b>
<b>Chromium</b>	<b>500</b>	<b>495</b>	<b>99</b>
<b>Lead</b>	<b>50.0</b>	<b>43.8</b>	<b>88</b>
<b>Selenium</b>	<b>50.0</b>	<b>45.3</b>	<b>91</b>
<b>Silver</b>	<b>200</b>	<b>223</b>	<b>111</b>
<i>Aluminum</i>	<i>500000</i>	<i>522831</i>	<i>105</i>
<i>Antimony</i>	<i>600</i>	<i>623</i>	<i>104</i>
<i>Beryllium</i>	<i>500</i>	<i>493</i>	<i>99</i>
<i>Boron</i>		<i>-36.0</i>	
<i>Calcium</i>	<i>500000</i>	<i>484615</i>	<i>97</i>
<i>Cobalt</i>	<i>500</i>	<i>485</i>	<i>97</i>
<i>Copper</i>	<i>500</i>	<i>540</i>	<i>108</i>
<i>Iron</i>	<i>200000</i>	<i>194360</i>	<i>97</i>
<i>Magnesium</i>	<i>500000</i>	<i>540250</i>	<i>108</i>
<i>Manganese</i>	<i>500</i>	<i>490</i>	<i>98</i>
<i>Molybdenum</i>	<i>1000</i>	<i>1062</i>	<i>106</i>
<i>Nickel</i>	<i>1000</i>	<i>949</i>	<i>95</i>
<i>Potassium</i>		<i>3.29</i>	
<i>Sodium</i>		<i>-297</i>	
<i>Strontium</i>		<i>2.57</i>	
<i>Thallium</i>	<i>100</i>	<i>101</i>	<i>101</i>
<i>Tin</i>	<i>1000</i>	<i>1040</i>	<i>104</i>
<i>Titanium</i>		<i>-6.26</i>	
<i>Vanadium</i>	<i>500</i>	<i>494</i>	<i>99</i>
<i>Zinc</i>	<i>1000</i>	<i>953</i>	<i>95</i>

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

4A-IN  
INTERFERENCE CHECK STANDARD  
METALS

Lab Name: TestAmerica Savannah

Job No.: 680-88632-4

SDG No.: 68088632-4

Lab Sample ID: ICSA 680-271226/7

Instrument ID: ICPE

Lab File ID: E03292013P.csv

ICS Source: P\_ICSA\_wk\_00030

Concentration Units: ug/L

Analyte	True Solution A	Found Solution A	Percent Recovery
<b>Lead</b>		<b>0.0721</b>	
Aluminum	500000	534907	107
Antimony		5.43	
Arsenic		-3.93	
Barium		2.55	
Beryllium		-0.174	
Boron		-21.8	
Cadmium		0.903	
Calcium	500000	497838	100
Chromium		0.753	
Cobalt		0.100	
Copper		-0.424	
Iron	200000	198474	99
Magnesium	500000	546640	109
Manganese		-0.540	
Molybdenum		1.78	
Nickel		2.68	
Potassium		0.203	
Selenium		6.43	
Silver		-1.47	
Sodium		-579	
Strontium		0.881	
Thallium		0.413	
Tin		-2.71	
Titanium		0.0060	
Vanadium		-3.06	
Zinc		19.7	

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

4A-IN  
INTERFERENCE CHECK STANDARD  
METALS

Lab Name: TestAmerica Savannah

Job No.: 680-88632-4

SDG No.: 68088632-4

Lab Sample ID: ICSAB 680-271226/8

Instrument ID: ICPE

Lab File ID: E03292013P.csv

ICS Source: P\_ICSAB\_wk\_00043

Concentration Units: ug/L

Analyte	True	Found	Percent Recovery
	Solution AB	Solution AB	
<b>Lead</b>	<b>50.0</b>	<b>48.9</b>	<b>98</b>
Aluminum	500000	531497	106
Antimony	600	585	98
Arsenic	100	111	111
Barium	500	519	104
Beryllium	500	498	100
Boron		-23.5	
Cadmium	1000	981	98
Calcium	500000	495107	99
Chromium	500	500	100
Cobalt	500	485	97
Copper	500	539	108
Iron	200000	197580	99
Magnesium	500000	546912	109
Manganese	500	495	99
Molybdenum	1000	1085	109
Nickel	1000	967	97
Potassium		0.212	
Selenium	50.0	40.6	81
Silver	200	220	110
Sodium		-113	
Strontium		1.77	
Thallium	100	93.9	94
Tin	1000	1052	105
Titanium		-6.33	
Vanadium	500	502	100
Zinc	1000	964	96

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

5A-IN  
 MATRIX SPIKE SAMPLE RECOVERY  
 METALS

Client ID: CV0090B-CS-SP MS

Lab ID: 680-88632-10 MS

Lab Name: TestAmerica Savannah

Job No.: 680-88632-4

SDG No.: 68088632-4

Matrix: Solid

Concentration Units: mg/Kg

% Solids: 78.4

Analyte	SSR C	Sample Result (SR) C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Arsenic	37.9	58	12.4	-164	75-125	4	6010C
Barium	355	450	12.4	-808	75-125	4	6010C
Cadmium	5.82	1.6	6.19	69	75-125	F	6010C
Chromium	42.5	40	12.4	21	75-125	F	6010C
Lead	367	4300	6.19	-63533	75-125	4	6010C
Selenium	8.80	3.1	U	12.4	75-125	F	6010C
Silver	1.90	0.34	J	6.19	75-125	F	6010C
Mercury	0.765	0.67	0.108	90	80-120	4	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.

5A-IN  
 MATRIX SPIKE DUPLICATE SAMPLE RECOVERY  
 METALS

Client ID: CV0090B-CS-SP MSD

Lab ID: 680-88632-10 MSD

Lab Name: TestAmerica Savannah

Job No.: 680-88632-4

SDG No.: 68088632-4

Matrix: Solid

Concentration Units: mg/Kg

% Solids: 78.4

Analyte	(SDR) C	Spike Added (SA)	%R	Control Limit %R	RPD	RPD Limit	Q	Method
Arsenic	42.9	12.4	-123	75-125	12	20	4	6010C
Barium	364	12.4	-729	75-125	3	20	4	6010C
Cadmium	6.58	6.19	81	75-125	12	20		6010C
Chromium	57.0	12.4	138	75-125	29	20	F	6010C
Lead	660	6.19	-58801	75-125	57	20	4 F	6010C
Selenium	10.5	12.4	85	75-125	18	20		6010C
Silver	2.39	6.19	33	75-125	23	20	F	6010C
Mercury	0.642	0.118	-23	80-120	18	20	4	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.

5B-IN  
 POST DIGESTION SPIKE SAMPLE RECOVERY  
 METALS

Client ID: \_\_\_\_\_ Lab ID: 680-88580-A-49-D PDS  
 Lab Name: TestAmerica Savannah Job No.: 680-88632-4  
 SDG No.: 68088632-4  
 Matrix: Solid Concentration Units: mg/Kg

Analyte	SSR C	Sample Result (SR) C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Arsenic	320	54	235	113	75-125		6010C
Barium	363	120	235	105	75-125		6010C
Cadmium	6.24	0.59 U	5.86	106	75-125		6010C
Chromium	35.5	11	23.5	105	75-125		6010C
Lead	220	160	58.6	97	75-125		6010C
Selenium	251	2.9 U	235	107	75-125		6010C
Silver	6.01	1.2 U	5.86	103	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.



7A-IN  
LAB CONTROL SAMPLE  
METALS

Lab ID: LCS 680-270845/3-A

Lab Name: TestAmerica Savannah

Job No.: 680-88632-4

Sample Matrix: Solid

LCS Source: MS Cal Stk\_00019

Analyte	Solid(mg/Kg)							
	True	Found	C	%R	Limits		Q	Method
Arsenic	19.8	20.8		105	75	125		6010C
Barium	19.8	19.8		100	75	125		6010C
Cadmium	19.8	19.8		100	75	125		6010C
Chromium	19.8	19.8		100	75	125		6010C
Lead	19.8	19.6		99	75	125		6010C
Selenium	19.8	19.9		100	75	125		6010C
Silver	19.8	20.8		105	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 680-270670/2-A

Lab Name: TestAmerica Savannah

Job No.: 680-88632-4

Sample Matrix: Solid

LCS Source: Hg\_Int\_Cal\_00090

Analyte	Solid(mg/Kg)						
	True	Found	C	%R	Limits	Q	Method
Mercury	0.245	0.277		113	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: 680-88580-A-49-D SD ^5

SDG No: 68088632-4

Lab Name: TestAmerica Savannah

Job No: 680-88632-4

Matrix: Solid

Concentration Units: mg/Kg

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	Method
Arsenic	54		54.4		0.87		6010C
Barium	120		122		5.1		6010C
Cadmium	0.59	U	2.9	U	NC		6010C
Chromium	11		11.2		NC		6010C
Lead	160		170		4.1		6010C
Selenium	2.9	U	15	U	NC		6010C
Silver	1.2	U	5.9	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: 680-88632-4

SDG Number: 68088632-4

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: 680-88632-4

SDG Number: 68088632-4

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: 680-88632-4  
SDG Number: 68088632-4  
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: 680-88632-4  
SDG Number: 68088632-4  
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

12-IN  
PREPARATION LOG  
METALS

Lab Name: TestAmerica Savannah

Job No.: 680-88632-4

SDG No.: 68088632-4

Prep Method: 3050B

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight (g)	Initial Volume	Final Volume (mL)
MB 680-270845/1-A	03/27/2013 10:09	270845	1.02		100
LCS 680-270845/3-A	03/27/2013 10:09	270845	1.01		100
680-88632-10	03/27/2013 10:09	270845	1.02		100
680-88632-10 MS	03/27/2013 10:09	270845	1.03		100
680-88632-10 MSD	03/27/2013 10:09	270845	1.03		100
680-88632-23	03/27/2013 10:09	270845	1.07		100
680-88632-29	03/27/2013 10:09	270845	1.11		100
680-88632-34	03/27/2013 10:09	270845	1.09		100
680-88632-41	03/27/2013 10:09	270845	1.00		100
680-88632-42	03/27/2013 10:09	270845	1.01		100
680-88632-43	03/27/2013 10:09	270845	1.04		100
680-88632-44	03/27/2013 10:09	270845	1.02		100
680-88632-48	03/27/2013 10:09	270845	1.00		100
680-88632-50	03/27/2013 10:09	270845	1.03		100



12-IN  
PREPARATION LOG  
METALS

Lab Name: TestAmerica Savannah

Job No.: 680-88632-4

SDG No.: 68088632-4

Prep Method: 7471B

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight (g)	Initial Volume	Final Volume (mL)
MB 680-270670/1-A	03/26/2013 10:24	270670	0.50		50
LCS 680-270670/2-A	03/26/2013 10:24	270670	0.51		50
680-88632-10	03/26/2013 10:24	270670	0.56		50
680-88632-10 MS	03/26/2013 10:24	270670	0.59		50
680-88632-10 MSD	03/26/2013 10:24	270670	0.54		50
680-88632-23	03/26/2013 10:24	270670	0.58		50
680-88632-29	03/26/2013 10:24	270670	0.59		50
680-88632-34	03/26/2013 10:24	270670	0.58		50
680-88632-41	03/26/2013 10:24	270670	0.51		50
680-88632-42	03/26/2013 10:24	270670	0.54		50
680-88632-43	03/26/2013 10:24	270670	0.58		50
680-88632-44	03/26/2013 10:24	270670	0.53		50
680-88632-48	03/26/2013 10:24	270670	0.52		50
680-88632-50	03/26/2013 10:24	270670	0.54		50

13-IN  
ANALYSIS RUN LOG  
METALS

Lab Name: TestAmerica Savannah Job No.: 680-88632-4

SDG No.: 68088632-4

Instrument ID: ICPE Method: 6010C

Start Date: 03/27/2013 15:18 End Date: 03/28/2013 13:34

Lab Sample ID	D / F	Type	Time	Analytes																	
				A g	A s	B a	C d	C r	P b	S e											
ZZZZZZ			15:18																		
ZZZZZZ			15:23																		
ZZZZZZ			15:28																		
ICV 680-271075/4	1		15:37	X	X	X	X	X	X	X											
ICBIS 680-271075/5	1		15:43	X	X	X	X	X	X	X											
CRI 680-271075/6	1		15:48	X	X	X	X	X	X	X											
ICSA 680-271075/7	1		15:53	X	X	X	X	X	X	X											
ICSAB 680-271075/8	1		15:59	X	X	X	X	X	X	X											
CCV 680-271075/9			16:12																		
CCB 680-271075/10			16:17																		
ZZZZZZ			16:23																		
ZZZZZZ			16:28																		
ZZZZZZ			16:33																		
ZZZZZZ			16:39																		
ZZZZZZ			16:44																		
ZZZZZZ			16:50																		
ZZZZZZ			16:55																		
ZZZZZZ			17:01																		
ZZZZZZ			17:06																		
ZZZZZZ			17:12																		
CCV 680-271075/21			17:17																		
CCB 680-271075/22			17:23																		
ZZZZZZ			17:28																		
ZZZZZZ			17:33																		
ZZZZZZ			17:39																		
ZZZZZZ			17:44																		
ZZZZZZ			17:50																		
ZZZZZZ			17:56																		
ZZZZZZ			18:01																		
ZZZZZZ			18:07																		
ZZZZZZ			18:12																		
ZZZZZZ			18:18																		
CCV 680-271075/33			18:23																		
CCB 680-271075/34			18:29																		
ZZZZZZ			18:34																		
ZZZZZZ			18:39																		
ZZZZZZ			18:45																		
ZZZZZZ			18:50																		
ZZZZZZ			18:56																		
ZZZZZZ			19:01																		
ZZZZZZ			19:06																		
ZZZZZZ			19:12																		

13-IN  
ANALYSIS RUN LOG  
METALS

Lab Name: TestAmerica Savannah Job No.: 680-88632-4  
 SDG No.: 68088632-4  
 Instrument ID: ICPE Method: 6010C  
 Start Date: 03/27/2013 15:18 End Date: 03/28/2013 13:34

Lab Sample ID	D / F	Type	Time	Analytes															
				A g	A s	B a	C d	C r	P b	S e									
ZZZZZZ			19:17																
ZZZZZZ			19:23																
CCV 680-271075/45			19:28																
CCB 680-271075/46			19:34																
ZZZZZZ			19:39																
ZZZZZZ			19:45																
ZZZZZZ			19:50																
ZZZZZZ			19:55																
ZZZZZZ			20:01																
ZZZZZZ			20:06																
ZZZZZZ			20:12																
ZZZZZZ			20:17																
ZZZZZZ			20:22																
ZZZZZZ			20:28																
CCV 680-271075/57			20:33																
CCB 680-271075/58			20:39																
ZZZZZZ			20:44																
ZZZZZZ			20:50																
ZZZZZZ			20:55																
ZZZZZZ			21:00																
ZZZZZZ			21:06																
ZZZZZZ			21:11																
ZZZZZZ			21:17																
ZZZZZZ			21:22																
ZZZZZZ			21:27																
ZZZZZZ			21:33																
CCV 680-271075/69			21:38																
CCB 680-271075/70			21:44																
ZZZZZZ			21:49																
ZZZZZZ			21:55																
ZZZZZZ			22:00																
ZZZZZZ			22:06																
ZZZZZZ			22:11																
ZZZZZZ			22:16																
ZZZZZZ			22:22																
ZZZZZZ			22:27																
ZZZZZZ			22:33																
ZZZZZZ			22:38																
CCV 680-271075/81			22:44																
CCB 680-271075/82			22:49																
ZZZZZZ			22:54																
ZZZZZZ			23:00																

13-IN  
ANALYSIS RUN LOG  
METALS

Lab Name: TestAmerica Savannah Job No.: 680-88632-4

SDG No.: 68088632-4

Instrument ID: ICPE Method: 6010C

Start Date: 03/27/2013 15:18 End Date: 03/28/2013 13:34

Lab Sample ID	D / F	Type	Time	Analytes															
				A g	A s	B a	C d	C r	P b	S e									
ZZZZZZ			23:05																
ZZZZZZ			23:11																
ZZZZZZ			23:16																
ZZZZZZ			23:22																
ZZZZZZ			23:27																
ZZZZZZ			23:33																
ZZZZZZ			23:38																
ZZZZZZ			23:43																
CCV 680-271075/93			23:49																
CCB 680-271075/94			23:54																
ZZZZZZ			00:00																
ZZZZZZ			00:05																
ZZZZZZ			00:11																
ZZZZZZ			00:16																
ZZZZZZ			00:22																
ZZZZZZ			00:27																
ZZZZZZ			00:33																
ZZZZZZ			00:38																
ZZZZZZ			00:43																
ZZZZZZ			00:49																
CCV 680-271075/105			00:54																
CCB 680-271075/106			01:00																
ZZZZZZ			01:05																
ZZZZZZ			01:11																
ZZZZZZ			01:16																
ZZZZZZ			01:22																
ZZZZZZ			01:27																
ZZZZZZ			01:32																
ZZZZZZ			01:38																
ZZZZZZ			01:43																
ZZZZZZ			01:49																
ZZZZZZ			01:54																
CCV 680-271075/117			02:00																
CCB 680-271075/118			02:05																
ZZZZZZ			02:10																
ZZZZZZ			02:16																
ZZZZZZ			02:21																
ZZZZZZ			02:27																
ZZZZZZ			02:32																
ZZZZZZ			02:38																
ZZZZZZ			02:43																
ZZZZZZ			02:48																

13-IN  
ANALYSIS RUN LOG  
METALS

Lab Name: TestAmerica Savannah Job No.: 680-88632-4

SDG No.: 68088632-4

Instrument ID: ICPE Method: 6010C

Start Date: 03/27/2013 15:18 End Date: 03/28/2013 13:34

Lab Sample ID	D / F	Type	Time	Analytes															
				A g	A s	B a	C d	C r	P b	S e									
ZZZZZZ			02:54																
ZZZZZZ			02:59																
CCV 680-271075/129			03:05																
CCB 680-271075/130			03:10																
ZZZZZZ			03:16																
ZZZZZZ			03:21																
ZZZZZZ			03:27																
ZZZZZZ			03:32																
ZZZZZZ			03:38																
ZZZZZZ			03:43																
ZZZZZZ			03:48																
ZZZZZZ			03:54																
ZZZZZZ			03:59																
ZZZZZZ			04:05																
CCV 680-271075/141			04:10																
CCB 680-271075/142			04:16																
ZZZZZZ			04:21																
ZZZZZZ			04:27																
ZZZZZZ			04:32																
ZZZZZZ			04:37																
ZZZZZZ			04:43																
ZZZZZZ			04:48																
ZZZZZZ			04:54																
ZZZZZZ			04:59																
ZZZZZZ			05:05																
ZZZZZZ			05:10																
CCV 680-271075/153			05:16																
CCB 680-271075/154			05:21																
ZZZZZZ			05:26																
ZZZZZZ			05:32																
ZZZZZZ			05:37																
ZZZZZZ			05:43																
ZZZZZZ			05:48																
ZZZZZZ			05:54																
ZZZZZZ			05:59																
ZZZZZZ			06:05																
ZZZZZZ			06:10																
ZZZZZZ			06:15																
CCV 680-271075/165			06:21																
CCB 680-271075/166			06:26																
ZZZZZZ			06:32																
ZZZZZZ			06:37																

13-IN  
ANALYSIS RUN LOG  
METALS

Lab Name: TestAmerica Savannah Job No.: 680-88632-4

SDG No.: 68088632-4

Instrument ID: ICPE Method: 6010C

Start Date: 03/27/2013 15:18 End Date: 03/28/2013 13:34

Lab Sample ID	D / F	Type	Time	Analytes															
				Ag	As	Ba	Ca	Cr	Pb	Se									
ZZZZZZ			06:43																
ZZZZZZ			06:48																
ZZZZZZ			06:54																
ZZZZZZ			06:59																
ZZZZZZ			07:04																
ZZZZZZ			07:10																
ZZZZZZ			07:15																
ZZZZZZ			07:21																
CCV 680-271075/177	1		07:26	X	X	X	X	X	X	X									
CCB 680-271075/178	1		07:32	X	X	X	X	X	X	X									
ZZZZZZ			07:37																
ZZZZZZ			07:43																
ZZZZZZ			07:48																
ZZZZZZ			07:54																
MB 680-270845/1-A	1	T	07:59	X	X	X	X	X	X	X									
ZZZZZZ			08:05																
LCS 680-270845/3-A	1	T	08:10	X	X	X	X	X	X	X									
ZZZZZZ			08:16																
ZZZZZZ			08:21																
ZZZZZZ			08:26																
CCV 680-271075/189	1		08:32	X	X	X	X	X	X	X									
CCB 680-271075/190	1		08:37	X	X	X	X	X	X	X									
ZZZZZZ			08:43																
ZZZZZZ			08:48																
ZZZZZZ			08:54																
ZZZZZZ			08:59																
ZZZZZZ			09:05																
680-88580-A-49-D SD ^5	5	T	09:11	X	X	X	X	X	X	X									
680-88580-A-49-D PDS	1	T	09:16	X	X	X	X	X	X	X									
ZZZZZZ			09:21																
ZZZZZZ			09:27																
ZZZZZZ			09:32																
CCV 680-271075/201	1		09:38	X	X	X	X	X	X	X									
CCB 680-271075/202	1		09:43	X	X	X	X	X	X	X									
ZZZZZZ			09:49																
680-88632-10	1	T	09:54	X	X	X	X	X		X									
680-88632-10 MS	1	T	10:00	X	X	X	X	X		X									
680-88632-10 MSD	1	T	10:05	X	X	X	X	X		X									
680-88632-23	1	T	10:11	X	X	X	X	X	X	X									
680-88632-29	1	T	10:16	X	X	X	X	X	X	X									
680-88632-34	1	T	10:22	X	X	X	X	X	X	X									

13-IN  
ANALYSIS RUN LOG  
METALS

Lab Name: TestAmerica Savannah Job No.: 680-88632-4

SDG No.: 68088632-4

Instrument ID: ICPE Method: 6010C

Start Date: 03/27/2013 15:18 End Date: 03/28/2013 13:34

Lab Sample ID	D / F	Type	Time	Analytes																
				A g	A s	B a	C d	C r	P b	S e										
680-88632-41	1	T	10:27	X	X	X	X	X	X	X										
680-88632-42	1	T	10:33	X	X	X	X	X	X	X										
680-88632-43	1	T	10:38	X	X	X	X	X	X	X										
CCV 680-271075/213	1		10:43	X	X	X	X	X	X	X										
CCB 680-271075/214	1		10:49	X	X	X	X	X	X	X										
680-88632-44	1	T	10:54	X	X	X	X	X	X	X										
680-88632-48	1	T	11:00	X	X	X	X	X	X	X										
680-88632-50	1	T	11:05	X	X	X	X	X	X	X										
ZZZZZZ			11:11																	
ZZZZZZ			11:16																	
ZZZZZZ			11:22																	
ZZZZZZ			11:27																	
ZZZZZZ			11:33																	
ZZZZZZ			11:38																	
ZZZZZZ			11:44																	
CCV 680-271075/225	1		11:49	X	X	X	X	X	X	X										
CCB 680-271075/226	1		11:55	X	X	X	X	X	X	X										
ZZZZZZ			12:00																	
ZZZZZZ			12:06																	
ZZZZZZ			12:11																	
ZZZZZZ			12:17																	
ZZZZZZ			12:22																	
ZZZZZZ			12:28																	
ZZZZZZ			12:33																	
ZZZZZZ			12:39																	
ZZZZZZ			12:44																	
ZZZZZZ			12:50																	
CCV 680-271075/237			12:55																	
CCB 680-271075/238			13:00																	
ZZZZZZ			13:06																	
ZZZZZZ			13:12																	
ZZZZZZ			13:17																	
CRI 680-271075/242			13:23																	
CCV 680-271075/243			13:28																	
CCB 680-271075/244			13:34																	

Prep Types  
T = Total/NA

13-IN  
 ANALYSIS RUN LOG  
 METALS

Lab Name: TestAmerica Savannah Job No.: 680-88632-4

SDG No.: 68088632-4

Instrument ID: ICPE Method: 6010C

Start Date: 03/29/2013 09:40 End Date: 03/29/2013 14:10

Lab Sample ID	D / F	T y p e	Time	Analytes																			
				P	b																		
ZZZZZZ			09:40																				
ZZZZZZ			09:43																				
ZZZZZZ			09:46																				
ICV 680-271226/4	1		10:00	X																			
ICBIS 680-271226/5	1		10:06	X																			
CRI 680-271226/6	1		10:11	X																			
ICSA 680-271226/7	1		10:25	X																			
ICSAB 680-271226/8	1		10:30	X																			
CCV 680-271226/9			10:36																				
CCB 680-271226/10			10:41																				
ZZZZZZ			10:47																				
ZZZZZZ			10:52																				
ZZZZZZ			10:57																				
ZZZZZZ			11:03																				
ZZZZZZ			11:08																				
ZZZZZZ			11:14																				
ZZZZZZ			11:19																				
ZZZZZZ			11:25																				
ZZZZZZ			11:30																				
ZZZZZZ			11:35																				
CCV 680-271226/21	1		11:41	X																			
CCB 680-271226/22	1		11:46	X																			
ZZZZZZ			11:52																				
ZZZZZZ			12:00																				
ZZZZZZ			12:05																				
ZZZZZZ			12:11																				
ZZZZZZ			12:16																				
ZZZZZZ			12:21																				
ZZZZZZ			12:27																				
680-88632-10	10	T	12:32	X																			
680-88632-10 MS	10	T	12:38	X																			
680-88632-10 MSD	10	T	12:43	X																			
CCV 680-271226/33	1		12:48	X																			
CCB 680-271226/34	1		12:54	X																			
ZZZZZZ			12:59																				
ZZZZZZ			13:05																				
ZZZZZZ			13:10																				
ZZZZZZ			13:15																				
ZZZZZZ			13:21																				
ZZZZZZ			13:26																				
ZZZZZZ			13:32																				
ZZZZZZ			13:37																				



13-IN  
ANALYSIS RUN LOG  
METALS

Lab Name: TestAmerica Savannah Job No.: 680-88632-4

SDG No.: 68088632-4

Instrument ID: ICPE Method: 6010C

Start Date: 03/29/2013 09:40 End Date: 03/29/2013 14:10

Lab Sample ID	D / F	T y p e	Time	Analytes															
				P b															
ZZZZZZ			13:43																
ZZZZZZ			13:48																
CCV 680-271226/45			13:53																
CCB 680-271226/46			13:59																
ZZZZZZ			14:04																
ZZZZZZ			14:10																

Prep Types  
T = Total/NA

13-IN  
ANALYSIS RUN LOG  
METALS

Lab Name: TestAmerica Savannah Job No.: 680-88632-4

SDG No.: 68088632-4

Instrument ID: LEEMAN2 Method: 7471B

Start Date: 03/27/2013 13:14 End Date: 03/28/2013 09:25

Lab Sample ID	D / F	Type	Time	Analytes															
				Hg															
IC 680-270664/22-A			13:14	X															
IC 680-270664/23-A			13:17	X															
IC 680-270664/24-A			13:19	X															
IC 680-270664/25-A			13:22	X															
IC 680-270664/26-A			13:24	X															
IC 680-270664/27-A			13:27	X															
ICV 680-270664/32-A	1		13:29	X															
ICB 680-270664/33-A	1		13:31	X															
CRA 680-270664/34-A	1		13:34	X															
CCV 680-270664/29-A			13:36																
CCB 680-270664/30-A			13:39																
ZZZZZZ			13:41																
ZZZZZZ			13:44																
ZZZZZZ			13:46																
ZZZZZZ			13:49																
ZZZZZZ			13:51																
ZZZZZZ			13:53																
ZZZZZZ			13:56																
ZZZZZZ			13:58																
ZZZZZZ			14:01																
ZZZZZZ			14:03																
CCV 680-270664/29-A			14:06																
CCB 680-270664/30-A			14:08																
ZZZZZZ			14:11																
ZZZZZZ			14:13																
ZZZZZZ			14:15																
ZZZZZZ			14:18																
ZZZZZZ			14:20																
ZZZZZZ			14:23																
ZZZZZZ			14:25																
ZZZZZZ			14:28																
ZZZZZZ			14:30																
ZZZZZZ			14:33																
CCV 680-270664/29-A	1		14:35	X															
CCB 680-270664/30-A	1		14:37	X															
ZZZZZZ			14:40																
ZZZZZZ			14:42																
MB 680-270670/1-A	1	T	14:45	X															
LCS 680-270670/2-A	1	T	14:47	X															
ZZZZZZ			14:50																
ZZZZZZ			14:52																
ZZZZZZ			14:55																

13-IN  
ANALYSIS RUN LOG  
METALS

Lab Name: TestAmerica Savannah Job No.: 680-88632-4

SDG No.: 68088632-4

Instrument ID: LEEMAN2 Method: 7471B

Start Date: 03/27/2013 13:14 End Date: 03/28/2013 09:25

Lab Sample ID	D / F	Type	Time	Analytes																
				H g																
680-88632-23	1	T	14:57	X																
680-88632-29	1	T	14:59	X																
680-88632-34	1	T	15:02	X																
CCV 680-270664/29-A	1		15:04	X																
CCB 680-270664/30-A	1		15:07	X																
680-88632-41	1	T	15:09	X																
680-88632-42	1	T	15:12	X																
ZZZZZZ			15:14																	
ZZZZZZ			15:17																	
680-88632-48	1	T	15:19	X																
680-88632-50	1	T	15:22	X																
ZZZZZZ			15:24																	
ZZZZZZ			15:26																	
ZZZZZZ			15:29																	
ZZZZZZ			15:31																	
CCV 680-270664/29-A	1		15:34	X																
CCB 680-270664/30-A	1		15:36	X																
ZZZZZZ			15:39																	
ZZZZZZ			15:41																	
ZZZZZZ			15:44																	
ZZZZZZ			15:46																	
ZZZZZZ			15:48																	
ZZZZZZ			15:51																	
ZZZZZZ			15:53																	
ZZZZZZ			15:56																	
ZZZZZZ			15:58																	
ZZZZZZ			16:01																	
CCV 680-270664/29-A			16:03																	
CCB 680-270664/30-A			16:06																	
ZZZZZZ			16:08																	
ZZZZZZ			16:11																	
ZZZZZZ			16:13																	
ZZZZZZ			16:15																	
ZZZZZZ			16:18																	
ZZZZZZ			16:20																	
ZZZZZZ			16:23																	
ZZZZZZ			16:25																	
ZZZZZZ			16:28																	
ZZZZZZ			16:30																	
CCV 680-270664/29-A			16:33																	
CCB 680-270664/30-A			16:35																	
ZZZZZZ			16:37																	

13-IN  
ANALYSIS RUN LOG  
METALS

Lab Name: TestAmerica Savannah Job No.: 680-88632-4

SDG No.: 68088632-4

Instrument ID: LEEMAN2 Method: 7471B

Start Date: 03/27/2013 13:14 End Date: 03/28/2013 09:25

Lab Sample ID	D / F	T y p e	Time	Analytes															
				H g															
ZZZZZZ			16:40																
ZZZZZZ			16:42																
ZZZZZZ			16:45																
ZZZZZZ			16:47																
ZZZZZZ			16:50																
ZZZZZZ			16:52																
ZZZZZZ			16:55																
ZZZZZZ			16:57																
ZZZZZZ			17:00																
CCV 680-270664/29-A			17:02																
CCB 680-270664/30-A			17:04																
ZZZZZZ			17:07																
CCV 680-270664/29-A			17:09																
CCB 680-270664/30-A			17:12																
CCV 680-270664/29-A	1		09:05	X															
CCB 680-270664/30-A	1		09:08	X															
680-88632-10	5	T	09:10	X															
680-88632-10 MS	5	T	09:12	X															
680-88632-10 MSD	5	T	09:15	X															
680-88632-43	5	T	09:17	X															
680-88632-44	5	T	09:20	X															
CCV 680-270664/29-A	1		09:22	X															
CCB 680-270664/30-A	1		09:25	X															

Prep Types  
T = Total/NA

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Blank (Blk)	3/27/2013, 3:18:06 PM		Rack S, Tube 1
Label	Replicates	Concentration	
Ag 328.068	0.0747	-0.5371	0.4624
Al 308.215	-0.2996	-2.3460	2.6456
As 188.980	-1.4408	5.3188	-3.8779
B 249.678	2.1259	0.4011	-2.5270
Ba 389.178	0.9854	-0.0503	-0.9351
Be 313.042	-0.0021	0.0044	-0.0023
Ca 370.602	2.142	-0.9956	-1.147
Cd 226.502	0.0282	0.0284	-0.0566
Co 228.615	0.0377	0.7600	-0.7977
Cr 267.716	0.0819	0.0492	-0.1311
Cu 324.754	0.1628	-0.3454	0.1825
Fe 271.441	-4.3089	-1.1309	5.4398
K 766.491	0.2572	0.2560	-0.5131
Mg 279.078	-4.7187	3.5017	1.2169
Mn 257.610	0.0174	0.0051	-0.0225
Mo 202.032	0.4488	-0.0211	-0.4278
Na 330.237	103.700	-96.3695	-7.3302
Ni 231.604	0.3181	-0.3253	0.0073
Pb 220.353	1.7556	-0.0944	-1.6612
Sb 206.834	-0.8849	0.8823	0.0026
Se 196.026	-0.7113	0.9904	-0.2791
Sn 189.925	-2.0506	2.1078	-0.0573
Sr 216.596	-0.1872	-0.0902	0.2773
Ti 334.941	0.0377	0.0129	-0.0506
Tl 190.794	5.0586	0.2043	-5.2630
V 292.401	-0.2199	0.1199	0.0999
Zn 206.200	0.0849	0.2872	-0.3721

Label	Sol'n Conc.	Units	SD(Int)	%RSD(Int)	Int. (c/s)
Ag 328.068	0.0000	ppb	35.222	110.0	-32.0106
Al 308.215	0.0000	ppb	14.367	5.9	243.732
As 188.980	0.0000	ppb	2.587	124.9	2.0709
B 249.678	0.0000	ppb	21.544	6.0	358.388
Ba 389.178	0.0000	ppb	22.999	125.2	-18.3770
Be 313.042	0.0000	ppb	7.328	4.2	-172.658
Ca 370.602	0.0000	ppb	5.993	156.9	-3.820
Cd 226.502	0.0000	ppb	1.745	13.4	13.0021
Co 228.615	0.0000	ppb	8.916	65.2	13.6790
Cr 267.716	0.0000	ppb	4.794	51.0	9.4011
Cu 324.754	0.0000	ppb	14.448	13.4	107.766
Fe 271.441	0.0000	ppb	8.333	332.8	2.5035
K 766.491	0.0000	ppb	21.810	9.7	225.274
Mg 279.078	0.0000	ppb	8.642	39.6	21.8041
Mn 257.610	0.0000	ppb	4.643	6.5	71.6681
Mo 202.032	0.0000	ppb	2.832	18.5	15.2787
Na 330.237	0.0000	ppb	5.090	133.8	-3.8035
Ni 231.604	0.0000	ppb	0.761	80.1	0.9499
Pb 220.353	0.0000	ppb	2.752	111.2	2.4755
Sb 206.834	0.0000	ppb	0.844	65.5	1.2881
Se 196.026	0.0000	ppb	0.405	242.2	0.1674
Sn 189.925	0.0000	ppb	1.573	193.2	0.8139
Sr 216.596	0.0000	ppb	2.308	22.0	10.4953
Ti 334.941	0.0000	ppb	11.616	38.6	-30.0828
Tl 190.794	0.0000	ppb	3.409	1317.8	-0.2587
V 292.401	0.0000	ppb	5.245	92.0	-5.7020
Zn 206.200	0.0000	ppb	0.512	18.6	2.7606

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**HIGH STD (Std)**                      **3/27/2013, 3:23:32 PM**                      **Rack S, Tube 2**

<b>Label</b>	<b>Replicates Concentration</b>		
Ag 328.068	992.818	1002.79	1004.39
Al 308.215	10009.5	10016.7	9973.86
As 188.980	1001.86	1013.28	984.867
B 249.678	4957.29	5005.21	5037.50
Ba 389.178	10017.2	10013.1	9969.75
Be 313.042	1001.72	999.424	998.856
Ca 370.602	10022	10015	9964
Cd 226.502	1000.02	1000.92	999.067
Co 228.615	1000.04	1002.63	997.327
Cr 267.716	10035.8	10006.9	9957.38
Cu 324.754	10013.9	10011.0	9975.07
Fe 271.441	9994.12	10003.7	10002.1
K 766.491	20034.9	20032.0	19933.1
Mg 279.078	10007.6	10001.6	9990.77
Mn 257.610	10011.4	10002.8	9985.77
Mo 202.032	1001.94	1000.64	997.418
Na 330.237	14892.2	15216.5	14891.3
Ni 231.604	5012.51	5000.44	4987.04
Pb 220.353	1003.13	995.390	1001.48
Sb 206.834	5025.96	4996.51	4977.53
Se 196.026	9988.77	10038.7	9972.52
Sn 189.925	10019.2	9989.25	9991.57
Sr 216.596	5021.35	5000.86	4977.79
Ti 334.941	1004.25	1000.97	994.774
Tl 190.794	10011.6	10013.9	9974.53
V 292.401	10027.8	9998.73	9973.44
Zn 206.200	4996.81	5003.61	4999.57

<b>Label</b>	<b>Sol'n Conc.</b>	<b>Units</b>	<b>SD(Int)</b>	<b>%RSD(Int)</b>	<b>Int. (c/s)</b>
Ag 328.068	1000.00	ppb	438.290	0.6	69862.6
Al 308.215	10000.0	ppb	131.253	0.2	57498.5
As 188.980	1000.00	ppb	7.761	1.4	544.985
B 249.678	5000.00	ppb	369.634	0.8	46154.0
Ba 389.178	10000.0	ppb	628.812	0.3	239258
Be 313.042	1000.00	ppb	2934.614	0.2	1935741
Ca 370.602	10000	ppb	102.394	0.3	32275
Cd 226.502	1000.00	ppb	32.922	0.1	35611.0
Co 228.615	1000.00	ppb	30.350	0.3	11450.6
Cr 267.716	10000.0	ppb	1657.154	0.4	418054
Cu 324.754	10000.0	ppb	1044.677	0.2	482924
Fe 271.441	10000.0	ppb	8.635	0.1	16762.6
K 766.491	20000.0	ppb	2844.130	0.3	981804
Mg 279.078	10000.0	ppb	17.407	0.1	20389.5
Mn 257.610	10000.0	ppb	2961.723	0.1	2267635
Mo 202.032	1000.00	ppb	15.031	0.2	6471.39
Na 330.237	15000.0	ppb	9.520	1.3	757.908
Ni 231.604	5000.00	ppb	30.113	0.3	11819.7
Pb 220.353	1000.00	ppb	6.558	0.4	1611.29
Sb 206.834	5000.00	ppb	23.307	0.5	4776.87
Se 196.026	10000.0	ppb	15.810	0.3	4583.48
Sn 189.925	10000.0	ppb	12.592	0.2	7562.81
Sr 216.596	5000.00	ppb	205.279	0.4	47104.9
Ti 334.941	1000.00	ppb	1227.705	0.5	255002
Tl 190.794	10000.0	ppb	14.578	0.2	6600.50
V 292.401	10000.0	ppb	748.787	0.3	275053
Zn 206.200	5000.00	ppb	5.191	0.1	7589.42

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**Ag 328.068 Calibration (ppb) 3/27/2013, 3:23:32 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-32.0106	0.0000	0.0000	-	-
HIGH STD		69862.6	1000.00	1000.000	-0.0001	0.0

Curve Type: Linear Equation:  $y = 69.9 x + -32.0$ **Al 308.215 Calibration (ppb) 3/27/2013, 3:23:32 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		243.732	0.0000	0.0000	-	-
HIGH STD		57498.5	10000.0	10000.0	0.0000	0.0

Curve Type: Linear Equation:  $y = 5.7 x + 243.7$ **As 188.980 Calibration (ppb) 3/27/2013, 3:23:32 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		2.0709	0.0000	0.0000	-	-
HIGH STD		544.985	1000.00	1000.00	0.0001	0.0

Curve Type: Linear Equation:  $y = 0.5 x + 2.1$ **B 249.678 Calibration (ppb) 3/27/2013, 3:23:32 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		358.388	0.0000	0.0000	-	-
HIGH STD		46154.0	5000.00	5000.00	0.0005	0.0

Curve Type: Linear Equation:  $y = 9.2 x + 358.4$ **Ba 389.178 Calibration (ppb) 3/27/2013, 3:23:32 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-18.3770	0.0000	0.0000	-	-
HIGH STD		239258	10000.0	10000.00	-0.0010	0.0

Curve Type: Linear Equation:  $y = 23.9 x + -18.4$ **Be 313.042 Calibration (ppb) 3/27/2013, 3:23:32 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-172.658	0.0000	0.0000	-	-
HIGH STD		1935741	1000.00	1000.000	-0.0001	0.0

Curve Type: Linear Equation:  $y = 1935.9 x + -172.7$ **Ca 370.602 Calibration (ppb) 3/27/2013, 3:23:32 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-3.820	0.0000	0.0000	-	-
HIGH STD		32275	10000	10000	0.0010	0.0

Curve Type: Linear Equation:  $y = 3.2 x + -3.8$

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**Cd 226.502 Calibration (ppb) 3/27/2013, 3:23:32 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		13.0021	0.0000	0.0000	-	-
HIGH STD		35611.0	1000.00	1000.000	-0.0001	0.0

Curve Type: Linear Equation:  $y = 35.6 x + 13.0$ **Co 228.615 Calibration (ppb) 3/27/2013, 3:23:32 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		13.6790	0.0000	0.0000	-	-
HIGH STD		11450.6	1000.00	1000.000	-0.0001	0.0

Curve Type: Linear Equation:  $y = 11.4 x + 13.7$ **Cr 267.716 Calibration (ppb) 3/27/2013, 3:23:32 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		9.4011	0.0000	0.0000	-	-
HIGH STD		418054	10000.0	10000.0	0.0010	0.0

Curve Type: Linear Equation:  $y = 41.8 x + 9.4$ **Cu 324.754 Calibration (ppb) 3/27/2013, 3:23:32 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		107.766	0.0000	0.0000	-	-
HIGH STD		482924	10000.0	10000.0	0.0010	0.0

Curve Type: Linear Equation:  $y = 48.3 x + 107.8$ **Fe 271.441 Calibration (ppb) 3/27/2013, 3:23:32 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		2.5035	0.0000	0.0000	-	-
HIGH STD		16762.6	10000.0	10000.0	0.0000	0.0

Curve Type: Linear Equation:  $y = 1.7 x + 2.5$ **K 766.491 Calibration (ppb) 3/27/2013, 3:23:32 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		225.274	0.0000	0.0000	-	-
HIGH STD		981804	20000.0	20000.0	-0.0020	0.0

Curve Type: Linear Equation:  $y = 49.1 x + 225.3$ **Mg 279.078 Calibration (ppb) 3/27/2013, 3:23:32 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		21.8041	0.0000	0.0000	-	-
HIGH STD		20389.5	10000.0	10000.0	0.0010	0.0

Curve Type: Linear Equation:  $y = 2.0 x + 21.8$



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**Mn 257.610 Calibration (ppb) 3/27/2013, 3:23:32 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		71.6681	0.0000	0.0000	-	-
HIGH STD		2267635	10000.0	10000.0	0.0010	0.0

Curve Type: Linear Equation:  $y = 226.8 x + 71.7$ **Mo 202.032 Calibration (ppb) 3/27/2013, 3:23:32 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		15.2787	0.0000	0.0000	-	-
HIGH STD		6471.39	1000.00	1000.00	0.0000	0.0

Curve Type: Linear Equation:  $y = 6.5 x + 15.3$ **Na 330.237 Calibration (ppb) 3/27/2013, 3:23:32 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-3.8035	0.0000	0.0000	-	-
HIGH STD		757.908	15000.0	15000.0	0.0000	0.0

Curve Type: Linear Equation:  $y = 0.1 x + -3.8$ **Ni 231.604 Calibration (ppb) 3/27/2013, 3:23:32 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		0.9499	0.0000	0.0000	-	-
HIGH STD		11819.7	5000.00	5000.00	0.0000	0.0

Curve Type: Linear Equation:  $y = 2.4 x + 0.9$ **Pb 220.353 Calibration (ppb) 3/27/2013, 3:23:32 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		2.4755	0.0000	0.0000	-	-
HIGH STD		1611.29	1000.00	1000.00	0.0000	0.0

Curve Type: Linear Equation:  $y = 1.6 x + 2.5$ **Sb 206.834 Calibration (ppb) 3/27/2013, 3:23:32 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		1.2881	0.0000	0.0000	-	-
HIGH STD		4776.87	5000.00	5000.00	0.0000	0.0

Curve Type: Linear Equation:  $y = 1.0 x + 1.3$ **Se 196.026 Calibration (ppb) 3/27/2013, 3:23:32 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		0.1674	0.0000	0.0000	-	-
HIGH STD		4583.48	10000.0	10000.0	0.0000	0.0

Curve Type: Linear Equation:  $y = 0.5 x + 0.2$

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**Sn 189.925 Calibration (ppb)** 3/27/2013, 3:23:32 PM **Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		0.8139	0.0000	0.0000	-	-
HIGH STD		7562.81	10000.0	10000.0	0.0000	0.0

Curve Type: Linear Equation:  $y = 0.8 x + 0.8$ **Sr 216.596 Calibration (ppb)** 3/27/2013, 3:23:32 PM **Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		10.4953	0.0000	0.0000	-	-
HIGH STD		47104.9	5000.00	5000.00	0.0000	0.0

Curve Type: Linear Equation:  $y = 9.4 x + 10.5$ **Ti 334.941 Calibration (ppb)** 3/27/2013, 3:23:32 PM **Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-30.0828	0.0000	0.0000	-	-
HIGH STD		255002	1000.00	1000.00	0.0000	0.0

Curve Type: Linear Equation:  $y = 255.0 x + -30.1$ **Tl 190.794 Calibration (ppb)** 3/27/2013, 3:23:32 PM **Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-0.2587	0.0000	0.0000	-	-
HIGH STD		6600.50	10000.0	10000.00	-0.0010	0.0

Curve Type: Linear Equation:  $y = 0.7 x + -0.3$ **V 292.401 Calibration (ppb)** 3/27/2013, 3:23:32 PM **Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-5.7020	0.0000	0.0000	-	-
HIGH STD		275053	10000.0	10000.0	0.0010	0.0

Curve Type: Linear Equation:  $y = 27.5 x + -5.7$ **Zn 206.200 Calibration (ppb)** 3/27/2013, 3:23:32 PM **Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		2.7606	0.0000	0.0000	-	-
HIGH STD		7589.42	5000.00	5000.00	0.0000	0.0

Curve Type: Linear Equation:  $y = 1.5 x + 2.8$ **Lab Control Sample (LCS)** 3/27/2013, 3:28:56 PM **Rack S, Tube 2****Weight: 1** **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	1011.80	1012.15	1005.89
Al 308.215	10005.1	9986.25	9998.57
As 188.980	1005.05	995.237	988.548
B 249.678	5079.35	5101.33x	5141.46x
Ba 389.178	10021.2	9998.42	10008.6

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Label	Replicates Concentration		
Be 313.042	1002.35	999.541	998.621
Ca 370.602	10017	9971	9983
Cd 226.502	1001.76	998.522	1003.30
Co 228.615	1002.25	996.357	1001.40
Cr 267.716	10055.1	10003.9	9991.15
Cu 324.754	9913.06	10057.0	9944.57
Fe 271.441	9975.86	9938.98	9992.47
K 766.491	20017.7	19986.2	20040.7
Mg 279.078	10008.4	9985.35	9997.37
Mn 257.610	10019.2	9963.52	10001.7
Mo 202.032	1005.79	1001.44	1002.62
Na 330.237	14979.1	15146.3	14954.4
Ni 231.604	5018.13	4995.69	5009.12
Pb 220.353	1005.23	1005.56	1007.52
Sb 206.834	5006.58x	4990.24x	4997.53
Se 196.026	10059.3	10043.7	10004.8
Sn 189.925	10057.8	10142.5x	10041.5
Sr 216.596	5036.48	5006.76	4991.69
Ti 334.941	1006.12	1001.19	998.976
Tl 190.794	10046.2	10011.1	10027.2
V 292.401	10018.0	9972.78	10015.1
Zn 206.200	5015.83	5017.16	5015.43

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	1009.95b	ppb	3.5214	0.3	70447.4	100.99461
Al 308.215	9996.64b	ppb	9.5662	0.1	57433.7	99.96637
As 188.980	996.280b	ppb	8.3023	0.8	542.715	99.62795
B 249.678	5107.38xb	ppb	31.4899	0.6	47128.3	102.14759
Ba 389.178	10009.4b	ppb	11.4213	0.1	239552	100.09403
Be 313.042	1000.17b	ppb	1.9422	0.2	1935536	100.01701
Ca 370.602	9990b	ppb	23.57	0.2	31980	99.90405
Cd 226.502	1001.19b	ppb	2.4373	0.2	35676.8	100.11918
Co 228.615	1000.00b	ppb	3.1837	0.3	11468.0	100.00007
Cr 267.716	10016.7b	ppb	33.8210	0.3	418702	100.16703
Cu 324.754	9971.54b	ppb	75.6673	0.8	481483	99.71541
Fe 271.441	9969.11b	ppb	27.3754	0.3	16954.0	99.69106
K 766.491	20014.9b	ppb	27.3478	0.1	982533	100.07430
Mg 279.078	9997.05b	ppb	11.5381	0.1	20227.6	99.97048
Mn 257.610	9994.82b	ppb	28.4936	0.3	2266543	99.94821
Mo 202.032	1003.28b	ppb	2.2467	0.2	6475.36	100.32844
Na 330.237	15026.6b	ppb	104.425	0.7	711.845	100.17740
Ni 231.604	5007.65b	ppb	11.2921	0.2	11838.0	100.15298
Pb 220.353	1006.10b	ppb	1.2377	0.1	1620.89	100.61009
Sb 206.834	4998.12xb	ppb	8.1865	0.2	4865.40	99.96236
Se 196.026	10035.9b	ppb	28.0894	0.3	4602.27	100.35926
Sn 189.925	10080.6xb	ppb	54.2444	0.5	7623.77	100.80600
Sr 216.596	5011.64b	ppb	22.7911	0.5	47113.3	100.23283
Ti 334.941	1002.10b	ppb	3.6592	0.4	255578	100.20973
Tl 190.794	10028.2b	ppb	17.5555	0.2	6612.44	100.28154
V 292.401	10002.0b	ppb	25.3113	0.3	274310	100.01960
Zn 206.200	5016.14b	ppb	0.9086	0.0	7584.23	100.32281

Initial Calib Verif (ICV)

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Rack S, Tube 3

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	1013.92x	1015.77x	1016.01x
Al 308.215	952.129	957.592	959.454

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Label	Replicates Concentration		
As 188.980	971.671	956.943	964.318
B 249.678	1084.11	1090.58	1094.73
Ba 389.178	1015.60	1016.63	1015.02
Be 313.042	1020.29x	1018.40x	1018.71x
Ca 370.602	993.2	984.0	989.2
Cd 226.502	1015.60x	1020.09x	1021.28x
Co 228.615	969.108	973.844	979.025
Cr 267.716	1000.59	997.563	995.313
Cu 324.754	1008.13	1010.84	1007.20
Fe 271.441	981.762	982.973	985.400
K 766.491	10340.8	10389.4	10021.6
Mg 279.078	1023.20	1026.07	1023.05
Mn 257.610	1027.18	1026.28	1027.31
Mo 202.032	1009.65x	1010.96x	1006.57x
Na 330.237	9973.97	9803.58	9926.42
Ni 231.604	1022.47	1023.98	1023.50
Pb 220.353	1026.67	1028.92	1018.15
Sb 206.834	1005.17	994.887	999.144
Se 196.026	991.945	995.038	1007.56
Sn 189.925	5089.39	5093.94	5050.66
Sr 216.596	4993.50	4977.56	4955.64
Ti 334.941	1006.77	1004.91	999.922
Tl 190.794	1026.92	1021.23	1032.06
V 292.401	1015.77	1015.64	1015.30
Zn 206.200	1003.28	1008.34	1002.30

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	1015.23xb	ppb	1.1442	0.1	70727.9	101.52317
Al 308.215	956.391b	ppb	3.8071	0.4	5834.89	95.63914
As 188.980	964.311b	ppb	7.3643	0.8	525.370	96.43106
B 249.678	1089.81b	ppb	5.3519	0.5	10339.1	108.98093Q
Ba 389.178	1015.75b	ppb	0.8133	0.1	24297.9	101.57472
Be 313.042	1019.13xb	ppb	1.0138	0.1	1972575	101.91296
Ca 370.602	988.8b	ppb	4.649	0.5	3326	98.87948
Cd 226.502	1018.99xb	ppb	2.9913	0.3	36289.5	101.89894
Co 228.615	973.992b	ppb	4.9602	0.5	11145.2	97.39924
Cr 267.716	997.823b	ppb	2.6490	0.3	41711.8	99.78227
Cu 324.754	1008.72b	ppb	1.8936	0.2	48827.9	100.87218
Fe 271.441	983.378b	ppb	1.8524	0.2	1808.26	98.33784
K 766.491	10250.6b	ppb	199.835	1.9	503314	102.50599
Mg 279.078	1024.11b	ppb	1.7018	0.2	2091.69	102.41095
Mn 257.610	1026.92b	ppb	0.5582	0.1	232942	102.69230
Mo 202.032	1009.06xb	ppb	2.2551	0.2	6528.13	100.90575
Na 330.237	9901.33b	ppb	87.9217	0.9	483.584	99.01325
Ni 231.604	1023.31b	ppb	0.7705	0.1	2419.84	102.33147
Pb 220.353	1024.58b	ppb	5.6792	0.6	1648.89	102.45782
Sb 206.834	999.735b	ppb	5.1695	0.5	961.054	99.97353
Se 196.026	998.181b	ppb	8.2686	0.8	457.903	99.81813
Sn 189.925	5078.00b	ppb	23.7834	0.5	3840.80	101.55997
Sr 216.596	4975.57b	ppb	19.0083	0.4	46828.1	99.51134
Ti 334.941	1003.87b	ppb	3.5403	0.4	255992	100.38670
Tl 190.794	1026.74b	ppb	5.4180	0.5	676.819	102.67368
V 292.401	1015.57b	ppb	0.2400	0.0	27684.5	101.55709
Zn 206.200	1004.64b	ppb	3.2393	0.3	1524.17	100.46378

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Initial Calib Blank (ICB) 3/27/2013, 3:43:04 PM Rack S, Tube 1

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.7430u	-0.7949u	-0.8902u
Al 308.215	0.5314	2.8876	-0.2619u
As 188.980	8.1718	-2.3361u	1.3531
B 249.678	31.8723	28.7412	24.4897
Ba 389.178	0.4537	-0.7224u	-0.3850u
Be 313.042	-0.0170u	-0.0224u	-0.0209u
Ca 370.602	-0.4672u	1.557	-0.0919u
Cd 226.502	-0.1414u	-0.2386u	-0.1268u
Co 228.615	-0.0137u	-0.1591u	-0.8046u
Cr 267.716	-0.0807u	-0.1163u	0.0581
Cu 324.754	0.1876	0.0075	0.6830
Fe 271.441	3.8776	-7.8522u	3.9103
K 766.491	-0.1049u	0.2081	0.7481
Mg 279.078	3.9970	3.4378	6.1832
Mn 257.610	-0.0899u	-0.0462u	-0.0520u
Mo 202.032	0.0512	0.8557	0.5685
Na 330.237	101.979	43.1169	52.7701
Ni 231.604	-0.5025u	-0.7337u	-0.2710u
Pb 220.353	-1.4029u	-0.5152u	-1.7853u
Sb 206.834	8.7443	3.6371	5.6403
Se 196.026	-12.1898u	2.1362	-1.1599u
Sn 189.925	-1.9583u	-1.1313u	-3.1999u
Sr 216.596	0.7960	-1.1690u	0.1967
Ti 334.941	0.1651	0.1427	0.0334
Tl 190.794	-1.0085u	-0.0083u	2.1669
V 292.401	-0.1417u	0.0909	-0.0446u
Zn 206.200	0.4990	-0.5928u	2.3213

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	-0.8094	ppb	0.0747	9.2	-88.5863	-0.80939
Al 308.215	1.0524	ppb	1.6381	155.7	249.813	1.05237
As 188.980	2.3963	ppb	5.3310	222.5	3.3718	2.39626
B 249.678	28.3677	ppb	3.7055	13.1	618.211	28.36770
Ba 389.178	-0.2179	ppb	0.6056	277.9	-23.5772	-0.21789
Be 313.042	-0.0201	ppb	0.0028	14.0	-211.577	-0.02007
Ca 370.602	0.3326	ppb	1.077	323.7	-2.744	0.33261
Cd 226.502	-0.1689	ppb	0.0608	36.0	6.9894	-0.16892
Co 228.615	-0.3258	ppb	0.4210	129.2	9.9415	-0.32579
Cr 267.716	-0.0463	ppb	0.0921	199.0	7.4671	-0.04630
Cu 324.754	0.2927	ppb	0.3498	119.5	121.911	0.29272
Fe 271.441	-0.0214	ppb	6.7817	31647.4	2.3927	-0.02143
K 766.491	0.2838	ppb	0.4315	152.1	239.201	0.28376
Mg 279.078	4.5393	ppb	1.4508	32.0	31.0504	4.53935
Mn 257.610	-0.0627	ppb	0.0237	37.8	57.4735	-0.06270
Mo 202.032	0.4918	ppb	0.4077	82.9	18.4538	0.49179
Na 330.237	65.9552	ppb	31.5683	47.9	-0.4622	65.95520
Ni 231.604	-0.5024	ppb	0.2314	46.1	-0.2377	-0.50243
Pb 220.353	-1.2345	ppb	0.6516	52.8	0.4890	-1.23447
Sb 206.834	6.0072	ppb	2.5733	42.8	7.0195	6.00721
Se 196.026	-3.7378	ppb	7.5029	200.7	-1.5458	-3.73785
Sn 189.925	-2.0965	ppb	1.0412	49.7	-0.7714	-2.09650
Sr 216.596	-0.0588	ppb	1.0071	1714.0	9.9229	-0.05876
Ti 334.941	0.1137	ppb	0.0705	62.0	-1.0555	0.11375
Tl 190.794	0.3834	ppb	1.6235	423.5	-0.0059	0.38337
V 292.401	-0.0318	ppb	0.1168	367.3	-6.6509	-0.03180
Zn 206.200	0.7425	ppb	1.4722	198.3	2.8874	0.74247

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CRI (CRI) 3/27/2013, 3:48:28 PM Rack S, Tube 4

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	10.0089	10.4262	9.1354
Al 308.215	214.674	213.039	210.828
As 188.980	21.4287	25.9302	19.7003
B 249.678	100.883	101.615	98.6208
Ba 389.178	10.7906	9.8379	9.4057
Be 313.042	4.2238	4.2542	4.1841
Ca 370.602	532.3	530.7	521.3
Cd 226.502	5.2556	5.0980	5.0063
Co 228.615	10.0904	10.3843	10.7250
Cr 267.716	10.3579	10.3269	10.0130
Cu 324.754	20.5950	20.9082	21.3168
Fe 271.441	53.7705	61.8740	56.8586
K 766.491	1055.75	1062.11	1055.85
Mg 279.078	534.397	533.552	528.911
Mn 257.610	10.8861	11.0567	10.7898
Mo 202.032	9.5197	10.4887	9.1761
Na 330.237	1207.72	942.654	951.460
Ni 231.604	42.0544	44.0798	41.3263
Pb 220.353	9.9444	9.9977	10.2413
Sb 206.834	17.8557	22.1989	20.0099
Se 196.026	19.7252	16.4052	18.3513
Sn 189.925	51.0796	52.9600	50.3127
Sr 216.596	10.9510	9.9641	9.2808
Ti 334.941	10.3027	10.3374	10.1202
Tl 190.794	24.0651	24.9074	28.2892
V 292.401	10.6868	10.7257	10.3001
Zn 206.200	23.6233	24.8565	24.0283

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	9.8568	ppb	0.6587	6.7	656.598	98.56843
Al 308.215	212.847	ppb	1.9303	0.9	1463.45	106.42347
As 188.980	22.3531	ppb	3.2162	14.4	14.2079	111.76531
B 249.678	100.373	ppb	1.5609	1.6	1277.67	100.37298
Ba 389.178	10.0114	ppb	0.7086	7.1	222.761	100.11402
Be 313.042	4.2207	ppb	0.0351	0.8	7996.39	105.51789
Ca 370.602	528.1	ppb	5.922	1.1	1699	105.62134
Cd 226.502	5.1200	ppb	0.1261	2.5	195.386	102.39992
Co 228.615	10.3999	ppb	0.3176	3.1	132.564	103.99879
Cr 267.716	10.2326	ppb	0.1908	1.9	437.122	102.32597
Cu 324.754	20.9400	ppb	0.3620	1.7	1118.95	104.70007
Fe 271.441	57.5010	ppb	4.0898	7.1	100.546	115.00201
K 766.491	1057.90	ppb	3.6468	0.3	52146.1	105.79039
Mg 279.078	532.287	ppb	2.9536	0.6	1105.73	106.45734
Mn 257.610	10.9109	ppb	0.1352	1.2	2548.85	109.10876
Mo 202.032	9.7282	ppb	0.6807	7.0	78.0649	97.28174
Na 330.237	1033.94	ppb	150.558	14.6	48.4303	103.39447
Ni 231.604	42.4868	ppb	1.4268	3.4	101.379	106.21703
Pb 220.353	10.0611	ppb	0.1583	1.6	18.6397	100.61118
Sb 206.834	20.0215	ppb	2.1716	10.8	20.4260	100.10751
Se 196.026	18.1605	ppb	1.6682	9.2	8.4936	90.80273
Sn 189.925	51.4508	ppb	1.3621	2.6	39.7215	102.90154
Sr 216.596	10.0653	ppb	0.8397	8.3	104.442	100.65305
Ti 334.941	10.2534	ppb	0.1167	1.1	2587.01	102.53434
Tl 190.794	25.7539	ppb	2.2357	8.7	16.7329	103.01563
V 292.401	10.5708	ppb	0.2353	2.2	282.724	105.70834
Zn 206.200	24.1694	ppb	0.6286	2.6	39.4073	120.84688R

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**Interf Check A (ICSA)**                      **3/27/2013, 3:53:54 PM**                      **Rack S, Tube 5**  
**Weight: 1**    **Volume: 1**    **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.4040u	-0.4785u	-0.4842u
Al 308.215	542572	542723	541634
As 188.980	-7.1789u	-0.4819	1.8931
B 249.678	-23.4655u	-26.6537u	-26.1737u
Ba 389.178	2.6441	2.5196	1.8370
Be 313.042	-0.1583u	-0.1603u	-0.1606u
Ca 370.602	506595	504449	504277
Cd 226.502	-0.2230	0.0692	0.1698
Co 228.615	-0.4286u	0.4009u	0.4378u
Cr 267.716	0.6303	0.3350	0.7865
Cu 324.754	0.7809	0.5462	-0.2345
Fe 271.441	201067	201238	201119
K 766.491	3.6344	4.0539	4.1940
Mg 279.078	555378	555017	555846
Mn 257.610	0.6327	0.5963	0.6968
Mo 202.032	0.2028u	-0.1900u	2.5388
Na 330.237	-665.132u	-146.327u	-365.130u
Ni 231.604	2.1522	3.7539	2.0262
Pb 220.353	0.3703u	6.6093	3.3541u
Sb 206.834	12.7504	-1.0350	10.3490
Se 196.026	-16.4494u	6.9275	-20.1123u
Sn 189.925	6.6496	-10.5329u	-0.7989u
Sr 216.596	2.3191	1.9988	1.0170
Ti 334.941	0.1200	0.1906	0.0491
Tl 190.794	-2.3159u	4.6937u	-0.8743u
V 292.401	-3.3453u	-3.1194u	-3.2804u
Zn 206.200	18.1688	15.8425	22.6216

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	-0.4556	ppb	0.0447	9.8	-71.0174	-0.45555
Al 308.215	542309	ppb	590.184	0.1	3105221	-
As 188.980	-1.9225	ppb	4.7045	244.7	2.9253	-1.92254
B 249.678	-25.4310	ppb	1.7190	6.8	-58.5345	-25.43095
Ba 389.178	2.3335	ppb	0.4345	18.6	1834.39	2.33355
Be 313.042	-0.1597	ppb	0.0012	0.8	-275.496	-0.15975
Ca 370.602	505107	ppb	1291	0.3	1613814	-
Cd 226.502	0.0053	ppb	0.2041	3815.7	487.185	0.00535
Co 228.615	0.1367	ppb	0.4899	358.4	8.6475	0.13669
Cr 267.716	0.5839	ppb	0.2293	39.3	79.9684	0.58391
Cu 324.754	0.3642	ppb	0.5316	146.0	183.000	0.36418
Fe 271.441	201141	ppb	87.3085	0.0	337117	-
K 766.491	3.9608	ppb	0.2912	7.4	419.663	3.96075
Mg 279.078	555414	ppb	415.525	0.1	1131149	-
Mn 257.610	0.6419	ppb	0.0509	7.9	3814.67	0.64193
Mo 202.032	0.8505	ppb	1.4752	173.4	11.7855	0.85053
Na 330.237	-392.196	ppb	260.459	66.4	-83.5548	-392.19629
Ni 231.604	2.6441	ppb	0.9632	36.4	11.1435	2.64412
Pb 220.353	3.4446	ppb	3.1205	90.6	-1.5614	3.44459
Sb 206.834	7.3548	ppb	7.3643	100.1	12.6930	7.35478
Se 196.026	-9.8781	ppb	14.6689	148.5	-3.8093	-9.87808
Sn 189.925	-1.5608	ppb	8.6166	552.1	-0.1803	-1.56076
Sr 216.596	1.7783	ppb	0.6785	38.2	143.686	1.77827
Ti 334.941	0.1199	ppb	0.0707	59.0	2332.90	0.11990
Tl 190.794	0.5012	ppb	3.7017	738.6	-6.7725	0.50118
V 292.401	-3.2484	ppb	0.1163	3.6	-92.1559	-3.24838
Zn 206.200	18.8777	ppb	3.4447	18.2	35.2972	18.87766

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**Interf Check AB (ICSAB)                      3/27/2013, 3:59:20 PM                      Rack S, Tube 6**  
**Weight: 1    Volume: 1    Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	228.834	229.810	209.443
Al 308.215	544452	544672	479368
As 188.980	120.955	115.800	95.0145
B 249.678	-37.1515u	-37.1237u	-33.7347u
Ba 389.178	533.459	533.380	463.275
Be 313.042	512.557	513.532	453.391
Ca 370.602	510252	508933	434659
Cd 226.502	1012.93	1011.14	887.079
Co 228.615	498.621	499.289	457.698
Cr 267.716	516.826	516.769	452.026
Cu 324.754	558.553	556.065	505.172
Fe 271.441	202445	202209	178426
K 766.491	3.5954	3.2256	3.0433
Mg 279.078	562321	562176	496252
Mn 257.610	511.271	510.641	447.464
Mo 202.032	1105.75	1106.53	973.753
Na 330.237	-332.238u	-303.108u	-254.891u
Ni 231.604	997.673	987.981	862.791
Pb 220.353	41.8379	47.5433	42.1120
Sb 206.834	656.891	649.692	563.338
Se 196.026	44.2192	39.3416	52.3270
Sn 189.925	1083.94	1084.50	951.461
Sr 216.596	3.6702	2.6766	1.3594
Ti 334.941	-6.1621	-6.0476	-6.5570
Tl 190.794	98.0225	110.119	95.5207
V 292.401	514.923	514.082	453.659
Zn 206.200	993.033	991.535	874.088

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	222.696	ppb	11.4875	5.2	15531.2	111.34796
Al 308.215	522831	ppb	37640.2	7.2	2993827	104.56612
As 188.980	110.590	ppb	13.7328	12.4	63.6729	110.58990
B 249.678	-36.0033	ppb	1.9647	5.5	-149.051	-
Ba 389.178	510.038	ppb	40.4980	7.9	13938.0	102.00752
Be 313.042	493.160	ppb	34.4446	7.0	954554	98.63200
Ca 370.602	484615	ppb	43268	8.9	1548254	96.92290
Cd 226.502	970.383	ppb	72.1484	7.4	35014.4	97.03828
Co 228.615	485.203	ppb	23.8220	4.9	5522.13	97.04055
Cr 267.716	495.207	ppb	37.3957	7.6	20745.4	99.04139
Cu 324.754	539.930	ppb	30.1268	5.6	26255.5	107.98601
Fe 271.441	194360	ppb	13800.0	7.1	325829	97.17999
K 766.491	3.2881	ppb	0.2813	8.6	386.649	-
Mg 279.078	540250	ppb	38102.9	7.1	1100261	108.04993
Mn 257.610	489.792	ppb	36.6586	7.5	114630	97.95836
Mo 202.032	1062.01	ppb	76.4368	7.2	6862.26	106.20133
Na 330.237	-296.746	ppb	39.0639	13.2	-83.4861	-
Ni 231.604	949.482	ppb	75.2328	7.9	2249.10	94.94818
Pb 220.353	43.8311	ppb	3.2178	7.3	62.3463	87.66211
Sb 206.834	623.307	ppb	52.0593	8.4	595.620	103.88453
Se 196.026	45.2959	ppb	6.5593	14.5	21.5719	90.59187
Sn 189.925	1039.97	ppb	76.6471	7.4	787.414	103.99652
Sr 216.596	2.5687	ppb	1.1591	45.1	99.3237	-
Ti 334.941	-6.2556	ppb	0.2672	4.3	642.829	-
Tl 190.794	101.221	ppb	7.8069	7.7	59.4979	101.22067
V 292.401	494.222	ppb	35.1304	7.1	13353.0	98.84431
Zn 206.200	952.885	ppb	68.2449	7.2	1450.87	95.28853



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Cont Calib Verif (CCV) 3/27/2013, 4:12:22 PM Rack 1, Tube 1  
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	503.275	496.062	495.275
Al 308.215	4986.37	4990.15	4974.70
As 188.980	474.987	473.113	468.200
B 249.678	2487.88	2520.94	2531.35
Ba 389.178	4931.76	4940.30	4920.07
Be 313.042	491.146	490.786	489.649
Ca 370.602	4961	4960	4936
Cd 226.502	491.909	493.123	491.441
Co 228.615	496.021	496.903	495.011
Cr 267.716	4925.16	4920.47	4910.22
Cu 324.754	4939.88	4883.22	4865.72
Fe 271.441	4933.78	4956.97	4927.92
K 766.491	10108.7	10151.1	10067.7
Mg 279.078	4951.38	4950.60	4935.41
Mn 257.610	4942.33	4958.42	4939.19
Mo 202.032	489.994	490.579	489.327
Na 330.237	7360.00	7234.91	7284.54
Ni 231.604	2488.43	2484.67	2482.02
Pb 220.353	494.512	495.199	493.564
Sb 206.834	913.983	921.544	910.832
Se 196.026	4938.49	4923.36	4905.91
Sn 189.925	5035.90	5107.34	4991.22
Sr 216.596	2479.06	2471.80	2463.45
Ti 334.941	497.896	497.581	494.977
Tl 190.794	4975.39	4977.67	4974.25
V 292.401	4914.54	4928.76	4902.07
Zn 206.200	2457.51	2456.25	2457.26

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	498.204	ppb	4.4093	0.9	34736.1	99.64081
Al 308.215	4983.74	ppb	8.0527	0.2	28754.8	99.67483
As 188.980	472.100	ppb	3.5051	0.7	258.259	94.41999
B 249.678	2513.39	ppb	22.6972	0.9	23374.3	100.53571
Ba 389.178	4930.71	ppb	10.1559	0.2	117996	98.61423
Be 313.042	490.527	ppb	0.7815	0.2	949184	98.10537
Ca 370.602	4952	ppb	13.94	0.3	15849	99.04597
Cd 226.502	492.158	ppb	0.8685	0.2	17544.5	98.43156
Co 228.615	495.978	ppb	0.9467	0.2	5694.81	99.19563
Cr 267.716	4918.62	ppb	7.6395	0.2	205605	98.37234
Cu 324.754	4896.27	ppb	38.7642	0.8	236475	97.92546
Fe 271.441	4939.56	ppb	15.3641	0.3	8401.59	98.79113
K 766.491	10109.1	ppb	41.6973	0.4	496371	101.09134
Mg 279.078	4945.79	ppb	9.0052	0.2	10018.1	98.91590
Mn 257.610	4946.65	ppb	10.3179	0.2	1121796	98.93293
Mo 202.032	489.967	ppb	0.6263	0.1	3170.09	97.99332
Na 330.237	7293.15	ppb	62.9922	0.9	343.286	97.24200
Ni 231.604	2485.04	ppb	3.2188	0.1	5875.08	99.40157
Pb 220.353	494.425	ppb	0.8212	0.2	797.819	98.88499
Sb 206.834	915.453	ppb	5.5052	0.6	919.980	91.54529
Se 196.026	4922.59	ppb	16.3040	0.3	2257.49	98.45172
Sn 189.925	5044.82	ppb	58.5688	1.2	3815.71	100.89642
Sr 216.596	2471.44	ppb	7.8068	0.3	23238.7	98.85741
Ti 334.941	496.818	ppb	1.6018	0.3	126695	99.36360
Tl 190.794	4975.77	ppb	1.7417	0.0	3280.83	99.51541
V 292.401	4915.12	ppb	13.3543	0.3	134799	98.30240
Zn 206.200	2457.00	ppb	0.6684	0.0	3716.31	98.28016

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Cont Calib Blank (CCB)                      3/27/2013, 4:17:45 PM                      Rack 1, Tube 2  
 Weight: 1    Volume: 1    Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-1.5755u	-1.2042u	-1.2628u
Al 308.215	4.0911	2.4163	0.3132
As 188.980	-4.3597u	1.2412	-3.7659u
B 249.678	33.1899	26.8797	23.5593
Ba 389.178	-0.6428u	0.2733	-0.7682u
Be 313.042	-0.0196u	-0.0240u	-0.0222u
Ca 370.602	10.49	14.31	2.228
Cd 226.502	0.0968	0.0311	-0.0005u
Co 228.615	-0.2521u	-0.5164u	-0.1466u
Cr 267.716	0.0041	-0.0689u	0.0504
Cu 324.754	0.3928	-0.6286u	0.0165
Fe 271.441	3.6845	5.2936	6.4268
K 766.491	0.1754	-0.2627u	-0.0577u
Mg 279.078	1.8641	4.3310	5.8663
Mn 257.610	0.0077	-0.0786u	0.0096
Mo 202.032	0.0566	0.3556	-0.3727u
Na 330.237	182.025	-27.8124u	-16.1764u
Ni 231.604	-0.8769u	-0.2243u	0.8518
Pb 220.353	-0.3584u	3.0653	1.5693
Sb 206.834	5.9023	-0.1904u	7.0784
Se 196.026	-0.1788u	-1.3154u	9.8331
Sn 189.925	-0.9967u	3.0743	0.9417
Sr 216.596	0.4888	-0.4832u	-0.6452u
Ti 334.941	-0.1162u	-0.0454u	-0.1723u
Tl 190.794	5.6898	7.8314	-0.1577u
V 292.401	0.2537	0.3914	0.5643
Zn 206.200	-1.1967u	-0.5688u	-0.5923u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	-1.3475	ppb	0.1996	14.8	-126.188	-1.34752
Al 308.215	2.2735	ppb	1.8930	83.3	256.704	2.27351
As 188.980	-2.2948	ppb	3.0767	134.1	0.8252	-2.29480
B 249.678	27.8763	ppb	4.8920	17.5	613.711	27.87630
Ba 389.178	-0.3792	ppb	0.5686	149.9	-27.4409	-0.37925
Be 313.042	-0.0219	ppb	0.0022	10.1	-215.022	-0.02190
Ca 370.602	9.009	ppb	6.175	68.5	25.31	9.00919
Cd 226.502	0.0425	ppb	0.0496	116.8	14.5117	0.04247
Co 228.615	-0.3050	ppb	0.1905	62.5	10.1959	-0.30502
Cr 267.716	-0.0048	ppb	0.0601	1253.1	9.1964	-0.00480
Cu 324.754	-0.0731	ppb	0.5166	706.9	104.227	-0.07307
Fe 271.441	5.1350	ppb	1.3780	26.8	11.0571	5.13498
K 766.491	-0.0483	ppb	0.2192	453.8	222.904	-0.04830
Mg 279.078	4.0205	ppb	2.0191	50.2	29.9924	4.02048
Mn 257.610	-0.0204	ppb	0.0504	246.7	67.0589	-0.02043
Mo 202.032	0.0132	ppb	0.3661	2775.6	15.3632	0.01319
Na 330.237	46.0122	ppb	117.934	256.3	-1.4601	46.01221
Ni 231.604	-0.0831	ppb	0.8730	1050.4	0.7534	-0.08311
Pb 220.353	1.4254	ppb	1.7164	120.4	4.7692	1.42537
Sb 206.834	4.2635	ppb	3.9017	91.5	5.3628	4.26346
Se 196.026	2.7797	ppb	6.1349	220.7	1.4414	2.77967
Sn 189.925	1.0064	ppb	2.0362	202.3	1.5750	1.00643
Sr 216.596	-0.2132	ppb	0.6133	287.7	8.4922	-0.21319
Ti 334.941	-0.1113	ppb	0.0636	57.1	-58.4524	-0.11132
Tl 190.794	4.4545	ppb	4.1353	92.8	2.6818	4.45448
V 292.401	0.4031	ppb	0.1556	38.6	5.4467	0.40312
Zn 206.200	-0.7860	ppb	0.3559	45.3	1.5684	-0.78597

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**mb 680-270772/1-b (Samp)**      **3/27/2013, 4:23:09 PM**      **Rack 1, Tube 3**  
**Weight: 1**      **Volume: 1**      **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.4044u	-0.3389u	-0.6266u
Al 308.215	1.9257	-0.4415u	4.3161
As 188.980	-2.2624u	1.0567	-5.5765u
B 249.678	-10.9670u	-10.8052u	-12.4196u
Ba 389.178	-0.6223u	0.0344	-0.9344u
Be 313.042	-0.0320u	-0.0323u	-0.0240u
Ca 370.602	8.021	5.605	8.248
Cd 226.502	0.0325	-0.1119u	0.0212
Co 228.615	0.5866	0.3022	-0.8810u
Cr 267.716	-0.1255u	-0.3400u	-0.1427u
Cu 324.754	0.1721	0.6671	0.1566
Fe 271.441	6.1072	7.8006	0.5950
K 766.491	1.2930	1.6375	0.5344
Mg 279.078	5.4200	3.5384	1.3927
Mn 257.610	0.0561	0.0786	0.0389
Mo 202.032	-0.8940u	-0.8321u	-1.1571u
Na 330.237	261.626	59.1548	80.2926
Ni 231.604	-0.0943u	1.2737	1.1168
Pb 220.353	1.6046	-0.0970u	-2.8526u
Sb 206.834	3.2674	1.8220	0.8237
Se 196.026	-4.9862u	0.8107	3.2903
Sn 189.925	-1.2037u	-0.1425u	-1.4088u
Sr 216.596	-0.4697u	-0.4669u	-0.1864u
Ti 334.941	-0.1894u	-0.2073u	-0.1451u
Tl 190.794	-2.2182u	1.3951	-0.1321u
V 292.401	0.6299	-0.0021	0.0210
Zn 206.200	2.7255	2.5984	1.6373

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.4566	ppb	0.1508	33.0	-63.9034
Al 308.215	1.9334	ppb	2.3788	123.0	254.689
As 188.980	-2.2608	ppb	3.3166	146.7	0.8438
B 249.678	-11.3972	ppb	0.8890	7.8	254.000
Ba 389.178	-0.5074	ppb	0.4945	97.5	-30.5142
Be 313.042	-0.0295	ppb	0.0047	16.0	-229.560
Ca 370.602	7.291	ppb	1.465	20.1	19.78
Cd 226.502	-0.0194	ppb	0.0803	413.8	12.3081
Co 228.615	0.0026	ppb	0.7783	29862.6	13.7318
Cr 267.716	-0.2028	ppb	0.1192	58.8	0.9252
Cu 324.754	0.3319	ppb	0.2904	87.5	123.769
Fe 271.441	4.8343	ppb	3.7677	77.9	10.5895
K 766.491	1.1550	ppb	0.5644	48.9	281.958
Mg 279.078	3.4504	ppb	2.0151	58.4	28.8301
Mn 257.610	0.0579	ppb	0.0199	34.4	84.8129
Mo 202.032	-0.9610	ppb	0.1726	18.0	9.0738
Na 330.237	133.691	ppb	111.298	83.2	2.9709
Ni 231.604	0.7654	ppb	0.7486	97.8	2.7590
Pb 220.353	-0.4484	ppb	2.2492	501.7	1.7553
Sb 206.834	1.9711	ppb	1.2287	62.3	3.1784
Se 196.026	-0.2951	ppb	4.2476	1439.5	0.0321
Sn 189.925	-0.9183	ppb	0.6797	74.0	0.1195
Sr 216.596	-0.3743	ppb	0.1628	43.5	6.9738
Ti 334.941	-0.1806	ppb	0.0320	17.7	-76.1347
Tl 190.794	-0.3184	ppb	1.8138	569.7	-0.4686
V 292.401	0.2163	ppb	0.3584	165.7	0.4203
Zn 206.200	2.3204	ppb	0.5950	25.6	6.2823

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ics 680-270772/2-b (Samp)      3/27/2013, 4:28:34 PM      Rack 1, Tube 4  
 Weight: 1      Volume: 1      Dilution: 1

Label	Replicates Concentration		
Ag 328.068	10.6181	9.5626	10.5068
Al 308.215	4834.60	4832.24	4824.30
As 188.980	103.796	97.7709	103.594
B 249.678	178.809	179.501	181.831
Ba 389.178	99.0608	100.319	99.5522
Be 313.042	50.3404	50.2226	50.1531
Ca 370.602	4823	4803	4802
Cd 226.502	50.5893	50.6498	50.5891
Co 228.615	49.8963	51.0252	50.3524
Cr 267.716	100.173	99.4565	100.199
Cu 324.754	100.596	97.9291	98.0428
Fe 271.441	4935.93	4934.23	4922.29
K 766.491	4975.97	4972.71	4969.58
Mg 279.078	4941.30	4933.62	4917.87
Mn 257.610	506.795	505.556	504.661
Mo 202.032	98.3667	98.4466	98.7440
Na 330.237	4738.57	4953.73	4674.74
Ni 231.604	100.414	101.565	99.0135
Pb 220.353	48.6425	48.5454	51.5140
Sb 206.834	49.4046	53.3834	43.2472
Se 196.026	98.0211	85.6817	99.6753
Sn 189.925	201.113	196.284	194.424
Sr 216.596	100.229	101.012	101.742
Ti 334.941	99.4175	99.0416	99.1894
Tl 190.794	37.9587	37.6613	37.2082
V 292.401	100.402	100.445	100.533
Zn 206.200	99.6731	99.3553	96.3235

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	10.2291	ppb	0.5799	5.7	681.427
Al 308.215	4830.38	ppb	5.3951	0.1	27911.1
As 188.980	101.720	ppb	3.4216	3.4	57.2645
B 249.678	180.047	ppb	1.5832	0.9	2002.95
Ba 389.178	99.6440	ppb	0.6341	0.6	2387.18
Be 313.042	50.2387	ppb	0.0947	0.2	97066.7
Ca 370.602	4809	ppb	11.92	0.2	15146
Cd 226.502	50.6094	ppb	0.0350	0.1	1826.09
Co 228.615	50.4246	ppb	0.5679	1.1	589.681
Cr 267.716	99.9428	ppb	0.4214	0.4	4189.40
Cu 324.754	98.8560	ppb	1.5080	1.5	4883.75
Fe 271.441	4930.81	ppb	7.4332	0.2	8275.24
K 766.491	4972.75	ppb	3.1948	0.1	244283
Mg 279.078	4930.93	ppb	11.9455	0.2	10056.6
Mn 257.610	505.671	ppb	1.0717	0.2	114776
Mo 202.032	98.5191	ppb	0.1988	0.2	650.941
Na 330.237	4789.01	ppb	146.176	3.1	236.445
Ni 231.604	100.331	ppb	1.2778	1.3	238.202
Pb 220.353	49.5673	ppb	1.6866	3.4	82.0464
Sb 206.834	48.6784	ppb	5.1070	10.5	47.9588
Se 196.026	94.4594	ppb	7.6465	8.1	43.5905
Sn 189.925	197.274	ppb	3.4526	1.8	149.996
Sr 216.596	100.994	ppb	0.7566	0.7	959.330
Ti 334.941	99.2162	ppb	0.1894	0.2	25293.9
Tl 190.794	37.6094	ppb	0.3779	1.0	23.9316
V 292.401	100.460	ppb	0.0666	0.1	2733.68
Zn 206.200	98.4507	ppb	1.8490	1.9	151.883

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icsd 680-270772/3-b (Samp)      3/27/2013, 4:33:59 PM      Rack 1, Tube 5  
 Weight: 1      Volume: 1      Dilution: 1

Label	Replicates Concentration		
Ag 328.068	10.3406	10.0973	9.4986
Al 308.215	4870.60	4843.86	4876.32
As 188.980	104.698	97.0984	99.4124
B 249.678	179.372	180.140	183.725
Ba 389.178	100.628	100.078	99.5687
Be 313.042	50.6576	50.3695	50.7282
Ca 370.602	4857	4824	4842
Cd 226.502	50.6228	50.6996	51.1895
Co 228.615	50.0560	50.4521	50.3250
Cr 267.716	101.202	100.942	100.989
Cu 324.754	99.8806	100.932	97.0665
Fe 271.441	4973.01	4946.25	4978.13
K 766.491	4982.11	4964.48	5001.35
Mg 279.078	4956.72	4938.74	4978.98
Mn 257.610	510.595	508.290	511.591
Mo 202.032	99.3489	98.5777	99.8816
Na 330.237	4783.29	4796.38	4814.25
Ni 231.604	102.341	99.1222	100.047
Pb 220.353	52.4248	52.8654	50.7252
Sb 206.834	45.6639	45.5851	48.5821
Se 196.026	93.8074	95.0491	105.981
Sn 189.925	202.411	195.597	199.455
Sr 216.596	102.835	101.843	102.080
Ti 334.941	100.363	99.9055	100.562
Tl 190.794	41.5284	42.4422	35.9980
V 292.401	101.397	101.066	101.892
Zn 206.200	101.525	99.4796	100.636

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	9.9788	ppb	0.4333	4.3	663.919
Al 308.215	4863.59	ppb	17.3251	0.4	28101.3
As 188.980	100.403	ppb	3.8954	3.9	56.5493
B 249.678	181.079	ppb	2.3237	1.3	2012.38
Ba 389.178	100.092	ppb	0.5297	0.5	2398.00
Be 313.042	50.5851	ppb	0.1900	0.4	97737.3
Ca 370.602	4841	ppb	16.67	0.3	15245
Cd 226.502	50.8373	ppb	0.3074	0.6	1834.28
Co 228.615	50.2777	ppb	0.2022	0.4	588.020
Cr 267.716	101.044	ppb	0.1384	0.1	4235.46
Cu 324.754	99.2929	ppb	1.9985	2.0	4904.85
Fe 271.441	4965.80	ppb	17.1232	0.3	8333.87
K 766.491	4982.64	ppb	18.4396	0.4	244768
Mg 279.078	4958.15	ppb	20.1598	0.4	10112.0
Mn 257.610	510.159	ppb	1.6933	0.3	115794
Mo 202.032	99.2694	ppb	0.6556	0.7	655.782
Na 330.237	4797.97	ppb	15.5386	0.3	236.867
Ni 231.604	100.503	ppb	1.6574	1.6	238.610
Pb 220.353	52.0051	ppb	1.1302	2.2	85.9681
Sb 206.834	46.6103	ppb	1.7080	3.7	45.9960
Se 196.026	98.2793	ppb	6.6990	6.8	45.3424
Sn 189.925	199.155	ppb	3.4170	1.7	151.418
Sr 216.596	102.252	ppb	0.5179	0.5	971.191
Ti 334.941	100.277	ppb	0.3369	0.3	25564.6
Tl 190.794	39.9896	ppb	3.4868	8.7	25.4974
V 292.401	101.452	ppb	0.4158	0.4	2760.86
Zn 206.200	100.547	ppb	1.0257	1.0	155.061

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ics 680-270772/4-b (Samp)      3/27/2013, 4:39:23 PM      Rack 1, Tube 6  
 Weight: 1      Volume: 1      Dilution: 1

Label	Replicates Concentration		
Ag 328.068	202.369	201.997	202.556
Al 308.215	1913.88	1918.50	1910.37
As 188.980	193.073	212.439	209.127
B 249.678	374.593	378.741	380.102
Ba 389.178	192.560	194.284	192.857
Be 313.042	199.433	200.175	199.313
Ca 370.602	19260	19368	19291
Cd 226.502	196.052	196.512	195.702
Co 228.615	195.179	194.455	195.751
Cr 267.716	195.995	197.091	196.127
Cu 324.754	196.990	196.801	197.377
Fe 271.441	20307.5	20339.8	20249.8
K 766.491	19421.5	19498.9	19427.4
Mg 279.078	19632.1	19716.9	19621.3
Mn 257.610	2008.04	2016.83	2005.11
Mo 202.032	196.682	197.258	194.230
Na 330.237	17327.1	17082.8	17328.9
Ni 231.604	195.401	195.190	194.818
Pb 220.353	197.111	196.850	192.077
Sb 206.834	190.789	191.446	191.950
Se 196.026	197.742	199.186	191.051
Sn 189.925	202.247	204.944	191.784
Sr 216.596	211.083	210.652	210.663
Ti 334.941	197.337	198.670	197.713
Tl 190.794	55.3658	39.5284	47.5710
V 292.401	197.342	197.421	196.470
Zn 206.200	183.772	184.546	183.298

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	202.307	ppb	0.2846	0.1	14108.8
Al 308.215	1914.25	ppb	4.0808	0.2	11226.0
As 188.980	204.880	ppb	10.3579	5.1	113.217
B 249.678	377.812	ppb	2.8696	0.8	3800.25
Ba 389.178	193.234	ppb	0.9219	0.5	4689.70
Be 313.042	199.640	ppb	0.4672	0.2	386278
Ca 370.602	19307	ppb	55.79	0.3	60732
Cd 226.502	196.089	ppb	0.4063	0.2	7040.74
Co 228.615	195.128	ppb	0.6497	0.3	2243.75
Cr 267.716	196.404	ppb	0.5986	0.3	8229.07
Cu 324.754	197.056	ppb	0.2935	0.1	9631.07
Fe 271.441	20299.0	ppb	45.5612	0.2	34055.5
K 766.491	19449.3	ppb	43.0750	0.2	954775
Mg 279.078	19656.8	ppb	52.3319	0.3	40030.0
Mn 257.610	2009.99	ppb	6.0992	0.3	456014
Mo 202.032	196.057	ppb	1.6083	0.8	1279.81
Na 330.237	17246.3	ppb	141.590	0.8	863.091
Ni 231.604	195.137	ppb	0.2951	0.2	462.586
Pb 220.353	195.346	ppb	2.8339	1.5	316.721
Sb 206.834	191.395	ppb	0.5824	0.3	185.366
Se 196.026	195.993	ppb	4.3406	2.2	90.5135
Sn 189.925	199.658	ppb	6.9516	3.5	151.808
Sr 216.596	210.799	ppb	0.2461	0.1	1995.88
Ti 334.941	197.907	ppb	0.6876	0.3	50524.3
Tl 190.794	47.4884	ppb	7.9191	16.7	28.5276
V 292.401	197.078	ppb	0.5274	0.3	5367.89
Zn 206.200	183.872	ppb	0.6299	0.3	281.319

E03272013.vvq. All Data Report 3/28/2013, 2:04:12 PM

lcsd 680-270772/5-b (Samp)      3/27/2013, 4:44:49 PM      Rack 1, Tube 7  
 Weight: 1      Volume: 1      Dilution: 1

Label	Replicates Concentration		
Ag 328.068	202.814	205.928	208.252
Al 308.215	1945.31	1937.51	1944.34
As 188.980	214.613	213.762	207.214
B 249.678	385.152	386.155	389.855
Ba 389.178	196.173	196.040	195.725
Be 313.042	202.772	201.729	202.877
Ca 370.602	19644	19550	19668
Cd 226.502	199.111	198.054	197.998
Co 228.615	200.228	196.640	200.851
Cr 267.716	199.562	199.160	199.586
Cu 324.754	197.838	197.441	201.820
Fe 271.441	20661.9	20519.8	20650.1
K 766.491	19806.5	19673.3	19782.7
Mg 279.078	19990.7	19878.4	19981.0
Mn 257.610	2041.76	2030.32	2042.58
Mo 202.032	199.164	196.573	199.433
Na 330.237	17710.8	17498.7	17973.7
Ni 231.604	200.543	198.018	196.041
Pb 220.353	197.828	199.027	200.502
Sb 206.834	202.736	199.986	189.528
Se 196.026	179.082	195.353	194.403
Sn 189.925	196.334	198.725	195.580
Sr 216.596	213.940	212.683	214.459
Ti 334.941	200.557	200.165	201.248
Tl 190.794	43.2469	47.8191	46.8764
V 292.401	200.938	198.284	200.358
Zn 206.200	183.321	184.141	186.225

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	205.665	ppb	2.7281	1.3	14343.4
Al 308.215	1942.38	ppb	4.2524	0.2	11387.3
As 188.980	211.863	ppb	4.0483	1.9	117.008
B 249.678	387.054	ppb	2.4771	0.6	3884.62
Ba 389.178	195.979	ppb	0.2301	0.1	4756.65
Be 313.042	202.459	ppb	0.6345	0.3	391735
Ca 370.602	19620	ppb	62.20	0.3	61721
Cd 226.502	198.388	ppb	0.6273	0.3	7123.29
Co 228.615	199.239	ppb	2.2726	1.1	2290.77
Cr 267.716	199.436	ppb	0.2393	0.1	8355.95
Cu 324.754	199.033	ppb	2.4216	1.2	9726.64
Fe 271.441	20610.6	ppb	78.8812	0.4	34578.2
K 766.491	19754.2	ppb	71.0664	0.4	969739
Mg 279.078	19950.0	ppb	62.2470	0.3	40626.8
Mn 257.610	2038.22	ppb	6.8533	0.3	462417
Mo 202.032	198.390	ppb	1.5793	0.8	1294.85
Na 330.237	17727.7	ppb	237.981	1.3	887.420
Ni 231.604	198.201	ppb	2.2563	1.1	469.835
Pb 220.353	199.119	ppb	1.3390	0.7	322.791
Sb 206.834	197.417	ppb	6.9688	3.5	191.147
Se 196.026	189.613	ppb	9.1321	4.8	87.5965
Sn 189.925	196.880	ppb	1.6420	0.8	149.707
Sr 216.596	213.694	ppb	0.9129	0.4	2023.15
Ti 334.941	200.656	ppb	0.5483	0.3	51226.8
Tl 190.794	45.9808	ppb	2.4141	5.3	27.4962
V 292.401	199.860	ppb	1.3952	0.7	5443.86
Zn 206.200	184.562	ppb	1.4972	0.8	282.359

E03272013.vvq. All Data Report 3/28/2013, 2:04:12 PM

680-88519-c-3-j (Samp)                      3/27/2013, 4:50:25 PM                      Rack 1, Tube 8  
 Weight: 1                                      Volume: 1                                      Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-2.0964u	-1.1858u	-1.9085u
Al 308.215	9307.02	9327.05	9334.49
As 188.980	-6.7015u	0.2053	-1.9641u
B 249.678	515.836	520.361	525.073
Ba 389.178	75.2893	74.0306	74.4961
Be 313.042	0.1587	0.1663	0.1738
Ca 370.602	114817	115284	115269
Cd 226.502	-0.1572	-0.1541	-0.0728
Co 228.615	1.1400	1.8734	1.0647
Cr 267.716	10.8462	10.9649	10.9201
Cu 324.754	6.5036	6.4950	6.3848
Fe 271.441	5280.31	5295.04	5259.37
K 766.491	12017.5	12003.0	11990.4
Mg 279.078	12022.7	12048.2	12062.7
Mn 257.610	844.461	846.221	845.762
Mo 202.032	0.0629	0.7214	0.8607
Na 330.237	19919.5	19753.6	19467.7
Ni 231.604	12.9630	15.8408	14.9874
Pb 220.353	6.5600	6.3869	9.9611
Sb 206.834	-4.2888u	2.9072	-1.7839u
Se 196.026	4.7323	0.9728	-1.7436u
Sn 189.925	-2.5388u	-0.2707u	2.9187
Sr 216.596	460.663	464.128	464.391
Ti 334.941	155.436	156.807	158.606
Tl 190.794	4.3704	1.6243	3.9726
V 292.401	12.1406	12.1810	11.8646
Zn 206.200	21.8909	21.9367	22.2200

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.7302	ppb	0.4808	27.8	-168.942
Al 308.215	9322.85	ppb	14.2103	0.2	53621.4
As 188.980	-2.8201	ppb	3.5321	125.2	1.3387
B 249.678	520.423	ppb	4.6187	0.9	5120.21
Ba 389.178	74.6053	ppb	0.6364	0.9	1807.10
Be 313.042	0.1662	ppb	0.0076	4.5	186.336
Ca 370.602	115123	ppb	265.5	0.2	371221
Cd 226.502	-0.1280	ppb	0.0479	37.4	20.7194
Co 228.615	1.3594	ppb	0.4468	32.9	33.0883
Cr 267.716	10.9104	ppb	0.0600	0.5	470.322
Cu 324.754	6.4611	ppb	0.0663	1.0	421.129
Fe 271.441	5278.24	ppb	17.9280	0.3	8849.23
K 766.491	12003.6	ppb	13.5879	0.1	589350
Mg 279.078	12044.5	ppb	20.2662	0.2	24538.9
Mn 257.610	845.481	ppb	0.9132	0.1	191872
Mo 202.032	0.5483	ppb	0.4261	77.7	18.5631
Na 330.237	19713.6	ppb	228.544	1.2	994.345
Ni 231.604	14.5971	ppb	1.4780	10.1	35.5554
Pb 220.353	7.6360	ppb	2.0155	26.4	14.6896
Sb 206.834	-1.0552	ppb	3.6529	346.2	0.4885
Se 196.026	1.3205	ppb	3.2519	246.3	0.9808
Sn 189.925	0.0364	ppb	2.7417	7533.0	0.8913
Sr 216.596	463.060	ppb	2.0807	0.4	4383.80
Ti 334.941	156.950	ppb	1.5898	1.0	40046.2
Tl 190.794	3.3224	ppb	1.4840	44.7	0.9411
V 292.401	12.0620	ppb	0.1722	1.4	327.672
Zn 206.200	22.0159	ppb	0.1782	0.8	37.0412



E03272013.wvq. All Data Report 3/28/2013, 2:04:12 PM

680-88519-d-4-1 (Samp)                      3/27/2013, 4:55:51 PM                      Rack 1, Tube 9  
 Weight: 1                                      Volume: 1                                      Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-1.0733u	-0.3161u	-0.6409u
Al 308.215	10205.3	10226.4	10230.2
As 188.980	3.1737	-0.6256u	-7.4184u
B 249.678	186.946	186.511	186.519
Ba 389.178	62.5008	62.6857	63.7213
Be 313.042	0.0550	0.0692	0.0666
Ca 370.602	37384	37372	37529
Cd 226.502	-0.4817	-0.1287	-0.1075
Co 228.615	1.9804	1.7443	1.5441
Cr 267.716	13.4075	12.9211	13.0931
Cu 324.754	5.3721	6.1491	5.0972
Fe 271.441	8685.50	8703.59	8695.21
K 766.491	9972.44	9930.28	9915.04
Mg 279.078	7465.10	7476.23	7494.06
Mn 257.610	349.526	349.638	349.856
Mo 202.032	-0.7980u	-0.8190u	-0.6772u
Na 330.237	10304.1	10456.4	10257.4
Ni 231.604	11.1586	10.8970	11.2881
Pb 220.353	4.3564	6.2765	5.2388
Sb 206.834	0.8877	0.7309	1.8097
Se 196.026	-0.5945u	7.0779	-3.9593u
Sn 189.925	1.2640	-4.9969u	-1.6557u
Sr 216.596	226.294	226.264	228.650
Ti 334.941	156.300	156.184	156.624
Tl 190.794	3.2444	5.0814	2.4982
V 292.401	22.8854	22.6335	23.1441
Zn 206.200	10.5207	13.3329	12.8609

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.6768	ppb	0.3799	56.1	-87.3385
Al 308.215	10220.6	ppb	13.3656	0.1	58761.1
As 188.980	-1.6234	ppb	5.3661	330.5	1.3879
B 249.678	186.659	ppb	0.2484	0.1	2060.09
Ba 389.178	62.9692	ppb	0.6578	1.0	1521.32
Be 313.042	0.0636	ppb	0.0076	11.9	-38.2936
Ca 370.602	37428	ppb	87.43	0.2	120134
Cd 226.502	-0.2393	ppb	0.2102	87.8	24.6839
Co 228.615	1.7563	ppb	0.2184	12.4	37.5740
Cr 267.716	13.1406	ppb	0.2466	1.9	562.160
Cu 324.754	5.5395	ppb	0.5456	9.8	377.456
Fe 271.441	8694.77	ppb	9.0551	0.1	14575.4
K 766.491	9939.25	ppb	29.7342	0.3	488033
Mg 279.078	7478.46	ppb	14.6062	0.2	15246.9
Mn 257.610	349.674	ppb	0.1681	0.0	79427.2
Mo 202.032	-0.7648	ppb	0.0766	10.0	9.9148
Na 330.237	10339.3	ppb	104.058	1.0	517.374
Ni 231.604	11.1146	ppb	0.1992	1.8	27.3878
Pb 220.353	5.2906	ppb	0.9611	18.2	10.7987
Sb 206.834	1.1428	ppb	0.5829	51.0	2.7055
Se 196.026	0.8413	ppb	5.6570	672.4	0.6568
Sn 189.925	-1.7962	ppb	3.1328	174.4	-0.5270
Sr 216.596	227.069	ppb	1.3686	0.6	2155.51
Ti 334.941	156.369	ppb	0.2277	0.1	39880.5
Tl 190.794	3.6080	ppb	1.3295	36.8	1.4980
V 292.401	22.8877	ppb	0.2553	1.1	625.646
Zn 206.200	12.2382	ppb	1.5060	12.3	21.5839

E03272013.wvq. All Data Report 3/28/2013, 2:04:12 PM

680-88519-d-4-1SD^5 (Samp) 3/27/2013, 5:01:17 PM Rack 1, Tube 10

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.4328u	-0.5391u	-0.9279u
Al 308.215	2170.84	2174.87	2169.17
As 188.980	-9.6345u	-6.3778u	-2.5960u
B 249.678	21.2615	19.5809	20.9435
Ba 389.178	13.0975	12.3351	12.5381
Be 313.042	-0.0227u	-0.0274u	-0.0179u
Ca 370.602	8062	8054	8017
Cd 226.502	-0.0414	-0.0426	-0.0117
Co 228.615	0.9831	-0.5156u	0.6894
Cr 267.716	2.8020	2.6615	2.6798
Cu 324.754	1.4299	1.0723	0.7724
Fe 271.441	1879.49	1888.22	1888.01
K 766.491	2070.56	2076.81	2063.66
Mg 279.078	1621.46	1624.61	1618.73
Mn 257.610	74.6869	75.0442	74.7659
Mo 202.032	-0.2553u	-0.9851u	-1.4500u
Na 330.237	2221.53	2231.80	2421.38
Ni 231.604	3.5139	3.1707	3.0701
Pb 220.353	-0.3535u	2.1758	0.5172
Sb 206.834	-5.1020u	-5.0796u	1.6813
Se 196.026	2.3684	-13.1231u	-1.8566u
Sn 189.925	-1.1867u	-1.4284u	-4.3855u
Sr 216.596	49.4271	47.9916	48.1889
Ti 334.941	32.9964	33.5424	33.0120
Tl 190.794	-0.4302u	1.2238	-1.4691u
V 292.401	4.9291	5.2087	5.0863
Zn 206.200	1.2078	1.2919	3.1286

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.6333	ppb	0.2607	41.2	-78.0024
Al 308.215	2171.63	ppb	2.9299	0.1	12677.1
As 188.980	-6.2028	ppb	3.5225	56.8	-1.2540
B 249.678	20.5953	ppb	0.8928	4.3	545.310
Ba 389.178	12.6569	ppb	0.3949	3.1	291.616
Be 313.042	-0.0227	ppb	0.0047	20.9	-214.109
Ca 370.602	8044	ppb	24.02	0.3	25816
Cd 226.502	-0.0319	ppb	0.0175	54.8	16.2307
Co 228.615	0.3856	ppb	0.7942	206.0	18.9130
Cr 267.716	2.7145	ppb	0.0764	2.8	123.612
Cu 324.754	1.0915	ppb	0.3292	30.2	160.936
Fe 271.441	1885.24	ppb	4.9813	0.3	3162.25
K 766.491	2070.34	ppb	6.5784	0.3	101836
Mg 279.078	1621.60	ppb	2.9421	0.2	3323.18
Mn 257.610	74.8323	ppb	0.1877	0.3	17054.4
Mo 202.032	-0.8968	ppb	0.6022	67.2	9.3965
Na 330.237	2291.57	ppb	112.533	4.9	111.738
Ni 231.604	3.2516	ppb	0.2327	7.2	8.6716
Pb 220.353	0.7798	ppb	1.2849	164.8	3.6909
Sb 206.834	-2.8334	ppb	3.9099	138.0	-1.3421
Se 196.026	-4.2038	ppb	8.0081	190.5	-1.7371
Sn 189.925	-2.3336	ppb	1.7812	76.3	-0.9470
Sr 216.596	48.5359	ppb	0.7781	1.6	469.002
Ti 334.941	33.1836	ppb	0.3108	0.9	8439.60
Tl 190.794	-0.2252	ppb	1.3581	603.2	-0.5415
V 292.401	5.0747	ppb	0.1401	2.8	134.365
Zn 206.200	1.8761	ppb	1.0855	57.9	5.6620

E03272013.vvq. All Data Report 3/28/2013, 2:04:12 PM

680-88519-d-4-IPDS (Samp) 3/27/2013, 5:06:44 PM Rack 1, Tube 11

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	50.9705	49.9289	48.6757
Al 308.215	12034.0	11994.9	12057.3
As 188.980	2157.66	2171.86	2178.74
B 249.678	1223.48	1228.98	1242.12
Ba 389.178	2118.88	2112.01	2117.53
Be 313.042	50.9883	50.8998	50.9710
Ca 370.602	41752	41689	41727
Cd 226.502	50.6935	50.4630	50.6018
Co 228.615	513.057	513.710	514.045
Cr 267.716	216.220	215.542	215.774
Cu 324.754	260.184	259.118	257.375
Fe 271.441	9469.22	9476.46	9491.94
K 766.491	14711.6	14688.8	14715.7
Mg 279.078	12478.7	12465.8	12484.3
Mn 257.610	856.298	855.285	857.114
Mo 202.032	511.059	511.694	513.074
Na 330.237	15221.9	15195.8	15438.7
Ni 231.604	516.617	515.963	518.459
Pb 220.353	511.396	506.205	509.608
Sb 206.834	499.615	509.785	511.673
Se 196.026	2043.17	2055.13	2045.38
Sn 189.925	1042.33	1037.11	1041.42
Sr 216.596	739.476	737.787	737.234
Ti 334.941	1173.00	1173.73	1170.73
Tl 190.794	2073.74	2097.60	2094.37
V 292.401	530.564	530.328	531.512
Zn 206.200	510.212	507.307	507.451

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	49.8584	ppb	1.1490	2.3	3428.50
Al 308.215	12028.7	ppb	31.4869	0.3	69171.8
As 188.980	2169.42	ppb	10.7492	0.5	1179.98
B 249.678	1231.53	ppb	9.5785	0.8	11629.4
Ba 389.178	2116.14	ppb	3.6391	0.2	50667.4
Be 313.042	50.9530	ppb	0.0469	0.1	98377.9
Ca 370.602	41723	ppb	31.80	0.1	134135
Cd 226.502	50.5861	ppb	0.1161	0.2	1835.95
Co 228.615	513.604	ppb	0.5024	0.1	5900.47
Cr 267.716	215.845	ppb	0.3444	0.2	9035.32
Cu 324.754	258.892	ppb	1.4185	0.5	12618.7
Fe 271.441	9479.21	ppb	11.6040	0.1	15972.8
K 766.491	14705.4	ppb	14.4995	0.1	721948
Mg 279.078	12476.3	ppb	9.4949	0.1	25418.0
Mn 257.610	856.232	ppb	0.9161	0.1	194323
Mo 202.032	511.942	ppb	1.0301	0.2	3319.12
Na 330.237	15285.5	ppb	133.304	0.9	756.906
Ni 231.604	517.013	ppb	1.2943	0.3	1223.22
Pb 220.353	509.070	ppb	2.6371	0.5	820.009
Sb 206.834	507.024	ppb	6.4855	1.3	481.722
Se 196.026	2047.89	ppb	6.3613	0.3	939.003
Sn 189.925	1040.28	ppb	2.7895	0.3	787.497
Sr 216.596	738.165	ppb	1.1683	0.2	6946.49
Ti 334.941	1172.49	ppb	1.5655	0.1	299043
Tl 190.794	2088.57	ppb	12.9470	0.6	1377.41
V 292.401	530.801	ppb	0.6267	0.1	14499.4
Zn 206.200	508.323	ppb	1.6371	0.3	773.742

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mb 680-270763/1-a (Samp) 3/27/2013, 5:12:10 PM Rack 1, Tube 12

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.5121u	-0.9555u	-0.3649u
Al 308.215	5.5651	3.1778	0.3881
As 188.980	-7.3553u	-4.4157u	-3.8953u
B 249.678	-0.1022u	-1.5530u	-6.1580u
Ba 389.178	-0.9050u	-0.5589u	-0.8095u
Be 313.042	-0.0421u	-0.0311u	-0.0377u
Ca 370.602	2.734	2.560	2.373
Cd 226.502	-0.1933u	-0.0888u	-0.1033u
Co 228.615	0.0645	0.2784	-0.1317u
Cr 267.716	-0.2749u	-0.2067u	-0.0574u
Cu 324.754	-0.0826u	0.0062	-0.0200u
Fe 271.441	-1.1447u	1.2648	-3.8387u
K 766.491	-0.1202u	-0.0150u	0.0026
Mg 279.078	-0.2368u	1.8473	-2.1849u
Mn 257.610	-0.1651u	-0.1196u	-0.1081u
Mo 202.032	0.2592	-1.1587u	-0.4818u
Na 330.237	381.941	241.043	200.870
Ni 231.604	1.2732	1.1241	0.6114
Pb 220.353	1.6100	3.8955	-0.5536u
Sb 206.834	-1.0759u	0.3339	-6.1791u
Se 196.026	-0.7244u	-2.3008u	-2.1356u
Sn 189.925	-1.7744u	-0.7561u	-0.4948u
Sr 216.596	0.1994	-0.4123u	-0.4699u
Ti 334.941	0.1626	0.0281	0.0188
Tl 190.794	7.1313	0.6074	1.9049
V 292.401	-0.0670u	0.1233	-0.1037u
Zn 206.200	1.5299	1.3338	1.5954

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.6108	ppb	0.3074	50.3	-74.7064
Al 308.215	3.0437	ppb	2.5911	85.1	261.111
As 188.980	-5.2221	ppb	1.8657	35.7	-0.7641
B 249.678	-2.6044	ppb	3.1618	121.4	334.534
Ba 389.178	-0.7578	ppb	0.1787	23.6	-36.5111
Be 313.042	-0.0370	ppb	0.0055	15.0	-244.158
Ca 370.602	2.556	ppb	0.1804	7.1	4.422
Cd 226.502	-0.1284	ppb	0.0566	44.1	8.4292
Co 228.615	0.0704	ppb	0.2051	291.3	14.4966
Cr 267.716	-0.1797	ppb	0.1112	61.9	1.8939
Cu 324.754	-0.0321	ppb	0.0456	142.0	106.205
Fe 271.441	-1.2395	ppb	2.5530	206.0	0.3862
K 766.491	-0.0442	ppb	0.0664	150.1	223.104
Mg 279.078	-0.1915	ppb	2.0165	1053.1	21.4153
Mn 257.610	-0.1309	ppb	0.0302	23.0	41.9751
Mo 202.032	-0.4604	ppb	0.7092	154.0	12.3063
Na 330.237	274.618	ppb	95.0898	34.6	10.1309
Ni 231.604	1.0029	ppb	0.3472	34.6	3.3205
Pb 220.353	1.6506	ppb	2.2248	134.8	5.1315
Sb 206.834	-2.3070	ppb	3.4266	148.5	-0.9136
Se 196.026	-1.7203	ppb	0.8664	50.4	-0.6211
Sn 189.925	-1.0084	ppb	0.6761	67.0	0.0514
Sr 216.596	-0.2276	ppb	0.3709	163.0	8.3616
Ti 334.941	0.0698	ppb	0.0805	115.2	-12.2888
Tl 190.794	3.2145	ppb	3.4535	107.4	1.8633
V 292.401	-0.0158	ppb	0.1219	772.0	-6.0474
Zn 206.200	1.4864	ppb	0.1361	9.2	5.0168

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Cont Calib Verif (CCV) 3/27/2013, 5:17:46 PM Rack 1, Tube 13  
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	499.634	502.378	499.685
Al 308.215	5003.93	5005.05	4971.62
As 188.980	465.447	477.404	465.246
B 249.678	2521.21	2546.81	2550.80
Ba 389.178	4943.28	4942.58	4915.77
Be 313.042	494.185	494.391	489.756
Ca 370.602	4957	4963	4929
Cd 226.502	494.230	495.383	491.708
Co 228.615	498.731	500.300	497.872
Cr 267.716	4960.93	4962.46	4915.30
Cu 324.754	4820.95	4883.91	4801.17
Fe 271.441	4991.25	4987.58	4947.03
K 766.491	10113.3	10122.6	10085.4
Mg 279.078	4963.44	4961.48	4916.30
Mn 257.610	4982.57	4973.62	4943.76
Mo 202.032	491.459	491.327	487.971
Na 330.237	7527.30	7302.29	7309.40
Ni 231.604	2492.99	2491.68	2473.14
Pb 220.353	490.261	494.715	490.281
Sb 206.834	921.733	927.232	922.322
Se 196.026	4921.42	4950.94	4880.31
Sn 189.925	5021.78	5056.92	5017.05
Sr 216.596	2487.52	2496.12	2469.78
Ti 334.941	497.989	498.912	494.603
Tl 190.794	5012.18	4992.55	4961.26
V 292.401	4950.73	4953.35	4916.51
Zn 206.200	2465.99	2467.11	2462.29

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	500.565	ppb	1.5697	0.3	34900.7	100.11308
Al 308.215	4993.53	ppb	18.9839	0.4	28810.9	99.87067
As 188.980	469.366	ppb	6.9622	1.5	256.774	93.87319
B 249.678	2539.61	ppb	16.0566	0.6	23614.4	101.58434
Ba 389.178	4933.88	ppb	15.6827	0.3	118072	98.67759
Be 313.042	492.777	ppb	2.6185	0.5	953539	98.55547
Ca 370.602	4950	ppb	18.37	0.4	15839	98.99115
Cd 226.502	493.774	ppb	1.8797	0.4	17602.1	98.75471
Co 228.615	498.968	ppb	1.2311	0.2	5729.06	99.79353
Cr 267.716	4946.23	ppb	26.7981	0.5	206759	98.92464
Cu 324.754	4835.34	ppb	43.2081	0.9	233533	96.70686
Fe 271.441	4975.29	ppb	24.5381	0.5	8462.07	99.50576
K 766.491	10107.1	ppb	19.3523	0.2	496272	101.07121
Mg 279.078	4947.07	ppb	26.6715	0.5	10020.4	98.94147
Mn 257.610	4966.65	ppb	20.3198	0.4	1126333	99.33304
Mo 202.032	490.252	ppb	1.9768	0.4	3171.89	98.05048
Na 330.237	7379.66	ppb	127.907	1.7	347.571	98.39552
Ni 231.604	2485.94	ppb	11.1006	0.4	5877.20	99.43756
Pb 220.353	491.752	ppb	2.5654	0.5	793.517	98.35049
Sb 206.834	923.762	ppb	3.0191	0.3	928.166	92.37621
Se 196.026	4917.56	ppb	35.4713	0.7	2255.19	98.35117
Sn 189.925	5031.92	ppb	21.7778	0.4	3805.96	100.63837
Sr 216.596	2484.47	ppb	13.4328	0.5	23361.3	99.37897
Ti 334.941	497.168	ppb	2.2691	0.5	126784	99.43361
Tl 190.794	4988.66	ppb	25.6812	0.5	3289.32	99.77325
V 292.401	4940.19	ppb	20.5541	0.4	135487	98.80389
Zn 206.200	2465.13	ppb	2.5186	0.1	3728.56	98.60520

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Cont Calib Blank (CCB)                      3/27/2013, 5:23:10 PM                      Rack 1, Tube 14  
 Weight: 1    Volume: 1    Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.3753u	-0.4924u	-0.7368u
Al 308.215	0.7271	0.0802	3.4127
As 188.980	-6.9182u	-6.5956u	-5.4397u
B 249.678	37.6441	30.1219	26.6782
Ba 389.178	-0.5621u	0.4199	0.0991
Be 313.042	-0.0415u	-0.0287u	-0.0237u
Ca 370.602	3.817	2.946	2.457
Cd 226.502	-0.1032u	-0.0995u	-0.0770u
Co 228.615	0.2586	-0.0333u	0.0599
Cr 267.716	-0.1653u	-0.1541u	-0.2011u
Cu 324.754	-0.1103u	0.1574	-0.5752u
Fe 271.441	4.7461	-1.3219u	-3.2899u
K 766.491	-0.2325u	-0.1739u	-0.2713u
Mg 279.078	-0.5465u	-4.9859u	3.1009
Mn 257.610	-0.1233u	-0.0533u	-0.0431u
Mo 202.032	-0.1087u	-0.9760u	0.0612
Na 330.237	-118.516u	39.5928	318.019
Ni 231.604	-0.2161u	-0.0590u	0.9040
Pb 220.353	0.3100	-0.3820u	5.1511
Sb 206.834	1.9985	4.0420	5.7009
Se 196.026	-3.0806u	7.4510	3.4100
Sn 189.925	0.2010	-4.6706u	-2.2652u
Sr 216.596	-0.3054u	0.6318	0.3425
Ti 334.941	-0.0391u	-0.0535u	-0.1722u
Tl 190.794	4.3419	-4.4563u	3.0640
V 292.401	0.2706	0.2400	0.3666
Zn 206.200	0.8298	0.8912	1.1438

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	-0.5349	ppb	0.1844	34.5	-69.3949	-0.53486
Al 308.215	1.4066	ppb	1.7671	125.6	251.709	1.40664
As 188.980	-6.3178	ppb	0.7774	12.3	-1.3589	-6.31781
B 249.678	31.4814	ppb	5.6080	17.8	646.732	31.48139
Ba 389.178	-0.0143	ppb	0.5008	3490.3	-18.7280	-0.01435
Be 313.042	-0.0313	ppb	0.0092	29.4	-233.142	-0.03128
Ca 370.602	3.074	ppb	0.6891	22.4	6.316	3.07356
Cd 226.502	-0.0933	ppb	0.0142	15.2	9.6755	-0.09326
Co 228.615	0.0951	ppb	0.1491	156.8	14.7829	0.09508
Cr 267.716	-0.1735	ppb	0.0246	14.2	2.1450	-0.17351
Cu 324.754	-0.1760	ppb	0.3707	210.6	99.2498	-0.17601
Fe 271.441	0.0448	ppb	4.1887	9353.7	2.6418	0.04478
K 766.491	-0.2259	ppb	0.0490	21.7	214.188	-0.22588
Mg 279.078	-0.8105	ppb	4.0499	499.7	20.1534	-0.81052
Mn 257.610	-0.0732	ppb	0.0437	59.6	55.0478	-0.07325
Mo 202.032	-0.3412	ppb	0.5563	163.1	13.0755	-0.34119
Na 330.237	79.6986	ppb	221.013	277.3	0.2403	79.69857
Ni 231.604	0.2096	ppb	0.6064	289.3	1.4453	0.20960
Pb 220.353	1.6930	ppb	3.0147	178.1	5.1998	1.69303
Sb 206.834	3.9138	ppb	1.8545	47.4	5.0306	3.91378
Se 196.026	2.5935	ppb	5.3131	204.9	1.3560	2.59350
Sn 189.925	-2.2449	ppb	2.4358	108.5	-0.8837	-2.24495
Sr 216.596	0.2230	ppb	0.4799	215.2	12.6024	0.22298
Ti 334.941	-0.0883	ppb	0.0731	82.8	-52.6018	-0.08828
Tl 190.794	0.9832	ppb	4.7538	483.5	0.3909	0.98321
V 292.401	0.2924	ppb	0.0660	22.6	2.4572	0.29240
Zn 206.200	0.9549	ppb	0.1664	17.4	4.2102	0.95495

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ics 680-270763/2-a (Samp)      3/27/2013, 5:28:34 PM      Rack 1, Tube 15  
 Weight: 1      Volume: 1      Dilution: 1

Label	Replicates Concentration		
Ag 328.068	8.5911	8.9950	9.8657
Al 308.215	4705.69	4673.56	4687.87
As 188.980	91.3793	93.7428	92.7172
B 249.678	185.926	185.506	185.425
Ba 389.178	97.2508	96.2331	96.4185
Be 313.042	49.1350	48.7366	48.9055
Ca 370.602	4692	4650	4669
Cd 226.502	49.3840	48.7861	49.0742
Co 228.615	49.3428	48.7392	49.1163
Cr 267.716	98.2863	97.4082	98.0656
Cu 324.754	97.2212	95.5066	97.1304
Fe 271.441	4826.59	4773.03	4787.23
K 766.491	4792.86	4761.51	4791.39
Mg 279.078	4799.89	4769.44	4782.99
Mn 257.610	495.023	491.358	492.693
Mo 202.032	96.7749	96.0806	98.1384
Na 330.237	4542.39	4341.15	4306.27
Ni 231.604	96.9744	97.4355	95.1027
Pb 220.353	45.6827	48.1470	46.1987
Sb 206.834	44.8105	46.3065	50.9062
Se 196.026	92.2663	99.6653	98.2817
Sn 189.925	196.665	192.430	193.029
Sr 216.596	98.9584	97.8032	98.7269
Ti 334.941	96.9502	96.4445	96.7765
Tl 190.794	40.8150	42.2959	41.0336
V 292.401	98.1927	98.0161	97.9301
Zn 206.200	94.6582	94.0644	98.5898

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	9.1506	ppb	0.6514	7.1	606.089
Al 308.215	4689.04	ppb	16.0950	0.3	27101.7
As 188.980	92.6131	ppb	1.1852	1.3	52.3209
B 249.678	185.619	ppb	0.2691	0.1	2054.11
Ba 389.178	96.6341	ppb	0.5420	0.6	2314.54
Be 313.042	48.9257	ppb	0.2000	0.4	94525.3
Ca 370.602	4670	ppb	20.71	0.4	14709
Cd 226.502	49.0814	ppb	0.2990	0.6	1771.38
Co 228.615	49.0661	ppb	0.3049	0.6	574.152
Cr 267.716	97.9200	ppb	0.4568	0.5	4104.78
Cu 324.754	96.6194	ppb	0.9648	1.0	4775.69
Fe 271.441	4795.62	ppb	27.7481	0.6	8048.40
K 766.491	4781.92	ppb	17.6903	0.4	234917
Mg 279.078	4784.11	ppb	15.2566	0.3	9757.78
Mn 257.610	493.025	ppb	1.8552	0.4	111907
Mo 202.032	96.9979	ppb	1.0469	1.1	641.131
Na 330.237	4396.60	ppb	127.451	2.9	216.595
Ni 231.604	96.5042	ppb	1.2354	1.3	229.154
Pb 220.353	46.6762	ppb	1.2997	2.8	77.3992
Sb 206.834	47.3410	ppb	3.1768	6.7	46.6765
Se 196.026	96.7377	ppb	3.9337	4.1	44.6315
Sn 189.925	194.041	ppb	2.2919	1.2	147.551
Sr 216.596	98.4961	ppb	0.6112	0.6	935.859
Ti 334.941	96.7237	ppb	0.2570	0.3	24657.6
Tl 190.794	41.3815	ppb	0.7994	1.9	26.4376
V 292.401	98.0463	ppb	0.1339	0.1	2667.76
Zn 206.200	95.7708	ppb	2.4593	2.6	147.822

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ics 680-270763/3-a (Samp)      3/27/2013, 5:33:58 PM      Rack 1, Tube 16  
 Weight: 1      Volume: 1      Dilution: 1

Label	Replicates Concentration		
Ag 328.068	205.105	206.023	203.254
Al 308.215	1946.91	1954.00	1945.86
As 188.980	202.791	208.708	208.648
B 249.678	389.125	392.727	392.973
Ba 389.178	196.243	197.470	195.923
Be 313.042	203.353	203.950	203.195
Ca 370.602	19655	19715	19604
Cd 226.502	198.228	198.991	199.329
Co 228.615	198.510	199.121	199.186
Cr 267.716	200.586	201.437	200.545
Cu 324.754	201.034	202.432	200.533
Fe 271.441	20695.0	20763.5	20670.7
K 766.491	19687.9	19711.0	19673.0
Mg 279.078	20024.7	20058.7	20003.3
Mn 257.610	2052.02	2057.23	2047.89
Mo 202.032	198.204	199.339	199.146
Na 330.237	17149.4	17424.5	17443.3
Ni 231.604	198.240	200.034	200.484
Pb 220.353	199.766	199.667	201.926
Sb 206.834	195.736	194.360	194.420
Se 196.026	196.633	202.055	192.205
Sn 189.925	201.458	202.581	198.525
Sr 216.596	214.168	214.423	212.997
Ti 334.941	201.103	201.979	201.188
Tl 190.794	49.2352	51.3106	52.1833
V 292.401	201.411	202.157	200.638
Zn 206.200	185.187	188.117	187.109

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	204.794	ppb	1.4102	0.7	14282.6
Al 308.215	1948.92	ppb	4.4265	0.2	11424.9
As 188.980	206.716	ppb	3.3989	1.6	114.213
B 249.678	391.608	ppb	2.1542	0.6	3926.25
Ba 389.178	196.546	ppb	0.8169	0.4	4770.56
Be 313.042	203.499	ppb	0.3986	0.2	393748
Ca 370.602	19658	ppb	55.80	0.3	61835
Cd 226.502	198.849	ppb	0.5642	0.3	7139.94
Co 228.615	198.939	ppb	0.3730	0.2	2287.34
Cr 267.716	200.856	ppb	0.5038	0.3	8415.35
Cu 324.754	201.333	ppb	0.9842	0.5	9837.71
Fe 271.441	20709.7	ppb	48.1285	0.2	34744.5
K 766.491	19690.7	ppb	19.1321	0.1	966622
Mg 279.078	20028.9	ppb	27.9232	0.1	40787.3
Mn 257.610	2052.38	ppb	4.6824	0.2	465627
Mo 202.032	198.896	ppb	0.6071	0.3	1298.11
Na 330.237	17339.1	ppb	164.519	0.9	867.632
Ni 231.604	199.586	ppb	1.1870	0.6	473.111
Pb 220.353	200.453	ppb	1.2766	0.6	324.938
Sb 206.834	194.839	ppb	0.7779	0.4	188.700
Se 196.026	196.964	ppb	4.9335	2.5	90.9694
Sn 189.925	200.855	ppb	2.0941	1.0	152.713
Sr 216.596	213.863	ppb	0.7602	0.4	2024.75
Ti 334.941	201.423	ppb	0.4831	0.2	51422.7
Tl 190.794	50.9097	ppb	1.5144	3.0	30.7334
V 292.401	201.402	ppb	0.7596	0.4	5486.02
Zn 206.200	186.805	ppb	1.4890	0.8	285.757



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640-42787-g-1-a (Samp)                      3/27/2013, 5:39:22 PM                      Rack 1, Tube 17  
 Weight: 1                                      Volume: 1                                      Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-1.5603u	-0.8952u	-0.5055u
Al 308.215	1786.31	1786.84	1780.37
As 188.980	-6.5335u	-8.5564u	1.1601
B 249.678	31.4618	30.8355	28.9624
Ba 389.178	155.684	155.406	154.685
Be 313.042	0.1117	0.1068	0.1085
Ca 370.602	81901	82153	82102
Cd 226.502	1.4748	1.3752	1.2349
Co 228.615	1.6440	0.7652	1.4459
Cr 267.716	15.1081	14.9443	14.9200
Cu 324.754	50.1804	52.3512	52.1167
Fe 271.441	3361.39	3366.48	3363.51
K 766.491	3292.35	3297.07	3292.00
Mg 279.078	25441.4	25474.6	25455.4
Mn 257.610	329.905	330.503	330.374
Mo 202.032	1.5891	0.8435	0.4211
Na 330.237	11248.4	10947.9	11038.3
Ni 231.604	7.4569	9.8338	10.5238
Pb 220.353	59.9599	57.2087	61.8125
Sb 206.834	-1.9602u	-7.4367u	-1.5356u
Se 196.026	2.6155	-2.9178u	-5.0434u
Sn 189.925	-1.6773u	-1.6455u	-1.3557u
Sr 216.596	160.775	162.480	162.817
Ti 334.941	67.7240	68.0299	68.0112
Tl 190.794	1.1932	-2.3281u	6.2768
V 292.401	5.1964	5.4412	5.8876
Zn 206.200	1048.16	1055.51	1046.26

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.9870	ppb	0.5334	54.0	-106.834
Al 308.215	1784.51	ppb	3.5911	0.2	10460.9
As 188.980	-4.6433	ppb	5.1267	110.4	0.1243
B 249.678	30.4199	ppb	1.3005	4.3	633.943
Ba 389.178	155.258	ppb	0.5156	0.3	3770.46
Be 313.042	0.1090	ppb	0.0025	2.3	64.5768
Ca 370.602	82052	ppb	133.3	0.2	264597
Cd 226.502	1.3616	ppb	0.1206	8.9	69.5198
Co 228.615	1.2850	ppb	0.4609	35.9	30.0325
Cr 267.716	14.9908	ppb	0.1023	0.7	638.244
Cu 324.754	51.5494	ppb	1.1914	2.3	2597.59
Fe 271.441	3363.79	ppb	2.5554	0.1	5640.57
K 766.491	3293.81	ppb	2.8309	0.1	161882
Mg 279.078	25457.2	ppb	16.6805	0.1	51867.1
Mn 257.610	330.261	ppb	0.3148	0.1	75110.4
Mo 202.032	0.9513	ppb	0.5914	62.2	21.2608
Na 330.237	11078.2	ppb	154.199	1.4	549.498
Ni 231.604	9.2715	ppb	1.6089	17.4	22.9298
Pb 220.353	59.6604	ppb	2.3164	3.9	98.4584
Sb 206.834	-3.6442	ppb	3.2913	90.3	-1.9927
Se 196.026	-1.7819	ppb	3.9538	221.9	-0.5643
Sn 189.925	-1.5595	ppb	0.1772	11.4	-0.3308
Sr 216.596	162.024	ppb	1.0946	0.7	1544.83
Ti 334.941	67.9217	ppb	0.1715	0.3	17396.7
Tl 190.794	1.7140	ppb	4.3260	252.4	0.4405
V 292.401	5.5084	ppb	0.3505	6.4	145.997
Zn 206.200	1049.98	ppb	4.8842	0.5	1596.53

E03272013.vvq. All Data Report 3/28/2013, 2:04:12 PM

640-42787-g-1-aSD^5 (Samp) 3/27/2013, 5:44:57 PM Rack 1, Tube 18  
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.1341u	-0.6390u	-0.7724u
Al 308.215	391.155	392.184	387.035
As 188.980	-0.4281u	-2.5575u	-1.6937u
B 249.678	-14.5334u	-16.3211u	-17.0782u
Ba 389.178	32.7703	33.0767	33.2313
Be 313.042	-0.0049u	-0.0080u	-0.0219u
Ca 370.602	17850	17762	17693
Cd 226.502	0.3516	0.2173	0.2024
Co 228.615	0.3227	0.4981	0.3630
Cr 267.716	3.0048	2.9994	2.9589
Cu 324.754	11.4087	11.0825	10.5910
Fe 271.441	733.892	738.626	740.462
K 766.491	705.914	698.291	694.222
Mg 279.078	5566.31	5515.59	5502.35
Mn 257.610	72.0649	71.5198	71.2549
Mo 202.032	-0.4091u	-0.5754u	-0.5055u
Na 330.237	2585.94	2339.61	2582.78
Ni 231.604	3.1524	1.2703	3.4819
Pb 220.353	12.5297	11.2838	13.8010
Sb 206.834	-5.7182u	-1.9274u	4.5233
Se 196.026	-9.7802u	-10.2333u	3.0455
Sn 189.925	-1.9232u	-0.7998u	-0.4760u
Sr 216.596	35.2336	35.4855	34.2640
Ti 334.941	14.4465	14.4147	14.5091
Tl 190.794	-2.3252u	1.7954	3.0565
V 292.401	1.2835	1.5401	1.3418
Zn 206.200	233.513	229.712	230.800

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.5151	ppb	0.3367	65.4	-69.2755
Al 308.215	390.125	ppb	2.7252	0.7	2477.27
As 188.980	-1.5598	ppb	1.0710	68.7	1.3485
B 249.678	-15.9776	ppb	1.3067	8.2	211.378
Ba 389.178	33.0261	ppb	0.2346	0.7	787.905
Be 313.042	-0.0116	ppb	0.0091	78.3	-189.315
Ca 370.602	17768	ppb	78.37	0.4	57295
Cd 226.502	0.2571	ppb	0.0822	32.0	23.9098
Co 228.615	0.3946	ppb	0.0919	23.3	18.5724
Cr 267.716	2.9877	ppb	0.0251	0.8	134.771
Cu 324.754	11.0274	ppb	0.4116	3.7	640.365
Fe 271.441	737.660	ppb	3.3896	0.5	1238.83
K 766.491	699.476	ppb	5.9353	0.8	34554.8
Mg 279.078	5528.08	ppb	33.7624	0.6	11280.1
Mn 257.610	71.6132	ppb	0.4130	0.6	16343.0
Mo 202.032	-0.4967	ppb	0.0835	16.8	12.0371
Na 330.237	2502.78	ppb	141.316	5.6	121.252
Ni 231.604	2.6349	ppb	1.1932	45.3	7.1922
Pb 220.353	12.5382	ppb	1.2586	10.0	22.6485
Sb 206.834	-1.0408	ppb	5.1780	497.5	0.3464
Se 196.026	-5.6560	ppb	7.5391	133.3	-2.4065
Sn 189.925	-1.0663	ppb	0.7595	71.2	0.0151
Sr 216.596	34.9944	ppb	0.6449	1.8	341.915
Ti 334.941	14.4568	ppb	0.0480	0.3	3679.57
Tl 190.794	0.8422	ppb	2.8146	334.2	0.2036
V 292.401	1.3885	ppb	0.1345	9.7	32.7108
Zn 206.200	231.342	ppb	1.9577	0.8	253.914

E03272013.wvq. All Data Report 3/28/2013, 2:04:12 PM

**640-42787-g-1-aPDS (Samp)**      **3/27/2013, 5:50:23 PM**      **Rack 1, Tube 19****Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	50.8585	49.3451	50.2123
Al 308.215	3748.15	3754.99	3749.65
As 188.980	2146.96	2158.47	2150.33
B 249.678	1064.04	1078.41	1086.11
Ba 389.178	2194.76	2194.60	2196.52
Be 313.042	50.5021	50.6327	50.7174
Ca 370.602	86284	86490	86735
Cd 226.502	51.2850	51.8704	51.5002
Co 228.615	505.532	507.155	508.151
Cr 267.716	214.412	215.305	216.142
Cu 324.754	303.796	303.598	309.102
Fe 271.441	4295.86	4298.03	4294.77
K 766.491	8837.71	8807.07	8791.00
Mg 279.078	30432.4	30498.9	30526.9
Mn 257.610	836.975	840.058	840.355
Mo 202.032	510.719	512.923	515.501
Na 330.237	15971.9	16144.4	15988.2
Ni 231.604	503.335	501.611	504.927
Pb 220.353	555.566	557.812	559.421
Sb 206.834	492.953	496.868	495.891
Se 196.026	2046.30	2010.51	2034.33
Sn 189.925	1028.11	1033.13	1033.64
Sr 216.596	668.440	670.090	677.469
Ti 334.941	1077.72	1079.33	1084.66
Tl 190.794	2039.21	2068.54	2061.70
V 292.401	511.137	510.534	509.917
Zn 206.200	1532.36	1531.42	1533.45

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	50.1386	ppb	0.7594	1.5	3450.15
Al 308.215	3750.93	ppb	3.5930	0.1	21778.2
As 188.980	2151.92	ppb	5.9148	0.3	1170.86
B 249.678	1076.19	ppb	11.2010	1.0	10211.3
Ba 389.178	2195.29	ppb	1.0683	0.0	52602.3
Be 313.042	50.6174	ppb	0.1084	0.2	97743.3
Ca 370.602	86503	ppb	225.6	0.3	279092
Cd 226.502	51.5519	ppb	0.2961	0.6	1858.50
Co 228.615	506.946	ppb	1.3218	0.3	5822.22
Cr 267.716	215.286	ppb	0.8651	0.4	9010.75
Cu 324.754	305.499	ppb	3.1222	1.0	14867.7
Fe 271.441	4296.22	ppb	1.6631	0.0	7284.72
K 766.491	8811.93	ppb	23.7333	0.3	432705
Mg 279.078	30486.1	ppb	48.5439	0.2	62101.6
Mn 257.610	839.129	ppb	1.8717	0.2	190530
Mo 202.032	513.048	ppb	2.3939	0.5	3326.53
Na 330.237	16034.8	ppb	95.2433	0.6	789.596
Ni 231.604	503.291	ppb	1.6588	0.3	1190.69
Pb 220.353	557.600	ppb	1.9361	0.3	898.272
Sb 206.834	495.237	ppb	2.0372	0.4	470.322
Se 196.026	2030.38	ppb	18.2164	0.9	930.959
Sn 189.925	1031.63	ppb	3.0528	0.3	780.968
Sr 216.596	672.000	ppb	4.8080	0.7	6325.44
Ti 334.941	1080.57	ppb	3.6298	0.3	275675
Tl 190.794	2056.48	ppb	15.3455	0.7	1356.42
V 292.401	510.529	ppb	0.6098	0.1	13940.3
Zn 206.200	1532.41	ppb	1.0163	0.1	2227.98

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640-42787-g-1-b ms (Samp) 3/27/2013, 5:56:18 PM Rack 1, Tube 20

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	10.5809	10.1094	9.2464
Al 308.215	6846.22	6851.49	6847.98
As 188.980	98.4817	102.795	107.464
B 249.678	245.660	245.780	245.397
Ba 389.178	262.696	262.412	262.210
Be 313.042	51.5736	51.6198	51.6130
Ca 370.602	88823	89051	88867
Cd 226.502	52.1893	52.2233	52.2195
Co 228.615	52.4526	52.2677	52.1993
Cr 267.716	116.869	117.759	117.152
Cu 324.754	155.731	157.199	154.711
Fe 271.441	8513.49	8485.43	8506.49
K 766.491	8847.71	8801.43	8800.02
Mg 279.078	31101.8	31177.1	31178.7
Mn 257.610	852.352	851.915	851.626
Mo 202.032	100.470	102.248	103.273
Na 330.237	16625.4	16473.8	16294.6
Ni 231.604	109.997	108.131	108.674
Pb 220.353	108.913	110.384	109.245
Sb 206.834	49.3033	51.3899	46.0431
Se 196.026	109.178	108.296	107.709
Sn 189.925	201.639	201.304	199.157
Sr 216.596	265.699	267.930	266.966
Ti 334.941	171.547	172.384	171.970
Tl 190.794	41.7720	46.5558	45.9857
V 292.401	108.162	108.322	108.576
Zn 206.200	1173.72	1171.45	1167.99

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	9.9789	ppb	0.6768	6.8	657.966
Al 308.215	6848.56	ppb	2.6829	0.0	39466.5
As 188.980	102.913	ppb	4.4923	4.4	58.4988
B 249.678	245.612	ppb	0.1960	0.1	2600.22
Ba 389.178	262.439	ppb	0.2442	0.1	6358.66
Be 313.042	51.6021	ppb	0.0250	0.0	99732.5
Ca 370.602	88914	ppb	121.0	0.1	286357
Cd 226.502	52.2107	ppb	0.0186	0.0	1891.63
Co 228.615	52.3065	ppb	0.1310	0.3	612.916
Cr 267.716	117.260	ppb	0.4545	0.4	4915.60
Cu 324.754	155.881	ppb	1.2506	0.8	7638.03
Fe 271.441	8501.80	ppb	14.6054	0.2	14260.7
K 766.491	8816.39	ppb	27.1371	0.3	432924
Mg 279.078	31152.5	ppb	43.9310	0.1	63458.6
Mn 257.610	851.964	ppb	0.3654	0.0	193455
Mo 202.032	101.997	ppb	1.4185	1.4	673.222
Na 330.237	16464.6	ppb	165.608	1.0	819.815
Ni 231.604	108.934	ppb	0.9598	0.9	258.604
Pb 220.353	109.514	ppb	0.7714	0.7	178.483
Sb 206.834	48.9121	ppb	2.6948	5.5	48.3890
Se 196.026	108.394	ppb	0.7392	0.7	50.0665
Sn 189.925	200.700	ppb	1.3469	0.7	152.622
Sr 216.596	266.865	ppb	1.1192	0.4	2530.11
Ti 334.941	171.967	ppb	0.4183	0.2	43955.3
Tl 190.794	44.7712	ppb	2.6129	5.8	28.2046
V 292.401	108.353	ppb	0.2091	0.2	2950.41
Zn 206.200	1171.06	ppb	2.8884	0.2	1779.99

E03272013.vvq. All Data Report 3/28/2013, 2:04:12 PM

640-42787-g-1-c msd (Samp) 3/27/2013, 6:01:43 PM Rack 1, Tube 21  
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	11.7959	11.2768	11.6562
Al 308.215	6935.08	6949.67	6970.61
As 188.980	114.790	113.228	99.2962
B 249.678	235.615	238.257	238.628
Ba 389.178	264.324	262.896	264.918
Be 313.042	51.7382	51.7869	51.8889
Ca 370.602	89596	89663	89932
Cd 226.502	53.4019	54.1643	54.4676
Co 228.615	52.7844	53.7191	53.3871
Cr 267.716	118.182	117.692	118.193
Cu 324.754	153.723	153.064	153.933
Fe 271.441	8456.67	8487.40	8494.03
K 766.491	9355.37	9323.13	9324.06
Mg 279.078	31698.3	31782.4	31870.1
Mn 257.610	856.371	857.610	859.990
Mo 202.032	96.4986	99.0128	99.1734
Na 330.237	16811.1	16909.9	17101.3
Ni 231.604	107.945	112.345	111.159
Pb 220.353	108.199	115.849	113.451
Sb 206.834	50.8759	57.2290	51.5714
Se 196.026	112.833	107.740	97.5630
Sn 189.925	139.287	144.962	149.283
Sr 216.596	270.306	271.287	271.003
Ti 334.941	169.955	170.078	170.799
Tl 190.794	43.7130	43.6125	46.7565
V 292.401	109.366	108.717	109.081
Zn 206.200	1203.77	1211.29	1211.42

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	11.5763	ppb	0.2686	2.3	769.529
Al 308.215	6951.79	ppb	17.8606	0.3	40057.0
As 188.980	109.105	ppb	8.5305	7.8	61.8638
B 249.678	237.500	ppb	1.6429	0.7	2525.92
Ba 389.178	264.046	ppb	1.0395	0.4	6398.65
Be 313.042	51.8047	ppb	0.0769	0.1	100125
Ca 370.602	89730	ppb	178.0	0.2	288993
Cd 226.502	54.0113	ppb	0.5491	1.0	1955.72
Co 228.615	53.2969	ppb	0.4738	0.9	624.347
Cr 267.716	118.022	ppb	0.2863	0.2	4947.47
Cu 324.754	153.573	ppb	0.4534	0.3	7526.51
Fe 271.441	8479.37	ppb	19.9376	0.2	14223.1
K 766.491	9334.19	ppb	18.3503	0.2	458337
Mg 279.078	31783.6	ppb	85.9147	0.3	64743.8
Mn 257.610	857.990	ppb	1.8392	0.2	194825
Mo 202.032	98.2283	ppb	1.5001	1.5	648.890
Na 330.237	16940.8	ppb	147.550	0.9	843.755
Ni 231.604	110.483	ppb	2.2763	2.1	262.267
Pb 220.353	112.500	ppb	3.9126	3.5	183.293
Sb 206.834	53.2254	ppb	3.4846	6.5	52.5551
Se 196.026	106.045	ppb	7.7749	7.3	48.9912
Sn 189.925	144.510	ppb	5.0132	3.5	110.132
Sr 216.596	270.865	ppb	0.5048	0.2	2567.91
Ti 334.941	170.277	ppb	0.4560	0.3	43526.8
Tl 190.794	44.6940	ppb	1.7869	4.0	28.1495
V 292.401	109.055	ppb	0.3251	0.3	2970.41
Zn 206.200	1208.83	ppb	4.3799	0.4	1837.31

E03272013.wvq. All Data Report 3/28/2013, 2:04:12 PM

680-88651-a-1-b (Samp)                      3/27/2013, 6:07:09 PM                      Rack 1, Tube 22  
 Weight: 1                                      Volume: 1                                      Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.5683u	-0.1470u	-0.4955u
Al 308.215	494.590	495.330	494.798
As 188.980	-12.9885u	-3.4405u	-7.3982u
B 249.678	888.730	895.511	899.680
Ba 389.178	269.506	269.972	268.472
Be 313.042	-0.0183u	-0.0138u	-0.0310u
Ca 370.602	10725	10761	10670
Cd 226.502	4.5920	4.5467	4.6165
Co 228.615	8.6653	8.5178	9.1123
Cr 267.716	5.2289	5.3806	5.3748
Cu 324.754	638.165	631.983	626.073
Fe 271.441	1425.05	1437.44	1432.72
K 766.491	5948.50	5950.53	5919.64
Mg 279.078	7526.15	7533.84	7508.39
Mn 257.610	121.266	121.496	121.144
Mo 202.032	2.6579	2.2920	2.4927
Na 330.237	79161.4	80112.1	79381.8
Ni 231.604	1250.59	1251.51	1259.16
Pb 220.353	17.1504	14.8291	15.2569
Sb 206.834	9.8527	4.1223	6.0235
Se 196.026	7.6935	4.6922	-1.1940u
Sn 189.925	2.8007	4.3640	4.0460
Sr 216.596	69.8002	68.4613	68.4538
Ti 334.941	15.2855	15.1145	14.9969
Tl 190.794	-0.4388u	3.5617	-0.0013u
V 292.401	0.7473	0.7939	1.0694
Zn 206.200	759.157	766.830	752.993

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.4036	ppb	0.2252	55.8	-62.5334
Al 308.215	494.906	ppb	0.3821	0.1	3077.63
As 188.980	-7.9424	ppb	4.7972	60.4	-2.1758
B 249.678	894.640	ppb	5.5265	0.6	8551.21
Ba 389.178	269.316	ppb	0.7678	0.3	6448.15
Be 313.042	-0.0210	ppb	0.0089	42.3	-220.248
Ca 370.602	10719	ppb	45.89	0.4	34483
Cd 226.502	4.5851	ppb	0.0354	0.8	179.208
Co 228.615	8.7651	ppb	0.3095	3.5	114.196
Cr 267.716	5.3281	ppb	0.0859	1.6	234.117
Cu 324.754	632.074	ppb	6.0464	1.0	30625.8
Fe 271.441	1431.74	ppb	6.2546	0.4	2403.44
K 766.491	5939.56	ppb	17.2798	0.3	291732
Mg 279.078	7522.79	ppb	13.0526	0.2	15342.2
Mn 257.610	121.302	ppb	0.1786	0.1	27622.6
Mo 202.032	2.4809	ppb	0.1832	7.4	31.2302
Na 330.237	79551.8	ppb	497.628	0.6	4029.77
Ni 231.604	1253.75	ppb	4.7043	0.4	2964.54
Pb 220.353	15.7455	ppb	1.2354	7.8	27.8096
Sb 206.834	6.6662	ppb	2.9187	43.8	7.7026
Se 196.026	3.7306	ppb	4.5211	121.2	1.9089
Sn 189.925	3.7369	ppb	0.8262	22.1	3.6699
Sr 216.596	68.9051	ppb	0.7752	1.1	642.322
Ti 334.941	15.1323	ppb	0.1451	1.0	3854.51
Tl 190.794	1.0405	ppb	2.1943	210.9	0.2645
V 292.401	0.8702	ppb	0.1741	20.0	17.0736
Zn 206.200	759.660	ppb	6.9321	0.9	1155.49

E03272013.wvq. All Data Report 3/28/2013, 2:04:12 PM

680-88567-a-1-a (Samp)                      3/27/2013, 6:12:35 PM                      Rack 1, Tube 23  
 Weight: 1                                      Volume: 1                                      Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.7798u	-0.6991u	-0.7862u
Al 308.215	24.7973	21.7081	22.7952
As 188.980	-6.5101u	-7.7077u	-1.9493u
B 249.678	261.538	262.563	261.795
Ba 389.178	17.7410	18.1190	18.2398
Be 313.042	-0.0368u	-0.0369u	-0.0341u
Ca 370.602	52372	52251	52253
Cd 226.502	-0.0309u	-0.1119u	-0.3035u
Co 228.615	-0.0120u	-0.1228u	0.0919
Cr 267.716	0.2299	0.7908	0.2440
Cu 324.754	4.0520	4.0868	4.0583
Fe 271.441	42.9064	50.3849	47.0459
K 766.491	17739.5	17764.6	17788.2
Mg 279.078	38545.8	38452.7	38483.6
Mn 257.610	14.8100	14.8147	14.8710
Mo 202.032	-0.1828u	-0.1677u	0.0493
Na 330.237	232528x	231084x	230785x
Ni 231.604	3.2518	3.0329	4.0925
Pb 220.353	-0.2591u	1.1143	-0.8639u
Sb 206.834	-3.2229u	1.7000	7.0885
Se 196.026	5.9865	-4.5941u	1.4315
Sn 189.925	0.7170	-3.3461u	-4.0089u
Sr 216.596	591.405	591.374	588.727
Ti 334.941	-0.3445	-0.2581	-0.3823
Tl 190.794	0.4733	-7.0153u	-0.3802u
V 292.401	0.5086	0.6355	-0.0207u
Zn 206.200	29.7463	28.5508	27.2170

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.7551b	ppb	0.0485	6.4	-109.823
Al 308.215	23.1002b	ppb	1.5670	6.8	375.987
As 188.980	-5.3890b	ppb	3.0385	56.4	-0.4718
B 249.678	261.965b	ppb	0.5332	0.2	2757.74
Ba 389.178	18.0333b	ppb	0.2602	1.4	517.129
Be 313.042	-0.0359b	ppb	0.0016	4.4	-254.233
Ca 370.602	52292b	ppb	69.11	0.1	168787
Cd 226.502	-0.1488b	ppb	0.1400	94.1	7.0218
Co 228.615	-0.0143b	ppb	0.1074	751.0	13.5312
Cr 267.716	0.4216b	ppb	0.3199	75.9	30.7453
Cu 324.754	4.0657b	ppb	0.0186	0.5	304.075
Fe 271.441	46.7791b	ppb	3.7464	8.0	80.8781
K 766.491	17764.1b	ppb	24.3560	0.1	872068
Mg 279.078	38494.0b	ppb	47.4224	0.1	78425.0
Mn 257.610	14.8319b	ppb	0.0339	0.2	3645.51
Mo 202.032	-0.1004b	ppb	0.1299	129.4	14.6279
Na 330.237	231466xb	ppb	931.758	0.4	11750.0
Ni 231.604	3.4591b	ppb	0.5594	16.2	9.1273
Pb 220.353	-0.0029b	ppb	1.0136	35121.6	2.4737
Sb 206.834	1.8552b	ppb	5.1574	278.0	3.0632
Se 196.026	0.9413b	ppb	5.3073	563.8	0.6025
Sn 189.925	-2.2126b	ppb	2.5587	115.6	-0.7634
Sr 216.596	590.502b	ppb	1.5374	0.3	5576.91
Ti 334.941	-0.3283b	ppb	0.0637	19.4	27.7397
Tl 190.794	-2.3074b	ppb	4.0994	177.7	-1.7985
V 292.401	0.3745b	ppb	0.3480	92.9	3.1718
Zn 206.200	28.5047b	ppb	1.2653	4.4	46.4228

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640-42825-a-1-a (Samp)                      3/27/2013, 6:18:02 PM                      Rack 1, Tube 24  
 Weight: 1                                      Volume: 1                                      Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-1.1043u	-0.3592u	-1.2263u
Al 308.215	36.3023	32.3265	33.7936
As 188.980	-3.5633u	-3.3472u	0.4408
B 249.678	49.5437	48.5679	47.0976
Ba 389.178	15.9733	16.5367	16.6753
Be 313.042	-0.0305u	-0.0293u	-0.0305u
Ca 370.602	10688	10612	10621
Cd 226.502	-0.2046u	-0.2611u	0.0876
Co 228.615	0.9747	0.3463	0.5634
Cr 267.716	-0.1922u	-0.1826u	-0.2604u
Cu 324.754	0.5044	0.8233	0.7356
Fe 271.441	358.030	360.256	358.185
K 766.491	2285.11	2276.20	2278.54
Mg 279.078	6032.70	5993.47	6010.01
Mn 257.610	26.4577	26.2717	26.2418
Mo 202.032	-0.4103u	-0.8789u	-0.2760u
Na 330.237	132681x	131378x	131181x
Ni 231.604	-1.5582u	-0.6004u	1.5833
Pb 220.353	-2.4126u	1.4606	0.3053
Sb 206.834	-4.1944u	-4.6809u	0.1378
Se 196.026	-1.6306u	-0.4556u	-3.4302u
Sn 189.925	-2.3950u	1.2144	-4.3792u
Sr 216.596	716.589	708.186	713.037
Ti 334.941	0.3078	0.2602	0.2509
Tl 190.794	1.1622	4.7690	6.5860
V 292.401	0.4024	0.2179	-0.0100u
Zn 206.200	1.3144	-0.2888u	2.2850

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.8966b	ppb	0.4694	52.4	-124.121
Al 308.215	34.1408b	ppb	2.0105	5.9	439.110
As 188.980	-2.1566b	ppb	2.2520	104.4	0.9750
B 249.678	48.4031b	ppb	1.2314	2.5	801.392
Ba 389.178	16.3951b	ppb	0.3718	2.3	390.669
Be 313.042	-0.0301b	ppb	0.0007	2.3	-243.404
Ca 370.602	10640b	ppb	41.62	0.4	34313
Cd 226.502	-0.1260b	ppb	0.1871	148.5	8.7102
Co 228.615	0.6281b	ppb	0.3192	50.8	20.8839
Cr 267.716	-0.2117b	ppb	0.0424	20.0	2.8010
Cu 324.754	0.6878b	ppb	0.1647	24.0	141.056
Fe 271.441	358.824b	ppb	1.2430	0.3	604.016
K 766.491	2279.95b	ppb	4.6223	0.2	112123
Mg 279.078	6012.06b	ppb	19.6928	0.3	12266.6
Mn 257.610	26.3237b	ppb	0.1170	0.4	6074.08
Mo 202.032	-0.5218b	ppb	0.3165	60.7	11.8937
Na 330.237	131747xb	ppb	815.278	0.6	6686.28
Ni 231.604	-0.1918b	ppb	1.6101	839.4	0.5033
Pb 220.353	-0.2156b	ppb	1.9885	922.4	2.1341
Sb 206.834	-2.9125b	ppb	2.6528	91.1	-1.4798
Se 196.026	-1.8388b	ppb	1.4982	81.5	-0.6684
Sn 189.925	-1.8533b	ppb	2.8359	153.0	-0.5402
Sr 216.596	712.604b	ppb	4.2180	0.6	6723.49
Ti 334.941	0.2730b	ppb	0.0305	11.2	54.7681
Tl 190.794	4.1724b	ppb	2.7606	66.2	2.4581
V 292.401	0.2034b	ppb	0.2066	101.6	-0.9465
Zn 206.200	1.1035b	ppb	1.2998	117.8	4.5192



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Cont Calib Verif (CCV) 3/27/2013, 6:23:38 PM Rack 1, Tube 25  
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	507.408	504.835	505.060
Al 308.215	5008.42	5009.21	5015.38
As 188.980	480.739	460.413	473.187
B 249.678	2521.32	2538.14	2555.17
Ba 389.178	4962.38	4953.97	4962.09
Be 313.042	494.981	494.040	494.516
Ca 370.602	4979	4975	4964
Cd 226.502	493.505	493.716	493.379
Co 228.615	498.576	498.518	498.652
Cr 267.716	4978.03	4966.92	4960.40
Cu 324.754	4944.16	4943.37	4849.63
Fe 271.441	4962.95	4970.16	4985.41
K 766.491	10108.1	10125.8	10152.1
Mg 279.078	4970.71	4958.69	4962.92
Mn 257.610	4981.95	4986.44	4994.16
Mo 202.032	492.365	491.938	493.934
Na 330.237	7428.26	7479.50	7352.84
Ni 231.604	2502.27	2497.42	2502.34
Pb 220.353	498.779	494.306	498.303
Sb 206.834	923.343	918.277	921.574
Se 196.026	4943.16	4927.70	4891.48
Sn 189.925	5091.16	5072.52	5042.12
Sr 216.596	2502.05	2491.60	2488.94
Ti 334.941	501.193	500.524	499.959
Tl 190.794	5001.99	4991.26	4997.14
V 292.401	4946.31	4951.15	4960.66
Zn 206.200	2481.76	2464.18	2476.16

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	505.768	ppb	1.4253	0.3	35264.7	101.15353
Al 308.215	5011.00	ppb	3.8109	0.1	28910.6	100.22009
As 188.980	471.446	ppb	10.2740	2.2	257.903	94.28929
B 249.678	2538.21	ppb	16.9267	0.7	23601.6	101.52852
Ba 389.178	4959.48	ppb	4.7740	0.1	118685	99.18957
Be 313.042	494.512	ppb	0.4705	0.1	956897	98.90244
Ca 370.602	4973	ppb	7.465	0.2	15914	99.45381
Cd 226.502	493.533	ppb	0.1706	0.0	17593.5	98.70661
Co 228.615	498.582	ppb	0.0672	0.0	5724.73	99.71647
Cr 267.716	4968.45	ppb	8.9129	0.2	207688	99.36900
Cu 324.754	4912.39	ppb	54.3506	1.1	237252	98.24774
Fe 271.441	4972.84	ppb	11.4677	0.2	8458.25	99.45679
K 766.491	10128.7	ppb	22.1512	0.2	497330	101.28680
Mg 279.078	4964.11	ppb	6.0926	0.1	10054.7	99.28214
Mn 257.610	4987.52	ppb	6.1770	0.1	1131064	99.75035
Mo 202.032	492.745	ppb	1.0514	0.2	3187.97	98.54910
Na 330.237	7420.20	ppb	63.7131	0.9	349.575	98.93602
Ni 231.604	2500.68	ppb	2.8200	0.1	5912.04	100.02716
Pb 220.353	497.129	ppb	2.4569	0.5	802.171	99.42585
Sb 206.834	921.064	ppb	2.5712	0.3	925.693	92.10644
Se 196.026	4920.78	ppb	26.5279	0.5	2256.67	98.41562
Sn 189.925	5068.60	ppb	24.7508	0.5	3833.69	101.37199
Sr 216.596	2494.20	ppb	6.9316	0.3	23452.9	99.76793
Ti 334.941	500.559	ppb	0.6181	0.1	127649	100.11172
Tl 190.794	4996.80	ppb	5.3714	0.1	3294.68	99.93594
V 292.401	4952.71	ppb	7.2984	0.1	135830	99.05417
Zn 206.200	2474.03	ppb	8.9843	0.4	3742.04	98.96126

E03272013.vvq. All Data Report 3/28/2013, 2:04:12 PM

Cont Calib Blank (CCB)                      3/27/2013, 6:29:02 PM                      Rack 1, Tube 26  
 Weight: 1    Volume: 1    Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.9540u	-0.4700u	-0.4305u
Al 308.215	-0.2405u	5.7613	0.4982
As 188.980	-7.3005u	-0.3376u	-4.9880u
B 249.678	35.4979	29.8786	24.1688
Ba 389.178	0.7893	-1.4649u	0.5272
Be 313.042	-0.0349u	-0.0330u	-0.0238u
Ca 370.602	-0.0098	0.6692	-1.385u
Cd 226.502	-0.0732u	-0.1609u	0.0449
Co 228.615	0.0053	0.3997	0.3180
Cr 267.716	-0.0252u	-0.2032u	-0.1638u
Cu 324.754	-0.0030u	-0.3872u	-0.2004u
Fe 271.441	3.0856	2.7414	1.0066
K 766.491	0.1929	-0.0613u	0.2405
Mg 279.078	-0.8291u	3.5271	3.3198
Mn 257.610	-0.1266u	-0.1111u	-0.0295u
Mo 202.032	-1.5666u	-0.5418u	-0.5383u
Na 330.237	170.066	-150.442u	116.486
Ni 231.604	-0.5794u	-0.5117u	0.4403
Pb 220.353	0.4474	1.7154	0.9966
Sb 206.834	5.4205	7.2334	7.5998
Se 196.026	-1.4855u	3.6462	-1.0442u
Sn 189.925	0.0182	-1.8638u	1.9936
Sr 216.596	-0.3086u	-0.7128u	-0.6751u
Ti 334.941	-0.0587u	-0.1070u	-0.1218u
Tl 190.794	-2.7941u	-2.8373u	-0.0262u
V 292.401	0.5202	0.2402	0.3450
Zn 206.200	0.5350	-1.1922u	0.8395

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	-0.6182	ppb	0.2915	47.2	-75.2041	-0.61815
Al 308.215	2.0063	ppb	3.2728	163.1	255.126	2.00635
As 188.980	-4.2087	ppb	3.5463	84.3	-0.2138	-4.20870
B 249.678	29.8484	ppb	5.6646	19.0	631.777	29.84844
Ba 389.178	-0.0495	ppb	1.2328	2492.7	-19.5623	-0.04946
Be 313.042	-0.0305	ppb	0.0060	19.5	-231.701	-0.03054
Ca 370.602	-0.2419	ppb	1.047	432.7	-4.295	-0.24188
Cd 226.502	-0.0631	ppb	0.1033	163.7	10.7473	-0.06307
Co 228.615	0.2410	ppb	0.2082	86.4	16.4542	0.24102
Cr 267.716	-0.1307	ppb	0.0935	71.5	3.9326	-0.13072
Cu 324.754	-0.1969	ppb	0.1921	97.6	98.2380	-0.19689
Fe 271.441	2.2778	ppb	1.1143	48.9	6.3312	2.27785
K 766.491	0.1241	ppb	0.1623	130.8	231.363	0.12407
Mg 279.078	2.0059	ppb	2.4574	122.5	25.8897	2.00591
Mn 257.610	-0.0891	ppb	0.0521	58.5	51.4688	-0.08909
Mo 202.032	-0.8822	ppb	0.5927	67.2	9.5824	-0.88224
Na 330.237	45.3700	ppb	171.681	378.4	-1.4996	45.37004
Ni 231.604	-0.2169	ppb	0.5702	262.8	0.4370	-0.21695
Pb 220.353	1.0531	ppb	0.6359	60.4	4.1706	1.05315
Sb 206.834	6.7512	ppb	1.1669	17.3	7.7426	6.75123
Se 196.026	0.3722	ppb	2.8440	764.2	0.3379	0.37217
Sn 189.925	0.0493	ppb	1.9289	3910.5	0.8512	0.04932
Sr 216.596	-0.5655	ppb	0.2233	39.5	5.1856	-0.56551
Ti 334.941	-0.0958	ppb	0.0330	34.4	-54.5167	-0.09584
Tl 190.794	-1.8859	ppb	1.6107	85.4	-1.5029	-1.88586
V 292.401	0.3685	ppb	0.1414	38.4	4.5704	0.36848
Zn 206.200	0.0608	ppb	1.0957	1802.5	2.8534	0.06079

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680-88635-d-1-a (Samp)                      3/27/2013, 6:34:26 PM                      Rack 1, Tube 27  
 Weight: 1                                      Volume: 1                                      Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.4109u	-1.1306u	-0.5174u
Al 308.215	40.4297	37.7920	39.6873
As 188.980	1.0467	9.0830	-0.1771u
B 249.678	-7.5109u	-9.6690u	-8.9801u
Ba 389.178	32.3130	32.2382	32.7133
Be 313.042	-0.0239u	-0.0295u	-0.0253u
Ca 370.602	2893	2863	2877
Cd 226.502	3.0909	3.0039	2.8479
Co 228.615	2.7135	2.6754	2.5734
Cr 267.716	-0.2242u	0.0348	-0.1793u
Cu 324.754	124.666	122.360	122.947
Fe 271.441	1766.53	1754.30	1760.74
K 766.491	7617.14	7561.94	7628.66
Mg 279.078	686.159	674.372	687.417
Mn 257.610	213.571	211.311	212.579
Mo 202.032	4.3475	4.1936	3.4342
Na 330.237	9096.27	8887.82	9311.86
Ni 231.604	1.6679	1.3599	2.4783
Pb 220.353	-0.6835u	-0.0448u	1.3505
Sb 206.834	-2.4011u	0.1957	-1.3453u
Se 196.026	6.2910	-4.5677u	5.5820
Sn 189.925	4.5163	0.8359	0.5127
Sr 216.596	22.9986	23.5401	23.9223
Ti 334.941	0.0272	0.1412	0.0796
Tl 190.794	1.0373	-0.0132u	-4.6544u
V 292.401	0.0976	0.1242	-0.0443u
Zn 206.200	243.326	240.369	240.415

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.6863	ppb	0.3884	56.6	-80.0704
Al 308.215	39.3030	ppb	1.3602	3.5	469.251
As 188.980	3.3176	ppb	5.0304	151.6	3.8767
B 249.678	-8.7200	ppb	1.1023	12.6	276.925
Ba 389.178	32.4215	ppb	0.2555	0.8	761.831
Be 313.042	-0.0262	ppb	0.0029	11.2	-224.601
Ca 370.602	2878	ppb	14.87	0.5	9147
Cd 226.502	2.9809	ppb	0.1231	4.1	123.156
Co 228.615	2.6541	ppb	0.0724	2.7	43.8601
Cr 267.716	-0.1229	ppb	0.1384	112.6	5.5382
Cu 324.754	123.324	ppb	1.1988	1.0	6062.66
Fe 271.441	1760.53	ppb	6.1159	0.3	2953.51
K 766.491	7602.58	ppb	35.6638	0.5	373352
Mg 279.078	682.649	ppb	7.1958	1.1	1409.21
Mn 257.610	212.487	ppb	1.1326	0.5	48262.9
Mo 202.032	3.9918	ppb	0.4890	12.2	40.9714
Na 330.237	9098.65	ppb	212.029	2.3	455.935
Ni 231.604	1.8354	ppb	0.5777	31.5	5.3213
Pb 220.353	0.2074	ppb	1.0402	501.6	2.8473
Sb 206.834	-1.1836	ppb	1.3059	110.3	0.1464
Se 196.026	2.4351	ppb	6.0749	249.5	1.3370
Sn 189.925	1.9550	ppb	2.2241	113.8	2.2963
Sr 216.596	23.4870	ppb	0.4641	2.0	232.456
Ti 334.941	0.0827	ppb	0.0571	69.0	-6.6610
Tl 190.794	-1.2101	ppb	3.0287	250.3	-1.3231
V 292.401	0.0592	ppb	0.0906	153.1	-4.8639
Zn 206.200	241.370	ppb	1.6940	0.7	369.021

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**mb 680-270754/1-a (Samp)**      **3/27/2013, 6:39:50 PM**      **Rack 1, Tube 28**  
**Weight: 1**      **Volume: 1**      **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.0233	-1.1083u	-1.2688u
Al 308.215	1.5636	1.2983	1.9890
As 188.980	1.0753	-0.2656u	-7.1785u
B 249.678	-21.3504u	-21.1294u	-21.9414u
Ba 389.178	-1.0031u	-1.3193u	-0.9934u
Be 313.042	-0.0441u	-0.0448u	-0.0461u
Ca 370.602	6.460	7.026	5.737
Cd 226.502	0.0576	-0.0710u	-0.0737u
Co 228.615	0.0494	0.0535	-0.5781u
Cr 267.716	-0.3471u	-0.2348u	-0.3821u
Cu 324.754	-0.1493u	0.2955	-0.1401u
Fe 271.441	2.2327	5.5807	2.1318
K 766.491	0.2749	1.4049	-0.0194u
Mg 279.078	3.1551	2.8696	-0.3927u
Mn 257.610	-0.0926u	-0.0539u	-0.1216u
Mo 202.032	-0.7237u	-0.5312u	-0.8868u
Na 330.237	57.1380	173.645	151.864
Ni 231.604	0.3405	2.1731	-0.5037u
Pb 220.353	-1.3230u	2.6787	-0.7227u
Sb 206.834	5.2899	-2.4982u	0.1745
Se 196.026	6.8089	11.8975	9.3536
Sn 189.925	-0.2666u	-0.9048u	-0.5746u
Sr 216.596	0.6252	-0.4005u	-0.4454u
Ti 334.941	-0.1887u	-0.2514u	-0.2384u
Tl 190.794	-3.1882u	5.1110	-2.3629u
V 292.401	-0.1001u	0.2921	0.2653
Zn 206.200	1.5492	1.7863	0.0935

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.7846	ppb	0.7043	89.8	-86.8417
Al 308.215	1.6170	ppb	0.3485	21.5	252.882
As 188.980	-2.1229	ppb	4.4293	208.6	0.9186
B 249.678	-21.4737	ppb	0.4198	2.0	161.708
Ba 389.178	-1.1053	ppb	0.1854	16.8	-44.8239
Be 313.042	-0.0450	ppb	0.0010	2.2	-259.656
Ca 370.602	6.408	ppb	0.6461	10.1	16.91
Cd 226.502	-0.0291	ppb	0.0751	258.2	11.9643
Co 228.615	-0.1584	ppb	0.3635	229.5	11.8876
Cr 267.716	-0.3213	ppb	0.0769	23.9	-4.0328
Cu 324.754	0.0021	ppb	0.2542	12376.5	107.842
Fe 271.441	3.3151	ppb	1.9628	59.2	8.0298
K 766.491	0.5534	ppb	0.7519	135.9	252.436
Mg 279.078	1.8773	ppb	1.9711	105.0	25.6283
Mn 257.610	-0.0894	ppb	0.0340	38.0	51.4079
Mo 202.032	-0.7139	ppb	0.1780	24.9	10.6695
Na 330.237	127.549	ppb	61.9424	48.6	2.6672
Ni 231.604	0.6699	ppb	1.3685	204.3	2.5335
Pb 220.353	0.2110	ppb	2.1581	1022.7	2.8161
Sb 206.834	0.9887	ppb	3.9573	400.2	2.2388
Se 196.026	9.3533	ppb	2.5443	27.2	4.4543
Sn 189.925	-0.5820	ppb	0.3192	54.8	0.3738
Sr 216.596	-0.0736	ppb	0.6056	823.2	9.8237
Ti 334.941	-0.2262	ppb	0.0331	14.6	-87.7685
Tl 190.794	-0.1467	ppb	4.5720	3116.8	-0.3551
V 292.401	0.1524	ppb	0.2191	143.8	-1.3343
Zn 206.200	1.1430	ppb	0.9166	80.2	4.4960

E03272013.wvq. All Data Report 3/28/2013, 2:04:12 PM

ics 680-270754/2-a (Samp)      3/27/2013, 6:45:14 PM      Rack 1, Tube 29  
 Weight: 1      Volume: 1      Dilution: 1

Label	Replicates Concentration		
Ag 328.068	10.4031	9.8891	10.7764
Al 308.215	4866.85	4864.94	4832.62
As 188.980	95.4315	93.6946	87.1500
B 249.678	174.750	174.233	175.506
Ba 389.178	100.782	100.643	99.6404
Be 313.042	50.5026	50.4904	50.1137
Ca 370.602	4845	4833	4807
Cd 226.502	50.7194	50.5164	50.2529
Co 228.615	51.3949	50.2179	49.9665
Cr 267.716	100.891	100.861	99.9273
Cu 324.754	98.6834	98.0816	97.5378
Fe 271.441	4957.14	4963.19	4930.81
K 766.491	4967.54	4966.15	4931.79
Mg 279.078	4940.32	4949.33	4917.46
Mn 257.610	510.420	510.668	506.404
Mo 202.032	99.8865	99.2624	98.0608
Na 330.237	4882.73	4694.18	4457.83
Ni 231.604	99.3769	99.4828	100.244
Pb 220.353	52.6880	47.2112	53.8259
Sb 206.834	43.0092	54.9386	48.2043
Se 196.026	81.7107	94.1974	93.7242
Sn 189.925	200.671	198.378	193.615
Sr 216.596	100.732	101.497	100.739
Ti 334.941	99.6278	99.7882	99.2678
Tl 190.794	37.7556	32.0208	35.5133
V 292.401	101.733	101.116	100.133
Zn 206.200	102.277	100.565	99.0305

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	10.3562	ppb	0.4455	4.3	690.299
Al 308.215	4854.80	ppb	19.2320	0.4	28051.0
As 188.980	92.0921	ppb	4.3672	4.7	52.0372
B 249.678	174.830	ppb	0.6403	0.4	1955.15
Ba 389.178	100.355	ppb	0.6229	0.6	2404.23
Be 313.042	50.3689	ppb	0.2211	0.4	97318.7
Ca 370.602	4828	ppb	19.18	0.4	15207
Cd 226.502	50.4963	ppb	0.2339	0.5	1822.11
Co 228.615	50.5264	ppb	0.7625	1.5	590.846
Cr 267.716	100.560	ppb	0.5482	0.5	4215.21
Cu 324.754	98.1009	ppb	0.5730	0.6	4847.30
Fe 271.441	4950.38	ppb	17.2190	0.3	8308.06
K 766.491	4955.16	ppb	20.2516	0.4	243419
Mg 279.078	4935.71	ppb	16.4289	0.3	10066.3
Mn 257.610	509.164	ppb	2.3937	0.5	115568
Mo 202.032	99.0699	ppb	0.9280	0.9	654.495
Na 330.237	4678.25	ppb	212.901	4.6	230.795
Ni 231.604	99.7014	ppb	0.4732	0.5	236.714
Pb 220.353	51.2417	ppb	3.5366	6.9	84.7398
Sb 206.834	48.7174	ppb	5.9812	12.3	48.0004
Se 196.026	89.8774	ppb	7.0766	7.9	41.4912
Sn 189.925	197.554	ppb	3.5990	1.8	150.208
Sr 216.596	100.989	ppb	0.4394	0.4	959.299
Ti 334.941	99.5613	ppb	0.2665	0.3	25381.9
Tl 190.794	35.0966	ppb	2.8900	8.2	22.2692
V 292.401	100.994	ppb	0.8070	0.8	2748.27
Zn 206.200	100.624	ppb	1.6241	1.6	155.179

E03272013.wvq. All Data Report 3/28/2013, 2:04:12 PM

ics 680-270754/3-a (Samp)      3/27/2013, 6:50:39 PM      Rack 1, Tube 30  
 Weight: 1      Volume: 1      Dilution: 1

Label	Replicates Concentration		
Ag 328.068	197.295	196.314	199.204
Al 308.215	1865.71	1864.81	1876.02
As 188.980	186.496	199.288	199.292
B 249.678	362.289	363.860	369.224
Ba 389.178	188.139	188.380	190.366
Be 313.042	194.273	194.628	195.305
Ca 370.602	18792	18829	18946
Cd 226.502	190.874	190.288	191.585
Co 228.615	191.229	191.600	193.166
Cr 267.716	191.731	192.239	193.425
Cu 324.754	194.255	191.335	194.724
Fe 271.441	19785.5	19804.0	19915.8
K 766.491	18846.1	18873.1	18980.5
Mg 279.078	19126.3	19123.1	19228.0
Mn 257.610	1959.38	1960.61	1971.53
Mo 202.032	190.815	191.923	192.650
Na 330.237	16941.9	16695.0	16786.5
Ni 231.604	190.882	190.192	191.424
Pb 220.353	189.931	192.090	189.200
Sb 206.834	189.299	183.926	178.456
Se 196.026	186.357	202.286	192.893
Sn 189.925	194.717	197.257	190.641
Sr 216.596	204.777	205.413	206.663
Ti 334.941	192.331	193.341	194.145
Tl 190.794	47.1164	43.4217	40.9071
V 292.401	192.101	192.292	192.936
Zn 206.200	177.574	179.455	180.243

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	197.604	ppb	1.4694	0.7	13780.1
Al 308.215	1868.85	ppb	6.2295	0.3	10965.5
As 188.980	195.025	ppb	7.3866	3.8	107.869
B 249.678	365.124	ppb	3.6362	1.0	3684.45
Ba 389.178	188.962	ppb	1.2219	0.6	4585.39
Be 313.042	194.735	ppb	0.5243	0.3	376782
Ca 370.602	18855	ppb	80.44	0.4	59310
Cd 226.502	190.916	ppb	0.6496	0.3	6855.54
Co 228.615	191.998	ppb	1.0278	0.5	2207.99
Cr 267.716	192.465	ppb	0.8693	0.5	8064.18
Cu 324.754	193.438	ppb	1.8363	0.9	9456.16
Fe 271.441	19835.1	ppb	70.5063	0.4	33277.4
K 766.491	18899.9	ppb	71.0876	0.4	927812
Mg 279.078	19159.1	ppb	59.6901	0.3	39017.1
Mn 257.610	1963.84	ppb	6.6883	0.3	445544
Mo 202.032	191.796	ppb	0.9241	0.5	1252.33
Na 330.237	16807.8	ppb	124.829	0.7	841.028
Ni 231.604	190.833	ppb	0.6176	0.3	452.405
Pb 220.353	190.407	ppb	1.5030	0.8	308.776
Sb 206.834	183.894	ppb	5.4218	2.9	178.176
Se 196.026	193.845	ppb	8.0071	4.1	89.5172
Sn 189.925	194.205	ppb	3.3377	1.7	147.684
Sr 216.596	205.618	ppb	0.9597	0.5	1947.07
Ti 334.941	193.272	ppb	0.9091	0.5	49340.3
Tl 190.794	43.8151	ppb	3.1233	7.1	26.1619
V 292.401	192.443	ppb	0.4376	0.2	5241.49
Zn 206.200	179.091	ppb	1.3714	0.8	274.073

E03272013.vvq. All Data Report 3/28/2013, 2:04:12 PM

680-88541-a-4-b (Samp)                      3/27/2013, 6:56:04 PM                      Rack 1, Tube 31  
 Weight: 1                                      Volume: 1                                      Dilution: 1

Label	Replicates Concentration		
Ag 328.068	1.5083	1.7050	1.7142
Al 308.215	60.4232	62.2783	59.6517
As 188.980	0.7195	-1.8108u	-4.2010u
B 249.678	39.5777	38.3684	37.4197
Ba 389.178	25.4605	24.6743	23.9574
Be 313.042	-0.0403u	-0.0430u	-0.0416u
Ca 370.602	13095	13116	13102
Cd 226.502	640.632	641.071	639.069
Co 228.615	0.2377	-0.5402u	0.5630
Cr 267.716	76.7144	76.9609	76.8992
Cu 324.754	5.3058	4.2428	4.8283
Fe 271.441	62.3484	63.4846	67.1828
K 766.491	3452.21	3441.33	3432.53
Mg 279.078	2180.82	2187.99	2187.74
Mn 257.610	7.8832	7.8377	7.8022
Mo 202.032	0.0472	0.7305	-0.0243u
Na 330.237	13930.6	13918.0	13975.3
Ni 231.604	34.8261	37.7113	35.5899
Pb 220.353	-0.2709u	1.2337	-0.8370u
Sb 206.834	-2.4785u	1.3221	4.3101
Se 196.026	-0.0053u	-4.6719u	2.8536
Sn 189.925	-2.5954u	-2.2067u	2.6501
Sr 216.596	88.9588	88.9926	89.1388
Ti 334.941	9.3460	9.3694	9.3865
Tl 190.794	3.4559	-0.6222u	0.0763
V 292.401	0.3394	0.9327	0.8846
Zn 206.200	10.0798	10.9159	9.7355

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	1.6425	ppb	0.1163	7.1	79.0882
Al 308.215	60.7844	ppb	1.3500	2.2	591.763
As 188.980	-1.7641	ppb	2.4606	139.5	1.2090
B 249.678	38.4553	ppb	1.0816	2.8	710.556
Ba 389.178	24.6974	ppb	0.7518	3.0	578.567
Be 313.042	-0.0416	ppb	0.0014	3.3	-250.603
Ca 370.602	13104	ppb	10.67	0.1	42293
Cd 226.502	640.257	ppb	1.0519	0.2	22805.0
Co 228.615	0.0868	ppb	0.5669	652.8	15.1540
Cr 267.716	76.8582	ppb	0.1283	0.2	3217.33
Cu 324.754	4.7923	ppb	0.5324	11.1	339.163
Fe 271.441	64.3386	ppb	2.5278	3.9	110.538
K 766.491	3442.03	ppb	9.8555	0.3	169156
Mg 279.078	2185.52	ppb	4.0699	0.2	4473.07
Mn 257.610	7.8410	ppb	0.0406	0.5	1861.91
Mo 202.032	0.2511	ppb	0.4167	165.9	16.8963
Na 330.237	13941.3	ppb	30.0758	0.2	703.984
Ni 231.604	36.0424	ppb	1.4949	4.1	86.1466
Pb 220.353	0.0420	ppb	1.0702	2550.6	2.5384
Sb 206.834	1.0512	ppb	3.4024	323.7	3.0068
Se 196.026	-0.6079	ppb	3.7988	624.9	-0.1093
Sn 189.925	-0.7173	ppb	2.9227	407.4	0.2810
Sr 216.596	89.0301	ppb	0.0956	0.1	849.691
Ti 334.941	9.3673	ppb	0.0203	0.2	2366.87
Tl 190.794	0.9700	ppb	2.1810	224.8	0.3723
V 292.401	0.7189	ppb	0.3296	45.8	9.3857
Zn 206.200	10.2437	ppb	0.6070	5.9	181.797

E03272013.wvq. All Data Report 3/28/2013, 2:04:12 PM

680-88541-a-4-bSD^5 (Samp) 3/27/2013, 7:01:29 PM Rack 1, Tube 32

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-1.0188u	-0.5313u	-0.4704u
Al 308.215	14.6281	14.7413	12.5444
As 188.980	-6.1928u	0.3238	-8.0879u
B 249.678	-14.8162u	-15.0758u	-14.2925u
Ba 389.178	5.5494	5.5640	6.0325
Be 313.042	-0.0376u	-0.0367u	-0.0419u
Ca 370.602	3058	3001	2973
Cd 226.502	151.897	148.387	146.742
Co 228.615	-0.1078u	-0.2866u	-0.7673u
Cr 267.716	17.4095	17.3022	17.0763
Cu 324.754	0.7064	0.5082	0.2476
Fe 271.441	17.9814	19.4533	8.9097
K 766.491	822.136	803.128	792.810
Mg 279.078	526.485	511.246	504.318
Mn 257.610	1.8213	1.7115	1.6702
Mo 202.032	-0.9078u	-0.4958u	0.0613
Na 330.237	3250.33	3397.52	3100.20
Ni 231.604	8.8826	7.3767	9.0869
Pb 220.353	-1.6246u	1.4801	0.3799
Sb 206.834	2.7156	2.4046	-2.1044u
Se 196.026	1.4054	-4.1834u	0.5139
Sn 189.925	-4.7036u	-0.6250u	-1.6573u
Sr 216.596	20.7755	20.4699	20.3097
Ti 334.941	1.9826	2.0756	1.9440
Tl 190.794	2.6996	-4.9191u	2.6478
V 292.401	0.3648	0.6473	0.2727
Zn 206.200	2.0916	2.3733	2.7153

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.6735	ppb	0.3006	44.6	-79.9196
Al 308.215	13.9713	ppb	1.2370	8.9	323.685
As 188.980	-4.6523	ppb	4.4124	94.8	-0.4328
B 249.678	-14.7282	ppb	0.3990	2.7	223.483
Ba 389.178	5.7153	ppb	0.2748	4.8	119.780
Be 313.042	-0.0387	ppb	0.0028	7.2	-246.992
Ca 370.602	3010	ppb	43.74	1.5	9713
Cd 226.502	149.009	ppb	2.6331	1.8	5317.42
Co 228.615	-0.3872	ppb	0.3411	88.1	9.3667
Cr 267.716	17.2627	ppb	0.1701	1.0	729.871
Cu 324.754	0.4874	ppb	0.2301	47.2	131.292
Fe 271.441	15.4481	ppb	5.7101	37.0	28.3659
K 766.491	806.025	ppb	14.8763	1.8	39784.1
Mg 279.078	514.016	ppb	11.3398	2.2	1068.71
Mn 257.610	1.7343	ppb	0.0781	4.5	467.805
Mo 202.032	-0.4475	ppb	0.4863	108.7	12.3888
Na 330.237	3249.35	ppb	148.659	4.6	161.166
Ni 231.604	8.4487	ppb	0.9340	11.1	20.9209
Pb 220.353	0.0785	ppb	1.5741	2006.5	2.6012
Sb 206.834	1.0053	ppb	2.6975	268.3	2.4115
Se 196.026	-0.7547	ppb	3.0026	397.8	-0.1781
Sn 189.925	-2.3287	ppb	2.1205	91.1	-0.9448
Sr 216.596	20.5184	ppb	0.2366	1.2	203.892
Ti 334.941	2.0007	ppb	0.0677	3.4	482.052
Tl 190.794	0.1428	ppb	4.3838	3070.3	-0.1664
V 292.401	0.4282	ppb	0.1952	45.6	5.0769
Zn 206.200	2.3934	ppb	0.3123	13.1	63648



E03272013.vvq. All Data Report 3/28/2013, 2:04:12 PM

680-88541-a-4-bPDS (Samp) 3/27/2013, 7:06:54 PM Rack 1, Tube 33

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	52.0135	52.9384	52.1606
Al 308.215	1984.69	1994.22	1993.28
As 188.980	2130.51	2153.47	2129.81
B 249.678	1058.86	1072.21	1078.70
Ba 389.178	2063.88	2070.70	2066.00
Be 313.042	50.4883	50.5779	50.5352
Ca 370.602	17972	18048	18027
Cd 226.502	684.051	687.067	684.238
Co 228.615	510.665	508.166	507.988
Cr 267.716	277.097	278.023	278.485
Cu 324.754	260.949	255.139	255.712
Fe 271.441	1074.17	1073.27	1074.45
K 766.491	8694.27	8701.81	8656.77
Mg 279.078	7215.30	7228.45	7224.09
Mn 257.610	522.503	524.445	523.247
Mo 202.032	509.138	511.578	511.415
Na 330.237	18809.8	19028.9	18981.5
Ni 231.604	536.901	539.424	540.499
Pb 220.353	500.510	505.307	497.297
Sb 206.834	498.290	501.094	494.661
Se 196.026	2006.03	2033.84	2016.88
Sn 189.925	1029.48	1034.37	1028.05
Sr 216.596	606.676	609.216	611.259
Ti 334.941	1019.66	1022.10	1021.73
Tl 190.794	2069.37	2067.58	2081.33
V 292.401	506.178	506.981	505.562
Zn 206.200	508.619	507.112	505.324

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	52.3708	ppb	0.4970	0.9	3608.03
Al 308.215	1990.73	ppb	5.2526	0.3	11700.0
As 188.980	2137.93	ppb	13.4627	0.6	1162.78
B 249.678	1069.92	ppb	10.1163	0.9	10156.9
Ba 389.178	2066.86	ppb	3.4915	0.2	49461.6
Be 313.042	50.5338	ppb	0.0448	0.1	97558.1
Ca 370.602	18015	ppb	39.31	0.2	58267
Cd 226.502	685.119	ppb	1.6896	0.2	24404.4
Co 228.615	508.940	ppb	1.4970	0.3	5843.85
Cr 267.716	277.868	ppb	0.7070	0.3	11619.8
Cu 324.754	257.267	ppb	3.2016	1.2	12538.0
Fe 271.441	1073.96	ppb	0.6181	0.1	1884.83
K 766.491	8684.28	ppb	24.1241	0.3	426441
Mg 279.078	7222.61	ppb	6.6980	0.1	14724.1
Mn 257.610	523.398	ppb	0.9795	0.2	118798
Mo 202.032	510.710	ppb	1.3638	0.3	3311.59
Na 330.237	18940.1	ppb	115.236	0.6	946.109
Ni 231.604	538.942	ppb	1.8467	0.3	1274.90
Pb 220.353	501.038	ppb	4.0309	0.8	807.272
Sb 206.834	498.015	ppb	3.2253	0.6	473.512
Se 196.026	2018.91	ppb	14.0177	0.7	925.622
Sn 189.925	1030.63	ppb	3.3134	0.3	780.192
Sr 216.596	609.050	ppb	2.2959	0.4	5724.87
Ti 334.941	1021.16	ppb	1.3181	0.1	260427
Tl 190.794	2072.76	ppb	7.4724	0.4	1367.58
V 292.401	506.241	ppb	0.7117	0.1	13817.6
Zn 206.200	507.018	ppb	1.6494	0.3	575.393

E03272013.vvq. All Data Report 3/28/2013, 2:04:12 PM

680-88541-a-4-c ms (Samp) 3/27/2013, 7:12:20 PM Rack 1, Tube 34

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	12.2638	12.1677	12.9438
Al 308.215	4799.04	4778.88	4766.15
As 188.980	100.073	100.512	85.2095
B 249.678	244.839	242.163	242.353
Ba 389.178	121.516	119.658	120.744
Be 313.042	49.4997	49.1237	49.0836
Ca 370.602	16924	16765	16749
Cd 226.502	641.916	638.359	637.304
Co 228.615	49.4785	48.6713	48.2317
Cr 267.716	168.807	167.183	167.762
Cu 324.754	103.655	100.976	100.292
Fe 271.441	4885.97	4852.42	4836.08
K 766.491	8228.53	8128.58	8099.35
Mg 279.078	6851.58	6785.58	6785.64
Mn 257.610	505.036	501.330	501.040
Mo 202.032	97.0216	98.5386	96.4048
Na 330.237	17641.0	17492.7	17593.0
Ni 231.604	129.093	130.547	129.158
Pb 220.353	47.1625	48.7136	46.5035
Sb 206.834	51.7207	49.1259	48.0363
Se 196.026	86.3219	86.8492	96.5067
Sn 189.925	192.201	185.028	196.218
Sr 216.596	180.691	180.169	179.706
Ti 334.941	106.879	105.735	105.664
Tl 190.794	36.7103	41.4245	37.9075
V 292.401	99.7408	98.8500	98.7338
Zn 206.200	104.162	104.602	106.231

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	12.4584	ppb	0.4231	3.4	833.820
Al 308.215	4781.36	ppb	16.5835	0.3	27630.3
As 188.980	95.2648	ppb	8.7108	9.1	53.8493
B 249.678	243.118	ppb	1.4928	0.6	2580.71
Ba 389.178	120.639	ppb	0.9334	0.8	2894.47
Be 313.042	49.2357	ppb	0.2295	0.5	95127.7
Ca 370.602	16813	ppb	96.77	0.6	53899
Cd 226.502	639.193	ppb	2.4165	0.4	22778.3
Co 228.615	48.7938	ppb	0.6324	1.3	571.487
Cr 267.716	167.917	ppb	0.8229	0.5	7026.31
Cu 324.754	101.641	ppb	1.7775	1.7	5018.17
Fe 271.441	4858.16	ppb	25.4378	0.5	8153.37
K 766.491	8152.15	ppb	67.7394	0.8	400324
Mg 279.078	6807.60	ppb	38.0871	0.6	13879.0
Mn 257.610	502.469	ppb	2.2282	0.4	114060
Mo 202.032	97.3217	ppb	1.0981	1.1	643.216
Na 330.237	17575.6	ppb	75.6718	0.4	885.679
Ni 231.604	129.599	ppb	0.8211	0.6	307.383
Pb 220.353	47.4599	ppb	1.1347	2.4	78.6551
Sb 206.834	49.6276	ppb	1.8928	3.8	49.5149
Se 196.026	89.8926	ppb	5.7341	6.4	41.4964
Sn 189.925	191.149	ppb	5.6688	3.0	145.373
Sr 216.596	180.189	ppb	0.4927	0.3	1705.90
Ti 334.941	106.093	ppb	0.6821	0.6	27054.4
Tl 190.794	38.6808	ppb	2.4504	6.3	24.6441
V 292.401	99.1082	ppb	0.5509	0.6	2692.65
Zn 206.200	104.999	ppb	1.0896	1.0	161.711

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680-88541-a-4-d msd (Samp) 3/27/2013, 7:17:46 PM Rack 1, Tube 35

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	12.6438	11.9478	12.4746
Al 308.215	4811.61	4812.72	4803.90
As 188.980	93.4824	97.3248	99.7048
B 249.678	232.159	233.664	234.879
Ba 389.178	120.626	122.292	121.019
Be 313.042	49.4708	49.4862	49.3738
Ca 370.602	16989	16986	16965
Cd 226.502	647.512	646.746	645.848
Co 228.615	49.4094	49.1057	48.9265
Cr 267.716	167.821	168.116	168.596
Cu 324.754	101.645	101.149	100.159
Fe 271.441	4892.09	4903.01	4876.11
K 766.491	8285.36	8271.20	8210.89
Mg 279.078	6874.65	6863.81	6845.81
Mn 257.610	504.931	504.587	504.620
Mo 202.032	97.6683	96.4157	96.7225
Na 330.237	17750.9	17923.3	17678.9
Ni 231.604	129.776	129.238	129.437
Pb 220.353	47.1619	46.8693	49.1753
Sb 206.834	50.2361	50.4669	46.5113
Se 196.026	90.7523	98.3134	95.7465
Sn 189.925	189.545	190.631	191.102
Sr 216.596	181.717	181.756	181.518
Ti 334.941	106.300	106.277	106.319
Tl 190.794	34.5871	51.6119	31.5857
V 292.401	99.2040	99.8074	98.9796
Zn 206.200	103.564	107.935	107.049

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	12.3554	ppb	0.3630	2.9	826.551
Al 308.215	4809.41	ppb	4.8066	0.1	27790.9
As 188.980	96.8373	ppb	3.1397	3.2	54.7042
B 249.678	233.567	ppb	1.3624	0.6	2493.20
Ba 389.178	121.312	ppb	0.8710	0.7	2910.77
Be 313.042	49.4436	ppb	0.0609	0.1	95530.3
Ca 370.602	16980	ppb	13.39	0.1	54437
Cd 226.502	646.702	ppb	0.8328	0.1	23045.6
Co 228.615	49.1472	ppb	0.2441	0.5	575.539
Cr 267.716	168.177	ppb	0.3910	0.2	7037.14
Cu 324.754	100.984	ppb	0.7565	0.7	4986.46
Fe 271.441	4890.40	ppb	13.5283	0.3	8207.45
K 766.491	8255.82	ppb	39.5488	0.5	405412
Mg 279.078	6861.42	ppb	14.5654	0.2	13988.6
Mn 257.610	504.713	ppb	0.1899	0.0	114569
Mo 202.032	96.9355	ppb	0.6529	0.7	640.722
Na 330.237	17784.4	ppb	125.594	0.7	896.263
Ni 231.604	129.484	ppb	0.2721	0.2	307.111
Pb 220.353	47.7355	ppb	1.2555	2.6	79.0983
Sb 206.834	49.0714	ppb	2.2201	4.5	48.9917
Se 196.026	94.9374	ppb	3.8449	4.0	43.8092
Sn 189.925	190.426	ppb	0.7988	0.4	144.826
Sr 216.596	181.664	ppb	0.1275	0.1	1719.83
Ti 334.941	106.299	ppb	0.0212	0.0	27107.1
Tl 190.794	39.2616	ppb	10.8005	27.5	25.0246
V 292.401	99.3303	ppb	0.4281	0.4	2698.75
Zn 206.200	106.183	ppb	2.3106	2.2	163.508

E03272013.vvq. All Data Report 3/28/2013, 2:04:12 PM

680-88541-a-6-a (Samp)                      3/27/2013, 7:23:24 PM                      Rack 1, Tube 36  
 Weight: 1                                      Volume: 1                                      Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.2699u	-0.2266u	0.3928
Al 308.215	446.715	443.162	447.936
As 188.980	0.5219	-5.5908u	4.0682
B 249.678	58.8430	59.6456	59.3997
Ba 389.178	42.3262	42.8354	42.9450
Be 313.042	-0.0063u	-0.0037u	-0.0148u
Ca 370.602	11479	11497	11517
Cd 226.502	-0.1324u	-0.0705	0.0040
Co 228.615	0.1547	0.4690	0.6980
Cr 267.716	0.5082	0.5871	0.6816
Cu 324.754	17.7568	17.9033	16.9967
Fe 271.441	1493.83	1510.09	1495.47
K 766.491	5593.71	5589.94	5570.50
Mg 279.078	2189.49	2190.90	2193.05
Mn 257.610	170.900	171.110	171.255
Mo 202.032	0.1311	0.3565	-0.2637u
Na 330.237	21578.4	21865.9	21813.9
Ni 231.604	3.3865	1.7572	1.0508
Pb 220.353	5.8352	2.6203	1.4038
Sb 206.834	0.5623	-3.7487u	-6.6941u
Se 196.026	8.2590	1.9940	-4.3769u
Sn 189.925	0.7056	-1.6847u	-2.0797u
Sr 216.596	61.2622	61.5479	60.7809
Ti 334.941	6.1002	5.6643	6.0692
Tl 190.794	-2.4653u	-5.4246u	-1.3767u
V 292.401	1.1439	1.1304	1.3613
Zn 206.200	48.5224	51.0042	50.6610

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0346	ppb	0.3708	1072.6	-36.2999
Al 308.215	445.938	ppb	2.4800	0.6	2796.93
As 188.980	-0.3336	ppb	4.8860	1464.8	1.9611
B 249.678	59.2961	ppb	0.4112	0.7	900.130
Ba 389.178	42.7022	ppb	0.3302	0.8	1011.50
Be 313.042	-0.0083	ppb	0.0058	70.3	-187.693
Ca 370.602	11498	ppb	19.05	0.2	36992
Cd 226.502	-0.0663	ppb	0.0683	103.0	14.0214
Co 228.615	0.4406	ppb	0.2727	61.9	18.8215
Cr 267.716	0.5923	ppb	0.0868	14.7	35.4565
Cu 324.754	17.5523	ppb	0.4867	2.8	955.639
Fe 271.441	1499.80	ppb	8.9542	0.6	2516.26
K 766.491	5584.72	ppb	12.4607	0.2	274317
Mg 279.078	2191.14	ppb	1.7914	0.1	4482.14
Mn 257.610	171.088	ppb	0.1783	0.1	38883.1
Mo 202.032	0.0746	ppb	0.3139	420.6	15.6917
Na 330.237	21752.8	ppb	153.234	0.7	1099.96
Ni 231.604	2.0648	ppb	1.1978	58.0	5.8588
Pb 220.353	3.2864	ppb	2.2896	69.7	7.7873
Sb 206.834	-3.2935	ppb	3.6495	110.8	-1.8218
Se 196.026	1.9587	ppb	6.3180	322.6	1.1084
Sn 189.925	-1.0196	ppb	1.5071	147.8	0.0543
Sr 216.596	61.1970	ppb	0.3876	0.6	588.416
Ti 334.941	5.9446	ppb	0.2432	4.1	1493.59
Tl 190.794	-3.0889	ppb	2.0948	67.8	-2.5133
V 292.401	1.2119	ppb	0.1296	10.7	27.5176
Zn 206.200	50.0625	ppb	1.3448	2.7	78.8109

E03272013.wvq. All Data Report 3/28/2013, 2:04:12 PM

Cont Calib Verif (CCV) 3/27/2013, 7:28:50 PM Rack 1, Tube 37  
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	498.836	502.187	497.218
Al 308.215	5001.74	5017.68	4993.20
As 188.980	469.585	460.066	469.524
B 249.678	2508.45	2539.98	2548.57
Ba 389.178	4947.74	4959.54	4929.19
Be 313.042	492.660	494.240	491.248
Ca 370.602	4953	4968	4939
Cd 226.502	493.986	496.189	494.079
Co 228.615	497.885	498.936	496.710
Cr 267.716	4939.96	4948.56	4923.32
Cu 324.754	4913.34	4885.53	4878.71
Fe 271.441	4974.54	4995.69	4968.58
K 766.491	10136.4	10156.3	10056.2
Mg 279.078	4942.54	4960.75	4936.06
Mn 257.610	4988.06	4993.88	4966.82
Mo 202.032	490.482	490.163	488.785
Na 330.237	7427.17	7483.43	7238.21
Ni 231.604	2489.23	2494.12	2478.93
Pb 220.353	493.279	502.275	491.445
Sb 206.834	920.877	916.865	919.114
Se 196.026	4891.29	4896.96	4883.02
Sn 189.925	4998.85	5049.16	4986.19
Sr 216.596	2473.20	2476.82	2462.26
Ti 334.941	498.355	498.935	496.048
Tl 190.794	5008.54	4992.65	4977.67
V 292.401	4943.05	4960.43	4932.15
Zn 206.200	2472.56	2484.40	2468.56

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	499.414	ppb	2.5348	0.5	34820.3	99.88272
Al 308.215	5004.21	ppb	12.4213	0.2	28871.8	100.08413
As 188.980	466.392	ppb	5.4781	1.2	255.159	93.27837
B 249.678	2532.33	ppb	21.1227	0.8	23547.8	101.29339
Ba 389.178	4945.49	ppb	15.2992	0.3	118350	98.90977
Be 313.042	492.716	ppb	1.4964	0.3	953420	98.54321
Ca 370.602	4953	ppb	14.62	0.3	15851	99.06554
Cd 226.502	494.752	ppb	1.2460	0.3	17636.9	98.95030
Co 228.615	497.844	ppb	1.1132	0.2	5716.26	99.56874
Cr 267.716	4937.28	ppb	12.8344	0.3	206385	98.74560
Cu 324.754	4892.53	ppb	18.3467	0.4	236294	97.85056
Fe 271.441	4979.60	ppb	14.2463	0.3	8469.29	99.59209
K 766.491	10116.3	ppb	52.9925	0.5	496723	101.16322
Mg 279.078	4946.45	ppb	12.7989	0.3	10018.9	98.92899
Mn 257.610	4982.92	ppb	14.2405	0.3	1130021	99.65835
Mo 202.032	489.810	ppb	0.9018	0.2	3169.02	97.96199
Na 330.237	7382.93	ppb	128.457	1.7	347.672	98.43912
Ni 231.604	2487.43	ppb	7.7510	0.3	5880.72	99.49702
Pb 220.353	495.666	ppb	5.7963	1.2	799.817	99.13322
Sb 206.834	918.952	ppb	2.0108	0.2	923.647	91.89522
Se 196.026	4890.42	ppb	7.0117	0.1	2242.76	97.80844
Sn 189.925	5011.40	ppb	33.3092	0.7	3790.44	100.22795
Sr 216.596	2470.76	ppb	7.5830	0.3	23232.2	98.83044
Ti 334.941	497.779	ppb	1.5274	0.3	126940	99.55585
Tl 190.794	4992.96	ppb	15.4346	0.3	3292.15	99.85910
V 292.401	4945.21	ppb	14.2633	0.3	135624	98.90416
Zn 206.200	2475.17	ppb	8.2385	0.3	3743.78	99.00687

E03272013.vvq. All Data Report 3/28/2013, 2:04:12 PM

Cont Calib Blank (CCB)                      3/27/2013, 7:34:14 PM                      Rack 1, Tube 38  
 Weight: 1    Volume: 1    Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-1.5203u	-1.2796u	-0.9711u
Al 308.215	0.6445	0.1343	1.5125
As 188.980	2.3585	2.6518	-2.7308u
B 249.678	32.4408	27.7206	22.2387
Ba 389.178	-0.1399u	0.2202	-0.2253u
Be 313.042	-0.0273u	-0.0550u	-0.0241u
Ca 370.602	-2.976u	-7.030u	3.054
Cd 226.502	0.0174	-0.0586u	-0.0657u
Co 228.615	0.2507	-0.4545u	-0.8742u
Cr 267.716	-0.2006u	-0.0229u	-0.0300u
Cu 324.754	-0.6331u	-0.4361u	-0.4172u
Fe 271.441	-5.0285u	4.9133	-2.0873u
K 766.491	-0.9249u	-0.8387u	0.0982
Mg 279.078	-3.9342u	2.6744	4.2703
Mn 257.610	-0.0645u	-0.0872u	-0.1362u
Mo 202.032	-1.0401u	-0.2627u	-0.6913u
Na 330.237	290.480	325.412	167.544
Ni 231.604	-0.3663u	-0.4992u	-0.6425u
Pb 220.353	1.3545	-0.8570u	0.1125
Sb 206.834	1.1196	1.3591	6.4390
Se 196.026	0.0089	-5.3304u	-4.1006u
Sn 189.925	-1.1493u	-3.6139u	-1.9954u
Sr 216.596	0.0061	0.2507	-1.0680u
Ti 334.941	-0.0373u	-0.0992u	-0.0930u
Tl 190.794	4.5239	5.3445	3.2028
V 292.401	0.0544	0.3895	0.7883
Zn 206.200	0.0531	-0.0564u	0.5004

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	-1.2570	ppb	0.2753	21.9	-119.845	-1.25698
Al 308.215	0.7638	ppb	0.6968	91.2	248.026	0.76376
As 188.980	0.7598	ppb	3.0265	398.3	2.4836	0.75980
B 249.678	27.4667	ppb	5.1057	18.6	609.963	27.46671
Ba 389.178	-0.0483	ppb	0.2365	489.3	-19.5400	-0.04833
Be 313.042	-0.0354	ppb	0.0170	47.9	-241.203	-0.03543
Ca 370.602	-2.317	ppb	5.074	219.0	-10.93	-2.31734
Cd 226.502	-0.0356	ppb	0.0460	129.2	11.7219	-0.03562
Co 228.615	-0.3593	ppb	0.5685	158.2	9.5871	-0.35931
Cr 267.716	-0.0845	ppb	0.1006	119.0	5.8671	-0.08449
Cu 324.754	-0.4955	ppb	0.1195	24.1	83.8252	-0.49546
Fe 271.441	-0.7342	ppb	5.1071	695.6	1.2692	-0.73418
K 766.491	-0.5551	ppb	0.5674	102.2	198.028	-0.55515
Mg 279.078	1.0035	ppb	4.3500	433.5	23.8483	1.00349
Mn 257.610	-0.0960	ppb	0.0366	38.2	49.8933	-0.09598
Mo 202.032	-0.6647	ppb	0.3894	58.6	10.9867	-0.66471
Na 330.237	261.145	ppb	82.9215	31.8	9.4587	261.14548
Ni 231.604	-0.5027	ppb	0.1381	27.5	-0.2384	-0.50268
Pb 220.353	0.2034	ppb	1.1086	545.1	2.8034	0.20337
Sb 206.834	2.9726	ppb	3.0044	101.1	4.1326	2.97257
Se 196.026	-3.1407	ppb	2.7961	89.0	-1.2721	-3.14070
Sn 189.925	-2.2529	ppb	1.2523	55.6	-0.8896	-2.25287
Sr 216.596	-0.2704	ppb	0.7015	259.4	7.9644	-0.27040
Ti 334.941	-0.0765	ppb	0.0341	44.6	-49.5968	-0.07648
Tl 190.794	4.3571	ppb	1.0805	24.8	2.6179	4.35705
V 292.401	0.4107	ppb	0.3674	89.5	5.7030	0.41073
Zn 206.200	0.1657	ppb	0.2950	178.0	2.0123	0.16571

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680-88541-a-7-a (Samp)                      3/27/2013, 7:39:38 PM                      Rack 1, Tube 39  
 Weight: 1                                      Volume: 1                                      Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-1.6743u	-1.1993u	-1.2298u
Al 308.215	1401.18	1400.90	1400.88
As 188.980	-3.2321u	-5.0388u	-10.7807u
B 249.678	157.820	158.420	159.128
Ba 389.178	126.059	124.731	125.537
Be 313.042	-0.0034u	-0.0038u	0.0023u
Ca 370.602	40338	40240	40097
Cd 226.502	0.0414	-0.1701u	0.0799
Co 228.615	0.1927	0.1601	0.5694
Cr 267.716	2.1686	2.0886	2.0880
Cu 324.754	2.4858	1.8269	2.8926
Fe 271.441	539.282	530.854	537.619
K 766.491	69081.4x	69147.4x	69099.1x
Mg 279.078	6672.04	6664.29	6656.63
Mn 257.610	1683.76	1679.51	1681.64
Mo 202.032	3.4656	2.8492	3.2051
Na 330.237	493966x	495342x	494069x
Ni 231.604	2.6172	3.7500	1.0292
Pb 220.353	1.0509	2.0186	0.4352
Sb 206.834	-2.6702u	-3.0398u	4.6288
Se 196.026	1.6129	16.9729	-2.3760u
Sn 189.925	-2.4084u	-4.1101u	-5.7611u
Sr 216.596	228.078	226.735	225.984
Ti 334.941	12.9205	12.7418	12.6230
Tl 190.794	7.5077	4.0470	5.3774
V 292.401	5.9227	5.9245	5.5468
Zn 206.200	46.0121	45.4246	44.4937

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.3678b	ppb	0.2659	19.4	-130.163
Al 308.215	1400.99b	ppb	0.1685	0.0	8265.40
As 188.980	-6.3505b	ppb	3.9416	62.1	-1.0860
B 249.678	158.456b	ppb	0.6551	0.4	1809.33
Ba 389.178	125.442b	ppb	0.6689	0.5	3001.96
Be 313.042	-0.0017b	ppb	0.0034	206.8	-226.445
Ca 370.602	40225b	ppb	121.3	0.3	129845
Cd 226.502	-0.0163b	ppb	0.1346	826.4	11.0491
Co 228.615	0.3074b	ppb	0.2275	74.0	17.4489
Cr 267.716	2.1150b	ppb	0.0463	2.2	112.045
Cu 324.754	2.4018b	ppb	0.5378	22.4	223.914
Fe 271.441	535.919b	ppb	4.4637	0.8	900.861
K 766.491	69109.3xb	ppb	34.1634	0.0	3392034
Mg 279.078	6664.32b	ppb	7.7073	0.1	13569.1
Mn 257.610	1681.64b	ppb	2.1259	0.1	381429
Mo 202.032	3.1733b	ppb	0.3095	9.8	35.7327
Na 330.237	494459xb	ppb	766.075	0.2	25104.6
Ni 231.604	2.4655b	ppb	1.3667	55.4	6.7881
Pb 220.353	1.1682b	ppb	0.7982	68.3	4.6707
Sb 206.834	-0.3604b	ppb	4.3247	1200.0	0.9328
Se 196.026	5.4033b	ppb	10.2162	189.1	3.0306
Sn 189.925	-4.0932b	ppb	1.6764	41.0	-2.1035
Sr 216.596	226.933b	ppb	1.0607	0.5	2151.54
Ti 334.941	12.7618b	ppb	0.1497	1.2	3216.36
Tl 190.794	5.6441b	ppb	1.7457	30.9	1.8229
V 292.401	5.7980b	ppb	0.2176	3.8	149.249
Zn 206.200	45.3101b	ppb	0.7656	1.7	571.8225

E03272013.vvq. All Data Report 3/28/2013, 2:04:12 PM

680-88541-a-8-a (Samp) 3/27/2013, 7:45:02 PM Rack 1, Tube 40

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.6441u	-0.9907u	-0.4642u
Al 308.215	780.327	781.668	775.317
As 188.980	-1.1681u	-0.1508	-4.3110u
B 249.678	78.1358	79.1923	78.8108
Ba 389.178	52.4231	52.5874	51.8079
Be 313.042	0.0146	0.0002u	0.0135
Ca 370.602	31116	31138	31058
Cd 226.502	170.444	170.510	170.886
Co 228.615	0.1156u	1.2086	0.9968
Cr 267.716	72.4351	71.9504	71.8129
Cu 324.754	30.0463	31.1315	29.9255
Fe 271.441	1470.87	1484.94	1473.60
K 766.491	23341.1	23403.2	23418.3
Mg 279.078	2128.14	2149.81	2129.44
Mn 257.610	100.547	100.413	100.339
Mo 202.032	74.8810	75.8473	75.0167
Na 330.237	29134.6	28855.6	29228.4
Ni 231.604	10.2744	9.0369	9.6108
Pb 220.353	2.9475	-1.3457u	2.2345
Sb 206.834	-0.3507u	1.5137	2.8561
Se 196.026	-6.4559u	-2.3042u	-1.5366u
Sn 189.925	-1.0830u	-3.8990u	-2.4384u
Sr 216.596	200.394	200.255	200.489
Ti 334.941	6.5279	6.4420	6.4861
Tl 190.794	1.8318	-1.9565u	5.7956
V 292.401	2.7661	2.6200	2.5168
Zn 206.200	118.352	117.176	120.848

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.6997	ppb	0.2676	38.2	-88.9656
Al 308.215	779.104	ppb	3.3476	0.4	4714.35
As 188.980	-1.8766	ppb	2.1687	115.6	1.2507
B 249.678	78.7129	ppb	0.5350	0.7	1078.02
Ba 389.178	52.2728	ppb	0.4109	0.8	1240.71
Be 313.042	0.0095	ppb	0.0080	84.8	-160.120
Ca 370.602	31104	ppb	41.33	0.1	100280
Cd 226.502	170.614	ppb	0.2386	0.1	6089.78
Co 228.615	0.7737	ppb	0.5796	74.9	20.3975
Cr 267.716	72.0661	ppb	0.3268	0.5	3021.80
Cu 324.754	30.3678	ppb	0.6642	2.2	1576.37
Fe 271.441	1476.47	ppb	7.4620	0.5	2477.36
K 766.491	23387.5	ppb	40.9063	0.2	1148060
Mg 279.078	2135.80	ppb	12.1511	0.6	4370.40
Mn 257.610	100.433	ppb	0.1055	0.1	22861.4
Mo 202.032	75.2483	ppb	0.5232	0.7	501.021
Na 330.237	29072.9	ppb	193.916	0.7	1471.18
Ni 231.604	9.6407	ppb	0.6193	6.4	23.7660
Pb 220.353	1.2788	ppb	2.3006	179.9	4.4398
Sb 206.834	1.3397	ppb	1.6104	120.2	2.2956
Se 196.026	-3.4322	ppb	2.6465	77.1	-1.3787
Sn 189.925	-2.4735	ppb	1.4083	56.9	-1.0352
Sr 216.596	200.379	ppb	0.1177	0.1	1898.60
Ti 334.941	6.4854	ppb	0.0429	0.7	1630.77
Tl 190.794	1.8903	ppb	3.8764	205.1	0.8212
V 292.401	2.6343	ppb	0.1253	4.8	47.4616
Zn 206.200	118.792	ppb	1.8748	116.6	183.040



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680-88541-a-9-a (Samp)

3/27/2013, 7:50:26 PM

Rack 1, Tube 41

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.5340u	-0.2233u	-0.6848u
Al 308.215	349.700	348.996	349.432
As 188.980	-12.8417u	-6.7182u	-10.0264u
B 249.678	22.5036	23.4425	21.8022
Ba 389.178	19.9583	19.8123	20.3826
Be 313.042	-0.0212u	-0.0025u	-0.0141u
Ca 370.602	7016	7029	7001
Cd 226.502	0.0073	0.0005	0.1428
Co 228.615	0.1562	0.2387	0.6830
Cr 267.716	0.3367	0.4154	0.2778
Cu 324.754	27.8231	27.7168	27.5165
Fe 271.441	499.993	508.997	502.329
K 766.491	3940.06	3964.44	3958.58
Mg 279.078	1161.71	1176.46	1172.76
Mn 257.610	33.1373	33.3244	33.2460
Mo 202.032	-0.6857u	-0.0881u	-0.2844u
Na 330.237	11945.4	12664.5	12295.3
Ni 231.604	1.8266	1.8833	-0.1836u
Pb 220.353	0.8934	-0.5149u	-0.3199u
Sb 206.834	-4.3329u	-0.8629u	-5.2112u
Se 196.026	1.2828	-5.2349u	-0.0136
Sn 189.925	0.7770	2.0771	-1.3726u
Sr 216.596	19.6214	19.5353	18.7563
Ti 334.941	1.6196	1.5980	1.5666
Tl 190.794	1.5853	1.7089	-1.9174u
V 292.401	2.0138	2.0169	2.0526
Zn 206.200	37.3970	39.7510	37.6403

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.4807	ppb	0.2353	48.9	-66.2844
Al 308.215	349.376	ppb	0.3554	0.1	2244.00
As 188.980	-9.8621	ppb	3.0650	31.1	-3.2362
B 249.678	22.5827	ppb	0.8230	3.6	564.774
Ba 389.178	20.0511	ppb	0.2962	1.5	465.296
Be 313.042	-0.0126	ppb	0.0095	75.2	-196.293
Ca 370.602	7016	ppb	14.19	0.2	22602
Cd 226.502	0.0502	ppb	0.0803	159.9	15.8993
Co 228.615	0.3593	ppb	0.2833	78.9	17.8277
Cr 267.716	0.3433	ppb	0.0690	20.1	24.1601
Cu 324.754	27.6855	ppb	0.1557	0.6	1444.58
Fe 271.441	503.773	ppb	4.6726	0.9	846.888
K 766.491	3954.36	ppb	12.7263	0.3	194301
Mg 279.078	1170.31	ppb	7.6711	0.7	2404.93
Mn 257.610	33.2359	ppb	0.0939	0.3	7615.91
Mo 202.032	-0.3527	ppb	0.3046	86.4	12.9758
Na 330.237	12301.7	ppb	359.596	2.9	620.445
Ni 231.604	1.1754	ppb	1.1773	100.2	3.7379
Pb 220.353	0.0195	ppb	0.7631	3914.2	2.5071
Sb 206.834	-3.4690	ppb	2.2993	66.3	-2.0076
Se 196.026	-1.3219	ppb	3.4502	261.0	-0.4295
Sn 189.925	0.4938	ppb	1.7422	352.8	1.1940
Sr 216.596	19.3043	ppb	0.4765	2.5	193.105
Ti 334.941	1.5947	ppb	0.0267	1.7	380.620
Tl 190.794	0.4589	ppb	2.0589	448.6	-0.0040
V 292.401	2.0277	ppb	0.0216	1.1	50.0556
Zn 206.200	38.2628	ppb	1.2946	3.4	60.8723

E03272013.wvq. All Data Report 3/28/2013, 2:04:12 PM

680-88560-a-1-a (Samp) 3/27/2013, 7:55:51 PM Rack 1, Tube 42

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-1.1660u	-1.1432u	-0.3202u
Al 308.215	200.620	200.514	200.133
As 188.980	2.4854	-2.5942u	0.7411
B 249.678	19.8186	20.0216	20.1662
Ba 389.178	61.8958	62.6203	61.7095
Be 313.042	0.0508	0.0533	0.0381
Ca 370.602	7230	7232	7272
Cd 226.502	0.6325	0.4796	0.6590
Co 228.615	4.9829	4.7672	5.4324
Cr 267.716	2.1048	1.8115	2.0360
Cu 324.754	1315.04	1319.40	1319.17
Fe 271.441	302.180	307.426	304.344
K 766.491	1745.82	1750.29	1762.21
Mg 279.078	1707.12	1706.65	1699.73
Mn 257.610	489.137	489.134	490.543
Mo 202.032	-0.4745u	0.0495	-0.5015u
Na 330.237	48005.6	47797.8	47888.2
Ni 231.604	30.6622	30.1466	29.5456
Pb 220.353	2.0001	-2.5609u	-0.0797u
Sb 206.834	-1.4992u	0.9416	3.3949
Se 196.026	7.9586	1.8456	-1.9407u
Sn 189.925	-0.6553u	-5.8115u	-2.9524u
Sr 216.596	49.3442	48.9324	47.4452
Ti 334.941	-0.2423u	-0.2441u	-0.2567u
Tl 190.794	-0.6733u	-2.2848u	0.7675
V 292.401	0.4356	0.2533	0.7672
Zn 206.200	260.193	263.757	259.589

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.8765	ppb	0.4818	55.0	-93.2260
Al 308.215	200.422	ppb	0.2562	0.1	1391.20
As 188.980	0.2108	ppb	2.5810	1224.7	2.2360
B 249.678	20.0021	ppb	0.1746	0.9	541.317
Ba 389.178	62.0752	ppb	0.4812	0.8	1471.97
Be 313.042	0.0474	ppb	0.0081	17.2	-84.2578
Ca 370.602	7245	ppb	23.34	0.3	23370
Cd 226.502	0.5904	ppb	0.0968	16.4	34.4794
Co 228.615	5.0608	ppb	0.3394	6.7	71.5612
Cr 267.716	1.9841	ppb	0.1534	7.7	94.9926
Cu 324.754	1317.87	ppb	2.4516	0.2	63736.6
Fe 271.441	304.650	ppb	2.6365	0.9	513.911
K 766.491	1752.77	ppb	8.4731	0.5	86249.5
Mg 279.078	1704.50	ppb	4.1341	0.2	3485.89
Mn 257.610	489.605	ppb	0.8126	0.2	111103
Mo 202.032	-0.3088	ppb	0.3106	100.6	13.2705
Na 330.237	47897.2	ppb	104.178	0.2	2426.44
Ni 231.604	30.1181	ppb	0.5588	1.9	72.1477
Pb 220.353	-0.2135	ppb	2.2834	1069.5	2.2296
Sb 206.834	0.9457	ppb	2.4470	258.7	2.2197
Se 196.026	2.6212	ppb	4.9950	190.6	1.4818
Sn 189.925	-3.1397	ppb	2.5832	82.3	-1.5418
Sr 216.596	48.5739	ppb	0.9990	2.1	468.315
Ti 334.941	-0.2477	ppb	0.0079	3.2	-89.6682
Tl 190.794	-0.7302	ppb	1.5269	209.1	-1.2227
V 292.401	0.4854	ppb	0.2605	53.7	7.2035
Zn 206.200	261.180	ppb	2.2523	0.8	399.108

E03272013.vvq. All Data Report 3/28/2013, 2:04:12 PM

680-88651-a-1-a (Samp)                      3/27/2013, 8:01:15 PM                      Rack 1, Tube 43  
 Weight: 1                                      Volume: 1                                      Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.9444u	0.5580	-1.2238u
Al 308.215	467.812	466.496	464.822
As 188.980	-1.2537u	-6.2554u	-5.0026u
B 249.678	884.441	887.751	891.138
Ba 389.178	270.041	268.244	266.796
Be 313.042	-0.0252u	-0.0293u	-0.0242u
Ca 370.602	10759	10763	10728
Cd 226.502	4.7445	4.6992	4.6333
Co 228.615	7.7513	8.2946	7.0156
Cr 267.716	4.4274	4.7459	4.8012
Cu 324.754	624.640	631.650	623.972
Fe 271.441	1368.69	1376.90	1369.34
K 766.491	5948.62	5950.19	5961.36
Mg 279.078	7561.70	7544.07	7518.81
Mn 257.610	121.567	121.603	121.449
Mo 202.032	1.3448	0.2536	2.0166
Na 330.237	80404.3	79967.6	80418.7
Ni 231.604	1247.39	1248.53	1250.02
Pb 220.353	14.2703	17.9217	9.5820
Sb 206.834	5.6744	7.0671	5.6598
Se 196.026	-3.4079u	1.0662	-4.7206u
Sn 189.925	0.0562	-0.3529u	-2.5798u
Sr 216.596	68.6595	68.5630	68.4097
Ti 334.941	15.9680	15.5694	16.4406
Tl 190.794	-2.1250u	-3.0459u	5.6129
V 292.401	1.0080	0.8211	0.7160
Zn 206.200	758.256	763.178	758.280

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.5367	ppb	0.9583	178.5	-71.8536
Al 308.215	466.377	ppb	1.4988	0.3	2914.10
As 188.980	-4.1706	ppb	2.6026	62.4	-0.1268
B 249.678	887.777	ppb	3.3489	0.4	8488.40
Ba 389.178	268.360	ppb	1.6257	0.6	6425.24
Be 313.042	-0.0262	ppb	0.0027	10.2	-230.146
Ca 370.602	10750	ppb	19.33	0.2	34589
Cd 226.502	4.6923	ppb	0.0559	1.2	182.878
Co 228.615	7.6872	ppb	0.6419	8.4	101.943
Cr 267.716	4.6582	ppb	0.2018	4.3	206.111
Cu 324.754	626.754	ppb	4.2531	0.7	30368.9
Fe 271.441	1371.64	ppb	4.5626	0.3	2302.66
K 766.491	5953.39	ppb	6.9473	0.1	292411
Mg 279.078	7541.53	ppb	21.5580	0.3	15380.4
Mn 257.610	121.540	ppb	0.0803	0.1	27676.3
Mo 202.032	1.2050	ppb	0.8898	73.8	22.9956
Na 330.237	80263.5	ppb	256.366	0.3	4065.91
Ni 231.604	1248.65	ppb	1.3166	0.1	2952.47
Pb 220.353	13.9247	ppb	4.1806	30.0	24.8823
Sb 206.834	6.1338	ppb	0.8083	13.2	7.2046
Se 196.026	-2.3541	ppb	3.0339	128.9	-0.8800
Sn 189.925	-0.9589	ppb	1.4186	147.9	0.1192
Sr 216.596	68.5441	ppb	0.1259	0.2	638.959
Ti 334.941	15.9927	ppb	0.4361	2.7	4073.96
Tl 190.794	0.1474	ppb	4.7557	3227.3	-0.3229
V 292.401	0.8484	ppb	0.1479	17.4	16.8011
Zn 206.200	759.905	ppb	2.8348	0.4	1155.86

E03272013.wvq. All Data Report 3/28/2013, 2:04:12 PM

680-88651-a-2-a (Samp) 3/27/2013, 8:06:40 PM Rack 1, Tube 44

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.9099	0.6997	1.1737
Al 308.215	180.786	180.104	178.417
As 188.980	-1.5080u	2.0817	3.3615
B 249.678	279.406	278.316	277.350
Ba 389.178	12.2590	13.7469	12.9807
Be 313.042	-0.0049u	-0.0076u	-0.0020u
Ca 370.602	33360	33220	33206
Cd 226.502	1.3533	1.1699	1.2413
Co 228.615	1.5520	1.0718	2.0573
Cr 267.716	0.8281	0.8913	0.9531
Cu 324.754	52.9912	52.6365	53.5635
Fe 271.441	139.884	140.563	142.304
K 766.491	26800.9	26792.0	26893.4
Mg 279.078	65786.7	65558.5	65427.3
Mn 257.610	192.956	192.164	192.372
Mo 202.032	1.7884	2.0622	2.4224
Na 330.237	600387x	599653x	600803x
Ni 231.604	142.726	142.916	142.453
Pb 220.353	0.1036	1.8655	1.2736
Sb 206.834	-3.2881u	0.7568	6.4393
Se 196.026	-2.1836u	-5.8802u	3.3109
Sn 189.925	-3.3162u	0.6182	-4.5218u
Sr 216.596	484.244	482.683	482.352
Ti 334.941	8.7697	8.6356	8.5555
Tl 190.794	1.7426	1.0162	-1.8095u
V 292.401	23.3528	23.8536	23.9073
Zn 206.200	838.487	837.900	828.490

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.9278b	ppb	0.2375	25.6	12.5620
Al 308.215	179.769b	ppb	1.2193	0.7	1272.89
As 188.980	1.3117b	ppb	2.5244	192.5	3.0258
B 249.678	278.357b	ppb	1.0287	0.4	2907.81
Ba 389.178	12.9955b	ppb	0.7441	5.7	470.141
Be 313.042	-0.0048b	ppb	0.0028	58.5	-248.072
Ca 370.602	33262b	ppb	85.26	0.3	107358
Cd 226.502	1.2548b	ppb	0.0924	7.4	55.5350
Co 228.615	1.5604b	ppb	0.4928	31.6	31.7095
Cr 267.716	0.8909b	ppb	0.0625	7.0	56.6725
Cu 324.754	53.0637b	ppb	0.4678	0.9	2669.64
Fe 271.441	140.917b	ppb	1.2485	0.9	239.099
K 766.491	26828.8b	ppb	56.1518	0.2	1316952
Mg 279.078	65590.8b	ppb	181.881	0.3	133612
Mn 257.610	192.497b	ppb	0.4103	0.2	44079.2
Mo 202.032	2.0910b	ppb	0.3180	15.2	28.7325
Na 330.237	600281xb	ppb	582.506	0.1	30472.6
Ni 231.604	142.698b	ppb	0.2329	0.2	338.257
Pb 220.353	1.0809b	ppb	0.8966	82.9	4.2434
Sb 206.834	1.3027b	ppb	4.8866	375.1	2.5133
Se 196.026	-1.5843b	ppb	4.6247	291.9	-0.5139
Sn 189.925	-2.4066b	ppb	2.6880	111.7	-0.7960
Sr 216.596	483.093b	ppb	1.0108	0.2	4561.44
Ti 334.941	8.6536b	ppb	0.1082	1.3	2403.47
Tl 190.794	0.3164b	ppb	1.8766	593.1	-0.2348
V 292.401	23.7046b	ppb	0.3058	1.3	641.875
Zn 206.200	834.959b	ppb	5.6103	0.7	1269.93

E03272013.wvq. All Data Report 3/28/2013, 2:04:12 PM

680-88562-e-1-a (Samp)                      3/27/2013, 8:12:06 PM                      Rack 1, Tube 45  
 Weight: 1                                      Volume: 1                                      Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.7397u	-1.4746u	-0.3919u
Al 308.215	97.8087	95.2044	95.7091
As 188.980	-5.2883u	-0.8472	-4.4514u
B 249.678	70.7799	70.6158	69.5754
Ba 389.178	14.7288	14.3449	15.4656
Be 313.042	-0.0415u	-0.0352u	-0.0389u
Ca 370.602	66083	66089	66023
Cd 226.502	-0.0144	0.0971	-0.0026
Co 228.615	1.9204	2.4758	3.7359
Cr 267.716	-0.1359	-0.5058u	-0.2523u
Cu 324.754	-0.2317u	0.1400	0.0733
Fe 271.441	874.930	878.147	871.895
K 766.491	3122.12	3122.14	3128.56
Mg 279.078	23495.4	23464.6	23441.7
Mn 257.610	1228.79	1227.73	1227.40
Mo 202.032	-1.3675u	-1.1723u	0.2239
Na 330.237	75257.1	75561.5	75061.7
Ni 231.604	4.6547	4.1385	2.8781
Pb 220.353	0.9421	-0.4220u	-3.4415u
Sb 206.834	-1.5212u	-2.4251u	1.9783
Se 196.026	-1.0721u	-6.8488u	-4.2510u
Sn 189.925	-5.7262u	-5.7290u	-0.8300u
Sr 216.596	133.175	134.335	134.408
Ti 334.941	0.5470	0.6026	0.4771
Tl 190.794	-2.9103u	2.3637	4.0466
V 292.401	-0.3785u	-1.1445u	-0.4595u
Zn 206.200	26.1905	24.0539	26.1587

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.8687	ppb	0.5528	63.6	-93.5517
Al 308.215	96.2407	ppb	1.3812	1.4	794.667
As 188.980	-3.5289	ppb	2.3599	66.9	0.6337
B 249.678	70.3237	ppb	0.6532	0.9	1001.70
Ba 389.178	14.8464	ppb	0.5695	3.8	401.518
Be 313.042	-0.0385	ppb	0.0031	8.2	-234.278
Ca 370.602	66065	ppb	36.37	0.1	213211
Cd 226.502	0.0267	ppb	0.0612	229.4	15.8428
Co 228.615	2.7107	ppb	0.9303	34.3	44.7008
Cr 267.716	-0.2980	ppb	0.1891	63.5	2.9392
Cu 324.754	-0.0062	ppb	0.1982	3219.9	107.704
Fe 271.441	874.991	ppb	3.1261	0.4	1469.37
K 766.491	3124.27	ppb	3.7142	0.1	153561
Mg 279.078	23467.2	ppb	26.9432	0.1	47800.2
Mn 257.610	1227.98	ppb	0.7218	0.1	278654
Mo 202.032	-0.7720	ppb	0.8679	112.4	10.2569
Na 330.237	75293.4	ppb	251.864	0.3	3819.20
Ni 231.604	3.8904	ppb	0.9139	23.5	10.1622
Pb 220.353	-0.9738	ppb	2.2433	230.4	1.1638
Sb 206.834	-0.6560	ppb	2.3257	354.5	0.6864
Se 196.026	-4.0573	ppb	2.8932	71.3	-1.4083
Sn 189.925	-4.0951	ppb	2.8277	69.1	-2.2330
Sr 216.596	133.973	ppb	0.6917	0.5	1278.44
Ti 334.941	0.5422	ppb	0.0629	11.6	199.377
Tl 190.794	1.1667	ppb	3.6296	311.1	-0.7061
V 292.401	-0.6608	ppb	0.4208	63.7	-24.0205
Zn 206.200	25.4677	ppb	1.2245	4.8	41.9269

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680-88643-b-1-aSD^5 (Samp) 3/27/2013, 8:17:32 PM Rack 1, Tube 46

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.3222u	-0.8644u	-0.0146u
Al 308.215	81.7256	82.8695	81.0052
As 188.980	1.1701	3.7159	4.0014
B 249.678	-22.9026u	-23.7376u	-23.2460u
Ba 389.178	35.7462	35.7497	36.4173
Be 313.042	-0.0243u	-0.0129u	-0.0090u
Ca 370.602	2990	2950	2948
Cd 226.502	4.4829	4.3319	4.4732
Co 228.615	3.0482	2.5045	3.0435
Cr 267.716	-0.2467u	-0.0988u	-0.0444u
Cu 324.754	172.592	170.599	168.803
Fe 271.441	1732.43	1711.73	1706.53
K 766.491	7937.78	7871.68	7882.59
Mg 279.078	722.051	711.727	707.708
Mn 257.610	218.271	216.033	215.808
Mo 202.032	3.1681	4.2136	2.5747
Na 330.237	11095.4	10514.8	10734.9
Ni 231.604	3.6547	1.2275	2.4974
Pb 220.353	2.4234	1.8970	3.4320
Sb 206.834	-3.9351u	-2.5612u	2.9717
Se 196.026	-3.0156u	-15.9898u	-3.7041u
Sn 189.925	-2.8557u	-0.5655u	-0.7668u
Sr 216.596	23.4346	24.9155	24.5429
Ti 334.941	0.4854	0.5355	0.3923
Tl 190.794	-3.6366u	4.9593	4.1455
V 292.401	0.0239u	0.2215	0.2613
Zn 206.200	254.769	252.552	251.431

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.4004	ppb	0.4303	107.5	-60.1191
Al 308.215	81.8668	ppb	0.9401	1.1	712.912
As 188.980	2.9625	ppb	1.5588	52.6	3.6849
B 249.678	-23.2954	ppb	0.4197	1.8	143.466
Ba 389.178	35.9711	ppb	0.3865	1.1	846.782
Be 313.042	-0.0154	ppb	0.0079	51.4	-203.768
Ca 370.602	2963	ppb	23.24	0.8	9424
Cd 226.502	4.4293	ppb	0.0845	1.9	174.612
Co 228.615	2.8654	ppb	0.3125	10.9	46.2978
Cr 267.716	-0.1300	ppb	0.1047	80.6	5.2643
Cu 324.754	170.665	ppb	1.8950	1.1	8348.31
Fe 271.441	1716.90	ppb	13.7019	0.8	2880.48
K 766.491	7897.35	ppb	35.4360	0.4	387819
Mg 279.078	713.829	ppb	7.3987	1.0	1472.63
Mn 257.610	216.704	ppb	1.3616	0.6	49219.2
Mo 202.032	3.3188	ppb	0.8298	25.0	36.6284
Na 330.237	10781.7	ppb	293.109	2.7	541.325
Ni 231.604	2.4599	ppb	1.2140	49.4	6.7968
Pb 220.353	2.5842	ppb	0.7800	30.2	6.6712
Sb 206.834	-1.1749	ppb	3.6562	311.2	0.1569
Se 196.026	-7.5698	ppb	7.3000	96.4	-3.2478
Sn 189.925	-1.3960	ppb	1.2681	90.8	-0.2371
Sr 216.596	24.2977	ppb	0.7703	3.2	240.103
Ti 334.941	0.4711	ppb	0.0727	15.4	92.3860
Tl 190.794	1.8227	ppb	4.7454	260.3	0.6766
V 292.401	0.1689	ppb	0.1271	75.3	-1.8052
Zn 206.200	252.917	ppb	1.6989	0.7	386.543

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680-88643-b-1-aPDS (Samp)      3/27/2013, 8:22:58 PM      Rack 1, Tube 47  
 Weight: 1      Volume: 1      Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-1.1233u	-1.3126u	-0.7700u
Al 308.215	348.430	344.767	344.436
As 188.980	-6.4211u	1.0659	-10.9080u
B 249.678	51.8087	52.4176	52.7933
Ba 389.178	67.0835	67.8662	67.9199
Be 313.042	-0.0432u	-0.0390u	-0.0461u
Ca 370.602	109676	109285	109516
Cd 226.502	-0.0075	0.1368	-0.1011u
Co 228.615	1.2628	0.6709	0.7769
Cr 267.716	0.3701	0.2233	0.0844
Cu 324.754	1.5799	1.7836	2.0711
Fe 271.441	413.238	420.717	423.809
K 766.491	705.656	706.154	709.151
Mg 279.078	14847.5	14863.8	14890.3
Mn 257.610	173.643	172.975	172.930
Mo 202.032	-0.2676u	-1.2596u	-0.7382u
Na 330.237	14274.9	14550.8	14215.2
Ni 231.604	4.1844	5.0746	4.2964
Pb 220.353	-0.6789u	-0.8742u	-3.5922u
Sb 206.834	-3.5053u	-0.3158u	5.4725
Se 196.026	-0.9201u	6.2312	-6.7307u
Sn 189.925	-2.3635u	1.6962	-1.2672u
Sr 216.596	292.009	289.361	289.348
Ti 334.941	7.2056	7.0973	6.8482
Tl 190.794	1.5412	1.3015	3.8301
V 292.401	0.0955	0.5545	0.8206
Zn 206.200	4.9526	4.4935	6.2724

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.0686	ppb	0.2754	25.8	-118.548
Al 308.215	345.878	ppb	2.2168	0.6	2223.94
As 188.980	-5.4211	ppb	6.0493	111.6	-0.0689
B 249.678	52.3399	ppb	0.4969	0.9	837.397
Ba 389.178	67.6232	ppb	0.4682	0.7	1640.46
Be 313.042	-0.0427	ppb	0.0036	8.4	-218.929
Ca 370.602	109493	ppb	196.6	0.2	353400
Cd 226.502	0.0094	ppb	0.1199	1274.3	14.4010
Co 228.615	0.9035	ppb	0.3156	34.9	24.2087
Cr 267.716	0.2260	ppb	0.1429	63.2	19.8216
Cu 324.754	1.8116	ppb	0.2468	13.6	195.326
Fe 271.441	419.255	ppb	5.4352	1.3	705.280
K 766.491	706.987	ppb	1.8903	0.3	34923.4
Mg 279.078	14867.2	ppb	21.5877	0.1	30300.2
Mn 257.610	173.183	ppb	0.3990	0.2	39425.9
Mo 202.032	-0.7552	ppb	0.4962	65.7	10.3839
Na 330.237	14347.0	ppb	179.019	1.2	724.524
Ni 231.604	4.5184	ppb	0.4848	10.7	11.6383
Pb 220.353	-1.7151	ppb	1.6285	95.0	-0.2567
Sb 206.834	0.5505	ppb	4.5511	826.8	1.8341
Se 196.026	-0.4732	ppb	6.4925	1372.0	-0.0086
Sn 189.925	-0.6448	ppb	2.1002	325.7	0.3726
Sr 216.596	290.239	ppb	1.5324	0.5	2753.98
Ti 334.941	7.0503	ppb	0.1832	2.6	1828.17
Tl 190.794	2.2243	ppb	1.3959	62.8	1.0281
V 292.401	0.4902	ppb	0.3668	74.8	8.0806
Zn 206.200	5.2395	ppb	0.9235	17.6	515.5771

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680-88643-b-1-b ms (Samp) 3/27/2013, 8:28:24 PM Rack 1, Tube 48

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	9.9550	9.9141	10.0509
Al 308.215	5244.83	5239.87	5249.76
As 188.980	104.146	108.156	102.332
B 249.678	250.642	252.394	254.027
Ba 389.178	165.724	165.327	165.615
Be 313.042	49.9193	49.8266	49.9217
Ca 370.602	113264	113020	113136
Cd 226.502	48.9018	49.2454	49.1953
Co 228.615	48.7735	49.2331	49.9308
Cr 267.716	98.2872	98.5557	98.4746
Cu 324.754	99.9214	101.540	99.1665
Fe 271.441	5297.60	5284.36	5301.25
K 766.491	5935.97	5941.61	5968.94
Mg 279.078	19568.6	19502.6	19512.3
Mn 257.610	670.860	668.874	669.590
Mo 202.032	97.4008	96.3882	97.0731
Na 330.237	19237.8	19043.9	19157.9
Ni 231.604	104.581	101.405	102.082
Pb 220.353	51.3169	47.0109	52.2363
Sb 206.834	49.0085	48.2337	48.5849
Se 196.026	113.850	91.3513	105.711
Sn 189.925	194.985	201.114	194.561
Sr 216.596	387.033	384.613	386.100
Ti 334.941	103.328	103.051	103.468
Tl 190.794	37.7809	45.9632	41.1949
V 292.401	100.455	99.0460	99.6005
Zn 206.200	99.0343	98.1049	99.6629

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	9.9733	ppb	0.0702	0.7	651.834
Al 308.215	5244.82	ppb	4.9460	0.1	30283.8
As 188.980	104.878	ppb	2.9798	2.8	59.7765
B 249.678	252.354	ppb	1.6926	0.7	2664.91
Ba 389.178	165.556	ppb	0.2050	0.1	4004.22
Be 313.042	49.8892	ppb	0.0543	0.1	96426.4
Ca 370.602	113140	ppb	122.1	0.1	364804
Cd 226.502	49.1142	ppb	0.1856	0.4	1773.78
Co 228.615	49.3124	ppb	0.5827	1.2	577.114
Cr 267.716	98.4392	ppb	0.1377	0.1	4127.48
Cu 324.754	100.209	ppb	1.2125	1.2	4949.16
Fe 271.441	5294.41	ppb	8.8851	0.2	8884.47
K 766.491	5948.84	ppb	17.6334	0.3	292188
Mg 279.078	19527.8	ppb	35.6192	0.2	39784.5
Mn 257.610	669.774	ppb	1.0059	0.2	152070
Mo 202.032	96.9540	ppb	0.5167	0.5	640.822
Na 330.237	19146.5	ppb	97.4396	0.5	965.379
Ni 231.604	102.689	ppb	1.6730	1.6	243.783
Pb 220.353	50.1880	ppb	2.7896	5.6	83.0716
Sb 206.834	48.6090	ppb	0.3880	0.8	47.9056
Se 196.026	103.637	ppb	11.3919	11.0	47.8356
Sn 189.925	196.887	ppb	3.6671	1.9	149.749
Sr 216.596	385.915	ppb	1.2203	0.3	3652.73
Ti 334.941	103.282	ppb	0.2120	0.2	26390.0
Tl 190.794	41.6463	ppb	4.1097	9.9	26.4253
V 292.401	99.7004	ppb	0.7097	0.7	2713.26
Zn 206.200	98.9341	ppb	0.7839	0.8	153.480



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Cont Calib Verif (CCV) 3/27/2013, 8:33:49 PM Rack 1, Tube 49  
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	503.566	490.711	497.032
Al 308.215	4956.83	4964.97	4993.13
As 188.980	459.306	469.171	460.354
B 249.678	2486.64	2509.23	2545.32
Ba 389.178	4903.78	4907.29	4937.52
Be 313.042	487.738	487.550	492.017
Ca 370.602	4892	4902	4931
Cd 226.502	489.245	489.528	493.197
Co 228.615	493.199	495.693	497.593
Cr 267.716	4882.21	4887.77	4908.61
Cu 324.754	4945.69	4840.21	4807.62
Fe 271.441	4937.45	4937.18	4968.84
K 766.491	10016.7	10030.2	10128.2
Mg 279.078	4894.11	4894.19	4933.50
Mn 257.610	4939.63	4944.45	4960.55
Mo 202.032	482.179	484.514	486.915
Na 330.237	7589.89	7206.67	7338.38
Ni 231.604	2470.88	2462.58	2472.96
Pb 220.353	488.888	488.171	490.718
Sb 206.834	907.887	899.602	923.893
Se 196.026	4811.40	4850.77	4873.05
Sn 189.925	4977.81	4981.70	5026.20
Sr 216.596	2439.81	2448.91	2455.71
Ti 334.941	491.181	491.831	494.723
Tl 190.794	4955.27	4923.23	4954.44
V 292.401	4909.26	4908.27	4942.32
Zn 206.200	2447.02	2449.09	2462.70

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	497.103	ppb	6.4276	1.3	34658.8	99.42056
Al 308.215	4971.65	ppb	19.0461	0.4	28685.4	99.43290
As 188.980	462.944	ppb	5.4183	1.2	253.288	92.58875
B 249.678	2513.73	ppb	29.5956	1.2	23377.4	100.54920
Ba 389.178	4916.20	ppb	18.5490	0.4	117649	98.32393
Be 313.042	489.102	ppb	2.5266	0.5	946425	97.82033
Ca 370.602	4908	ppb	19.94	0.4	15707	98.16566
Cd 226.502	490.657	ppb	2.2043	0.4	17491.0	98.13134
Co 228.615	495.495	ppb	2.2040	0.4	5689.34	99.09898
Cr 267.716	4892.86	ppb	13.9170	0.3	204528	97.85728
Cu 324.754	4864.50	ppb	72.1709	1.5	234941	97.29008
Fe 271.441	4947.82	ppb	18.1979	0.4	8415.17	98.95647
K 766.491	10058.4	ppb	60.8841	0.6	493879	100.58354
Mg 279.078	4907.27	ppb	22.7219	0.5	9939.62	98.14530
Mn 257.610	4948.21	ppb	10.9572	0.2	1122150	98.96417
Mo 202.032	484.536	ppb	2.3683	0.5	3135.02	96.90719
Na 330.237	7378.31	ppb	194.705	2.6	347.623	98.37749
Ni 231.604	2468.81	ppb	5.4894	0.2	5836.71	98.75231
Pb 220.353	489.259	ppb	1.3134	0.3	789.509	97.85183
Sb 206.834	910.460	ppb	12.3484	1.4	915.224	91.04603
Se 196.026	4845.07	ppb	31.2188	0.6	2221.96	96.90141
Sn 189.925	4995.24	ppb	26.8888	0.5	3778.22	99.90475
Sr 216.596	2448.14	ppb	7.9796	0.3	23019.5	97.92575
Ti 334.941	492.578	ppb	1.8857	0.4	125613	98.51564
Tl 190.794	4944.31	ppb	18.2663	0.4	3260.07	98.88624
V 292.401	4919.95	ppb	19.3783	0.4	134932	98.39896
Zn 206.200	2452.94	ppb	8.5184	0.3	3710.15	98.11757

E03272013.vvq. All Data Report 3/28/2013, 2:04:12 PM

Cont Calib Blank (CCB)                      3/27/2013, 8:39:13 PM                      Rack 1, Tube 50  
 Weight: 1    Volume: 1    Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-1.0973u	-0.5259u	-0.5510u
Al 308.215	1.2951	-2.1112u	0.6658
As 188.980	5.5856	1.9612	-5.3395u
B 249.678	33.8243	26.6887	22.2636
Ba 389.178	-0.4043u	-0.5191u	-1.0913u
Be 313.042	-0.0288u	-0.0266u	-0.0296u
Ca 370.602	-0.9633u	3.878	-0.7931u
Cd 226.502	0.1287	-0.1090u	0.0114
Co 228.615	-0.1782u	0.0924	0.5691
Cr 267.716	-0.3152u	-0.1443u	-0.3269u
Cu 324.754	-0.0266u	-0.7330u	-0.7303u
Fe 271.441	9.3059	6.7270	0.8824
K 766.491	-0.3115u	-0.5371u	-0.2593u
Mg 279.078	0.4189	0.6511	1.1960
Mn 257.610	-0.1583u	-0.1693u	-0.1227u
Mo 202.032	0.0034	-0.1306u	0.3952
Na 330.237	-264.838u	-102.316u	161.729
Ni 231.604	-1.2136u	2.4452	1.6802
Pb 220.353	-0.8534u	1.7174	-4.0377u
Sb 206.834	3.2895	2.1396	4.2568
Se 196.026	9.4341	6.3749	-1.4582u
Sn 189.925	-0.8342u	2.0194	-3.4079u
Sr 216.596	-0.6232u	-0.5052u	-0.0392u
Ti 334.941	-0.1837u	-0.2007u	-0.1365u
Tl 190.794	0.3242	-1.3987u	-1.3475u
V 292.401	0.3573	0.0186	0.3411
Zn 206.200	-0.8985u	0.0841	-0.1759u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	-0.7248	ppb	0.3229	44.6	-82.6604	-0.72477
Al 308.215	-0.0501	ppb	1.8125	3616.5	243.442	-0.05012
As 188.980	0.7358	ppb	5.5647	756.3	2.4704	0.73578
B 249.678	27.5922	ppb	5.8331	21.1	611.111	27.59221
Ba 389.178	-0.6715	ppb	0.3680	54.8	-34.4453	-0.67155
Be 313.042	-0.0283	ppb	0.0016	5.6	-227.534	-0.02835
Ca 370.602	0.7072	ppb	2.747	388.5	-1.289	0.70723
Cd 226.502	0.0104	ppb	0.1188	1144.0	13.3643	0.01039
Co 228.615	0.1611	ppb	0.3784	234.9	15.5162	0.16106
Cr 267.716	-0.2622	ppb	0.1022	39.0	-1.5633	-0.26216
Cu 324.754	-0.4966	ppb	0.4070	82.0	83.7854	-0.49663
Fe 271.441	5.6384	ppb	4.3160	76.5	11.9343	5.63844
K 766.491	-0.3693	ppb	0.1476	40.0	207.147	-0.36934
Mg 279.078	0.7554	ppb	0.3989	52.8	23.3443	0.75536
Mn 257.610	-0.1501	ppb	0.0244	16.2	37.6349	-0.15009
Mo 202.032	0.0893	ppb	0.2732	305.9	15.8552	0.08933
Na 330.237	-68.4749	ppb	215.288	314.4	-7.2769	-68.47490
Ni 231.604	0.9706	ppb	1.9299	198.8	3.2441	0.97062
Pb 220.353	-1.0579	ppb	2.8830	272.5	0.7736	-1.05789
Sb 206.834	3.2286	ppb	1.0599	32.8	4.3679	3.22863
Se 196.026	4.7836	ppb	5.6178	117.4	2.3598	4.78360
Sn 189.925	-0.7409	ppb	2.7149	366.4	0.2536	-0.74090
Sr 216.596	-0.3892	ppb	0.3088	79.3	6.8275	-0.38919
Ti 334.941	-0.1736	ppb	0.0333	19.2	-74.3457	-0.17361
Tl 190.794	-0.8073	ppb	0.9803	121.4	-0.7913	-0.80732
V 292.401	0.2390	ppb	0.1911	79.9	0.8895	0.23901
Zn 206.200	-0.3301	ppb	0.5991	154.2	2.2608	-0.33012

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**680-88643-b-1-c msd (Samp)**      **3/27/2013, 8:44:37 PM**      **Rack 1, Tube 51**  
**Weight: 1**      **Volume: 1**      **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	9.3488	9.6490	9.7976
Al 308.215	5297.26	5307.07	5297.95
As 188.980	92.0918	100.281	97.9389
B 249.678	268.990	270.733	270.854
Ba 389.178	165.302	165.445	165.796
Be 313.042	49.9116	49.9789	49.9954
Ca 370.602	112761	112700	112763
Cd 226.502	49.0169	49.1672	48.8236
Co 228.615	49.9940	50.0864	49.7862
Cr 267.716	98.5384	98.5806	98.3637
Cu 324.754	100.742	100.340	101.153
Fe 271.441	5338.71	5343.24	5341.93
K 766.491	5938.51	5953.31	5976.23
Mg 279.078	19475.8	19474.2	19475.6
Mn 257.610	669.877	670.641	670.215
Mo 202.032	98.0489	97.3588	96.2844
Na 330.237	18867.2	18848.7	19088.7
Ni 231.604	102.832	100.257	102.423
Pb 220.353	45.3925	52.1207	46.6115
Sb 206.834	49.8876	55.5338	51.9359
Se 196.026	98.6630	90.1398	93.5227
Sn 189.925	195.258	195.554	197.256
Sr 216.596	383.448	385.687	386.330
Ti 334.941	104.280	104.646	104.661
Tl 190.794	39.0718	34.1190	39.2376
V 292.401	100.086	100.186	100.463
Zn 206.200	99.1425	100.458	101.090

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	9.5985	ppb	0.2286	2.4	625.611
Al 308.215	5300.76	ppb	5.4726	0.1	30604.2
As 188.980	96.7707	ppb	4.2179	4.4	55.3710
B 249.678	270.192	ppb	1.0430	0.4	2828.25
Ba 389.178	165.514	ppb	0.2540	0.2	4003.17
Be 313.042	49.9620	ppb	0.0444	0.1	96567.1
Ca 370.602	112742	ppb	35.77	0.0	363515
Cd 226.502	49.0025	ppb	0.1722	0.4	1769.91
Co 228.615	49.9555	ppb	0.1538	0.3	584.496
Cr 267.716	98.4942	ppb	0.1150	0.1	4129.79
Cu 324.754	100.745	ppb	0.4065	0.4	4975.06
Fe 271.441	5341.29	ppb	2.3279	0.0	8963.10
K 766.491	5956.02	ppb	19.0053	0.3	292540
Mg 279.078	19475.2	ppb	0.9003	0.0	39677.3
Mn 257.610	670.244	ppb	0.3827	0.1	152176
Mo 202.032	97.2307	ppb	0.8892	0.9	642.606
Na 330.237	18934.9	ppb	133.555	0.7	954.604
Ni 231.604	101.837	ppb	1.3836	1.4	241.770
Pb 220.353	48.0416	ppb	3.5848	7.5	79.6161
Sb 206.834	52.4524	ppb	2.8583	5.4	51.5773
Se 196.026	94.1085	ppb	4.2917	4.6	43.4684
Sn 189.925	196.023	ppb	1.0779	0.5	149.095
Sr 216.596	385.155	ppb	1.5133	0.4	3645.50
Ti 334.941	104.529	ppb	0.2158	0.2	26707.7
Tl 190.794	37.4761	ppb	2.9086	7.8	23.6710
V 292.401	100.245	ppb	0.1955	0.2	2728.17
Zn 206.200	100.230	ppb	0.9935	1.0	155.442

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680-88561-c-1-a (Samp)                      3/27/2013, 8:50:01 PM                      Rack 1, Tube 52  
 Weight: 1                                      Volume: 1                                      Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-1.0391u	-0.5176u	-0.4549u
Al 308.215	606.152	604.337	606.171
As 188.980	-1.0772u	-1.3639u	1.5810
B 249.678	46.5096	48.3005	45.5594
Ba 389.178	11.3754	11.9883	11.6845
Be 313.042	-0.0486u	-0.0583u	-0.0513u
Ca 370.602	65708	65821	65769
Cd 226.502	-0.0272	-0.0293	-0.1800u
Co 228.615	1.2436	0.8124	0.8467
Cr 267.716	0.3836	0.2224	0.0915
Cu 324.754	10.5273	9.9109	9.9774
Fe 271.441	742.248	746.226	748.717
K 766.491	2467.81	2474.33	2477.15
Mg 279.078	28323.4	28384.1	28337.2
Mn 257.610	58.9703	59.0495	58.8636
Mo 202.032	69.1685	68.5585	69.6764
Na 330.237	13610.3	13878.2	13727.7
Ni 231.604	56.9746	60.2097	59.0589
Pb 220.353	0.2550	0.2484	-3.4265u
Sb 206.834	-1.5795u	5.3570	3.2616
Se 196.026	1.8728	-4.6067u	-2.6974u
Sn 189.925	1.2675	-1.2437u	-5.6869u
Sr 216.596	78.6181	78.3625	78.2600
Ti 334.941	-0.3954	-0.4028	-0.3132
Tl 190.794	-3.3001u	-0.2474u	3.6252
V 292.401	-0.5975u	-0.8267u	-0.6928u
Zn 206.200	3.4784	2.2197	3.8141

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.6705	ppb	0.3207	47.8	-82.4250
Al 308.215	605.553	ppb	1.0532	0.2	3719.93
As 188.980	-0.2867	ppb	1.6238	566.3	2.3768
B 249.678	46.7898	ppb	1.3919	3.0	786.264
Ba 389.178	11.6827	ppb	0.3065	2.6	339.226
Be 313.042	-0.0527	ppb	0.0050	9.4	-265.254
Ca 370.602	65766	ppb	56.21	0.1	212223
Cd 226.502	-0.0788	ppb	0.0876	111.2	12.1921
Co 228.615	0.9676	ppb	0.2397	24.8	22.4343
Cr 267.716	0.2325	ppb	0.1463	62.9	19.7295
Cu 324.754	10.1385	ppb	0.3383	3.3	599.328
Fe 271.441	745.730	ppb	3.2630	0.4	1252.47
K 766.491	2473.10	ppb	4.7880	0.2	121602
Mg 279.078	28348.2	ppb	31.7979	0.1	57759.6
Mn 257.610	58.9611	ppb	0.0933	0.2	13599.8
Mo 202.032	69.1345	ppb	0.5597	0.8	461.588
Na 330.237	13738.7	ppb	134.282	1.0	693.614
Ni 231.604	58.7477	ppb	1.6399	2.8	139.829
Pb 220.353	-0.9744	ppb	2.1236	218.0	0.8208
Sb 206.834	2.3464	ppb	3.5576	151.6	2.6515
Se 196.026	-1.8104	ppb	3.3295	183.9	-0.6467
Sn 189.925	-1.8877	ppb	3.5217	186.6	-0.5841
Sr 216.596	78.4136	ppb	0.1844	0.2	752.058
Ti 334.941	-0.3704	ppb	0.0497	13.4	-8.7853
Tl 190.794	0.0259	ppb	3.4707	13410.4	-0.3446
V 292.401	-0.7057	ppb	0.1152	16.3	-38.4359
Zn 206.200	3.1707	ppb	0.8406	26.5	8.0911

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**mb 680-270716/1-a (Samp)**      **3/27/2013, 8:55:25 PM**      **Rack 1, Tube 53**  
**Weight: 1**      **Volume: 1**      **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-1.4358u	-1.0090u	-1.1195u
Al 308.215	2.6625	-2.0475u	-1.3683u
As 188.980	-8.6409u	1.4463	-6.6947u
B 249.678	-23.5973u	-24.8396u	-23.6986u
Ba 389.178	-0.4776u	0.5981	-1.1518u
Be 313.042	-0.0280u	-0.0345u	-0.0301u
Ca 370.602	-1.342u	-0.2781u	1.128
Cd 226.502	-0.3164u	-0.3561u	0.0916
Co 228.615	0.3338	-0.2612u	-0.0473u
Cr 267.716	-0.1426u	-0.0439u	-0.2296u
Cu 324.754	-0.1279u	-0.2642u	-0.3195u
Fe 271.441	2.0253	1.2989	6.2519
K 766.491	-0.0076u	0.5169	0.2456
Mg 279.078	2.7555	4.5342	2.6458
Mn 257.610	2.2637	2.3539	2.2153
Mo 202.032	-0.9847u	-1.0811u	-0.5737u
Na 330.237	-52.5839u	247.184	85.4443
Ni 231.604	1.0919	3.1706	1.1724
Pb 220.353	-1.9880u	2.8426	2.9986
Sb 206.834	-0.7686u	3.0913	-2.2565u
Se 196.026	0.9066	-1.5506u	-6.2876u
Sn 189.925	-0.0635u	-2.8224u	-4.2114u
Sr 216.596	-0.1897u	-0.4831u	0.0329
Ti 334.941	-0.1794u	-0.1844u	-0.1990u
Tl 190.794	0.5695	3.2002	0.8481
V 292.401	0.5996	0.3367	0.0767
Zn 206.200	1.7379	-0.1297u	1.1126

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.1881	ppb	0.2215	18.6	-115.038
Al 308.215	-0.2511	ppb	2.5460	1014.0	242.206
As 188.980	-4.6298	ppb	5.3513	115.6	-0.4425
B 249.678	-24.0452	ppb	0.6898	2.9	138.157
Ba 389.178	-0.3438	ppb	0.8826	256.7	-26.5983
Be 313.042	-0.0309	ppb	0.0033	10.8	-232.328
Ca 370.602	-0.1641	ppb	1.239	755.3	-4.172
Cd 226.502	-0.1936	ppb	0.2479	128.0	6.1043
Co 228.615	0.0084	ppb	0.3014	3572.9	13.7913
Cr 267.716	-0.1387	ppb	0.0929	67.0	3.6102
Cu 324.754	-0.2372	ppb	0.0987	41.6	96.2933
Fe 271.441	3.1921	ppb	2.6747	83.8	7.7727
K 766.491	0.2516	ppb	0.2623	104.3	237.623
Mg 279.078	3.3119	ppb	1.0600	32.0	28.5140
Mn 257.610	2.2776	ppb	0.0703	3.1	588.150
Mo 202.032	-0.8798	ppb	0.2694	30.6	9.5979
Na 330.237	93.3482	ppb	150.040	160.7	0.9323
Ni 231.604	1.8116	ppb	1.1776	65.0	5.2322
Pb 220.353	1.2844	ppb	2.8350	220.7	4.5434
Sb 206.834	0.0221	ppb	2.7602	12514.4	1.3153
Se 196.026	-2.3105	ppb	3.6568	158.3	-0.8911
Sn 189.925	-2.3658	ppb	2.1113	89.2	-0.9750
Sr 216.596	-0.2133	ppb	0.2588	121.3	8.4755
Ti 334.941	-0.1876	ppb	0.0102	5.4	-77.9185
Tl 190.794	1.5392	ppb	1.4451	93.9	0.7553
V 292.401	0.3377	ppb	0.2615	77.4	3.7130
Zn 206.200	0.9069	ppb	0.9506	104.8	4.1372

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ics 680-270716/2-a (Samp)      3/27/2013, 9:00:50 PM      Rack 1, Tube 54  
 Weight: 1      Volume: 1      Dilution: 1

Label	Replicates Concentration		
Ag 328.068	17.9066	19.0862	18.2408
Al 308.215	4954.97	4916.90	4919.35
As 188.980	104.976	95.4211	99.7178
B 249.678	176.356	177.200	177.543
Ba 389.178	100.532	100.580	100.562
Be 313.042	51.4037	51.0632	50.9666
Ca 370.602	4912	4883	4864
Cd 226.502	51.5919	51.3600	51.2751
Co 228.615	51.3091	51.1312	50.9043
Cr 267.716	102.173	101.463	100.975
Cu 324.754	100.160	100.943	101.884
Fe 271.441	5049.47	5001.10	5006.04
K 766.491	5076.56	5040.99	5054.58
Mg 279.078	5020.23	4992.55	4978.67
Mn 257.610	518.114	513.500	513.423
Mo 202.032	100.257	99.6885	98.2857
Na 330.237	4752.93	5032.51	4741.64
Ni 231.604	101.176	102.055	101.274
Pb 220.353	51.8624	48.3562	50.0951
Sb 206.834	45.2109	48.9480	51.5523
Se 196.026	101.790	96.7250	98.9755
Sn 189.925	199.700	196.408	197.674
Sr 216.596	102.409	101.082	101.277
Ti 334.941	101.162	100.532	100.314
Tl 190.794	42.5225	42.9805	42.5687
V 292.401	102.929	102.360	102.302
Zn 206.200	100.380	101.469	99.4859

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	18.4112	ppb	0.6080	3.3	1253.28
Al 308.215	4930.41	ppb	21.3107	0.4	28484.0
As 188.980	100.038	ppb	4.7857	4.8	56.3511
B 249.678	177.033	ppb	0.6111	0.3	1975.27
Ba 389.178	100.558	ppb	0.0242	0.0	2409.34
Be 313.042	51.1445	ppb	0.2296	0.4	98820.0
Ca 370.602	4886	ppb	24.12	0.5	15388
Cd 226.502	51.4090	ppb	0.1640	0.3	1854.75
Co 228.615	51.1149	ppb	0.2029	0.4	597.587
Cr 267.716	101.537	ppb	0.6024	0.6	4256.06
Cu 324.754	100.996	ppb	0.8631	0.9	4987.10
Fe 271.441	5018.87	ppb	26.6120	0.5	8422.91
K 766.491	5057.38	ppb	17.9482	0.4	248436
Mg 279.078	4997.15	ppb	21.1617	0.4	10191.3
Mn 257.610	515.012	ppb	2.6862	0.5	116895
Mo 202.032	99.4104	ppb	1.0147	1.0	656.688
Na 330.237	4842.36	ppb	164.770	3.4	239.092
Ni 231.604	101.502	ppb	0.4818	0.5	240.971
Pb 220.353	50.1046	ppb	1.7531	3.5	82.9077
Sb 206.834	48.5704	ppb	3.1875	6.6	47.8694
Se 196.026	99.1633	ppb	2.5375	2.6	45.7487
Sn 189.925	197.927	ppb	1.6609	0.8	150.490
Sr 216.596	101.589	ppb	0.7164	0.7	964.905
Ti 334.941	100.669	ppb	0.4401	0.4	25664.7
Tl 190.794	42.6906	ppb	0.2522	0.6	27.2745
V 292.401	102.530	ppb	0.3468	0.3	2790.24
Zn 206.200	100.445	ppb	0.9931	1.0	154.903

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ics 680-270716/3-a (Samp)      3/27/2013, 9:06:15 PM      Rack 1, Tube 55  
 Weight: 1      Volume: 1      Dilution: 1

Label	Replicates Concentration		
Ag 328.068	204.658	203.712	204.419
Al 308.215	1926.20	1922.18	1918.30
As 188.980	198.441	202.912	201.429
B 249.678	374.364	376.671	377.204
Ba 389.178	194.340	195.473	194.105
Be 313.042	200.129	200.056	199.804
Ca 370.602	19391	19357	19351
Cd 226.502	196.678	195.670	195.372
Co 228.615	198.317	197.384	197.538
Cr 267.716	196.454	196.206	195.746
Cu 324.754	198.932	197.821	199.464
Fe 271.441	20460.9	20389.0	20371.4
K 766.491	19540.7	19523.7	19477.7
Mg 279.078	19651.5	19595.0	19547.3
Mn 257.610	2023.55	2017.85	2014.91
Mo 202.032	194.897	195.142	194.729
Na 330.237	17110.1	17462.8	17172.3
Ni 231.604	195.703	193.528	194.903
Pb 220.353	196.126	194.620	194.914
Sb 206.834	187.939	193.341	194.014
Se 196.026	204.934	202.415	189.216
Sn 189.925	198.671	198.417	191.195
Sr 216.596	210.214	209.318	209.456
Ti 334.941	197.905	197.998	197.575
Tl 190.794	49.2500	49.3237	49.1955
V 292.401	198.399	198.445	198.204
Zn 206.200	185.848	183.699	182.428

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	204.263	ppb	0.4921	0.2	14245.4
Al 308.215	1922.23	ppb	3.9480	0.2	11271.6
As 188.980	200.927	ppb	2.2774	1.1	111.072
B 249.678	376.080	ppb	1.5097	0.4	3784.30
Ba 389.178	194.640	ppb	0.7316	0.4	4723.26
Be 313.042	199.996	ppb	0.1705	0.1	386967
Ca 370.602	19366	ppb	21.79	0.1	60917
Cd 226.502	195.907	ppb	0.6844	0.3	7034.47
Co 228.615	197.747	ppb	0.4999	0.3	2273.75
Cr 267.716	196.136	ppb	0.3592	0.2	8217.89
Cu 324.754	198.739	ppb	0.8380	0.4	9712.33
Fe 271.441	20407.1	ppb	47.4174	0.2	34236.8
K 766.491	19514.0	ppb	32.5947	0.2	957954
Mg 279.078	19597.9	ppb	52.1469	0.3	39910.1
Mn 257.610	2018.77	ppb	4.3921	0.2	458003
Mo 202.032	194.923	ppb	0.2074	0.1	1272.48
Na 330.237	17248.4	ppb	188.293	1.1	863.158
Ni 231.604	194.712	ppb	1.1003	0.6	461.583
Pb 220.353	195.220	ppb	0.7986	0.4	316.519
Sb 206.834	191.765	ppb	3.3304	1.7	185.745
Se 196.026	198.855	ppb	8.4422	4.2	91.8270
Sn 189.925	196.094	ppb	4.2448	2.2	149.113
Sr 216.596	209.663	ppb	0.4823	0.2	1985.22
Ti 334.941	197.826	ppb	0.2224	0.1	50503.4
Tl 190.794	49.2564	ppb	0.0644	0.1	29.6854
V 292.401	198.350	ppb	0.1280	0.1	5402.93
Zn 206.200	183.992	ppb	1.7288	0.9	281.498

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680-88479-e-6-b (Samp)                      3/27/2013, 9:11:40 PM                      Rack 1, Tube 56  
 Weight: 1                                      Volume: 1                                      Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.2219u	-0.5256u	-1.3647u
Al 308.215	15.2027	16.1960	16.9204
As 188.980	-0.1666	-3.9552u	-7.0949u
B 249.678	20.5208	19.1539	18.3354
Ba 389.178	33.7361	33.9892	32.4367
Be 313.042	-0.0520u	-0.0455u	-0.0590u
Ca 370.602	62683	62669	62701
Cd 226.502	-0.0222u	0.1151	0.0150
Co 228.615	0.5456	0.2587	0.8479
Cr 267.716	0.2660	0.0010	0.0084
Cu 324.754	1.1032	1.1143	0.7517
Fe 271.441	17.2298	13.9578	23.0440
K 766.491	685.540	687.594	688.348
Mg 279.078	24565.0	24523.9	24540.5
Mn 257.610	148.535	148.637	148.359
Mo 202.032	5.4628	6.0245	5.4343
Na 330.237	18204.5	18019.6	18168.0
Ni 231.604	3.3893	2.1094	2.4626
Pb 220.353	0.8700	0.3967	-3.1385u
Sb 206.834	3.2095	-1.7971u	4.1070
Se 196.026	7.7702	-3.4849u	0.3504
Sn 189.925	-2.1236u	-4.5927u	-1.6109u
Sr 216.596	90.7649	91.9589	90.5261
Ti 334.941	-0.1184	0.1324	-0.0572
Tl 190.794	-2.2362u	2.7101	-1.1124u
V 292.401	-0.4861u	0.3182	-0.1616u
Zn 206.200	4.3979	3.7730	3.9310

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.7040	ppb	0.5919	84.1	-84.8873
Al 308.215	16.1064	ppb	0.8624	5.4	336.708
As 188.980	-3.7389	ppb	3.4692	92.8	0.5027
B 249.678	19.3367	ppb	1.1041	5.7	535.476
Ba 389.178	33.3873	ppb	0.8330	2.5	846.961
Be 313.042	-0.0522	ppb	0.0067	12.9	-255.546
Ca 370.602	62685	ppb	16.15	0.0	202339
Cd 226.502	0.0360	ppb	0.0710	197.4	14.5299
Co 228.615	0.5507	ppb	0.2946	53.5	19.7962
Cr 267.716	0.0918	ppb	0.1509	164.3	14.0912
Cu 324.754	0.9897	ppb	0.2062	20.8	155.713
Fe 271.441	18.0772	ppb	4.6020	25.5	32.8533
K 766.491	687.161	ppb	1.4531	0.2	33950.4
Mg 279.078	24543.1	ppb	20.6934	0.1	50008.2
Mn 257.610	148.511	ppb	0.1405	0.1	33883.0
Mo 202.032	5.6405	ppb	0.3328	5.9	51.6936
Na 330.237	18130.7	ppb	97.9001	0.5	916.846
Ni 231.604	2.6537	ppb	0.6610	24.9	7.2231
Pb 220.353	-0.6239	ppb	2.1905	351.1	1.4949
Sb 206.834	1.8398	ppb	3.1815	172.9	2.9710
Se 196.026	1.5452	ppb	5.7219	370.3	0.9098
Sn 189.925	-2.7757	ppb	1.5943	57.4	-1.2553
Sr 216.596	91.0833	ppb	0.7677	0.8	873.717
Ti 334.941	-0.0144	ppb	0.1308	906.5	66.0348
Tl 190.794	-0.2129	ppb	2.5929	1218.1	-0.5457
V 292.401	-0.1099	ppb	0.4046	368.3	-9.6979
Zn 206.200	4.0339	ppb	0.3249	8.1	9.3791



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680-88479-e-7-b (Samp)

3/27/2013, 9:17:05 PM

Rack 1, Tube 57

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.2419u	-0.6940u	-0.2277u
Al 308.215	9.4815	9.0291	12.3042
As 188.980	-12.3076u	-11.1586u	-2.5961u
B 249.678	59.6766	61.0482	61.6622
Ba 389.178	26.7549	25.6737	26.8656
Be 313.042	-0.0493u	-0.0522u	-0.0542u
Ca 370.602	86521	86566	86513
Cd 226.502	-0.1653u	-0.1090u	-0.0777u
Co 228.615	0.2861	-0.3467u	-0.0407u
Cr 267.716	0.3046	0.0775	0.2059
Cu 324.754	0.6197	0.3461	0.7720
Fe 271.441	79.7563	80.7111	78.8792
K 766.491	267.687	267.598	268.920
Mg 279.078	40431.4	40428.6	40416.1
Mn 257.610	432.957	432.928	433.806
Mo 202.032	-0.1789u	0.2526	-0.5471u
Na 330.237	25288.3	25362.7	25142.8
Ni 231.604	0.0149	1.8303	1.6858
Pb 220.353	-2.7792u	-0.3885u	-1.3325u
Sb 206.834	-0.6831u	1.7169	-0.9382u
Se 196.026	-10.8486u	1.1662	0.8080
Sn 189.925	0.4798	-7.3915u	-1.0561u
Sr 216.596	112.517	113.269	113.096
Ti 334.941	-0.5205	-0.5023	-0.4405
Tl 190.794	0.6660	-0.7756u	1.1713
V 292.401	-1.3271u	-0.8728u	-0.7143u
Zn 206.200	3.3028	1.0812	3.0007

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.3879	ppb	0.2652	68.4	-62.7605
Al 308.215	10.2716	ppb	1.7747	17.3	302.539
As 188.980	-8.6874	ppb	5.3064	61.1	-2.0067
B 249.678	60.7957	ppb	1.0166	1.7	915.152
Ba 389.178	26.4314	ppb	0.6585	2.5	723.522
Be 313.042	-0.0519	ppb	0.0024	4.7	-247.127
Ca 370.602	86533	ppb	28.94	0.0	279323
Cd 226.502	-0.1174	ppb	0.0444	37.8	9.3539
Co 228.615	-0.0338	ppb	0.3164	936.9	13.2990
Cr 267.716	0.1960	ppb	0.1139	58.1	19.6507
Cu 324.754	0.5792	ppb	0.2158	37.3	135.761
Fe 271.441	79.7822	ppb	0.9162	1.1	136.158
K 766.491	268.068	ppb	0.7393	0.3	13381.8
Mg 279.078	40425.4	ppb	8.1518	0.0	82352.3
Mn 257.610	433.230	ppb	0.4984	0.1	98532.7
Mo 202.032	-0.1578	ppb	0.4003	253.7	14.2579
Na 330.237	25264.6	ppb	111.848	0.4	1279.11
Ni 231.604	1.1770	ppb	1.0090	85.7	3.7335
Pb 220.353	-1.5001	ppb	1.2041	80.3	0.1530
Sb 206.834	0.0319	ppb	1.4648	4594.5	1.3224
Se 196.026	-2.9581	ppb	6.8357	231.1	-1.0887
Sn 189.925	-2.6559	ppb	4.1724	157.1	-1.1533
Sr 216.596	112.961	ppb	0.3939	0.3	1082.11
Ti 334.941	-0.4878	ppb	0.0419	8.6	10.1990
Tl 190.794	0.3539	ppb	1.0103	285.5	-0.4482
V 292.401	-0.9714	ppb	0.3181	32.7	-32.1109
Zn 206.200	2.4616	ppb	1.2049	48.9	5751827

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680-88479-e-8-b (Samp)                      3/27/2013, 9:22:31 PM                      Rack 1, Tube 58  
 Weight: 1                                      Volume: 1                                      Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-1.1642u	-0.8842u	-0.5626u
Al 308.215	163.163	162.650	167.125
As 188.980	-3.5684u	-2.2760u	0.4351
B 249.678	7.2771	5.9719	7.2227
Ba 389.178	11.8472	11.3189	12.6999
Be 313.042	-0.0298u	-0.0343u	-0.0362u
Ca 370.602	37636	37553	37538
Cd 226.502	-0.2620u	0.1125	-0.0841u
Co 228.615	-0.4535u	0.0644	0.0869
Cr 267.716	0.4574	0.1574	0.4892
Cu 324.754	15.7394	14.5922	15.0263
Fe 271.441	225.790	220.197	229.498
K 766.491	2258.18	2255.22	2267.42
Mg 279.078	6343.26	6330.93	6328.86
Mn 257.610	12.9927	12.9100	12.9321
Mo 202.032	4.3969	3.9362	3.5400
Na 330.237	1721.41	1689.27	1766.57
Ni 231.604	2.2793	2.5380	3.3772
Pb 220.353	1.2640	-0.3618u	-0.4703u
Sb 206.834	3.8788	-1.8567u	6.8534
Se 196.026	-7.9829u	-0.6826u	-2.0913u
Sn 189.925	-3.8993u	-5.2990u	-4.2360u
Sr 216.596	98.2827	97.4122	97.6520
Ti 334.941	3.1290	3.0085	3.2865
Tl 190.794	0.7575	-5.6453u	-4.6452u
V 292.401	0.1932	0.3448	0.2388
Zn 206.200	3.6052	2.5066	2.5847

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.8703	ppb	0.3010	34.6	-97.0505
Al 308.215	164.313	ppb	2.4489	1.5	1185.01
As 188.980	-1.8031	ppb	2.0432	113.3	1.3668
B 249.678	6.8239	ppb	0.7384	10.8	420.690
Ba 389.178	11.9553	ppb	0.6968	5.8	285.171
Be 313.042	-0.0334	ppb	0.0033	9.8	-225.246
Ca 370.602	37576	ppb	52.83	0.1	121270
Cd 226.502	-0.0779	ppb	0.1873	240.4	10.8092
Co 228.615	-0.1007	ppb	0.3057	303.5	12.4740
Cr 267.716	0.3680	ppb	0.1831	49.8	24.9110
Cu 324.754	15.1193	ppb	0.5792	3.8	837.917
Fe 271.441	225.161	ppb	4.6823	2.1	379.820
K 766.491	2260.28	ppb	6.3647	0.3	111157
Mg 279.078	6334.35	ppb	7.7864	0.1	12923.2
Mn 257.610	12.9449	ppb	0.0428	0.3	3042.89
Mo 202.032	3.9577	ppb	0.4288	10.8	40.8199
Na 330.237	1725.75	ppb	38.8336	2.3	83.7202
Ni 231.604	2.7315	ppb	0.5740	21.0	7.4106
Pb 220.353	0.1440	ppb	0.9715	674.8	2.7003
Sb 206.834	2.9585	ppb	4.4274	149.6	4.0699
Se 196.026	-3.5856	ppb	3.8728	108.0	-1.4724
Sn 189.925	-4.4781	ppb	0.7306	16.3	-2.5576
Sr 216.596	97.7823	ppb	0.4496	0.5	934.739
Ti 334.941	3.1413	ppb	0.1394	4.4	797.060
Tl 190.794	-3.1777	ppb	3.4445	108.4	-2.3775
V 292.401	0.2589	ppb	0.0778	30.0	0.7441
Zn 206.200	2.8988	ppb	0.6130	21.1	7.4566

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680-88479-e-9-b (Samp)

3/27/2013, 9:27:57 PM

Rack 1, Tube 59

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-1.3330u	-1.1679u	-1.7437u
Al 308.215	1.1581	3.1392	1.0855
As 188.980	-8.5119u	-1.6492u	-8.0874u
B 249.678	-31.4839u	-32.2785u	-31.5482u
Ba 389.178	-0.9880u	-0.5144u	-0.1275u
Be 313.042	-0.0423u	-0.0437u	-0.0355u
Ca 370.602	146.9	143.8	147.0
Cd 226.502	-0.1301u	-0.1344u	0.1707
Co 228.615	0.5783	-0.3845u	-0.3006u
Cr 267.716	-0.1259u	-0.1397u	-0.2938u
Cu 324.754	4.3946	4.1903	4.4678
Fe 271.441	14.4794	13.4675	11.9220
K 766.491	3.4022	4.7376	3.4788
Mg 279.078	32.0718	30.6147	29.3680
Mn 257.610	0.3050	0.3346	0.2894
Mo 202.032	-0.4355u	-0.0172u	0.3016
Na 330.237	120.621	217.426	134.482
Ni 231.604	-0.8940u	1.5564	1.7598
Pb 220.353	1.5577	-0.0021u	-1.3705u
Sb 206.834	-0.7338u	-3.0605u	1.7535
Se 196.026	3.6448	3.7587	-9.7655u
Sn 189.925	1.1165	-3.2803u	0.4093
Sr 216.596	-0.7545u	-0.2197u	-0.0523u
Ti 334.941	-0.1376u	-0.1990u	-0.1016u
Tl 190.794	1.1057	3.4721	-2.6469u
V 292.401	0.1791	0.1651	-0.0171u
Zn 206.200	6.1178	5.3724	5.9380

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.4149	ppb	0.2965	21.0	-130.886
Al 308.215	1.7943	ppb	1.1653	64.9	254.018
As 188.980	-6.0828	ppb	3.8455	63.2	-1.2305
B 249.678	-31.7702	ppb	0.4414	1.4	67.3922
Ba 389.178	-0.5433	ppb	0.4310	79.3	-31.2787
Be 313.042	-0.0405	ppb	0.0044	10.9	-250.995
Ca 370.602	145.9	ppb	1.811	1.2	466.4
Cd 226.502	-0.0313	ppb	0.1749	558.9	11.9086
Co 228.615	-0.0356	ppb	0.5333	1498.2	13.2638
Cr 267.716	-0.1865	ppb	0.0932	50.0	1.6094
Cu 324.754	4.3509	ppb	0.1438	3.3	317.840
Fe 271.441	13.2896	ppb	1.2879	9.7	24.7711
K 766.491	3.8729	ppb	0.7499	19.4	415.350
Mg 279.078	30.6849	ppb	1.3533	4.4	84.2983
Mn 257.610	0.3097	ppb	0.0230	7.4	142.080
Mo 202.032	-0.0504	ppb	0.3697	733.9	14.9529
Na 330.237	157.510	ppb	52.3500	33.2	4.1499
Ni 231.604	0.8074	ppb	1.4770	182.9	2.8586
Pb 220.353	0.0617	ppb	1.4651	2375.3	2.5747
Sb 206.834	-0.6803	ppb	2.4074	353.9	0.6364
Se 196.026	-0.7873	ppb	7.7755	987.6	-0.1934
Sn 189.925	-0.5848	ppb	2.3610	403.7	0.3718
Sr 216.596	-0.3421	ppb	0.3668	107.2	7.2851
Ti 334.941	-0.1461	ppb	0.0492	33.7	-67.2151
Tl 190.794	0.6436	ppb	3.0855	479.4	0.1656
V 292.401	0.1091	ppb	0.1094	100.4	-2.7230
Zn 206.200	5.8094	ppb	0.3890	6.7	51.5767

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**680-88479-e-10-b (Samp)**                      **3/27/2013, 9:33:24 PM**                      **Rack 1, Tube 60**  
**Weight: 1**    **Volume: 1**    **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.7390u	-0.5091u	0.2772
Al 308.215	7.0630	8.5324	9.2344
As 188.980	-4.6229u	-1.7338u	-5.7753u
B 249.678	31.3073	31.4978	32.3305
Ba 389.178	29.4978	28.7544	29.0638
Be 313.042	-0.0449u	-0.0595u	-0.0531u
Ca 370.602	76125	76058	75835
Cd 226.502	0.0866	-0.1024u	0.0962
Co 228.615	0.2177	0.1548	-0.2844u
Cr 267.716	0.1546	-0.1562u	-0.1660u
Cu 324.754	1.2227	1.8677	1.5699
Fe 271.441	23.6908	23.1638	19.0835
K 766.491	2449.47	2453.52	2459.04
Mg 279.078	14604.5	14584.6	14556.3
Mn 257.610	48.3002	48.2571	48.1340
Mo 202.032	11.4878	11.1540	11.5741
Na 330.237	2450.83	2370.55	2290.05
Ni 231.604	2.2136	0.1456	-0.2927u
Pb 220.353	-1.4130u	3.2895	-0.7120u
Sb 206.834	-0.5874u	-1.2269u	-4.1775u
Se 196.026	-4.9352u	2.5899	0.6000
Sn 189.925	-1.2816u	0.6909	-0.6403u
Sr 216.596	136.546	135.538	134.783
Ti 334.941	-0.0983	-0.1520	-0.1172
Tl 190.794	0.4991	1.1783	-3.1800u
V 292.401	-0.8735u	-1.1205u	-1.0297u
Zn 206.200	57.0804	55.6953	56.5273

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.3236	ppb	0.5329	164.7	-60.5130
Al 308.215	8.2766	ppb	1.1081	13.4	292.677
As 188.980	-4.0440	ppb	2.0820	51.5	0.4349
B 249.678	31.7118	ppb	0.5441	1.7	648.827
Ba 389.178	29.1053	ppb	0.3734	1.3	717.598
Be 313.042	-0.0525	ppb	0.0073	13.9	-250.099
Ca 370.602	76006	ppb	151.4	0.2	245336
Cd 226.502	0.0268	ppb	0.1120	418.0	14.1627
Co 228.615	0.0294	ppb	0.2736	931.8	13.6311
Cr 267.716	-0.0559	ppb	0.1823	326.3	7.2954
Cu 324.754	1.5534	ppb	0.3228	20.8	183.095
Fe 271.441	21.9794	ppb	2.5217	11.5	39.2548
K 766.491	2454.01	ppb	4.8030	0.2	120665
Mg 279.078	14581.8	ppb	24.2356	0.2	29720.8
Mn 257.610	48.2304	ppb	0.0862	0.2	11089.4
Mo 202.032	11.4053	ppb	0.2219	1.9	88.9136
Na 330.237	2370.48	ppb	80.3900	3.4	116.146
Ni 231.604	0.6888	ppb	1.3386	194.3	2.5785
Pb 220.353	0.3882	ppb	2.5370	653.6	3.0951
Sb 206.834	-1.9973	ppb	1.9150	95.9	-0.7720
Se 196.026	-0.5818	ppb	3.8992	670.3	-0.0881
Sn 189.925	-0.4103	ppb	1.0062	245.2	0.5333
Sr 216.596	135.623	ppb	0.8845	0.7	1294.26
Ti 334.941	-0.1225	ppb	0.0273	22.3	-1.3841
Tl 190.794	-0.5009	ppb	2.3449	468.2	-0.6408
V 292.401	-1.0079	ppb	0.1250	12.4	-35.5481
Zn 206.200	56.4344	ppb	0.6972	1.2	88.9951

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Cont Calib Verif (CCV) 3/27/2013, 9:38:49 PM Rack 2, Tube 1  
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	500.419	493.337	497.152
Al 308.215	4967.86	4960.10	4972.07
As 188.980	468.900	461.558	464.234
B 249.678	2485.33	2489.74	2530.77
Ba 389.178	4910.21	4898.43	4916.58
Be 313.042	488.658	486.594	488.732
Ca 370.602	4915	4892	4904
Cd 226.502	489.893	488.554	490.636
Co 228.615	494.953	493.909	495.329
Cr 267.716	4881.67	4856.11	4866.05
Cu 324.754	4872.28	4901.41	4799.96
Fe 271.441	4950.56	4942.96	4936.44
K 766.491	10048.6	10051.2	10098.6
Mg 279.078	4896.41	4873.45	4896.77
Mn 257.610	4945.69	4916.30	4943.50
Mo 202.032	484.351	482.530	483.228
Na 330.237	7585.06	7274.34	7436.99
Ni 231.604	2463.51	2452.72	2450.21
Pb 220.353	488.592	485.072	484.760
Sb 206.834	906.085	909.549	918.759
Se 196.026	4878.90	4835.08	4827.35
Sn 189.925	5042.96	4955.27	4986.56
Sr 216.596	2439.74	2428.49	2428.23
Ti 334.941	491.652	489.867	490.144
Tl 190.794	4946.51	4927.23	4923.30
V 292.401	4921.62	4903.43	4926.42
Zn 206.200	2456.25	2445.64	2443.37

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	496.969	ppb	3.5442	0.7	34649.5	99.39384
Al 308.215	4966.68	ppb	6.0752	0.1	28656.9	99.33356
As 188.980	464.898	ppb	3.7153	0.8	254.349	92.97951
B 249.678	2501.95	ppb	25.0621	1.0	23269.5	100.07791
Ba 389.178	4908.41	ppb	9.2062	0.2	117462	98.16811
Be 313.042	487.994	ppb	1.2136	0.2	944281	97.59889
Ca 370.602	4903	ppb	11.29	0.2	15692	98.06969
Cd 226.502	489.695	ppb	1.0553	0.2	17456.8	97.93891
Co 228.615	494.730	ppb	0.7358	0.1	5680.56	98.94603
Cr 267.716	4867.94	ppb	12.8846	0.3	203486	97.35884
Cu 324.754	4857.88	ppb	52.2328	1.1	234621	97.15768
Fe 271.441	4943.32	ppb	7.0662	0.1	8407.32	98.86638
K 766.491	10066.1	ppb	28.1806	0.3	494260	100.66138
Mg 279.078	4888.88	ppb	13.3620	0.3	9902.40	97.77755
Mn 257.610	4935.16	ppb	16.3739	0.3	1119192	98.70325
Mo 202.032	483.370	ppb	0.9190	0.2	3127.49	96.67393
Na 330.237	7432.13	ppb	155.416	2.1	350.390	99.09506
Ni 231.604	2455.48	ppb	7.0678	0.3	5805.20	98.21919
Pb 220.353	486.141	ppb	2.1278	0.4	784.492	97.22826
Sb 206.834	911.464	ppb	6.5503	0.7	916.085	91.14642
Se 196.026	4847.11	ppb	27.8020	0.6	2222.89	96.94218
Sn 189.925	4994.93	ppb	44.4415	0.9	3777.98	99.89855
Sr 216.596	2432.15	ppb	6.5755	0.3	22869.1	97.28613
Ti 334.941	490.554	ppb	0.9605	0.2	125097	98.11086
Tl 190.794	4932.35	ppb	12.4205	0.3	3252.18	98.64697
V 292.401	4917.16	ppb	12.1278	0.2	134856	98.34315
Zn 206.200	2448.42	ppb	6.8732	0.3	3793.33	97.93690

E03272013.vvq. All Data Report 3/28/2013, 2:04:12 PM

Cont Calib Blank (CCB)                      3/27/2013, 9:44:14 PM                      Rack 2, Tube 2  
 Weight: 1    Volume: 1    Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.8827u	-0.2937u	-0.8295u
Al 308.215	-1.0658u	-0.8997u	-1.3706u
As 188.980	0.2836	2.6776	-1.8313u
B 249.678	29.0913	23.5594	20.5233
Ba 389.178	0.0058	-1.2173u	0.1878
Be 313.042	-0.0155u	-0.0309u	-0.0273u
Ca 370.602	1.811	-4.189u	1.145
Cd 226.502	-0.0914u	-0.2786u	-0.0934u
Co 228.615	-0.4044u	-0.2866u	0.3369
Cr 267.716	-0.0910u	-0.1148u	0.1825
Cu 324.754	-0.6864u	0.0302	-0.7607u
Fe 271.441	-2.7039u	-0.1079u	-0.8430u
K 766.491	0.2092	-0.5268u	0.0101
Mg 279.078	1.3077	1.4664	7.5424
Mn 257.610	-0.0732u	-0.0737u	-0.0823u
Mo 202.032	0.3634	-0.5514u	-0.1941u
Na 330.237	145.661	193.710	-73.5206u
Ni 231.604	-0.4438u	0.6243	-0.9996u
Pb 220.353	1.0988	-0.2731u	-0.9981u
Sb 206.834	-1.0527u	0.5596	6.1431
Se 196.026	-11.3850u	3.3921	0.9467
Sn 189.925	1.6331	1.3630	-3.6402u
Sr 216.596	-0.3168u	0.3007	-0.1821u
Ti 334.941	-0.0767u	-0.1178u	-0.1192u
Tl 190.794	5.2170	0.4272	-5.9586u
V 292.401	0.1293	0.0591	-0.1831u
Zn 206.200	-0.0567u	2.3954	-0.1363u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	-0.6686	ppb	0.3258	48.7	-78.7426	-0.66863
Al 308.215	-1.1120	ppb	0.2389	21.5	237.350	-1.11201
As 188.980	0.3766	ppb	2.2559	599.0	2.2754	0.37660
B 249.678	24.3913	ppb	4.3442	17.8	581.790	24.39130
Ba 389.178	-0.3413	ppb	0.7642	223.9	-26.5317	-0.34126
Be 313.042	-0.0246	ppb	0.0081	32.9	-220.228	-0.02458
Ca 370.602	-0.4113	ppb	3.288	799.6	-5.243	-0.41126
Cd 226.502	-0.1545	ppb	0.1075	69.6	7.5047	-0.15449
Co 228.615	-0.1181	ppb	0.3984	337.4	12.3296	-0.11806
Cr 267.716	-0.0078	ppb	0.1652	2123.6	9.0763	-0.00778
Cu 324.754	-0.4723	ppb	0.4367	92.5	84.9601	-0.47229
Fe 271.441	-1.2183	ppb	1.3381	109.8	0.3883	-1.21829
K 766.491	-0.1025	ppb	0.3807	371.4	220.243	-0.10251
Mg 279.078	3.4389	ppb	3.5547	103.4	28.8099	3.43886
Mn 257.610	-0.0764	ppb	0.0051	6.7	54.3763	-0.07636
Mo 202.032	-0.1273	ppb	0.4610	362.0	14.4565	-0.12735
Na 330.237	88.6167	ppb	142.455	160.8	0.6914	88.61669
Ni 231.604	-0.2730	ppb	0.8253	302.3	0.3046	-0.27303
Pb 220.353	-0.0575	ppb	1.0650	1852.9	2.3834	-0.05748
Sb 206.834	1.8833	ppb	3.7761	200.5	3.0875	1.88334
Se 196.026	-2.3487	ppb	7.9206	337.2	-0.9091	-2.34870
Sn 189.925	-0.2147	ppb	2.9696	1383.0	0.6516	-0.21473
Sr 216.596	-0.0661	ppb	0.3247	491.3	9.8761	-0.06609
Ti 334.941	-0.1046	ppb	0.0242	23.1	-56.7349	-0.10457
Tl 190.794	-0.1048	ppb	5.6068	5349.4	-0.3279	-0.10481
V 292.401	0.0018	ppb	0.1639	9160.5	-5.6266	0.00179
Zn 206.200	0.7341	ppb	1.4392	196.0	2.8748	0.73412

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**680-88490-c-4-b (Samp)**                      **3/27/2013, 9:49:39 PM**                      **Rack 2, Tube 3**  
**Weight: 1**    **Volume: 1**    **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.1583u	-1.0131u	-0.8645u
Al 308.215	23.3949	23.3015	25.6009
As 188.980	-4.1112u	-3.2491u	1.0756
B 249.678	4.7732	4.0434	3.8504
Ba 389.178	15.3794	15.3593	15.1831
Be 313.042	-0.0263u	-0.0273u	-0.0316u
Ca 370.602	1618	1609	1616
Cd 226.502	-0.0164u	-0.3463u	-0.0200u
Co 228.615	0.2479	0.6998	0.0169
Cr 267.716	-0.4410u	-0.5373u	-0.3431u
Cu 324.754	0.0209	0.0790	0.4779
Fe 271.441	100.916	95.2389	104.568
K 766.491	383.145	384.077	385.993
Mg 279.078	523.476	519.032	524.550
Mn 257.610	15.9087	15.9458	15.8834
Mo 202.032	0.5374	1.4521	0.5553
Na 330.237	32287.1	31937.9	32228.5
Ni 231.604	0.7257	3.1176	1.8406
Pb 220.353	1.4849	-0.9911u	1.3211
Sb 206.834	-0.9506u	-0.9292u	-0.3328u
Se 196.026	4.5046	-5.3691u	-7.1232u
Sn 189.925	-1.7491u	3.3506	-1.3025u
Sr 216.596	31.7362	31.8686	31.2433
Ti 334.941	0.3098	0.2938	0.3471
Tl 190.794	-5.7354u	-2.1655u	4.5522
V 292.401	1.6219	1.1573	1.0142
Zn 206.200	0.8481	1.2423	0.2831

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.6786	ppb	0.4567	67.3	-80.6987
Al 308.215	24.0991	ppb	1.3014	5.4	381.798
As 188.980	-2.0949	ppb	2.7794	132.7	0.9445
B 249.678	4.2223	ppb	0.4867	11.5	396.974
Ba 389.178	15.3073	ppb	0.1080	0.7	349.448
Be 313.042	-0.0284	ppb	0.0028	10.0	-231.238
Ca 370.602	1614	ppb	4.459	0.3	5199
Cd 226.502	-0.1276	ppb	0.1894	148.5	8.5137
Co 228.615	0.3215	ppb	0.3473	108.0	17.3337
Cr 267.716	-0.4405	ppb	0.0971	22.0	-8.4349
Cu 324.754	0.1926	ppb	0.2488	129.2	117.102
Fe 271.441	100.241	ppb	4.7010	4.7	170.558
K 766.491	384.405	ppb	1.4521	0.4	19091.5
Mg 279.078	522.352	ppb	2.9253	0.6	1085.48
Mn 257.610	15.9127	ppb	0.0314	0.2	3682.93
Mo 202.032	0.8483	ppb	0.5230	61.7	20.7489
Na 330.237	32151.2	ppb	187.026	0.6	1628.82
Ni 231.604	1.8946	ppb	1.1969	63.2	5.4301
Pb 220.353	0.6049	ppb	1.3847	228.9	3.4503
Sb 206.834	-0.7375	ppb	0.3507	47.5	0.5708
Se 196.026	-2.6626	ppb	6.2686	235.4	-1.0491
Sn 189.925	0.0997	ppb	2.8242	2833.4	0.9005
Sr 216.596	31.6160	ppb	0.3295	1.0	308.391
Ti 334.941	0.3169	ppb	0.0274	8.6	50.5737
Tl 190.794	-1.1162	ppb	5.2235	468.0	-1.0138
V 292.401	1.2645	ppb	0.3177	25.1	28.6921
Zn 206.200	0.7912	ppb	0.4822	60.9	2.9751

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680-88490-c-8-b (Samp)                      3/27/2013, 9:55:15 PM                      Rack 2, Tube 4  
 Weight: 1                                      Volume: 1                                      Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.0650u	-1.5723u	-1.9758u
Al 308.215	6.4293	1.8564	2.5585
As 188.980	-5.9477u	-6.8152u	-14.9821u
B 249.678	80.2399	81.0657	81.7802
Ba 389.178	49.7202	48.9765	49.7565
Be 313.042	0.0218	0.0198	0.0295
Ca 370.602	5385	5353	5345
Cd 226.502	0.0049	-0.0592u	0.0995
Co 228.615	1.3352	1.2855	0.9052
Cr 267.716	0.0015	0.0209	-0.0249u
Cu 324.754	1.4357	1.8210	2.1247
Fe 271.441	10.0311	6.5343	11.9792
K 766.491	729.685	725.011	724.605
Mg 279.078	724.454	720.238	716.597
Mn 257.610	40.8598	40.5332	40.6312
Mo 202.032	-0.8124u	-1.1494u	-0.7585u
Na 330.237	8310.24	8224.61	8470.40
Ni 231.604	5.1970	5.9670	4.8654
Pb 220.353	-1.2057u	-4.9492u	0.1111
Sb 206.834	-0.8968u	0.9337	-3.8721u
Se 196.026	5.7265	-2.0617u	-5.1353u
Sn 189.925	-3.1473u	-2.7638u	3.9579
Sr 216.596	111.391	110.020	110.378
Ti 334.941	-0.0521u	-0.1526u	-0.1097u
Tl 190.794	-5.6150u	-0.0792u	-3.8204u
V 292.401	0.5087	0.4612	0.3825
Zn 206.200	21.6602	21.0032	23.0833

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.1610	ppb	1.0808	93.1	-117.764
Al 308.215	3.6147	ppb	2.4626	68.1	264.294
As 188.980	-9.2483	ppb	4.9845	53.9	-2.9103
B 249.678	81.0286	ppb	0.7708	1.0	1100.53
Ba 389.178	49.4844	ppb	0.4402	0.9	1167.62
Be 313.042	0.0237	ppb	0.0051	21.6	-125.799
Ca 370.602	5361	ppb	21.56	0.4	17301
Cd 226.502	0.0151	ppb	0.0799	529.5	13.5234
Co 228.615	1.1753	ppb	0.2352	20.0	27.1503
Cr 267.716	-0.0008	ppb	0.0230	2857.2	9.6498
Cu 324.754	1.7938	ppb	0.3453	19.2	194.346
Fe 271.441	9.5149	ppb	2.7589	29.0	18.6070
K 766.491	726.434	ppb	2.8227	0.4	35877.9
Mg 279.078	720.430	ppb	3.9318	0.5	1488.52
Mn 257.610	40.6748	ppb	0.1676	0.4	9298.93
Mo 202.032	-0.9067	ppb	0.2118	23.4	9.4235
Na 330.237	8335.08	ppb	124.761	1.5	419.293
Ni 231.604	5.3431	ppb	0.5652	10.6	13.5799
Pb 220.353	-2.0146	ppb	2.6254	130.3	-0.7563
Sb 206.834	-1.2784	ppb	2.4255	189.7	0.0788
Se 196.026	-0.4902	ppb	5.5989	1142.3	-0.0479
Sn 189.925	-0.6511	ppb	3.9961	613.8	0.3264
Sr 216.596	110.596	ppb	0.7109	0.6	1052.61
Ti 334.941	-0.1048	ppb	0.0504	48.1	-54.4458
Tl 190.794	-3.1715	ppb	2.8244	89.1	-2.3910
V 292.401	0.4508	ppb	0.0638	14.1	6.8315
Zn 206.200	21.9155	ppb	1.0633	4.8	36.0567



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680-88490-c-13-b (Samp)                      3/27/2013, 10:00:40 PM                      Rack 2, Tube 5  
 Weight: 1    Volume: 1    Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.6476u	-0.3396u	-1.1120u
Al 308.215	5.4540	5.5838	3.7490
As 188.980	-7.4147u	-8.5305u	3.1977
B 249.678	37.3939	38.5775	36.9767
Ba 389.178	51.1386	51.2546	50.3623
Be 313.042	-0.0378u	-0.0431u	-0.0374u
Ca 370.602	15066	15059	14929
Cd 226.502	0.6954	0.8519	0.8894
Co 228.615	3.5310	4.8948	4.2795
Cr 267.716	-0.1521u	0.2002	-0.5463u
Cu 324.754	2.5776	3.0629	2.1960
Fe 271.441	437.016	432.218	430.947
K 766.491	962.113	964.985	953.660
Mg 279.078	2640.22	2646.17	2623.56
Mn 257.610	439.022	439.394	436.156
Mo 202.032	-0.8916u	-0.7251u	-1.5797u
Na 330.237	67108.5	67207.6	66767.5
Ni 231.604	2.8383	2.5028	2.5126
Pb 220.353	-0.1943u	0.0993	-1.1934u
Sb 206.834	4.4885	4.9086	2.7545
Se 196.026	-7.5462u	0.4467	-1.5201u
Sn 189.925	-1.3051u	-0.3798u	-5.5625u
Sr 216.596	120.032	120.575	120.260
Ti 334.941	-0.0939u	-0.1855u	-0.2286u
Tl 190.794	2.7282	5.9232	-5.4337u
V 292.401	-0.1054u	0.0669	-0.1804u
Zn 206.200	79.0314	81.4298	80.7228

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.6997	ppb	0.3888	55.6	-84.2553
Al 308.215	4.9289	ppb	1.0239	20.8	271.816
As 188.980	-4.2492	ppb	6.4732	152.3	-0.1281
B 249.678	37.6494	ppb	0.8304	2.2	702.831
Ba 389.178	50.9185	ppb	0.4852	1.0	1207.73
Be 313.042	-0.0395	ppb	0.0032	8.1	-251.941
Ca 370.602	15018	ppb	77.10	0.5	48450
Cd 226.502	0.8122	ppb	0.1029	12.7	42.5824
Co 228.615	4.2351	ppb	0.6830	16.1	62.1343
Cr 267.716	-0.1661	ppb	0.3735	224.8	5.2450
Cu 324.754	2.6121	ppb	0.4345	16.6	233.980
Fe 271.441	433.393	ppb	3.2006	0.7	729.455
K 766.491	960.253	ppb	5.8870	0.6	47353.4
Mg 279.078	2636.65	ppb	11.7178	0.4	5385.35
Mn 257.610	438.191	ppb	1.7720	0.4	99449.6
Mo 202.032	-1.0655	ppb	0.4531	42.5	8.3806
Na 330.237	67027.9	ppb	230.894	0.3	3399.20
Ni 231.604	2.6179	ppb	0.1909	7.3	7.1461
Pb 220.353	-0.4294	ppb	0.6777	157.8	1.8763
Sb 206.834	4.0505	ppb	1.1419	28.2	5.1783
Se 196.026	-2.8732	ppb	4.1647	145.0	-1.0480
Sn 189.925	-2.4158	ppb	2.7641	114.4	-0.9851
Sr 216.596	120.289	ppb	0.2729	0.2	1144.96
Ti 334.941	-0.1693	ppb	0.0688	40.6	-67.2208
Tl 190.794	1.0726	ppb	5.8566	546.0	0.0126
V 292.401	-0.0730	ppb	0.1268	173.8	-8.0119
Zn 206.200	80.3947	ppb	1.2324	1.5	124.866

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680-88506-a-10-a (Samp)                      3/27/2013, 10:06:05 PM                      Rack 2, Tube 6  
 Weight: 1    Volume: 1    Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-1.5228u	-0.3433u	-1.0890u
Al 308.215	499.187	503.336	500.593
As 188.980	-8.3441u	-5.3044u	-5.2884u
B 249.678	-19.9093u	-19.5070u	-19.3271u
Ba 389.178	22.2237	21.4805	22.1096
Be 313.042	0.0599	0.0567	0.0599
Ca 370.602	658.6	667.3	669.3
Cd 226.502	661.398	665.524	667.167
Co 228.615	22.2653	21.4941	22.5882
Cr 267.716	-0.2261u	0.0306u	-0.0706u
Cu 324.754	8.0996	9.0661	8.2199
Fe 271.441	2.4378	7.2260	6.7145
K 766.491	366.029	367.202	366.571
Mg 279.078	1298.87	1312.25	1321.14
Mn 257.610	7.0385	7.1405	7.1504
Mo 202.032	-1.4937u	-1.1549u	-0.8531u
Na 330.237	10120.6	10244.8	10204.2
Ni 231.604	271.333	272.965	275.660
Pb 220.353	1.8046	0.6632	2.9028
Sb 206.834	-4.4541u	-0.6917u	-0.0452u
Se 196.026	5.2576	-4.1514u	0.1822
Sn 189.925	-3.0194u	-4.3345u	-1.4861u
Sr 216.596	14.7157	14.8449	15.4546
Ti 334.941	-0.3632u	-0.2262u	-0.2771u
Tl 190.794	2.2520	0.8218	-2.1122u
V 292.401	0.2600	-0.2290u	0.0694
Zn 206.200	8.1195	4.0417	4.1352

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.9850	ppb	0.5966	60.6	-101.471
Al 308.215	501.039	ppb	2.1102	0.4	3112.28
As 188.980	-6.3123	ppb	1.7596	27.9	-1.3510
B 249.678	-19.5811	ppb	0.2981	1.5	179.036
Ba 389.178	21.9379	ppb	0.4002	1.8	510.096
Be 313.042	0.0588	ppb	0.0018	3.1	-59.6735
Ca 370.602	665.1	ppb	5.646	0.8	2142
Cd 226.502	664.697	ppb	2.9724	0.4	23674.8
Co 228.615	22.1159	ppb	0.5622	2.5	266.645
Cr 267.716	-0.0887	ppb	0.1293	145.8	0.3743
Cu 324.754	8.4619	ppb	0.5267	6.2	516.294
Fe 271.441	5.4594	ppb	2.6293	48.2	15.0219
K 766.491	366.601	ppb	0.5871	0.2	18217.6
Mg 279.078	1310.75	ppb	11.2097	0.9	2691.24
Mn 257.610	7.1098	ppb	0.0620	0.9	1691.04
Mo 202.032	-1.1672	ppb	0.3205	27.5	7.7425
Na 330.237	10189.9	ppb	63.3500	0.6	513.604
Ni 231.604	273.319	ppb	2.1855	0.8	647.010
Pb 220.353	1.7902	ppb	1.1199	62.6	5.3425
Sb 206.834	-1.7303	ppb	2.3809	137.6	-0.3530
Se 196.026	0.4295	ppb	4.7094	1096.6	0.3659
Sn 189.925	-2.9467	ppb	1.4256	48.4	-1.4107
Sr 216.596	15.0051	ppb	0.3947	2.6	147.839
Ti 334.941	-0.2888	ppb	0.0692	24.0	-99.0577
Tl 190.794	0.3205	ppb	2.2248	694.1	-0.0462
V 292.401	0.0334	ppb	0.2465	737.0	-4.6526
Zn 206.200	5.4321	ppb	2.3278	42.8	51.0086

E03272013.wvq. All Data Report 3/28/2013, 2:04:12 PM

**680-88506-a-11-a (Samp)**                      **3/27/2013, 10:11:30 PM**                      **Rack 2, Tube 7**  
**Weight: 1**    **Volume: 1**    **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-1.0864u	-0.5962u	0.0459
Al 308.215	222.622	222.438	225.111
As 188.980	-5.3337u	-6.0668u	-12.0012u
B 249.678	-19.5402u	-19.7607u	-18.9491u
Ba 389.178	16.2516	16.7063	16.3121
Be 313.042	0.1015	0.0995	0.0991
Ca 370.602	1042	1030	1040
Cd 226.502	0.1510	0.2132	-0.0633u
Co 228.615	0.1013	0.8771	0.8111
Cr 267.716	-0.3064u	-0.0333u	-0.0557u
Cu 324.754	1.5654	0.8546	1.3842
Fe 271.441	67.8360	68.3456	64.3920
K 766.491	201.351	200.503	198.877
Mg 279.078	1321.33	1317.90	1319.03
Mn 257.610	3.6114	3.6718	3.5756
Mo 202.032	-0.8054u	-1.3256u	-0.8876u
Na 330.237	3982.24	3940.12	3806.56
Ni 231.604	1.1463	-0.0407u	1.6914
Pb 220.353	2.4884	-0.1369u	0.6008
Sb 206.834	1.1208	2.4220	1.3569
Se 196.026	1.9123	1.2815	7.1456
Sn 189.925	-1.5372u	-2.1315u	2.2629
Sr 216.596	30.3311	29.2292	29.9209
Ti 334.941	0.3457	0.4503	0.3379
Tl 190.794	0.7139	0.9491	-1.6615u
V 292.401	1.2889	1.3560	1.4971
Zn 206.200	17.2384	17.7551	18.3356

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.5456	ppb	0.5678	104.1	-71.4116
Al 308.215	223.390	ppb	1.4929	0.7	1522.61
As 188.980	-7.8006	ppb	3.6563	46.9	-2.1568
B 249.678	-19.4167	ppb	0.4197	2.2	180.488
Ba 389.178	16.4233	ppb	0.2469	1.5	378.259
Be 313.042	0.1000	ppb	0.0013	1.3	20.8989
Ca 370.602	1037	ppb	6.647	0.6	3339
Cd 226.502	0.1003	ppb	0.1451	144.6	16.7206
Co 228.615	0.5965	ppb	0.4302	72.1	20.5376
Cr 267.716	-0.1318	ppb	0.1516	115.1	3.9695
Cu 324.754	1.2681	ppb	0.3694	29.1	168.975
Fe 271.441	66.8579	ppb	2.1506	3.2	114.582
K 766.491	200.244	ppb	1.2571	0.6	10053.0
Mg 279.078	1319.42	ppb	1.7476	0.1	2709.05
Mn 257.610	3.6196	ppb	0.0486	1.3	899.853
Mo 202.032	-1.0062	ppb	0.2796	27.8	8.7773
Na 330.237	3909.64	ppb	91.7158	2.3	194.578
Ni 231.604	0.9324	ppb	0.8857	95.0	3.1551
Pb 220.353	0.9841	ppb	1.3540	137.6	4.0564
Sb 206.834	1.6332	ppb	0.6932	42.4	2.8603
Se 196.026	3.4464	ppb	3.2190	93.4	1.7480
Sn 189.925	-0.4686	ppb	2.3841	508.8	0.4612
Sr 216.596	29.8271	ppb	0.5569	1.9	291.569
Ti 334.941	0.3780	ppb	0.0628	16.6	71.4837
Tl 190.794	0.0005	ppb	1.4442	295751.8	-0.2634
V 292.401	1.3807	ppb	0.1063	7.7	32.4301
Zn 206.200	17.7764	ppb	0.5489	3.1	29.7416

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**680-88506-a-12-a (Samp)**                      **3/27/2013, 10:16:55 PM**                      **Rack 2, Tube 8**  
**Weight: 1**    **Volume: 1**    **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.4320u	0.3760	-0.7874u
Al 308.215	114.849	110.673	112.294
As 188.980	-6.1848u	-2.8120u	-9.1875u
B 249.678	-22.4250u	-22.4315u	-21.8498u
Ba 389.178	9.5611	8.8858	9.6551
Be 313.042	0.0315	0.0293	0.0386
Ca 370.602	2631	2606	2621
Cd 226.502	0.3377	0.3156	0.1896
Co 228.615	0.3781	0.4808	0.4624
Cr 267.716	-0.0489u	0.1148	-0.0466u
Cu 324.754	3.1698	3.3887	3.6069
Fe 271.441	21.9650	9.5901	11.2353
K 766.491	282.738	279.073	279.945
Mg 279.078	1683.60	1670.74	1676.26
Mn 257.610	16.8681	16.7471	16.8152
Mo 202.032	-0.0830u	-1.5038u	-1.0839u
Na 330.237	18612.3	18262.8	18489.1
Ni 231.604	0.2166	2.7421	0.2085
Pb 220.353	2.4806	-0.0054u	1.3461
Sb 206.834	2.1729	3.1930	-1.2623u
Se 196.026	8.5500	-9.1739u	-3.3456u
Sn 189.925	-2.2657u	-0.4847u	2.1837
Sr 216.596	48.2706	48.6917	48.2548
Ti 334.941	0.1748	0.1406	0.0051
Tl 190.794	-2.9776u	-0.8865u	-1.6606u
V 292.401	0.4069	0.5889	0.4409
Zn 206.200	25.7802	23.5886	24.7772

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.2811	ppb	0.5962	212.1	-53.6456
Al 308.215	112.605	ppb	2.1056	1.9	888.343
As 188.980	-6.0615	ppb	3.1895	52.6	-1.2004
B 249.678	-22.2354	ppb	0.3340	1.5	154.719
Ba 389.178	9.3673	ppb	0.4197	4.5	210.306
Be 313.042	0.0331	ppb	0.0048	14.6	-109.778
Ca 370.602	2619	ppb	12.25	0.5	8451
Cd 226.502	0.2810	ppb	0.0799	28.4	22.9531
Co 228.615	0.4405	ppb	0.0548	12.4	18.7441
Cr 267.716	0.0064	ppb	0.0939	1464.2	10.0211
Cu 324.754	3.3885	ppb	0.2186	6.5	271.346
Fe 271.441	14.2635	ppb	6.7203	47.1	26.4223
K 766.491	280.585	ppb	1.9141	0.7	13996.1
Mg 279.078	1676.87	ppb	6.4518	0.4	3436.90
Mn 257.610	16.8101	ppb	0.0606	0.4	3892.64
Mo 202.032	-0.8902	ppb	0.7299	82.0	9.5299
Na 330.237	18454.7	ppb	177.267	1.0	933.153
Ni 231.604	1.0557	ppb	1.4604	138.3	3.4457
Pb 220.353	1.2738	ppb	1.2446	97.7	4.5271
Sb 206.834	1.3679	ppb	2.3342	170.6	2.6036
Se 196.026	-1.3232	ppb	9.0334	682.7	-0.4352
Sn 189.925	-0.1889	ppb	2.2394	1185.4	0.6782
Sr 216.596	48.4057	ppb	0.2478	0.5	466.654
Ti 334.941	0.1068	ppb	0.0897	84.0	2.7275
Tl 190.794	-1.8416	ppb	1.0572	57.4	-1.4906
V 292.401	0.4789	ppb	0.0967	20.2	7.4989
Zn 206.200	24.7153	ppb	1.0971	44.4	40.2832

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**680-88506-a-14-a (Samp)**                      **3/27/2013, 10:22:20 PM**                      **Rack 2, Tube 9**  
**Weight: 1**    **Volume: 1**    **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.8129u	0.1078	-0.5555u
Al 308.215	77.7844	77.3971	76.9896
As 188.980	-3.8887u	1.1388	-6.5216u
B 249.678	-17.0794u	-18.6124u	-18.7584u
Ba 389.178	9.1447	8.7064	9.4825
Be 313.042	0.0203	0.0145	0.0230
Ca 370.602	2462	2452	2445
Cd 226.502	3.8054	3.7975	3.7525
Co 228.615	1.0916	0.3043	0.7156
Cr 267.716	-0.3121u	-0.1692u	-0.1214u
Cu 324.754	1.1302	0.8041	1.6418
Fe 271.441	10.9807	11.5035	15.9898
K 766.491	223.988	221.830	220.971
Mg 279.078	819.737	811.819	807.086
Mn 257.610	3.8186	3.7980	3.8094
Mo 202.032	-0.9159u	-1.0431u	-1.1528u
Na 330.237	10917.3	10953.2	10610.1
Ni 231.604	9.6588	8.1879	8.4698
Pb 220.353	-2.1248u	3.8344	4.3574
Sb 206.834	1.1152	-6.2372u	0.6897
Se 196.026	-6.0083u	2.2360	3.6228
Sn 189.925	0.0782	-1.1963u	-0.9512u
Sr 216.596	68.8745	67.7130	69.0834
Ti 334.941	-0.0422u	0.0556	0.1257
Tl 190.794	-3.9871u	5.3180	6.3571
V 292.401	0.8414	0.2735	0.4895
Zn 206.200	26.1512	24.9166	25.1150

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.4202	ppb	0.4750	113.0	-64.2899
Al 308.215	77.3903	ppb	0.3975	0.5	686.677
As 188.980	-3.0905	ppb	3.8921	125.9	0.4114
B 249.678	-18.1501	ppb	0.9301	5.1	192.144
Ba 389.178	9.1112	ppb	0.3891	4.3	201.832
Be 313.042	0.0193	ppb	0.0043	22.5	-135.704
Ca 370.602	2453	ppb	8.528	0.3	7914
Cd 226.502	3.7851	ppb	0.0286	0.8	147.710
Co 228.615	0.7038	ppb	0.3938	55.9	21.7660
Cr 267.716	-0.2009	ppb	0.0992	49.4	1.1548
Cu 324.754	1.1920	ppb	0.4223	35.4	165.288
Fe 271.441	12.8246	ppb	2.7536	21.5	23.9947
K 766.491	222.263	ppb	1.5545	0.7	11133.7
Mg 279.078	812.880	ppb	6.3920	0.8	1677.37
Mn 257.610	3.8087	ppb	0.0103	0.3	939.761
Mo 202.032	-1.0373	ppb	0.1185	11.4	8.5807
Na 330.237	10826.9	ppb	188.582	1.7	545.799
Ni 231.604	8.7722	ppb	0.7807	8.9	21.6853
Pb 220.353	2.0223	ppb	3.6010	178.1	5.7298
Sb 206.834	-1.4774	ppb	4.1276	279.4	-0.1100
Se 196.026	-0.0499	ppb	5.2066	10443.4	0.1454
Sn 189.925	-0.6898	ppb	0.6763	98.0	0.2968
Sr 216.596	68.5570	ppb	0.7383	1.1	656.350
Ti 334.941	0.0464	ppb	0.0843	181.8	-15.6866
Tl 190.794	2.5627	ppb	5.6960	222.3	1.4295
V 292.401	0.5348	ppb	0.2867	53.6	9.1505
Zn 206.200	25.3943	ppb	0.6630	2.6	413.120

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680-88506-a-13-a (Samp) 3/27/2013, 10:27:46 PM Rack 2, Tube 10

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.2132	-0.8592u	0.0334
Al 308.215	360.705	359.428	362.524
As 188.980	-3.2228u	-4.7554u	-1.7505u
B 249.678	-21.9733u	-21.9936u	-21.7518u
Ba 389.178	7.3058	8.1795	7.2690
Be 313.042	0.0416	0.0457	0.0443
Ca 370.602	2257	2267	2297
Cd 226.502	146.657	147.245	148.205
Co 228.615	4.4870	4.6704	3.8056
Cr 267.716	0.0214u	0.0107u	-0.3638u
Cu 324.754	1.8555	1.5047	1.2153
Fe 271.441	12.6702	14.8429	2.5927
K 766.491	209.258	209.163	209.841
Mg 279.078	1009.64	1006.38	1017.95
Mn 257.610	7.1593	7.2566	7.2683
Mo 202.032	-0.8148u	-1.4554u	-0.4347u
Na 330.237	16637.4	16644.5	16791.1
Ni 231.604	64.9954	65.7500	66.9510
Pb 220.353	1.0598	0.9599	0.9669
Sb 206.834	-7.2467u	-4.5585u	1.9525
Se 196.026	0.0636	0.3739	-5.6185u
Sn 189.925	-3.2757u	-4.2529u	0.5354
Sr 216.596	50.0020	51.3308	51.6412
Ti 334.941	-0.1109u	-0.0856u	-0.1186u
Tl 190.794	1.4657	5.8249	-5.2394u
V 292.401	0.8043	0.0843	0.4903
Zn 206.200	8.2820	7.4391	6.6906

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.2042	ppb	0.5743	281.3	-48.4140
Al 308.215	360.886	ppb	1.5555	0.4	2309.81
As 188.980	-3.2429	ppb	1.5025	46.3	0.3272
B 249.678	-21.9062	ppb	0.1341	0.6	157.736
Ba 389.178	7.5848	ppb	0.5154	6.8	165.851
Be 313.042	0.0439	ppb	0.0021	4.8	-88.8244
Ca 370.602	2274	ppb	21.09	0.9	7335
Cd 226.502	147.369	ppb	0.7814	0.5	5259.00
Co 228.615	4.3210	ppb	0.4557	10.5	63.1340
Cr 267.716	-0.1106	ppb	0.2194	198.4	3.8483
Cu 324.754	1.5252	ppb	0.3206	21.0	181.371
Fe 271.441	10.0353	ppb	6.5364	65.1	19.9751
K 766.491	209.421	ppb	0.3675	0.2	10503.4
Mg 279.078	1011.32	ppb	5.9691	0.6	2081.42
Mn 257.610	7.2281	ppb	0.0599	0.8	1716.19
Mo 202.032	-0.9016	ppb	0.5159	57.2	9.4564
Na 330.237	16691.0	ppb	86.7964	0.5	843.719
Ni 231.604	65.8988	ppb	0.9862	1.5	156.719
Pb 220.353	0.9955	ppb	0.0558	5.6	4.0724
Sb 206.834	-3.2842	ppb	4.7301	144.0	-1.8347
Se 196.026	-1.7270	ppb	3.3737	195.4	-0.6225
Sn 189.925	-2.3311	ppb	2.5301	108.5	-0.9424
Sr 216.596	50.9913	ppb	0.8707	1.7	490.038
Ti 334.941	-0.1050	ppb	0.0172	16.4	-53.9015
Tl 190.794	0.6837	ppb	5.5735	815.2	0.1872
V 292.401	0.4597	ppb	0.3610	78.5	7.0488
Zn 206.200	7.4706	ppb	0.7962	10.7	14.1144

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680-88506-a-15-a (Samp)      3/27/2013, 10:33:12 PM      Rack 2, Tube 11  
 Weight: 1      Volume: 1      Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.4604u	-1.0473u	-0.4629u
Al 308.215	109.685	107.933	115.333
As 188.980	-7.1442u	-6.7030u	-3.4509u
B 249.678	-20.8760u	-21.1357u	-20.1514u
Ba 389.178	14.0671	13.7465	13.5557
Be 313.042	0.0075	0.0021	0.0090
Ca 370.602	1408	1409	1422
Cd 226.502	0.5110	0.3347	0.5969
Co 228.615	-0.1392u	-0.3128u	-0.1404u
Cr 267.716	0.1614	-0.3190u	-0.2576u
Cu 324.754	9.0524	8.5356	9.0407
Fe 271.441	24.7245	22.4074	22.5942
K 766.491	973.184	968.582	972.594
Mg 279.078	1819.57	1816.17	1842.78
Mn 257.610	4.6286	4.6384	4.6915
Mo 202.032	-1.3080u	-1.4236u	-1.0462u
Na 330.237	13258.7	13111.6	13211.7
Ni 231.604	-0.2576u	0.4698	1.0287
Pb 220.353	-2.4819u	-2.6228u	1.0975
Sb 206.834	3.0471	-8.8408u	-0.5703u
Se 196.026	-1.6150u	-8.2269u	-8.5959u
Sn 189.925	-1.7157u	-5.2192u	-3.3005u
Sr 216.596	18.2136	18.3740	17.2134
Ti 334.941	0.3063	0.2516	0.2471
Tl 190.794	-5.4316u	-3.4965u	-2.2181u
V 292.401	0.8050	1.0047	1.1378
Zn 206.200	35.2964	34.2267	35.1344

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.6569	ppb	0.3381	51.5	-78.6724
Al 308.215	110.984	ppb	3.8674	3.5	878.980
As 188.980	-5.7660	ppb	2.0171	35.0	-1.0490
B 249.678	-20.7210	ppb	0.5101	2.5	168.584
Ba 389.178	13.7898	ppb	0.2584	1.9	316.532
Be 313.042	0.0062	ppb	0.0036	58.4	-161.738
Ca 370.602	1413	ppb	7.927	0.6	4556
Cd 226.502	0.4808	ppb	0.1337	27.8	30.1157
Co 228.615	-0.1975	ppb	0.0999	50.6	11.4713
Cr 267.716	-0.1384	ppb	0.2615	188.9	3.8344
Cu 324.754	8.8763	ppb	0.2951	3.3	536.289
Fe 271.441	23.2420	ppb	1.2872	5.5	41.4056
K 766.491	971.453	ppb	2.5044	0.3	47903.2
Mg 279.078	1826.18	ppb	14.4828	0.8	3741.20
Mn 257.610	4.6528	ppb	0.0338	0.7	1136.73
Mo 202.032	-1.2592	ppb	0.1934	15.4	7.1464
Na 330.237	13194.0	ppb	75.1264	0.6	665.934
Ni 231.604	0.4136	ppb	0.6450	155.9	1.9280
Pb 220.353	-1.3357	ppb	2.1084	157.9	0.3272
Sb 206.834	-2.1213	ppb	6.0939	287.3	-0.7223
Se 196.026	-6.1459	ppb	3.9282	63.9	-2.6484
Sn 189.925	-3.4118	ppb	1.7544	51.4	-1.7612
Sr 216.596	17.9337	ppb	0.6289	3.5	179.571
Ti 334.941	0.2684	ppb	0.0330	12.3	44.9138
Tl 190.794	-3.7154	ppb	1.6179	43.5	-2.7158
V 292.401	0.9825	ppb	0.1675	17.0	21.4999
Zn 206.200	34.8858	ppb	0.5766	1.7	55.7055

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680-88506-a-16-a (Samp) 3/27/2013, 10:38:38 PM Rack 2, Tube 12

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-1.3024u	-0.8816u	-1.6429u
Al 308.215	33.8999	36.1489	37.2652
As 188.980	-8.5933u	2.2072	0.0360
B 249.678	-20.5713u	-21.1324u	-19.9513u
Ba 389.178	26.6312	25.9104	26.5381
Be 313.042	-0.0342u	-0.0422u	-0.0452u
Ca 370.602	28208	28203	28344
Cd 226.502	-0.2729u	-0.3077u	0.1332
Co 228.615	0.3828	-0.1396u	-0.3109u
Cr 267.716	3.4341	3.6393	3.3531
Cu 324.754	1.3240	0.7854	1.3666
Fe 271.441	78.8817	75.7567	78.8412
K 766.491	2276.88	2262.91	2268.53
Mg 279.078	16329.7	16356.6	16376.5
Mn 257.610	3.7443	3.7338	3.7199
Mo 202.032	0.3852	0.7586	0.4316
Na 330.237	4681.27	4692.91	4565.66
Ni 231.604	0.0714	2.0379	-0.1502u
Pb 220.353	0.2878	0.3083	-0.1518u
Sb 206.834	-0.6549u	-0.3930u	-2.5971u
Se 196.026	1.2629	-2.4111u	-0.5557u
Sn 189.925	-5.3697u	-2.9018u	-3.3614u
Sr 216.596	80.5447	80.9765	80.8638
Ti 334.941	0.2855	0.2474	0.3674
Tl 190.794	0.1149	4.7769	6.3666
V 292.401	14.0661	14.8052	13.8597
Zn 206.200	9.2722	8.4249	10.4676

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.2756	ppb	0.3813	29.9	-124.775
Al 308.215	35.7713	ppb	1.7141	4.8	448.304
As 188.980	-2.1167	ppb	5.7130	269.9	1.1289
B 249.678	-20.5517	ppb	0.5908	2.9	170.084
Ba 389.178	26.3599	ppb	0.3920	1.5	656.641
Be 313.042	-0.0406	ppb	0.0057	14.0	-243.047
Ca 370.602	28251	ppb	80.10	0.3	91183
Cd 226.502	-0.1491	ppb	0.2451	164.4	8.0467
Co 228.615	-0.0226	ppb	0.3613	1601.5	13.4412
Cr 267.716	3.4755	ppb	0.1475	4.2	154.678
Cu 324.754	1.1586	ppb	0.3239	28.0	163.596
Fe 271.441	77.8265	ppb	1.7927	2.3	132.977
K 766.491	2269.44	ppb	7.0308	0.3	111607
Mg 279.078	16354.2	ppb	23.4972	0.1	33331.6
Mn 257.610	3.7327	ppb	0.0123	0.3	1008.26
Mo 202.032	0.5251	ppb	0.2035	38.7	18.6416
Na 330.237	4646.61	ppb	70.3475	1.5	232.057
Ni 231.604	0.6530	ppb	1.2045	184.4	2.4950
Pb 220.353	0.1481	ppb	0.2599	175.5	2.7137
Sb 206.834	-1.2150	ppb	1.2041	99.1	0.1587
Se 196.026	-0.5680	ppb	1.8370	323.4	-0.0918
Sn 189.925	-3.8777	ppb	1.3124	33.8	-2.1061
Sr 216.596	80.7950	ppb	0.2239	0.3	773.974
Ti 334.941	0.3001	ppb	0.0613	20.4	113.345
Tl 190.794	3.7528	ppb	3.2492	86.6	2.2163
V 292.401	14.2437	ppb	0.4971	3.5	386.017
Zn 206.200	9.3882	ppb	1.0263	10.9	175.2191



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Cont Calib Verif (CCV) 3/27/2013, 10:44:04 PM Rack 2, Tube 13  
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	500.702	498.805	500.156
Al 308.215	5003.01	4992.37	4973.38
As 188.980	472.702	464.212	468.620
B 249.678	2501.25	2510.78	2530.68
Ba 389.178	4944.28	4925.93	4915.83
Be 313.042	490.016	490.563	487.745
Ca 370.602	4938	4942	4925
Cd 226.502	493.697	490.095	490.576
Co 228.615	496.942	494.218	493.409
Cr 267.716	4890.06	4905.83	4892.45
Cu 324.754	4812.98	4781.80	4983.31
Fe 271.441	4980.99	4950.74	4935.47
K 766.491	10101.3	10021.4	10001.0
Mg 279.078	4925.00	4915.68	4902.71
Mn 257.610	4981.89	4959.13	4952.03
Mo 202.032	487.249	486.703	488.545
Na 330.237	7413.94	7563.08	7365.77
Ni 231.604	2463.70	2469.85	2469.06
Pb 220.353	489.549	490.091	486.376
Sb 206.834	902.601	908.361	913.203
Se 196.026	4880.93	4847.64	4867.32
Sn 189.925	5004.97	4967.46	4967.41
Sr 216.596	2441.16	2452.46	2448.40
Ti 334.941	493.470	494.725	493.715
Tl 190.794	4952.33	4971.06	4903.58
V 292.401	4944.02	4924.13	4908.83
Zn 206.200	2457.46	2456.73	2456.92

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	499.887	ppb	0.9769	0.2	34853.6	99.97749
Al 308.215	4989.58	ppb	15.0113	0.3	28788.0	99.79167
As 188.980	468.511	ppb	4.2463	0.9	256.311	93.70224
B 249.678	2514.24	ppb	15.0178	0.6	23382.0	100.56943
Ba 389.178	4928.68	ppb	14.4250	0.3	117947	98.57360
Be 313.042	489.442	ppb	1.4943	0.3	947082	97.88833
Ca 370.602	4935	ppb	8.538	0.2	15792	98.69681
Cd 226.502	491.456	ppb	1.9552	0.4	17519.5	98.29121
Co 228.615	494.856	ppb	1.8513	0.4	5682.04	98.97122
Cr 267.716	4896.11	ppb	8.4971	0.2	204664	97.92226
Cu 324.754	4859.36	ppb	108.467	2.2	234692	97.18729
Fe 271.441	4955.73	ppb	23.1676	0.5	8428.66	99.11465
K 766.491	10041.2	ppb	52.9917	0.5	493037	100.41219
Mg 279.078	4914.46	ppb	11.1948	0.2	9954.07	98.28927
Mn 257.610	4964.35	ppb	15.5990	0.3	1125810	99.28700
Mo 202.032	487.499	ppb	0.9461	0.2	3154.13	97.49979
Na 330.237	7447.60	ppb	102.872	1.4	351.121	99.30128
Ni 231.604	2467.54	ppb	3.3456	0.1	5833.70	98.70145
Pb 220.353	488.672	ppb	2.0070	0.4	788.567	97.73441
Sb 206.834	908.055	ppb	5.3077	0.6	912.979	90.80547
Se 196.026	4865.30	ppb	16.7334	0.3	2231.24	97.30593
Sn 189.925	4979.95	ppb	21.6691	0.4	3766.65	99.59895
Sr 216.596	2447.34	ppb	5.7220	0.2	23012.0	97.89366
Ti 334.941	493.970	ppb	0.6653	0.1	125968	98.79400
Tl 190.794	4942.32	ppb	34.8368	0.7	3258.74	98.84647
V 292.401	4925.66	ppb	17.6437	0.4	135089	98.51323
Zn 206.200	2457.04	ppb	0.3767	0.0	3716.34	98.28146

E03272013.vvq. All Data Report 3/28/2013, 2:04:12 PM

Cont Calib Blank (CCB)                      3/27/2013, 10:49:29 PM                      Rack 2, Tube 14  
 Weight: 1    Volume: 1    Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.9434u	-0.4412u	-0.4691u
Al 308.215	-2.2911u	0.7618	-2.0714u
As 188.980	-1.4720u	0.1902	-1.5033u
B 249.678	30.9273	25.5701	19.3664
Ba 389.178	-0.6581u	-0.0982u	0.5843
Be 313.042	-0.0387u	-0.0313u	-0.0275u
Ca 370.602	0.3762	4.066	-1.745u
Cd 226.502	-0.1402u	-0.1102u	-0.0647u
Co 228.615	-0.3067u	0.1360	0.5459
Cr 267.716	-0.4646u	-0.2974u	-0.3314u
Cu 324.754	-0.1703u	0.3955	-0.4786u
Fe 271.441	6.9116	1.1727	1.3120
K 766.491	-0.3312u	0.2560	-0.4118u
Mg 279.078	0.4153	-3.3375u	2.1622
Mn 257.610	-0.1006u	-0.1601u	-0.1314u
Mo 202.032	-0.7573u	-0.2801u	-0.5542u
Na 330.237	107.517	-136.048u	181.231
Ni 231.604	1.1626	1.2467	-0.8367u
Pb 220.353	1.2571	-2.3547u	0.0749
Sb 206.834	0.5427	0.4344	2.3111
Se 196.026	1.9667	-4.1088u	0.6447
Sn 189.925	-2.4665u	-1.2877u	-5.6425u
Sr 216.596	-0.6625u	0.2944	-0.3227u
Ti 334.941	-0.1488u	0.0514	-0.1319u
Tl 190.794	5.3365	-1.2339u	5.7935
V 292.401	0.0331	-0.0219u	0.0748
Zn 206.200	-0.1084u	0.4295	0.5940

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	-0.6179	ppb	0.2822	45.7	-75.1809	-0.61791
Al 308.215	-1.2002	ppb	1.7027	141.9	236.803	-1.20022
As 188.980	-0.9284	ppb	0.9689	104.4	1.5671	-0.92838
B 249.678	25.2879	ppb	5.7856	22.9	590.010	25.28792
Ba 389.178	-0.0573	ppb	0.6222	1085.4	-19.7615	-0.05733
Be 313.042	-0.0325	ppb	0.0057	17.5	-235.513	-0.03250
Ca 370.602	0.8991	ppb	2.941	327.1	-0.3420	0.89915
Cd 226.502	-0.1050	ppb	0.0380	36.2	9.2460	-0.10504
Co 228.615	0.1251	ppb	0.4264	341.0	15.1212	0.12506
Cr 267.716	-0.3645	ppb	0.0884	24.2	-5.8380	-0.36448
Cu 324.754	-0.0845	ppb	0.4433	524.9	103.674	-0.08446
Fe 271.441	3.1321	ppb	3.2739	104.5	7.7336	3.13212
K 766.491	-0.1623	ppb	0.3645	224.6	217.308	-0.16232
Mg 279.078	-0.2533	ppb	2.8102	1109.3	21.2892	-0.25334
Mn 257.610	-0.1307	ppb	0.0298	22.8	42.0099	-0.13071
Mo 202.032	-0.5305	ppb	0.2395	45.1	11.8537	-0.53055
Na 330.237	50.8998	ppb	166.044	326.2	-1.2196	50.89984
Ni 231.604	0.5242	ppb	1.1793	225.0	2.1889	0.52421
Pb 220.353	-0.3409	ppb	1.8415	540.1	1.9276	-0.34093
Sb 206.834	1.0960	ppb	1.0537	96.1	2.3364	1.09605
Se 196.026	-0.4991	ppb	3.1952	640.1	-0.0615	-0.49913
Sn 189.925	-3.1322	ppb	2.2524	71.9	-1.5547	-3.13222
Sr 216.596	-0.2303	ppb	0.4851	210.7	8.3164	-0.23027
Ti 334.941	-0.0764	ppb	0.1110	145.2	-49.5716	-0.07643
Tl 190.794	3.2987	ppb	3.9320	119.2	1.9192	3.29870
V 292.401	0.0287	ppb	0.0485	169.0	-4.8066	0.02869
Zn 206.200	0.3050	ppb	0.3674	120.5	2.2245	0.30500

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680-88506-a-17-a (Samp) 3/27/2013, 10:54:53 PM Rack 2, Tube 15

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.0117u	-0.4196u	0.0893
Al 308.215	36.5523	35.6930	35.9364
As 188.980	-5.1841u	-2.8489u	-4.7110u
B 249.678	-4.1935u	-6.5909u	-5.7216u
Ba 389.178	6.1584	5.8023	5.2250
Be 313.042	0.0002	0.0072	-0.0056u
Ca 370.602	3087	3094	3087
Cd 226.502	0.2900	0.4834	0.5616
Co 228.615	0.3392	0.4051	0.0134
Cr 267.716	0.2362	0.4928	0.1716
Cu 324.754	3.7555	3.2603	2.8163
Fe 271.441	18.3458	23.6189	15.4924
K 766.491	849.104	848.405	848.906
Mg 279.078	547.263	543.323	544.235
Mn 257.610	12.1710	12.2231	12.2360
Mo 202.032	-0.7845u	-0.5209u	-0.8326u
Na 330.237	2952.18	2826.52	2846.49
Ni 231.604	1.3795	0.7205	1.2127
Pb 220.353	0.8078	-0.1992u	2.1067
Sb 206.834	11.3911	9.8489	8.2586
Se 196.026	-5.0470u	-7.9935u	-10.5063u
Sn 189.925	1.4095	-2.0468u	-5.9351u
Sr 216.596	60.7126	61.0579	60.3888
Ti 334.941	2.3029	2.4656	2.5022
Tl 190.794	2.2868	7.2921	9.6919
V 292.401	1.1794	1.4823	1.2633
Zn 206.200	35.0316	35.1415	35.5247

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1140	ppb	0.2695	236.4	-42.4750
Al 308.215	36.0606	ppb	0.4429	1.2	450.053
As 188.980	-4.2480	ppb	1.2345	29.1	-0.2125
B 249.678	-5.5020	ppb	1.2137	22.1	307.982
Ba 389.178	5.7286	ppb	0.4710	8.2	120.184
Be 313.042	0.0006	ppb	0.0064	1096.5	-170.755
Ca 370.602	3089	ppb	4.227	0.1	9968
Cd 226.502	0.4450	ppb	0.1398	31.4	28.8682
Co 228.615	0.2526	ppb	0.2097	83.0	16.6621
Cr 267.716	0.3002	ppb	0.1699	56.6	22.0349
Cu 324.754	3.2774	ppb	0.4699	14.3	265.970
Fe 271.441	19.1524	ppb	4.1229	21.5	34.6852
K 766.491	848.805	ppb	0.3603	0.0	41883.7
Mg 279.078	544.940	ppb	2.0626	0.4	1131.52
Mn 257.610	12.2100	ppb	0.0344	0.3	2843.42
Mo 202.032	-0.7127	ppb	0.1678	23.5	10.6748
Na 330.237	2875.06	ppb	67.5249	2.3	141.911
Ni 231.604	1.1042	ppb	0.3426	31.0	3.5604
Pb 220.353	0.9051	ppb	1.1560	127.7	3.9333
Sb 206.834	9.8329	ppb	1.5663	15.9	10.6928
Se 196.026	-7.8489	ppb	2.7325	34.8	-3.4272
Sn 189.925	-2.1908	ppb	3.6744	167.7	-0.8406
Sr 216.596	60.7198	ppb	0.3346	0.6	582.678
Ti 334.941	2.4236	ppb	0.1061	4.4	590.047
Tl 190.794	6.4236	ppb	3.7782	58.8	3.9699
V 292.401	1.3083	ppb	0.1564	12.0	30.4751
Zn 206.200	35.2326	ppb	0.2588	0.7	56.2441

E03272013.vvq. All Data Report 3/28/2013, 2:04:12 PM

680-88519-c-1-d (Samp) 3/27/2013, 11:00:18 PM Rack 2, Tube 16

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.3376u	-0.6924u	-1.0444u
Al 308.215	585.154	586.821	588.154
As 188.980	-0.0181	0.3124	2.0246
B 249.678	488.872	493.424	495.170
Ba 389.178	62.5119	63.4287	62.6911
Be 313.042	-0.0120	-0.0254u	-0.0132
Ca 370.602	112753	113147	113132
Cd 226.502	0.0532	-0.0374	-0.2367u
Co 228.615	1.5161	1.7844	1.0801
Cr 267.716	1.5060	1.5345	1.3764
Cu 324.754	1.3147	0.3633	0.9897
Fe 271.441	1301.30	1284.62	1286.38
K 766.491	10980.7	10977.1	10961.7
Mg 279.078	11452.5	11465.2	11453.2
Mn 257.610	755.659	756.367	756.069
Mo 202.032	-1.4075u	-0.2079u	0.1736
Na 330.237	12593.7	12151.0	12153.1
Ni 231.604	6.9059	8.0495	6.3165
Pb 220.353	4.9723	6.6637	1.8330
Sb 206.834	1.8365	-1.2752u	-3.4670u
Se 196.026	2.7971	1.1392	0.6889
Sn 189.925	-0.8450u	-5.6027u	-7.7666u
Sr 216.596	422.954	424.002	424.315
Ti 334.941	8.5916	8.4194	8.7622
Tl 190.794	3.7379	3.4132	4.5676
V 292.401	1.2746	0.7955	0.8693
Zn 206.200	12.9832	13.9811	16.4364

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.6915	ppb	0.3534	51.1	-95.2778
Al 308.215	586.710	ppb	1.5031	0.3	3602.83
As 188.980	0.7730	ppb	1.0965	141.9	3.3122
B 249.678	492.488	ppb	3.2513	0.7	4867.99
Ba 389.178	62.8772	ppb	0.4859	0.8	1518.91
Be 313.042	-0.0169	ppb	0.0074	43.9	-167.933
Ca 370.602	113011	ppb	223.4	0.2	364701
Cd 226.502	-0.0736	ppb	0.1483	201.4	13.4447
Co 228.615	1.4602	ppb	0.3555	24.3	30.5908
Cr 267.716	1.4723	ppb	0.0842	5.7	74.2646
Cu 324.754	0.8893	ppb	0.4836	54.4	151.046
Fe 271.441	1290.77	ppb	9.1604	0.7	2166.01
K 766.491	10973.2	ppb	10.0874	0.1	538777
Mg 279.078	11457.0	ppb	7.1600	0.1	23345.4
Mn 257.610	756.032	ppb	0.3556	0.0	171574
Mo 202.032	-0.4806	ppb	0.8250	171.7	12.1166
Na 330.237	12299.3	ppb	254.968	2.1	620.205
Ni 231.604	7.0906	ppb	0.8811	12.4	17.7347
Pb 220.353	4.4897	ppb	2.4513	54.6	9.8421
Sb 206.834	-0.9685	ppb	2.6650	275.2	0.4110
Se 196.026	1.5417	ppb	1.1103	72.0	1.0507
Sn 189.925	-4.7381	ppb	3.5409	74.7	-2.7222
Sr 216.596	423.757	ppb	0.7129	0.2	4012.18
Ti 334.941	8.5911	ppb	0.1714	2.0	2207.24
Tl 190.794	3.9062	ppb	0.5953	15.2	1.5453
V 292.401	0.9798	ppb	0.2579	26.3	21.4330
Zn 206.200	14.4669	ppb	1.7771	12.3	25.6021

E03272013.vvq. All Data Report 3/28/2013, 2:04:12 PM

680-88519-c-2-b (Samp)                      3/27/2013, 11:05:54 PM                      Rack 2, Tube 17  
 Weight: 1                                      Volume: 1                                      Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.8169u	-1.1490u	-0.1211u
Al 308.215	359.025	358.003	355.087
As 188.980	-5.1400u	-0.8826u	-3.4113u
B 249.678	204.163	204.616	205.597
Ba 389.178	58.7032	58.4529	59.2086
Be 313.042	-0.0262u	-0.0235u	-0.0246u
Ca 370.602	41573	41497	41619
Cd 226.502	-0.0613u	0.2148	-0.0322u
Co 228.615	1.6346	1.0887	1.5466
Cr 267.716	2.9268	2.6087	2.7785
Cu 324.754	1.4018	2.3037	0.7224
Fe 271.441	439.638	433.066	439.461
K 766.491	10297.1	10500.0	10237.3
Mg 279.078	8131.21	8127.17	8121.29
Mn 257.610	388.055	387.606	388.279
Mo 202.032	-1.1890u	-1.1987u	-0.8850u
Na 330.237	11099.4	11042.2	11292.5
Ni 231.604	9.1872	6.9255	7.0812
Pb 220.353	3.0594	0.6920	-1.3237u
Sb 206.834	-0.9172u	-5.5568u	-1.7884u
Se 196.026	2.5648	-8.8095u	-14.0841u
Sn 189.925	-3.4612u	-2.3108u	-2.3217u
Sr 216.596	248.977	249.239	249.548
Ti 334.941	7.6047	5.5062	5.3212
Tl 190.794	-2.6051u	4.9523	4.5016
V 292.401	2.3869	2.0334	2.0993
Zn 206.200	7.9073	8.6418	8.9978

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.6957	ppb	0.5246	75.4	-89.6140
Al 308.215	357.372	ppb	2.0436	0.6	2289.66
As 188.980	-3.1447	ppb	2.1412	68.1	0.6667
B 249.678	204.792	ppb	0.7333	0.4	2233.72
Ba 389.178	58.7882	ppb	0.3849	0.7	1410.85
Be 313.042	-0.0247	ppb	0.0014	5.5	-208.031
Ca 370.602	41563	ppb	61.77	0.1	134133
Cd 226.502	0.0404	ppb	0.1517	375.4	15.4917
Co 228.615	1.4233	ppb	0.2931	20.6	30.1592
Cr 267.716	2.7713	ppb	0.1592	5.7	126.975
Cu 324.754	1.4759	ppb	0.7933	53.7	179.099
Fe 271.441	437.388	ppb	3.7443	0.9	735.760
K 766.491	10344.8	ppb	137.683	1.3	507937
Mg 279.078	8126.56	ppb	4.9838	0.1	16567.7
Mn 257.610	387.980	ppb	0.3429	0.1	88094.8
Mo 202.032	-1.0909	ppb	0.1784	16.4	8.2124
Na 330.237	11144.7	ppb	131.181	1.2	561.893
Ni 231.604	7.7313	ppb	1.2632	16.3	19.2331
Pb 220.353	0.8092	ppb	2.1939	271.1	3.8502
Sb 206.834	-2.7541	ppb	2.4659	89.5	-1.2922
Se 196.026	-6.7763	ppb	8.5087	125.6	-2.8483
Sn 189.925	-2.6979	ppb	0.6610	24.5	-1.2068
Sr 216.596	249.255	ppb	0.2859	0.1	2361.94
Ti 334.941	6.1441	ppb	1.2684	20.6	1569.49
Tl 190.794	2.2829	ppb	4.2392	185.7	0.8594
V 292.401	2.1732	ppb	0.1880	8.7	54.2512
Zn 206.200	8.5156	ppb	0.5561	6.5	16.0031

E03272013.vvq. All Data Report 3/28/2013, 2:04:12 PM

680-88547-b-1-a (Samp) 3/27/2013, 11:11:19 PM Rack 2, Tube 18

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-1.5637u	-0.8494u	-0.1386u
Al 308.215	104.276	104.939	104.017
As 188.980	-5.0132u	-9.3354u	-5.4651u
B 249.678	-16.0519u	-16.8061u	-16.9407u
Ba 389.178	37.8320	35.7016	37.4206
Be 313.042	0.0366	0.0288	0.0394
Ca 370.602	16938	16863	16890
Cd 226.502	0.2296	-0.1373u	0.0594
Co 228.615	-0.2625u	-0.0734u	0.1744
Cr 267.716	1.9276	1.5811	1.5957
Cu 324.754	-0.0900u	-0.1082u	0.3072
Fe 271.441	133.291	131.016	126.731
K 766.491	2152.88	2144.54	2153.81
Mg 279.078	11451.6	11401.0	11439.0
Mn 257.610	57.9850	57.8027	57.8366
Mo 202.032	-1.4762u	-0.9713u	-1.1873u
Na 330.237	10772.9	11070.6	11033.5
Ni 231.604	19.8112	18.4710	21.5675
Pb 220.353	-1.3742u	0.9640	-2.7257u
Sb 206.834	1.9204	-4.0441u	-9.4827u
Se 196.026	10.9312	-6.6987u	-0.4235u
Sn 189.925	-5.6501u	-3.4450u	-1.6569u
Sr 216.596	128.984	129.303	129.065
Ti 334.941	1.0260	0.8312	0.8565
Tl 190.794	0.2472	-0.1247u	-0.2133u
V 292.401	0.2439	0.0286	0.4570
Zn 206.200	14.3969	13.3826	15.2363

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.8506	ppb	0.7126	83.8	-96.8049
Al 308.215	104.411	ppb	0.4753	0.5	841.400
As 188.980	-6.6046	ppb	2.3758	36.0	-1.3913
B 249.678	-16.5995	ppb	0.4790	2.9	206.240
Ba 389.178	36.9847	ppb	1.1301	3.1	897.589
Be 313.042	0.0349	ppb	0.0054	15.6	-100.835
Ca 370.602	16897	ppb	37.70	0.2	54530
Cd 226.502	0.0506	ppb	0.1836	362.9	15.1706
Co 228.615	-0.0538	ppb	0.2191	407.0	13.1267
Cr 267.716	1.7015	ppb	0.1960	11.5	80.9464
Cu 324.754	0.0363	ppb	0.2347	646.0	109.528
Fe 271.441	130.346	ppb	3.3305	2.6	220.923
K 766.491	2150.41	ppb	5.1077	0.2	105765
Mg 279.078	11430.5	ppb	26.3146	0.2	23302.2
Mn 257.610	57.8748	ppb	0.0969	0.2	13258.3
Mo 202.032	-1.2116	ppb	0.2533	20.9	7.4506
Na 330.237	10959.0	ppb	162.224	1.5	552.552
Ni 231.604	19.9499	ppb	1.5529	7.8	48.1089
Pb 220.353	-1.0453	ppb	1.8667	178.6	0.8049
Sb 206.834	-3.8688	ppb	5.7036	147.4	-2.3762
Se 196.026	1.2697	ppb	8.9361	703.8	0.7630
Sn 189.925	-3.5840	ppb	2.0002	55.8	-1.8863
Sr 216.596	129.117	ppb	0.1654	0.1	1227.89
Ti 334.941	0.9046	ppb	0.1059	11.7	246.790
Tl 190.794	-0.0303	ppb	0.2443	806.7	-0.3389
V 292.401	0.2432	ppb	0.2142	88.1	1.1415
Zn 206.200	14.3386	ppb	0.9282	6.5	24.6457

E03272013.vvq. All Data Report 3/28/2013, 2:04:12 PM

680-88547-b-2-a (Samp) 3/27/2013, 11:16:44 PM Rack 2, Tube 19

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.1182u	-1.2160u	-0.8736u
Al 308.215	209.302	212.108	207.068
As 188.980	-9.9271u	-0.4661u	-1.6362u
B 249.678	-22.5821u	-22.2485u	-22.3535u
Ba 389.178	23.6928	24.3099	23.6623
Be 313.042	0.6498	0.6681	0.6516
Ca 370.602	14512	14482	14431
Cd 226.502	0.4378	0.3571	0.2883
Co 228.615	0.7628	0.1190	0.9488
Cr 267.716	0.4930	0.7593	0.7864
Cu 324.754	0.2091	0.0208	0.0441
Fe 271.441	45.2642	47.6074	50.8032
K 766.491	2478.94	2482.63	2476.58
Mg 279.078	10299.3	10286.8	10244.4
Mn 257.610	327.078	326.744	325.469
Mo 202.032	-0.9954u	-1.0711u	-0.5950u
Na 330.237	7865.29	7587.29	7693.13
Ni 231.604	18.2484	21.8095	22.4903
Pb 220.353	-0.9057u	-0.7788u	-2.0471u
Sb 206.834	0.8154	0.8540	2.4452
Se 196.026	-0.1322	12.1549	7.2466
Sn 189.925	-0.0816u	-2.4486u	-1.7777u
Sr 216.596	115.263	116.309	114.938
Ti 334.941	-0.0253	-0.0173	-0.1094
Tl 190.794	-2.1053u	1.7420	0.6405
V 292.401	-0.5500u	0.0027	-0.1361u
Zn 206.200	25.3275	24.5787	23.9028

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.7360	ppb	0.5617	76.3	-87.0557
Al 308.215	209.492	ppb	2.5254	1.2	1443.06
As 188.980	-4.0098	ppb	5.1578	128.6	0.0003
B 249.678	-22.3947	ppb	0.1706	0.8	153.235
Ba 389.178	23.8884	ppb	0.3654	1.5	580.986
Be 313.042	0.6565	ppb	0.0101	1.5	1101.99
Ca 370.602	14475	ppb	40.90	0.3	46725
Cd 226.502	0.3610	ppb	0.0748	20.7	26.0387
Co 228.615	0.6102	ppb	0.4354	71.4	20.6937
Cr 267.716	0.6795	ppb	0.1621	23.9	39.1678
Cu 324.754	0.0913	ppb	0.1027	112.4	112.166
Fe 271.441	47.8916	ppb	2.7804	5.8	82.8112
K 766.491	2479.38	ppb	3.0516	0.1	121911
Mg 279.078	10276.8	ppb	28.7733	0.3	20948.2
Mn 257.610	326.430	ppb	0.8488	0.3	74148.4
Mo 202.032	-0.8872	ppb	0.2558	28.8	9.5493
Na 330.237	7715.24	ppb	140.311	1.8	387.786
Ni 231.604	20.8494	ppb	2.2781	10.9	50.2337
Pb 220.353	-1.2438	ppb	0.6985	56.2	0.5400
Sb 206.834	1.3716	ppb	0.9300	67.8	2.6229
Se 196.026	6.4231	ppb	6.1848	96.3	3.1862
Sn 189.925	-1.4360	ppb	1.2199	85.0	-0.2639
Sr 216.596	115.503	ppb	0.7167	0.6	1099.40
Ti 334.941	-0.0507	ppb	0.0510	100.6	-1.3538
Tl 190.794	0.0924	ppb	1.9814	2144.4	-0.5149
V 292.401	-0.2278	ppb	0.2875	126.2	-11.7779
Zn 206.200	24.6030	ppb	0.7127	2.9	40.2037

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680-88547-b-2-aSD^5 (Samp) 3/27/2013, 11:22:09 PM Rack 2, Tube 20

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.4701	-0.2777u	-0.3014u
Al 308.215	46.3770	43.2067	45.0325
As 188.980	-6.8758u	-0.8389u	-4.2989u
B 249.678	-29.0688u	-30.5038u	-30.3651u
Ba 389.178	5.5230	4.8309	5.4008
Be 313.042	0.1110	0.1084	0.1038
Ca 370.602	3124	3090	3045
Cd 226.502	0.1578	-0.1747u	0.0389
Co 228.615	0.0533	-0.3201u	0.3675
Cr 267.716	-0.0002	-0.2442u	0.0009
Cu 324.754	-0.1996u	0.1279	-0.3514u
Fe 271.441	5.4867	4.1498	3.7709
K 766.491	539.974	536.932	531.303
Mg 279.078	2239.58	2219.93	2187.27
Mn 257.610	70.2458	69.5490	68.4363
Mo 202.032	-1.9487u	-1.2260u	-0.6012u
Na 330.237	1757.39	1677.45	1637.49
Ni 231.604	4.0551	4.7695	4.5367
Pb 220.353	1.0234	-1.4316u	0.3427
Sb 206.834	-1.9076u	-2.9054u	-4.2242u
Se 196.026	-8.1980u	-7.4092u	-4.5230u
Sn 189.925	-0.7888u	-3.5446u	-2.3043u
Sr 216.596	24.3694	24.5072	24.2905
Ti 334.941	-0.2811u	-0.2629u	-0.2925u
Tl 190.794	-5.9263u	3.9743	2.1311
V 292.401	-0.3383u	-0.1714u	0.2176
Zn 206.200	4.4101	6.2074	4.2762

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0363	ppb	0.4387	1208.2	-35.3248
Al 308.215	44.8721	ppb	1.5912	3.5	500.485
As 188.980	-4.0045	ppb	3.0292	75.6	-0.0803
B 249.678	-29.9792	ppb	0.7915	2.6	83.8010
Ba 389.178	5.2515	ppb	0.3694	7.0	113.263
Be 313.042	0.1077	ppb	0.0036	3.3	36.8954
Ca 370.602	3087	ppb	39.30	1.3	9961
Cd 226.502	0.0074	ppb	0.1685	2289.9	13.2920
Co 228.615	0.0336	ppb	0.3443	1025.2	14.1007
Cr 267.716	-0.0812	ppb	0.1412	173.9	6.2967
Cu 324.754	-0.1410	ppb	0.2450	173.7	100.927
Fe 271.441	4.4692	ppb	0.9014	20.2	9.9824
K 766.491	536.070	ppb	4.3997	0.8	26535.0
Mg 279.078	2215.59	ppb	26.4250	1.2	4533.37
Mn 257.610	69.4104	ppb	0.9127	1.3	15823.1
Mo 202.032	-1.2586	ppb	0.6744	53.6	7.1528
Na 330.237	1690.78	ppb	61.0495	3.6	82.0213
Ni 231.604	4.4538	ppb	0.3643	8.2	11.4777
Pb 220.353	-0.0218	ppb	1.2675	5813.1	2.4558
Sb 206.834	-3.0124	ppb	1.1620	38.6	-1.5734
Se 196.026	-6.7101	ppb	1.9347	28.8	-2.8921
Sn 189.925	-2.2126	ppb	1.3802	62.4	-0.8575
Sr 216.596	24.3890	ppb	0.1097	0.4	240.457
Ti 334.941	-0.2789	ppb	0.0149	5.4	-92.2038
Tl 190.794	0.0597	ppb	5.2653	8823.1	-0.2863
V 292.401	-0.0973	ppb	0.2852	293.1	-8.1233
Zn 206.200	4.9646	ppb	1.0784	21.7	10.3181



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Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	49.3649	49.0608	49.1547
Al 308.215	2152.80	2150.05	2156.09
As 188.980	2124.40	2133.15	2136.58
B 249.678	1013.28	1018.33	1029.84
Ba 389.178	2068.26	2069.30	2076.38
Be 313.042	51.2744	51.2912	51.4308
Ca 370.602	19210	19217	19288
Cd 226.502	50.6684	50.5387	50.8746
Co 228.615	512.408	508.639	512.965
Cr 267.716	202.608	201.782	202.247
Cu 324.754	252.674	249.272	252.569
Fe 271.441	1051.43	1060.28	1054.78
K 766.491	7685.67	7696.12	7745.58
Mg 279.078	15150.0	15150.2	15187.6
Mn 257.610	846.554	846.760	849.925
Mo 202.032	511.590	509.263	511.977
Na 330.237	12597.2	12651.0	12640.0
Ni 231.604	520.074	515.248	525.042
Pb 220.353	496.750	497.801	496.724
Sb 206.834	495.563	498.457	501.525
Se 196.026	2009.06	1976.13	1995.48
Sn 189.925	1031.43	1034.34	1031.98
Sr 216.596	629.686	630.986	631.001
Ti 334.941	1011.85	1012.39	1016.74
Tl 190.794	2068.19	2088.76	2102.13
V 292.401	507.120	507.175	509.372
Zn 206.200	512.858	515.722	515.254

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	49.1935	ppb	0.1557	0.3	3386.15
Al 308.215	2152.98	ppb	3.0278	0.1	12628.8
As 188.980	2131.38	ppb	6.2781	0.3	1159.24
B 249.678	1020.49	ppb	8.4873	0.8	9704.14
Ba 389.178	2071.31	ppb	4.4181	0.2	49589.5
Be 313.042	51.3321	ppb	0.0859	0.2	99104.7
Ca 370.602	19238	ppb	43.23	0.2	62224
Cd 226.502	50.6939	ppb	0.1694	0.3	1820.29
Co 228.615	511.337	ppb	2.3536	0.5	5870.89
Cr 267.716	202.212	ppb	0.4141	0.2	8463.45
Cu 324.754	251.505	ppb	1.9345	0.8	12259.8
Fe 271.441	1055.50	ppb	4.4647	0.4	1853.64
K 766.491	7709.12	ppb	32.0000	0.4	378581
Mg 279.078	15162.6	ppb	21.6310	0.1	30891.0
Mn 257.610	847.746	ppb	1.8896	0.2	192390
Mo 202.032	510.943	ppb	1.4679	0.3	3313.09
Na 330.237	12629.4	ppb	28.4591	0.2	625.655
Ni 231.604	520.121	ppb	4.8971	0.9	1230.41
Pb 220.353	497.092	ppb	0.6143	0.1	800.994
Sb 206.834	498.515	ppb	2.9812	0.6	473.313
Se 196.026	1993.56	ppb	16.5499	0.8	914.076
Sn 189.925	1032.58	ppb	1.5431	0.1	781.665
Sr 216.596	630.558	ppb	0.7548	0.1	5927.87
Ti 334.941	1013.66	ppb	2.6852	0.3	258547
Tl 190.794	2086.36	ppb	17.0996	0.8	1376.24
V 292.401	507.889	ppb	1.2848	0.3	13867.9
Zn 206.200	514.611	ppb	1.5367	0.3	783.147

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680-88547-b-2-b ms (Samp) 3/27/2013, 11:33:01 PM Rack 2, Tube 22

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	18.3971	16.6182	17.2018
Al 308.215	5166.25	5172.11	5182.43
As 188.980	99.3093	95.7819	104.770
B 249.678	203.850	201.849	203.079
Ba 389.178	128.398	128.652	128.675
Be 313.042	51.9378	52.0368	52.0638
Ca 370.602	20450	20664	20650
Cd 226.502	51.3377	50.8755	51.1068
Co 228.615	50.6556	51.6389	51.2290
Cr 267.716	101.569	101.743	102.015
Cu 324.754	99.6378	99.9096	100.396
Fe 271.441	5054.43	5048.56	5070.91
K 766.491	7897.90	7922.00	7939.27
Mg 279.078	16148.9	16175.9	16189.0
Mn 257.610	866.060	867.114	867.557
Mo 202.032	99.5097	99.1185	98.9356
Na 330.237	13335.1	13238.0	13498.9
Ni 231.604	118.307	121.080	120.475
Pb 220.353	54.4096	46.9551	48.1156
Sb 206.834	46.9500	50.4378	43.8747
Se 196.026	109.882	95.0412	99.3686
Sn 189.925	198.178	203.273	202.554
Sr 216.596	223.625	227.690	225.409
Ti 334.941	100.399	100.681	100.766
Tl 190.794	38.1299	39.7995	47.3266
V 292.401	101.655	101.977	102.512
Zn 206.200	124.315	121.647	125.390

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	17.4057	ppb	0.9068	5.2	1179.11
Al 308.215	5173.60	ppb	8.1914	0.2	29876.3
As 188.980	99.9538	ppb	4.5287	4.5	56.4206
B 249.678	202.926	ppb	1.0095	0.5	2212.40
Ba 389.178	128.575	ppb	0.1538	0.1	3109.96
Be 313.042	52.0128	ppb	0.0663	0.1	100505
Ca 370.602	20588	ppb	119.4	0.6	66079
Cd 226.502	51.1067	ppb	0.2311	0.5	1844.17
Co 228.615	51.1745	ppb	0.4939	1.0	598.287
Cr 267.716	101.776	ppb	0.2250	0.2	4267.53
Cu 324.754	99.9812	ppb	0.3842	0.4	4938.12
Fe 271.441	5057.97	ppb	11.5896	0.2	8488.42
K 766.491	7919.72	ppb	20.7796	0.3	388917
Mg 279.078	16171.3	ppb	20.4749	0.1	32944.9
Mn 257.610	866.910	ppb	0.7691	0.1	196752
Mo 202.032	99.1879	ppb	0.2933	0.3	655.251
Na 330.237	13357.3	ppb	131.859	1.0	671.314
Ni 231.604	119.954	ppb	1.4578	1.2	284.588
Pb 220.353	49.8268	ppb	4.0110	8.0	82.5311
Sb 206.834	47.0875	ppb	3.2837	7.0	46.4702
Se 196.026	101.431	ppb	7.6324	7.5	46.8687
Sn 189.925	201.335	ppb	2.7579	1.4	153.076
Sr 216.596	225.575	ppb	2.0377	0.9	2133.84
Ti 334.941	100.615	ppb	0.1924	0.2	25696.3
Tl 190.794	41.7520	ppb	4.8994	11.7	26.3131
V 292.401	102.048	ppb	0.4333	0.4	2777.15
Zn 206.200	123.784	ppb	1.9270	1.6	190.440

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680-88547-b-2-c msd (Samp) 3/27/2013, 11:38:27 PM Rack 2, Tube 23

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	17.1775	15.9691	16.7343
Al 308.215	5098.39	5065.63	5057.02
As 188.980	90.2933	99.1822	100.884
B 249.678	187.719	186.970	186.136
Ba 389.178	126.481	125.191	124.542
Be 313.042	51.2412	50.9228	50.8898
Ca 370.602	20032	19873	19813
Cd 226.502	50.6842	50.4012	49.9419
Co 228.615	49.6877	49.1746	49.4756
Cr 267.716	100.533	100.079	99.7973
Cu 324.754	98.9225	100.521	99.1089
Fe 271.441	5016.56	4973.00	4967.59
K 766.491	7675.57	7635.45	7636.97
Mg 279.078	15672.0	15516.4	15512.7
Mn 257.610	847.702	840.935	840.163
Mo 202.032	98.1198	98.2305	97.8287
Na 330.237	13082.8	12808.1	13018.4
Ni 231.604	118.751	116.097	118.562
Pb 220.353	47.5575	49.8360	46.7934
Sb 206.834	42.9413	47.8038	46.8543
Se 196.026	91.9893	106.569	103.266
Sn 189.925	200.274	199.998	193.410
Sr 216.596	219.615	221.534	218.801
Ti 334.941	99.5846	98.9012	98.7332
Tl 190.794	36.4738	41.5998	36.2839
V 292.401	101.147	100.464	100.205
Zn 206.200	122.564	119.865	120.827

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	16.6270	ppb	0.6113	3.7	1124.81
Al 308.215	5073.68	ppb	21.8318	0.4	29304.0
As 188.980	96.7865	ppb	5.6873	5.9	54.6972
B 249.678	186.942	ppb	0.7915	0.4	2066.06
Ba 389.178	125.405	ppb	0.9868	0.8	3032.35
Be 313.042	51.0179	ppb	0.1940	0.4	98579.1
Ca 370.602	19906	ppb	113.1	0.6	63882
Cd 226.502	50.3425	ppb	0.3747	0.7	1816.80
Co 228.615	49.4460	ppb	0.2578	0.5	578.526
Cr 267.716	100.137	ppb	0.3714	0.4	4198.91
Cu 324.754	99.5176	ppb	0.8742	0.9	4915.69
Fe 271.441	4985.72	ppb	26.8497	0.5	8367.17
K 766.491	7649.33	ppb	22.7388	0.3	375646
Mg 279.078	15567.0	ppb	90.9145	0.6	31714.6
Mn 257.610	842.933	ppb	4.1480	0.5	191311
Mo 202.032	98.0597	ppb	0.2075	0.2	647.973
Na 330.237	12969.8	ppb	143.660	1.1	651.685
Ni 231.604	117.803	ppb	1.4807	1.3	279.503
Pb 220.353	48.0623	ppb	1.5828	3.3	79.6921
Sb 206.834	45.8665	ppb	2.5774	5.6	45.2972
Se 196.026	100.608	ppb	7.6446	7.6	46.4860
Sn 189.925	197.894	ppb	3.8854	2.0	150.473
Sr 216.596	219.983	ppb	1.4032	0.6	2081.21
Ti 334.941	99.0730	ppb	0.4510	0.5	25300.5
Tl 190.794	38.1192	ppb	3.0158	7.9	23.9403
V 292.401	100.605	ppb	0.4866	0.5	2737.81
Zn 206.200	121.085	ppb	1.3679	1.1	186.345

E03272013.vvq. All Data Report 3/28/2013, 2:04:12 PM

680-88220-a-1-d^20 (Samp) 3/27/2013, 11:43:53 PM Rack 2, Tube 24

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.5274u	-0.6291u	-0.3301u
Al 308.215	-0.7948u	-0.3203u	-1.6580u
As 188.980	-12.1400u	2.2481	-0.8161u
B 249.678	-18.5189u	-18.3827u	-20.0336u
Ba 389.178	13.2215	13.8509	14.1806
Be 313.042	-0.0365u	-0.0307u	-0.0390u
Ca 370.602	4027	4044	4006
Cd 226.502	-0.1467u	0.0348	0.1178
Co 228.615	-0.3268u	0.9116	0.0191
Cr 267.716	-0.0284u	-0.2570u	0.0079
Cu 324.754	-0.7466u	-0.5011u	0.1289
Fe 271.441	4.3613	-2.6505u	1.7239
K 766.491	1151.11	1153.90	1152.53
Mg 279.078	1721.45	1735.14	1716.94
Mn 257.610	18.9355	19.0168	18.8108
Mo 202.032	-0.6185u	-1.1915u	-0.4344u
Na 330.237	11093.8	11024.0	10832.3
Ni 231.604	0.9046	0.3264	0.5513
Pb 220.353	1.1822	0.0011	3.0180
Sb 206.834	-1.5177u	-3.3039u	3.7020
Se 196.026	-2.9628u	2.7822	-9.2693u
Sn 189.925	-2.6981u	-1.0813u	-0.5900u
Sr 216.596	23.5801	23.8359	23.4791
Ti 334.941	-0.2461u	-0.2307u	-0.1983u
Tl 190.794	1.0155	-1.3745u	-0.8905u
V 292.401	0.3180	-0.0481u	0.3936
Zn 206.200	-0.0571u	-0.6596u	-0.6064u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.4955	ppb	0.1520	30.7	-67.5938
Al 308.215	-0.9244	ppb	0.6782	73.4	238.345
As 188.980	-3.5694	ppb	7.5789	212.3	0.1629
B 249.678	-18.9784	ppb	0.9163	4.8	184.566
Ba 389.178	13.7510	ppb	0.4873	3.5	315.306
Be 313.042	-0.0354	ppb	0.0042	12.0	-241.097
Ca 370.602	4026	ppb	18.87	0.5	12992
Cd 226.502	0.0020	ppb	0.1353	6880.6	13.0291
Co 228.615	0.2013	ppb	0.6390	317.4	16.0001
Cr 267.716	-0.0925	ppb	0.1436	155.2	5.7755
Cu 324.754	-0.3729	ppb	0.4516	121.1	89.7393
Fe 271.441	1.1449	ppb	3.5416	309.3	4.4040
K 766.491	1152.51	ppb	1.3981	0.1	56789.4
Mg 279.078	1724.51	ppb	9.4804	0.5	3533.94
Mn 257.610	18.9211	ppb	0.1038	0.5	4371.59
Mo 202.032	-0.7481	ppb	0.3949	52.8	10.4484
Na 330.237	10983.4	ppb	135.381	1.2	553.945
Ni 231.604	0.5941	ppb	0.2915	49.1	2.3542
Pb 220.353	1.4005	ppb	1.5202	108.6	4.7336
Sb 206.834	-0.3732	ppb	3.6405	975.4	0.9385
Se 196.026	-3.1500	ppb	6.0280	191.4	-1.2720
Sn 189.925	-1.4565	ppb	1.1030	75.7	-0.2823
Sr 216.596	23.6317	ppb	0.1839	0.8	233.439
Ti 334.941	-0.2250	ppb	0.0244	10.9	-81.1631
Tl 190.794	-0.4165	ppb	1.2635	303.4	-0.5516
V 292.401	0.2212	ppb	0.2362	106.8	0.4566
Zn 206.200	-0.4410	ppb	0.3335	166.8	-2.1238

E03272013.wvq. All Data Report 3/28/2013, 2:04:12 PM

Cont Calib Verif (CCV) 3/27/2013, 11:49:19 PM Rack 2, Tube 25  
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	500.747	496.842	494.929
Al 308.215	4993.38	4975.46	4982.20
As 188.980	460.309	469.995	474.791
B 249.678	2497.23	2514.75	2539.03
Ba 389.178	4929.48	4924.57	4919.77
Be 313.042	490.017	489.653	490.201
Ca 370.602	4933	4915	4919
Cd 226.502	490.109	491.329	491.231
Co 228.615	495.718	496.788	497.263
Cr 267.716	4912.30	4888.81	4882.66
Cu 324.754	4892.83	4924.09	4799.79
Fe 271.441	4929.68	4952.90	4951.50
K 766.491	10048.9	10043.4	10094.5
Mg 279.078	4912.82	4909.18	4895.12
Mn 257.610	4959.81	4956.13	4959.17
Mo 202.032	487.171	485.908	487.644
Na 330.237	7420.17	7379.81	7362.33
Ni 231.604	2474.56	2470.74	2464.76
Pb 220.353	483.352	484.714	492.245
Sb 206.834	913.128	915.326	914.503
Se 196.026	4849.07	4831.66	4848.88
Sn 189.925	5061.68	5004.91	5025.46
Sr 216.596	2454.77	2440.65	2436.10
Ti 334.941	495.109	492.890	493.319
Tl 190.794	4935.52	4931.97	4949.51
V 292.401	4921.25	4914.28	4935.08
Zn 206.200	2460.02	2450.18	2455.46

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	497.506	ppb	2.9653	0.6	34687.2	99.50114
Al 308.215	4983.68	ppb	9.0523	0.2	28754.3	99.67358
As 188.980	468.365	ppb	7.3774	1.6	256.231	93.67293
B 249.678	2517.00	ppb	20.9935	0.8	23407.4	100.68011
Ba 389.178	4924.61	ppb	4.8575	0.1	117850	98.49212
Be 313.042	489.957	ppb	0.2787	0.1	948080	97.99136
Ca 370.602	4922	ppb	9.197	0.2	15752	98.44321
Cd 226.502	490.889	ppb	0.6775	0.1	17499.3	98.17790
Co 228.615	496.590	ppb	0.7913	0.2	5701.83	99.31799
Cr 267.716	4894.59	ppb	15.6401	0.3	204600	97.89177
Cu 324.754	4872.24	ppb	64.6608	1.3	235314	97.44478
Fe 271.441	4944.69	ppb	13.0200	0.3	8409.93	98.89390
K 766.491	10062.3	ppb	28.0576	0.3	494071	100.62281
Mg 279.078	4905.71	ppb	9.3438	0.2	9936.32	98.11414
Mn 257.610	4958.37	ppb	1.9667	0.0	1124455	99.16746
Mo 202.032	486.908	ppb	0.8976	0.2	3150.32	97.38152
Na 330.237	7387.44	ppb	29.6651	0.4	348.095	98.49918
Ni 231.604	2470.02	ppb	4.9379	0.2	5839.57	98.80070
Pb 220.353	486.770	ppb	4.7900	1.0	785.505	97.35407
Sb 206.834	914.319	ppb	1.1106	0.1	918.917	91.43190
Se 196.026	4843.20	ppb	9.9966	0.2	2221.11	96.86408
Sn 189.925	5030.68	ppb	28.7458	0.6	3805.02	100.61363
Sr 216.596	2443.84	ppb	9.7370	0.4	22979.0	97.75365
Ti 334.941	493.773	ppb	1.1768	0.2	125918	98.75450
Tl 190.794	4939.00	ppb	9.2731	0.2	3256.55	98.77992
V 292.401	4923.54	ppb	10.5874	0.2	135031	98.47075
Zn 206.200	2455.22	ppb	4.9233	0.2	3713.60	98.20885

E03272013.vvq. All Data Report 3/28/2013, 2:04:12 PM

Cont Calib Blank (CCB)                      3/27/2013, 11:54:44 PM                      Rack 2, Tube 26  
 Weight: 1    Volume: 1    Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.8116u	-0.5798u	-0.2780u
Al 308.215	3.3127	1.1490	1.2779
As 188.980	-6.8778u	-5.3766u	0.8215
B 249.678	31.2490	26.0133	22.0771
Ba 389.178	0.3959	0.2391	-1.1878u
Be 313.042	-0.0342u	-0.0310u	-0.0249u
Ca 370.602	-4.881u	1.455	-0.4929u
Cd 226.502	-0.1832u	-0.2459u	-0.1138u
Co 228.615	0.4026	-0.3506u	0.9383
Cr 267.716	-0.2622u	-0.3460u	-0.2469u
Cu 324.754	-0.6554u	-0.7910u	-0.4478u
Fe 271.441	6.1651	1.0005	6.9884
K 766.491	0.0089	0.1510	-0.0436u
Mg 279.078	-0.6258u	-4.5391u	-2.6501u
Mn 257.610	-0.0928u	-0.1091u	-0.0572u
Mo 202.032	-0.3489u	-0.2053u	-1.2125u
Na 330.237	-62.3807u	350.907	62.9701
Ni 231.604	-0.5216u	0.8089	0.3201
Pb 220.353	-2.1118u	2.7806	-1.9736u
Sb 206.834	3.7194	7.1147	1.4442
Se 196.026	-10.3358u	-5.5830u	-10.3164u
Sn 189.925	0.3069	-3.7738u	-0.1094u
Sr 216.596	-0.3837u	-0.8051u	-1.4361u
Ti 334.941	-0.1194u	-0.0576u	-0.1780u
Tl 190.794	1.5919	-4.0888u	0.5833
V 292.401	0.3735	-0.5279u	0.3204
Zn 206.200	0.2239	1.0095	-0.0081u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	-0.5564	ppb	0.2676	48.1	-70.8934	-0.55644
Al 308.215	1.9132	ppb	1.2137	63.4	254.606	1.91324
As 188.980	-3.8110	ppb	4.0815	107.1	0.0021	-3.81097
B 249.678	26.4465	ppb	4.6013	17.4	600.614	26.44650
Ba 389.178	-0.1843	ppb	0.8726	473.6	-22.7954	-0.18425
Be 313.042	-0.0300	ppb	0.0047	15.7	-230.742	-0.03005
Ca 370.602	-1.306	ppb	3.245	248.4	-8.102	-1.30620
Cd 226.502	-0.1810	ppb	0.0661	36.5	6.5610	-0.18096
Co 228.615	0.3301	ppb	0.6475	196.1	17.4681	0.33010
Cr 267.716	-0.2850	ppb	0.0533	18.7	-2.5138	-0.28504
Cu 324.754	-0.6314	ppb	0.1729	27.4	77.2652	-0.63139
Fe 271.441	4.7180	ppb	3.2457	68.8	10.4302	4.71800
K 766.491	0.0388	ppb	0.1007	259.9	227.176	0.03875
Mg 279.078	-2.6050	ppb	1.9570	75.1	16.4992	-2.60499
Mn 257.610	-0.0864	ppb	0.0265	30.7	52.0623	-0.08640
Mo 202.032	-0.5889	ppb	0.5448	92.5	11.4765	-0.58890
Na 330.237	117.166	ppb	211.907	180.9	2.1427	117.16555
Ni 231.604	0.2025	ppb	0.6730	332.4	1.4285	0.20248
Pb 220.353	-0.4349	ppb	2.7856	640.5	1.7765	-0.43491
Sb 206.834	4.0927	ppb	2.8536	69.7	5.2024	4.09275
Se 196.026	-8.7451	ppb	2.7384	31.3	-3.8408	-8.74507
Sn 189.925	-1.1921	ppb	2.2455	188.4	-0.0875	-1.19210
Sr 216.596	-0.8750	ppb	0.5296	60.5	2.2627	-0.87496
Ti 334.941	-0.1183	ppb	0.0602	50.9	-60.2748	-0.11833
Tl 190.794	-0.6378	ppb	3.0309	475.2	-0.6794	-0.63784
V 292.401	0.0553	ppb	0.5058	913.9	-4.0467	0.05535
Zn 206.200	0.4084	ppb	0.5333	130.6	2.3812	0.40842

E03272013.wvq. All Data Report 3/28/2013, 2:04:12 PM

**680-88220-a-2-b^20 (Samp)**      **3/28/2013, 12:00:20 AM**      **Rack 2, Tube 27****Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-1.1290u	-0.8451u	-0.5643u
Al 308.215	92.0727	94.7471	90.7364
As 188.980	17.9165	8.5275	11.7014
B 249.678	22.2291	20.8462	19.8412
Ba 389.178	1.6684	2.1888	1.1780
Be 313.042	-0.0333u	-0.0287u	-0.0419u
Ca 370.602	1856	1853	1845
Cd 226.502	-0.0045u	-0.1548u	-0.0500u
Co 228.615	-0.2787u	0.1712	-0.6553u
Cr 267.716	0.7962	0.8502	0.6933
Cu 324.754	-0.3385u	-0.3429u	-0.0545u
Fe 271.441	77.0673	77.9293	77.9691
K 766.491	3545.72	3535.80	3532.62
Mg 279.078	1200.05	1194.11	1193.09
Mn 257.610	0.8786	0.8669	0.8524
Mo 202.032	0.0245	-0.9405u	-1.1690u
Na 330.237	38599.1	38749.8	38461.9
Ni 231.604	0.1899	-0.1634u	0.2005
Pb 220.353	-0.9477u	-3.3622u	-2.9013u
Sb 206.834	1.8711	3.2027	4.7390
Se 196.026	3.3037	1.2279	3.2826
Sn 189.925	3.0358	5.1025	8.6338
Sr 216.596	33.9392	33.5974	32.8155
Ti 334.941	5.8329	5.8270	5.7781
Tl 190.794	-0.3419u	-2.8449u	0.2891
V 292.401	1.7524	1.2309	2.0343
Zn 206.200	2.7639	2.1979	1.8802

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.8461	ppb	0.2824	33.4	-92.5602
Al 308.215	92.5187	ppb	2.0422	2.2	773.330
As 188.980	12.7152	ppb	4.7759	37.6	8.9873
B 249.678	20.9722	ppb	1.1989	5.7	550.412
Ba 389.178	1.6784	ppb	0.5055	30.1	25.1258
Be 313.042	-0.0346	ppb	0.0067	19.5	-243.896
Ca 370.602	1851	ppb	5.858	0.3	5967
Cd 226.502	-0.0698	ppb	0.0771	110.4	10.4938
Co 228.615	-0.2543	ppb	0.4138	162.7	10.9426
Cr 267.716	0.7799	ppb	0.0797	10.2	42.6286
Cu 324.754	-0.2453	ppb	0.1653	67.4	95.9093
Fe 271.441	77.6552	ppb	0.5096	0.7	132.615
K 766.491	3538.05	ppb	6.8295	0.2	173869
Mg 279.078	1195.75	ppb	3.7584	0.3	2457.25
Mn 257.610	0.8660	ppb	0.0131	1.5	274.613
Mo 202.032	-0.6950	ppb	0.6334	91.1	10.7856
Na 330.237	38603.6	ppb	144.023	0.4	1956.43
Ni 231.604	0.0756	ppb	0.2071	273.8	1.1301
Pb 220.353	-2.4038	ppb	1.2818	53.3	-1.3953
Sb 206.834	3.2710	ppb	1.4352	43.9	4.4301
Se 196.026	2.6047	ppb	1.1924	45.8	1.3616
Sn 189.925	5.5907	ppb	2.8308	50.6	5.0550
Sr 216.596	33.4507	ppb	0.5760	1.7	325.764
Ti 334.941	5.8127	ppb	0.0301	0.5	1454.48
Tl 190.794	-0.9659	ppb	1.6576	171.6	-0.8990
V 292.401	1.6725	ppb	0.4076	24.4	40.1781
Zn 206.200	2.2807	ppb	0.4476	19.6	6.2335

E03272013.vvq. All Data Report 3/28/2013, 2:04:12 PM

680-88220-a-3-b^20 (Samp) 3/28/2013, 12:05:46 AM Rack 2, Tube 28

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-1.2536u	-0.5284u	0.0824
Al 308.215	1.5956	2.4034	0.9930
As 188.980	-1.1386u	-3.6413u	-0.5342u
B 249.678	15.3035	15.1851	13.7793
Ba 389.178	23.1006	22.3978	22.4520
Be 313.042	-0.0213u	-0.0245u	-0.0163u
Ca 370.602	2707	2709	2699
Cd 226.502	-0.0750u	-0.1047u	-0.3801u
Co 228.615	0.5024	-0.2223u	-0.0458u
Cr 267.716	0.1307	-0.0716u	0.2096
Cu 324.754	0.0508	-0.2713u	-0.2265u
Fe 271.441	52.9513	45.2174	61.7479
K 766.491	1184.73	1188.92	1176.40
Mg 279.078	3567.23	3577.30	3565.97
Mn 257.610	5.1559	5.1811	5.1322
Mo 202.032	-1.1554u	0.1164	-1.2315u
Na 330.237	102909x	103071x	102266x
Ni 231.604	-0.5870u	-0.3159u	2.0312
Pb 220.353	-1.6477u	-1.1132u	0.2509
Sb 206.834	-0.6622u	0.1223	0.3891
Se 196.026	0.9622	-3.9376u	-1.2692u
Sn 189.925	-4.2580u	0.0891	-2.6732u
Sr 216.596	40.1905	41.4029	40.9358
Ti 334.941	0.1993	0.1283	0.2055
Tl 190.794	-0.4180u	5.6660	-0.0076u
V 292.401	1.8271	1.9425	1.5208
Zn 206.200	0.0592	0.1286	-0.5738u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.5665b	ppb	0.6688	118.0	-73.3704
Al 308.215	1.6640b	ppb	0.7077	42.5	253.146
As 188.980	-1.7714b	ppb	1.6474	93.0	1.1289
B 249.678	14.7560b	ppb	0.8479	5.7	493.498
Ba 389.178	22.6501b	ppb	0.3910	1.7	533.307
Be 313.042	-0.0207b	ppb	0.0041	20.0	-224.404
Ca 370.602	2705b	ppb	5.335	0.2	8723
Cd 226.502	-0.1866b	ppb	0.1683	90.2	5.9536
Co 228.615	0.0781b	ppb	0.3779	484.1	14.5980
Cr 267.716	0.0895b	ppb	0.1451	162.0	14.7841
Cu 324.754	-0.1490b	ppb	0.1745	117.1	100.552
Fe 271.441	53.3055b	ppb	8.2710	15.5	91.7827
K 766.491	1183.35b	ppb	6.3722	0.5	58302.9
Mg 279.078	3570.17b	ppb	6.2111	0.2	7293.33
Mn 257.610	5.1564b	ppb	0.0245	0.5	1260.11
Mo 202.032	-0.7569b	ppb	0.7572	100.0	10.3872
Na 330.237	102748xb	ppb	425.603	0.4	5213.82
Ni 231.604	0.3761b	ppb	1.4398	382.8	1.8398
Pb 220.353	-0.8367b	ppb	0.9791	117.0	1.1313
Sb 206.834	-0.0503b	ppb	0.5465	1087.4	1.2504
Se 196.026	-1.4149b	ppb	2.4532	173.4	-0.4798
Sn 189.925	-2.2807b	ppb	2.1999	96.5	-0.8759
Sr 216.596	40.8430b	ppb	0.6115	1.5	395.449
Ti 334.941	0.1777b	ppb	0.0429	24.1	22.5141
Tl 190.794	1.7468b	ppb	3.4004	194.7	0.8883
V 292.401	1.7635b	ppb	0.2179	12.4	42.1319
Zn 206.200	-0.1287b	ppb	0.3871	200.8	-2.5863



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680-88220-a-4-b^20 (Samp) 3/28/2013, 12:11:11 AM Rack 2, Tube 29

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.6320u	-0.3585u	-0.4267u
Al 308.215	100.048	105.516	103.491
As 188.980	10.6969	3.8848	1.4507
B 249.678	5.4313	7.0880	7.3070
Ba 389.178	1.3427	1.3828	1.0786
Be 313.042	-0.0250u	-0.0245u	-0.0308u
Ca 370.602	1870	1871	1873
Cd 226.502	0.1082	-0.1845u	0.0899
Co 228.615	0.1374	-0.1036u	-0.2497u
Cr 267.716	0.6331	0.9620	0.6808
Cu 324.754	-0.5878u	-0.2981u	0.1552
Fe 271.441	94.4412	85.2156	81.9709
K 766.491	3519.71	3515.00	3510.82
Mg 279.078	1221.11	1220.66	1227.67
Mn 257.610	0.9189	0.9800	0.9839
Mo 202.032	-1.2424u	-0.7588u	-0.8288u
Na 330.237	38042.5	38104.3	38059.3
Ni 231.604	-1.3248u	0.4577	1.9345
Pb 220.353	0.7261	1.2161	-1.0695u
Sb 206.834	3.1937	0.9172	-0.4451u
Se 196.026	0.1581	0.8419	5.0540
Sn 189.925	-0.5918u	0.6317	5.9987
Sr 216.596	32.8774	33.3059	34.0554
Ti 334.941	6.3092	6.2653	6.4046
Tl 190.794	1.0140	-0.0502u	5.6466
V 292.401	2.0254	1.8571	1.8587
Zn 206.200	2.5849	3.0617	3.5513

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.4724	ppb	0.1424	30.1	-66.4459
Al 308.215	103.018	ppb	2.7643	2.7	833.385
As 188.980	5.3441	ppb	4.7927	89.7	4.9857
B 249.678	6.6088	ppb	1.0256	15.5	418.849
Ba 389.178	1.2680	ppb	0.1653	13.0	15.3920
Be 313.042	-0.0268	ppb	0.0035	13.1	-228.543
Ca 370.602	1871	ppb	1.684	0.1	6031
Cd 226.502	0.0045	ppb	0.1640	3623.3	13.1611
Co 228.615	-0.0720	ppb	0.1954	271.5	13.0542
Cr 267.716	0.7586	ppb	0.1777	23.4	41.7322
Cu 324.754	-0.2436	ppb	0.3745	153.7	95.9830
Fe 271.441	87.2092	ppb	6.4698	7.4	148.668
K 766.491	3515.17	ppb	4.4464	0.1	172746
Mg 279.078	1223.15	ppb	3.9215	0.3	2513.05
Mn 257.610	0.9609	ppb	0.0364	3.8	296.323
Mo 202.032	-0.9433	ppb	0.2613	27.7	9.1816
Na 330.237	38068.7	ppb	31.9066	0.1	1929.26
Ni 231.604	0.3558	ppb	1.6321	458.7	1.7926
Pb 220.353	0.2909	ppb	1.2034	413.7	2.9399
Sb 206.834	1.2219	ppb	1.8385	150.5	2.4782
Se 196.026	2.0180	ppb	2.6514	131.4	1.0927
Sn 189.925	2.0129	ppb	3.5056	174.2	2.3493
Sr 216.596	33.4129	ppb	0.5962	1.8	325.427
Ti 334.941	6.3264	ppb	0.0712	1.1	1585.64
Tl 190.794	2.2035	ppb	3.0290	137.5	1.1930
V 292.401	1.9137	ppb	0.0967	5.1	46.9096
Zn 206.200	3.0660	ppb	0.4832	15.8	7.4254

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680-88220-a-5-b^20 (Samp) 3/28/2013, 12:16:36 AM Rack 2, Tube 30

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.9902u	-0.2166u	-0.2386u
Al 308.215	3.3852	5.0375	2.8155
As 188.980	-4.4905u	-6.2673u	-2.1043u
B 249.678	81.9563	85.3985	86.5743
Ba 389.178	-0.8167	-0.5583	-0.9899
Be 313.042	-0.0127u	-0.0295u	-0.0208u
Ca 370.602	15651	15702	15783
Cd 226.502	-0.2036u	0.0154u	-0.0695u
Co 228.615	0.5850	0.1830	-0.1450u
Cr 267.716	0.6982	0.7091	0.6820
Cu 324.754	-0.3499u	-0.4637u	0.2210
Fe 271.441	62.4808	58.9118	57.4707
K 766.491	4792.92	4803.93	4796.60
Mg 279.078	9909.94	9961.01	9986.36
Mn 257.610	26.8094	27.0500	27.0155
Mo 202.032	-1.0848u	-0.6433u	-0.6861u
Na 330.237	240041x	239259x	240957x
Ni 231.604	-1.6141u	-1.4239u	0.4926
Pb 220.353	-0.8029u	-2.6250u	-0.8701u
Sb 206.834	1.4317	2.8841	-2.3109u
Se 196.026	7.5034	-11.0247u	0.8622
Sn 189.925	1.8089	-3.0840u	-0.4875u
Sr 216.596	40.1087	38.9556	40.8959
Ti 334.941	0.4477	0.4817	0.5851
Tl 190.794	-6.8500u	-5.5111u	3.1567
V 292.401	3.3817	3.7082	4.0223
Zn 206.200	-0.6063u	1.4306	1.1319

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.4818b	ppb	0.4405	91.4	-67.3961
Al 308.215	3.7461b	ppb	1.1541	30.8	264.991
As 188.980	-4.2873b	ppb	2.0889	48.7	-0.1413
B 249.678	84.6431b	ppb	2.3999	2.8	1133.60
Ba 389.178	-0.7883b	ppb	0.2172	27.6	-10.3007
Be 313.042	-0.0210b	ppb	0.0084	40.1	-237.431
Ca 370.602	15712b	ppb	66.22	0.4	50709
Cd 226.502	-0.0859b	ppb	0.1104	128.6	8.8935
Co 228.615	0.2076b	ppb	0.3656	176.1	16.1041
Cr 267.716	0.6965b	ppb	0.0136	2.0	42.3939
Cu 324.754	-0.1975b	ppb	0.3669	185.8	98.1859
Fe 271.441	59.6211b	ppb	2.5793	4.3	102.472
K 766.491	4797.82b	ppb	5.6069	0.1	235697
Mg 279.078	9952.44b	ppb	38.9238	0.4	20292.2
Mn 257.610	26.9583b	ppb	0.1301	0.5	6238.21
Mo 202.032	-0.8047b	ppb	0.2435	30.3	10.0746
Na 330.237	240086xb	ppb	849.600	0.4	12187.9
Ni 231.604	-0.8485b	ppb	1.1653	137.3	-1.0546
Pb 220.353	-1.4327b	ppb	1.0331	72.1	0.1771
Sb 206.834	0.6683b	ppb	2.6804	401.1	1.9479
Se 196.026	-0.8864b	ppb	9.3870	1059.0	-0.2325
Sn 189.925	-0.5875b	ppb	2.4480	416.7	0.4546
Sr 216.596	39.9868b	ppb	0.9759	2.4	388.557
Ti 334.941	0.5048b	ppb	0.0715	14.2	122.200
Tl 190.794	-3.0682b	ppb	5.4323	177.1	-2.3106
V 292.401	3.7041b	ppb	0.3203	8.6	94.4972
Zn 206.200	0.6521b	ppb	1.1000	168.7	2.8716

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680-88220-a-6-b^20 (Samp) 3/28/2013, 12:22:13 AM Rack 2, Tube 31

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.3908u	-1.0694u	-0.1707u
Al 308.215	0.5419	0.5267	2.2714
As 188.980	-2.4781u	2.1571	-0.3015u
B 249.678	-23.3289u	-24.0600u	-23.7221u
Ba 389.178	11.8334	12.6585	12.7988
Be 313.042	-0.0365u	-0.0313u	-0.0449u
Ca 370.602	3699	3709	3733
Cd 226.502	-0.0881u	-0.2090u	-0.1693u
Co 228.615	-0.1114u	-0.2075u	0.1906
Cr 267.716	-0.4925u	-0.0028	-0.1444u
Cu 324.754	-0.4801u	-0.2103u	-0.1599u
Fe 271.441	8.3460	9.5118	2.0805
K 766.491	1068.17	1067.89	1067.73
Mg 279.078	1572.38	1577.20	1581.38
Mn 257.610	17.5440	17.5460	17.5629
Mo 202.032	-0.7824u	-0.5423u	-1.4318u
Na 330.237	9991.30	9916.25	10020.0
Ni 231.604	0.8937	-1.1184u	1.0825
Pb 220.353	-0.7773u	0.9152	-0.5772u
Sb 206.834	-2.7085u	2.1635	1.2047
Se 196.026	5.7312	-5.7737u	4.0812
Sn 189.925	-2.9662u	1.0161	-0.8405u
Sr 216.596	21.3680	21.8878	21.9624
Ti 334.941	-0.2318u	-0.2915u	-0.3186u
Tl 190.794	0.5996	3.5709	2.8592
V 292.401	0.4555	0.3086	0.2467
Zn 206.200	0.3090	-1.0631u	0.2187

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.5436	ppb	0.4684	86.2	-70.8655
Al 308.215	1.1134	ppb	1.0030	90.1	249.967
As 188.980	-0.2075	ppb	2.3190	1117.7	1.9858
B 249.678	-23.7037	ppb	0.3659	1.5	141.282
Ba 389.178	12.4302	ppb	0.5216	4.2	283.303
Be 313.042	-0.0375	ppb	0.0069	18.3	-245.204
Ca 370.602	3714	ppb	17.49	0.5	11984
Cd 226.502	-0.1554	ppb	0.0616	39.6	7.4395
Co 228.615	-0.0428	ppb	0.2077	485.9	13.2163
Cr 267.716	-0.2132	ppb	0.2520	118.2	0.7094
Cu 324.754	-0.2835	ppb	0.1721	60.7	94.0514
Fe 271.441	6.6461	ppb	3.9967	60.1	13.5768
K 766.491	1067.93	ppb	0.2241	0.0	52638.2
Mg 279.078	1576.99	ppb	4.5047	0.3	3233.49
Mn 257.610	17.5510	ppb	0.0104	0.1	4060.10
Mo 202.032	-0.9188	ppb	0.4602	50.1	9.3461
Na 330.237	9975.85	ppb	53.5806	0.5	502.782
Ni 231.604	0.2859	ppb	1.2199	426.7	1.6257
Pb 220.353	-0.1464	ppb	0.9248	631.5	2.2451
Sb 206.834	0.2199	ppb	2.5810	1173.8	1.5093
Se 196.026	1.3462	ppb	6.2210	462.1	0.7884
Sn 189.925	-0.9302	ppb	1.9926	214.2	0.1152
Sr 216.596	21.7394	ppb	0.3238	1.5	215.618
Ti 334.941	-0.2807	ppb	0.0444	15.8	-95.9018
Tl 190.794	2.3432	ppb	1.5514	66.2	1.2712
V 292.401	0.3369	ppb	0.1072	31.8	3.7116
Zn 206.200	-0.1785	ppb	0.7675	430.1	2.5198

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680-88220-a-7-b^20 (Samp) 3/28/2013, 12:27:39 AM Rack 2, Tube 32

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.6929u	-0.5915u	-0.3793u
Al 308.215	20.1965	19.4212	17.5480
As 188.980	14.5269	18.7064	17.1796
B 249.678	-19.5185u	-18.8388u	-19.8064u
Ba 389.178	0.4602	1.1826	1.5154
Be 313.042	-0.0246u	-0.0223u	-0.0184u
Ca 370.602	24387	24434	24440
Cd 226.502	-0.0803u	-0.0646u	-0.0768u
Co 228.615	0.1996	0.1946	0.3534
Cr 267.716	3.6720	3.5937	2.9511
Cu 324.754	0.2186	0.4051	0.0919
Fe 271.441	107.967	118.067	115.481
K 766.491	5224.19	5204.40	5214.49
Mg 279.078	133.961	136.064	136.039
Mn 257.610	0.1685	0.1663	0.2666
Mo 202.032	2.4326	2.4820	1.4863
Na 330.237	147111x	148962x	148344x
Ni 231.604	6.2007	6.6510	6.1458
Pb 220.353	3.8845	2.0424	3.0897
Sb 206.834	0.9096	-2.7476u	-2.0643u
Se 196.026	-1.0791u	6.4461	3.9091
Sn 189.925	-0.2177u	1.7894	-0.8087u
Sr 216.596	65.7866	65.9063	66.6205
Ti 334.941	12.2309	12.3245	12.3371
Tl 190.794	-2.4911u	-3.2047u	-7.1261u
V 292.401	18.4928	18.8052	18.8573
Zn 206.200	3.4291	2.5994	1.0378

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.5546b	ppb	0.1600	28.9	-73.4784
Al 308.215	19.0552b	ppb	1.3617	7.1	352.771
As 188.980	16.8043b	ppb	2.1149	12.6	11.3724
B 249.678	-19.3879b	ppb	0.4969	2.6	180.722
Ba 389.178	1.0527b	ppb	0.5394	51.2	7.3903
Be 313.042	-0.0218b	ppb	0.0031	14.5	-225.412
Ca 370.602	24420b	ppb	29.08	0.1	78817
Cd 226.502	-0.0739b	ppb	0.0082	11.1	9.8152
Co 228.615	0.2492b	ppb	0.0903	36.2	16.7843
Cr 267.716	3.4056b	ppb	0.3956	11.6	153.997
Cu 324.754	0.2385b	ppb	0.1576	66.0	119.188
Fe 271.441	113.838b	ppb	5.2467	4.6	193.444
K 766.491	5214.36b	ppb	9.8962	0.2	256140
Mg 279.078	135.355b	ppb	1.2068	0.9	297.500
Mn 257.610	0.2005b	ppb	0.0573	28.6	117.666
Mo 202.032	2.1336b	ppb	0.5611	26.3	29.0175
Na 330.237	148139xb	ppb	942.487	0.6	7518.66
Ni 231.604	6.3325b	ppb	0.2772	4.4	15.9203
Pb 220.353	3.0055b	ppb	0.9240	30.7	7.3015
Sb 206.834	-1.3008b	ppb	1.9445	149.5	0.0527
Se 196.026	3.0921b	ppb	3.8285	123.8	1.5849
Sn 189.925	0.2543b	ppb	1.3619	535.5	1.0643
Sr 216.596	66.1044b	ppb	0.4509	0.7	635.160
Ti 334.941	12.2975b	ppb	0.0580	0.5	3096.03
Tl 190.794	-4.2740b	ppb	2.4957	58.4	-3.0780
V 292.401	18.7184b	ppb	0.1971	1.1	507.551
Zn 206.200	2.3554b	ppb	1.2142	51.5	6.5176

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680-88252-a-1-d^20 (Samp) 3/28/2013, 12:33:04 AM Rack 2, Tube 33

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.7819u	-0.8615u	-1.0287u
Al 308.215	8.8593	11.8492	9.7701
As 188.980	4.9515	-2.0752u	-1.5668u
B 249.678	18.0872	18.0190	19.4258
Ba 389.178	1.2286	3.1116	2.1987
Be 313.042	-0.0372u	-0.0232u	-0.0417u
Ca 370.602	2440	2444	2433
Cd 226.502	-0.0984u	-0.1729u	-0.1703u
Co 228.615	0.3696	-0.2197u	-0.2006u
Cr 267.716	1.3630	1.0497	1.0265
Cu 324.754	-0.0878u	-0.3892u	-0.3955u
Fe 271.441	7.8475	11.5253	8.5787
K 766.491	2260.43	2254.33	2255.65
Mg 279.078	2367.80	2369.33	2375.75
Mn 257.610	2.5684	2.5535	2.5482
Mo 202.032	-1.0290u	-0.8086u	-0.5961u
Na 330.237	47378.6	47414.4	47254.8
Ni 231.604	-0.3354u	0.3001	-0.1335u
Pb 220.353	-0.0458u	-0.6232u	1.9650
Sb 206.834	-0.9946u	1.6369	2.4971
Se 196.026	-3.8830u	-1.7195u	-2.1997u
Sn 189.925	-3.2113u	1.1371	-3.8279u
Sr 216.596	22.9902	23.7966	22.6941
Ti 334.941	15.4251	15.5061	15.5129
Tl 190.794	-1.9888u	-0.2581u	-0.0174u
V 292.401	2.0063	2.2777	1.6570
Zn 206.200	-1.1323u	0.2897	-0.5907u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.8907	ppb	0.1260	14.1	-95.2613
Al 308.215	10.1595	ppb	1.5325	15.1	301.782
As 188.980	0.4365	ppb	3.9184	897.7	2.3259
B 249.678	18.5107	ppb	0.7933	4.3	527.930
Ba 389.178	2.1796	ppb	0.9416	43.2	40.1723
Be 313.042	-0.0340	ppb	0.0096	28.3	-243.593
Ca 370.602	2439	ppb	5.196	0.2	7872
Cd 226.502	-0.1472	ppb	0.0423	28.7	7.5406
Co 228.615	-0.0169	ppb	0.3349	1981.6	13.9072
Cr 267.716	1.1464	ppb	0.1879	16.4	58.0943
Cu 324.754	-0.2908	ppb	0.1759	60.5	93.6890
Fe 271.441	9.3171	ppb	1.9470	20.9	18.1209
K 766.491	2256.80	ppb	3.2069	0.1	110987
Mg 279.078	2370.96	ppb	4.2165	0.2	4850.86
Mn 257.610	2.5567	ppb	0.0104	0.4	664.173
Mo 202.032	-0.8112	ppb	0.2164	26.7	10.0380
Na 330.237	47349.3	ppb	83.7306	0.2	2400.52
Ni 231.604	-0.0563	ppb	0.3247	577.1	0.8170
Pb 220.353	0.4320	ppb	1.3586	314.5	3.1636
Sb 206.834	1.0465	ppb	1.8192	173.8	2.3062
Se 196.026	-2.6007	ppb	1.1361	43.7	-1.0240
Sn 189.925	-1.9674	ppb	2.7062	137.6	-0.6573
Sr 216.596	23.1603	ppb	0.5706	2.5	228.859
Ti 334.941	15.4813	ppb	0.0489	0.3	3924.46
Tl 190.794	-0.7548	ppb	1.0754	142.5	-0.7587
V 292.401	1.9804	ppb	0.3111	15.7	48.7135
Zn 206.200	-0.4778	ppb	0.7177	150.2	-2.0516

E03272013.vvq. All Data Report 3/28/2013, 2:04:12 PM

680-88252-a-1-d^20 (Samp) 3/28/2013, 12:38:30 AM Rack 2, Tube 34

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.6049u	-1.3293u	-0.8516u
Al 308.215	0.4918	0.8443	0.9862
As 188.980	2.4832	1.0452	-5.1151u
B 249.678	-21.7409u	-21.8613u	-21.8079u
Ba 389.178	0.2751	-0.1060u	0.2050
Be 313.042	-0.0283u	-0.0411u	-0.0331u
Ca 370.602	485.2	494.0	495.9
Cd 226.502	-0.0668u	-0.0949u	-0.1717u
Co 228.615	0.3164	-0.6813u	0.3535
Cr 267.716	0.2586	-0.1844u	0.0624
Cu 324.754	-0.6109u	-0.8209u	0.0114
Fe 271.441	0.7032	1.8003	8.3277
K 766.491	438.909	443.162	444.708
Mg 279.078	469.142	471.243	475.225
Mn 257.610	0.3285	0.3957	0.3627
Mo 202.032	-1.0109u	-0.7004u	-1.1407u
Na 330.237	9193.28	9260.70	9502.55
Ni 231.604	0.2424	-0.1940u	1.8009
Pb 220.353	1.4313	1.4244	0.9923
Sb 206.834	1.6803	3.6882	-0.2919u
Se 196.026	-1.5681u	-7.6483u	8.7194
Sn 189.925	-3.0594u	-1.6624u	-2.5506u
Sr 216.596	4.2294	4.6643	4.0596
Ti 334.941	2.8017	2.8874	2.9001
Tl 190.794	2.9401	-0.8458u	-4.6550u
V 292.401	0.9087	0.6515	0.4998
Zn 206.200	-0.6296u	0.0300	-0.1816u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.9286	ppb	0.3683	39.7	-97.1103
Al 308.215	0.7741	ppb	0.2546	32.9	248.063
As 188.980	-0.5289	ppb	4.0363	763.1	1.7875
B 249.678	-21.8033	ppb	0.0603	0.3	158.689
Ba 389.178	0.1247	ppb	0.2028	162.7	-14.1229
Be 313.042	-0.0342	ppb	0.0065	18.9	-239.757
Ca 370.602	491.7	ppb	5.705	1.2	1584
Cd 226.502	-0.1112	ppb	0.0543	48.8	8.9993
Co 228.615	-0.0038	ppb	0.5870	15335.9	13.7322
Cr 267.716	0.0455	ppb	0.2219	487.5	11.4529
Cu 324.754	-0.4735	ppb	0.4329	91.4	84.8813
Fe 271.441	3.6104	ppb	4.1219	114.2	8.4591
K 766.491	442.260	ppb	3.0027	0.7	21930.9
Mg 279.078	471.870	ppb	3.0897	0.7	982.888
Mn 257.610	0.3623	ppb	0.0336	9.3	156.365
Mo 202.032	-0.9507	ppb	0.2262	23.8	9.1400
Na 330.237	9318.84	ppb	162.628	1.7	469.394
Ni 231.604	0.6165	ppb	1.0487	170.1	2.4071
Pb 220.353	1.2827	ppb	0.2515	19.6	4.5387
Sb 206.834	1.6922	ppb	1.9901	117.6	2.9125
Se 196.026	-0.1657	ppb	8.2735	4994.2	0.0915
Sn 189.925	-2.4241	ppb	0.7070	29.2	-1.0159
Sr 216.596	4.3178	ppb	0.3119	7.2	51.2270
Ti 334.941	2.8631	ppb	0.0536	1.9	701.357
Tl 190.794	-0.8536	ppb	3.7976	444.9	-0.8222
V 292.401	0.6867	ppb	0.2067	30.1	13.2914
Zn 206.200	-0.2604	ppb	0.3368	129.3	2.3694

E03272013.wvq. All Data Report 3/28/2013, 2:04:12 PM

**680-88252-a-1-d^20 (Samp)**      **3/28/2013, 12:43:56 AM**      **Rack 2, Tube 35****Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	51.7246	51.3878	50.7484
Al 308.215	1992.43	2000.92	1998.13
As 188.980	2188.90	2206.04	2188.88
B 249.678	1068.46	1079.50	1087.02
Ba 389.178	2074.21	2077.70	2074.56
Be 313.042	51.6713	51.7504	51.6714
Ca 370.602	7407	7421	7409
Cd 226.502	51.9151	51.3755	51.6215
Co 228.615	518.605	520.769	521.807
Cr 267.716	205.472	205.941	205.548
Cu 324.754	258.381	260.189	257.755
Fe 271.441	1035.45	1039.78	1037.80
K 766.491	7687.17	7726.79	7720.04
Mg 279.078	7448.56	7476.77	7462.75
Mn 257.610	524.718	525.732	525.167
Mo 202.032	515.912	515.881	514.660
Na 330.237	52011.7	52368.9	51939.4
Ni 231.604	516.107	513.750	507.407
Pb 220.353	512.540	510.926	509.996
Sb 206.834	506.482	505.039	506.216
Se 196.026	2045.66	2055.15	2054.50
Sn 189.925	1052.06	1045.75	1052.38
Sr 216.596	550.023	550.314	548.528
Ti 334.941	1037.57	1040.38	1040.84
Tl 190.794	2111.88	2131.64	2111.21
V 292.401	513.013	514.528	513.059
Zn 206.200	508.398	506.285	504.291

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	51.2869	ppb	0.4959	1.0	3534.76
Al 308.215	1997.16	ppb	4.3235	0.2	11737.1
As 188.980	2194.61	ppb	9.9044	0.5	1193.48
B 249.678	1078.33	ppb	9.3346	0.9	10233.9
Ba 389.178	2075.49	ppb	1.9217	0.1	49668.6
Be 313.042	51.6977	ppb	0.0457	0.1	99802.9
Ca 370.602	7412	ppb	7.379	0.1	24047
Cd 226.502	51.6374	ppb	0.2702	0.5	1853.51
Co 228.615	520.394	ppb	1.6339	0.3	5974.93
Cr 267.716	205.654	ppb	0.2513	0.1	8606.69
Cu 324.754	258.775	ppb	1.2639	0.5	12610.9
Fe 271.441	1037.68	ppb	2.1701	0.2	1825.55
K 766.491	7711.33	ppb	21.1971	0.3	378689
Mg 279.078	7462.69	ppb	14.1046	0.2	15213.1
Mn 257.610	525.206	ppb	0.5081	0.1	119209
Mo 202.032	515.484	ppb	0.7138	0.1	3342.40
Na 330.237	52106.7	ppb	229.963	0.4	2630.24
Ni 231.604	512.421	ppb	4.4993	0.9	1212.21
Pb 220.353	511.154	ppb	1.2870	0.3	823.533
Sb 206.834	505.912	ppb	0.7678	0.2	480.358
Se 196.026	2051.77	ppb	5.3011	0.3	940.681
Sn 189.925	1050.06	ppb	3.7361	0.4	794.890
Sr 216.596	549.622	ppb	0.9582	0.2	5164.50
Ti 334.941	1039.59	ppb	1.7719	0.2	265127
Tl 190.794	2118.24	ppb	11.6104	0.5	1397.60
V 292.401	513.533	ppb	0.8615	0.2	14022.1
Zn 206.200	506.325	ppb	2.0535	0.4	5779.471

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680-88252-a-1-e ms (Samp) 3/28/2013, 12:49:22 AM Rack 2, Tube 36

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	1.8707	1.6081	2.0331
Al 308.215	261.589	260.406	263.583
As 188.980	1.1592	7.0725	7.9366
B 249.678	54.1287	50.4205	49.3390
Ba 389.178	6.8742	8.1532	6.7397
Be 313.042	2.5849	2.5939	2.5913
Ca 370.602	2568	2581	2582
Cd 226.502	2.5886	2.5136	2.4473
Co 228.615	2.3400	2.9787	2.3294
Cr 267.716	6.2332	6.0199	6.0875
Cu 324.754	4.9062	5.1774	4.9207
Fe 271.441	261.273	259.736	261.380
K 766.491	2407.67	2417.96	2425.87
Mg 279.078	2512.31	2519.14	2530.05
Mn 257.610	29.1534	29.0820	29.2042
Mo 202.032	4.2545	4.6908	4.2478
Na 330.237	45569.9	45491.9	45609.5
Ni 231.604	6.0780	4.1541	6.5268
Pb 220.353	2.3710	2.3094	0.4585
Sb 206.834	1.2978	-5.3097u	2.6479
Se 196.026	-2.2585u	7.4617	13.4343
Sn 189.925	2.3827	-1.9855u	-0.1889u
Sr 216.596	27.0277	27.3457	27.1909
Ti 334.941	19.6327	19.7048	19.6861
Tl 190.794	-1.8509u	1.7715	-3.3098u
V 292.401	6.9368	7.4145	7.0119
Zn 206.200	4.9155	4.3039	6.0013

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	1.8373	ppb	0.2145	11.7	95.3981
Al 308.215	261.860	ppb	1.6057	0.6	1743.46
As 188.980	5.3894	ppb	3.6889	68.4	5.0125
B 249.678	51.2961	ppb	2.5120	4.9	827.983
Ba 389.178	7.2557	ppb	0.7802	10.8	162.456
Be 313.042	2.5900	ppb	0.0046	0.2	4835.64
Ca 370.602	2577	ppb	7.823	0.3	8298
Cd 226.502	2.5165	ppb	0.0707	2.8	102.967
Co 228.615	2.5494	ppb	0.3718	14.6	43.2086
Cr 267.716	6.1135	ppb	0.1090	1.8	265.810
Cu 324.754	5.0014	ppb	0.1526	3.1	349.365
Fe 271.441	260.796	ppb	0.9198	0.4	440.080
K 766.491	2417.17	ppb	9.1236	0.4	118857
Mg 279.078	2520.50	ppb	8.9476	0.4	5155.00
Mn 257.610	29.1465	ppb	0.0614	0.2	6695.13
Mo 202.032	4.3977	ppb	0.2538	5.8	43.6472
Na 330.237	45557.1	ppb	59.8612	0.1	2309.36
Ni 231.604	5.5863	ppb	1.2604	22.6	14.1595
Pb 220.353	1.7130	ppb	1.0868	63.4	5.2160
Sb 206.834	-0.4547	ppb	4.2584	936.6	0.8793
Se 196.026	6.2125	ppb	7.9206	127.5	3.0221
Sn 189.925	0.0695	ppb	2.1956	3161.2	0.8824
Sr 216.596	27.1881	ppb	0.1590	0.6	266.666
Ti 334.941	19.6745	ppb	0.0374	0.2	4994.66
Tl 190.794	-1.1297	ppb	2.6163	231.6	-1.0393
V 292.401	7.1211	ppb	0.2569	3.6	188.901
Zn 206.200	5.0736	ppb	0.8597	17.1	515.4609



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Cont Calib Verif (CCV)                      3/28/2013, 12:54:48 AM                      Rack 2, Tube 37  
 Weight: 1                                      Volume: 1                                      Dilution: 1

Label	Replicates Concentration		
Ag 328.068	491.573	498.625	498.840
Al 308.215	4958.07	4942.11	5003.77
As 188.980	474.348	467.127	470.288
B 249.678	2488.70	2502.88	2548.58
Ba 389.178	4900.48	4889.17	4944.94
Be 313.042	488.262	486.606	492.185
Ca 370.602	4894	4880	4933
Cd 226.502	488.229	486.156	492.972
Co 228.615	494.113	491.232	499.537
Cr 267.716	4893.76	4873.20	4922.63
Cu 324.754	4801.79	4905.68	4878.23
Fe 271.441	4916.23	4911.81	4962.19
K 766.491	9942.56	9914.61	10090.6
Mg 279.078	4877.90	4880.81	4916.48
Mn 257.610	4943.03	4916.99	4987.01
Mo 202.032	486.151	481.652	489.199
Na 330.237	7460.43	7327.22	7364.73
Ni 231.604	2464.50	2445.78	2479.91
Pb 220.353	490.960	482.593	492.064
Sb 206.834	900.696	912.645	921.175
Se 196.026	4810.82	4787.04	4856.32
Sn 189.925	4994.90	4985.69	5011.27
Sr 216.596	2449.63	2436.08	2467.41
Ti 334.941	493.716	491.595	497.616
Tl 190.794	4920.54	4903.51	4950.88
V 292.401	4899.55	4883.77	4949.45
Zn 206.200	2450.21	2436.54	2462.85

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	496.346	ppb	4.1351	0.8	34606.6	99.26920
Al 308.215	4967.99	ppb	32.0020	0.6	28664.5	99.35972
As 188.980	470.588	ppb	3.6202	0.8	257.438	94.11756
B 249.678	2513.39	ppb	31.2927	1.2	23374.3	100.53561
Ba 389.178	4911.53	ppb	29.4833	0.6	117537	98.23062
Be 313.042	489.018	ppb	2.8649	0.6	946262	97.80354
Ca 370.602	4902	ppb	27.19	0.6	15688	98.04501
Cd 226.502	489.119	ppb	3.4939	0.7	17436.3	97.82384
Co 228.615	494.961	ppb	4.2166	0.9	5683.22	98.99220
Cr 267.716	4896.53	ppb	24.8294	0.5	204681	97.93055
Cu 324.754	4861.90	ppb	53.8357	1.1	234815	97.23793
Fe 271.441	4930.07	ppb	27.8971	0.6	8385.20	98.60149
K 766.491	9982.60	ppb	94.6030	0.9	490161	99.82600
Mg 279.078	4891.73	ppb	21.4859	0.4	9907.98	97.83460
Mn 257.610	4949.01	ppb	35.3886	0.7	1122332	98.98026
Mo 202.032	485.668	ppb	3.7964	0.8	3142.34	97.13351
Na 330.237	7384.13	ppb	68.6887	0.9	347.977	98.45501
Ni 231.604	2463.40	ppb	17.0913	0.7	5823.92	98.53595
Pb 220.353	488.539	ppb	5.1789	1.1	788.352	97.70777
Sb 206.834	911.505	ppb	10.2869	1.1	916.171	91.15054
Se 196.026	4818.06	ppb	35.2043	0.7	2209.58	96.36120
Sn 189.925	4997.29	ppb	12.9559	0.3	3779.76	99.94570
Sr 216.596	2451.04	ppb	15.7125	0.6	23046.9	98.04165
Ti 334.941	494.309	ppb	3.0539	0.6	126055	98.86182
Tl 190.794	4924.98	ppb	23.9950	0.5	3247.30	98.49952
V 292.401	4910.92	ppb	34.2856	0.7	134684	98.21844
Zn 206.200	2449.86	ppb	13.1569	0.5	3795.50	97.99457

E03272013.wvq. All Data Report 3/28/2013, 2:04:12 PM

Cont Calib Blank (CCB)                      3/28/2013, 1:00:14 AM                      Rack 2, Tube 38  
 Weight: 1    Volume: 1    Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.6294u	-0.0414u	-0.3807u
Al 308.215	-3.2441u	0.8938	-1.6015u
As 188.980	-8.9407u	4.0382	-3.1628u
B 249.678	34.8229	29.1786	24.3978
Ba 389.178	-0.8171u	-0.6962u	-0.6084u
Be 313.042	-0.0319u	-0.0231u	-0.0391u
Ca 370.602	0.9451	-1.775u	-1.218u
Cd 226.502	-0.1957u	-0.0291u	-0.1745u
Co 228.615	0.7085	-0.2434u	0.2407
Cr 267.716	-0.0444u	-0.4010u	-0.1622u
Cu 324.754	-0.0983u	-0.6337u	-0.4959u
Fe 271.441	-2.6084u	-3.0789u	4.0142
K 766.491	-0.8079u	-0.2288u	-0.3917u
Mg 279.078	-0.7155u	-0.2080u	1.2654
Mn 257.610	-0.0619u	-0.1138u	-0.0916u
Mo 202.032	-0.5996u	-0.6631u	-0.3163u
Na 330.237	17.7322	79.0618	63.9424
Ni 231.604	0.7858	-1.9926u	1.2163
Pb 220.353	0.9245	2.4424	1.2163
Sb 206.834	-1.3052u	4.6224	8.3649
Se 196.026	-4.0414u	8.1493	-4.8837u
Sn 189.925	-1.1609u	0.4115	-1.1310u
Sr 216.596	-0.1494u	-0.3176u	-0.4433u
Ti 334.941	-0.1643u	-0.1363u	-0.1650u
Tl 190.794	1.1528	-0.2929u	-0.3314u
V 292.401	0.7874	0.4428	0.1583
Zn 206.200	0.6443	0.8512	-0.2071u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	-0.3505	ppb	0.2952	84.2	-56.4915	-0.35050
Al 308.215	-1.3173	ppb	2.0836	158.2	236.117	-1.31730
As 188.980	-2.6885	ppb	6.5025	241.9	0.6115	-2.68845
B 249.678	29.4664	ppb	5.2185	17.7	628.279	29.46644
Ba 389.178	-0.7073	ppb	0.1048	14.8	-35.3067	-0.70725
Be 313.042	-0.0314	ppb	0.0080	25.6	-233.285	-0.03135
Ca 370.602	-0.6824	ppb	1.437	210.5	-5.602	-0.68238
Cd 226.502	-0.1331	ppb	0.0907	68.1	8.2512	-0.13311
Co 228.615	0.2352	ppb	0.4760	202.3	16.3830	0.23523
Cr 267.716	-0.2025	ppb	0.1817	89.7	0.9294	-0.20253
Cu 324.754	-0.4093	ppb	0.2780	67.9	87.9866	-0.40928
Fe 271.441	-0.5577	ppb	3.9663	711.2	1.5299	-0.55769
K 766.491	-0.4761	ppb	0.2986	62.7	201.907	-0.47611
Mg 279.078	0.1140	ppb	1.0290	902.8	22.0370	0.11397
Mn 257.610	-0.0891	ppb	0.0260	29.2	51.4503	-0.08912
Mo 202.032	-0.5263	ppb	0.1846	35.1	11.8802	-0.52632
Na 330.237	53.5788	ppb	31.9513	59.6	-1.0857	53.57880
Ni 231.604	0.0032	ppb	1.7417	54709.1	0.9573	0.00318
Pb 220.353	1.5277	ppb	0.8054	52.7	4.9341	1.52775
Sb 206.834	3.8941	ppb	4.8760	125.2	5.0116	3.89405
Se 196.026	-0.2586	ppb	7.2936	2820.2	0.0488	-0.25862
Sn 189.925	-0.6268	ppb	0.8994	143.5	0.3399	-0.62681
Sr 216.596	-0.3034	ppb	0.1475	48.6	7.6398	-0.30342
Ti 334.941	-0.1552	ppb	0.0164	10.5	-69.6616	-0.15521
Tl 190.794	0.1761	ppb	0.8460	480.3	-0.1419	0.17614
V 292.401	0.4628	ppb	0.3150	68.1	7.1325	0.46283
Zn 206.200	0.4295	ppb	0.5609	130.6	2.4127	0.42947

E03272013.vvq. All Data Report 3/28/2013, 2:04:12 PM

680-88252-a-1-f msd (Samp) 3/28/2013, 1:05:39 AM Rack 2, Tube 39

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	1.8795	1.9314	2.2137
Al 308.215	266.937	264.745	268.565
As 188.980	9.4390	7.3470	7.4551
B 249.678	48.7187	47.5227	46.3894
Ba 389.178	8.1373	7.7712	7.4679
Be 313.042	2.6341	2.6232	2.6339
Ca 370.602	2617	2593	2623
Cd 226.502	2.6214	2.4156	2.4771
Co 228.615	2.2324	1.6405	3.0111
Cr 267.716	6.0481	6.3846	6.4149
Cu 324.754	5.2693	5.0370	5.3991
Fe 271.441	278.904	273.375	277.152
K 766.491	2453.43	2442.43	2474.90
Mg 279.078	2558.65	2547.54	2568.22
Mn 257.610	29.6373	29.3844	29.6295
Mo 202.032	5.0224	4.6671	3.5541
Na 330.237	46202.3	46350.9	46532.2
Ni 231.604	5.0918	5.9770	6.9115
Pb 220.353	3.8706	2.7396	2.0200
Sb 206.834	4.3928	3.6054	2.8935
Se 196.026	9.0996	-6.3844u	-1.2683u
Sn 189.925	1.3158	5.2775	0.7015
Sr 216.596	28.6618	26.9411	26.6108
Ti 334.941	20.0735	19.9605	19.9374
Tl 190.794	3.7250	-0.4185u	5.5771
V 292.401	6.9264	6.9611	7.4348
Zn 206.200	5.7599	5.2571	6.0086

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	2.0082	ppb	0.1799	9.0	107.306
Al 308.215	266.749	ppb	1.9170	0.7	1771.46
As 188.980	8.0804	ppb	1.1779	14.6	6.4736
B 249.678	47.5436	ppb	1.1648	2.4	793.597
Ba 389.178	7.7921	ppb	0.3352	4.3	175.423
Be 313.042	2.6304	ppb	0.0062	0.2	4913.70
Ca 370.602	2611	ppb	15.90	0.6	8406
Cd 226.502	2.5047	ppb	0.1056	4.2	102.583
Co 228.615	2.2946	ppb	0.6874	30.0	40.3001
Cr 267.716	6.2825	ppb	0.2036	3.2	272.894
Cu 324.754	5.2351	ppb	0.1834	3.5	360.656
Fe 271.441	276.477	ppb	2.8256	1.0	466.352
K 766.491	2456.92	ppb	16.5173	0.7	120808
Mg 279.078	2558.14	ppb	10.3504	0.4	5231.65
Mn 257.610	29.5504	ppb	0.1438	0.5	6786.96
Mo 202.032	4.4145	ppb	0.7661	17.4	43.7551
Na 330.237	46361.8	ppb	165.212	0.4	2350.21
Ni 231.604	5.9934	ppb	0.9100	15.2	15.1222
Pb 220.353	2.8767	ppb	0.9329	32.4	7.0880
Sb 206.834	3.6306	ppb	0.7500	20.7	4.7825
Se 196.026	0.4823	ppb	7.8891	1635.7	0.3960
Sn 189.925	2.4316	ppb	2.4837	102.1	2.6689
Sr 216.596	27.4046	ppb	1.1013	4.0	268.716
Ti 334.941	19.9905	ppb	0.0728	0.4	5075.33
Tl 190.794	2.9612	ppb	3.0699	103.7	1.6599
V 292.401	7.1074	ppb	0.2840	4.0	188.495
Zn 206.200	5.6752	ppb	0.3828	6.7	515.3736

E03272013.wvq. All Data Report 3/28/2013, 2:04:12 PM

680-88252-a-2-b^20 (Samp) 3/28/2013, 1:11:05 AM Rack 2, Tube 40

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.5420u	-1.4754u	-1.1361u
Al 308.215	114.559	114.893	112.435
As 188.980	-7.0811u	-3.3648u	6.8406
B 249.678	41.9893	41.1942	39.6031
Ba 389.178	-0.6297	-0.7112	-0.9892
Be 313.042	0.0546	0.0737	0.0660
Ca 370.602	18334	18239	18170
Cd 226.502	-0.0929	-0.3553	-0.3992
Co 228.615	0.1167	0.8106	1.0016
Cr 267.716	-0.2408u	0.0309	0.1023
Cu 324.754	-0.3861u	-0.4954u	-0.5804u
Fe 271.441	20282.9	20163.1	20160.9
K 766.491	6646.45	6628.80	6630.67
Mg 279.078	21201.4	21116.6	21052.9
Mn 257.610	917.297	912.422	910.632
Mo 202.032	-0.7786u	-1.4325u	-0.7984u
Na 330.237	148964x	147388x	147992x
Ni 231.604	1.4314	0.9102	-1.8303u
Pb 220.353	-0.4285u	3.6219	1.2098
Sb 206.834	3.9422	-0.2128	-1.0687u
Se 196.026	5.4460	5.7131	4.0469
Sn 189.925	-0.2488u	-1.6988u	-1.7076u
Sr 216.596	104.135	101.853	100.620
Ti 334.941	-0.3679u	-0.5225u	-0.5220u
Tl 190.794	-1.5058u	9.0890	6.4329
V 292.401	0.6937	0.2300	-0.2992u
Zn 206.200	4.6112	3.0024	5.4907

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.0512b	ppb	0.4725	44.9	-106.297
Al 308.215	113.963b	ppb	1.3335	1.2	896.077
As 188.980	-1.2018b	ppb	7.2085	599.8	1.3726
B 249.678	40.9288b	ppb	1.2150	3.0	714.797
Ba 389.178	-0.7767b	ppb	0.1885	24.3	49.6829
Be 313.042	0.0648b	ppb	0.0096	14.9	-60.3751
Ca 370.602	18248b	ppb	82.65	0.5	57256
Cd 226.502	-0.2825b	ppb	0.1656	58.6	49.3159
Co 228.615	0.6430b	ppb	0.4657	72.4	20.3832
Cr 267.716	-0.0359b	ppb	0.1811	504.8	17.8377
Cu 324.754	-0.4873b	ppb	0.0974	20.0	89.9934
Fe 271.441	20202.3b	ppb	69.8428	0.3	33861.7
K 766.491	6635.31b	ppb	9.6984	0.1	325879
Mg 279.078	21123.6b	ppb	74.5251	0.4	43035.1
Mn 257.610	913.450b	ppb	3.4495	0.4	207372
Mo 202.032	-1.0032b	ppb	0.3719	37.1	7.8993
Na 330.237	148115xb	ppb	795.466	0.5	7511.56
Ni 231.604	0.1704b	ppb	1.7521	1028.0	1.7305
Pb 220.353	1.4677b	ppb	2.0375	138.8	5.0275
Sb 206.834	0.8869b	ppb	2.6803	302.2	2.5881
Se 196.026	5.0686b	ppb	0.8949	17.7	2.7549
Sn 189.925	-1.2184b	ppb	0.8397	68.9	-0.0522
Sr 216.596	102.203b	ppb	1.7834	1.7	981.972
Ti 334.941	-0.4708b	ppb	0.0891	18.9	-71.9186
Tl 190.794	4.6720b	ppb	5.5125	118.0	1.2557
V 292.401	0.2082b	ppb	0.4968	238.6	-0.7119
Zn 206.200	4.3681b	ppb	1.2619	28.8	9.5253

E03272013.wvq. All Data Report 3/28/2013, 2:04:12 PM

680-88252-a-3-b^20 (Samp)      3/28/2013, 1:16:30 AM      Rack 2, Tube 41  
 Weight: 1      Volume: 1      Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-1.1208u	-1.0118u	-0.4456u
Al 308.215	0.4319	1.1233	0.4240
As 188.980	-1.9459u	-9.6369u	-2.4867u
B 249.678	-11.0637u	-11.5962u	-13.3054u
Ba 389.178	8.4227	7.5259	9.6369
Be 313.042	-0.0330u	-0.0447u	-0.0305u
Ca 370.602	8474	8471	8429
Cd 226.502	-0.0535u	-0.2967u	0.0693
Co 228.615	-0.0595u	0.0709	-0.2374u
Cr 267.716	-0.2097u	-0.1404u	-0.3478u
Cu 324.754	-0.2461u	-0.4817u	-0.9046u
Fe 271.441	1.0026	7.7837	10.1595
K 766.491	1164.11	1163.17	1159.41
Mg 279.078	2547.48	2544.40	2541.08
Mn 257.610	15.1204	15.0953	15.0597
Mo 202.032	-1.2172u	-0.2989u	-1.0559u
Na 330.237	37996.0	38373.7	38254.2
Ni 231.604	0.2913	1.6825	1.2585
Pb 220.353	0.3667	3.3521	-3.9852u
Sb 206.834	-0.0844u	2.9248	1.6202
Se 196.026	-0.8384u	2.6126	4.6295
Sn 189.925	-0.9412u	-7.5576u	-3.7888u
Sr 216.596	85.2914	84.5553	84.8913
Ti 334.941	-0.2213u	-0.2468u	-0.2665u
Tl 190.794	2.1532	1.5611	-1.1377u
V 292.401	0.5487	0.5482	0.0433
Zn 206.200	-1.1184u	0.8735	-0.0873u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.8594	ppb	0.3624	42.2	-95.6060
Al 308.215	0.6597	ppb	0.4015	60.9	247.382
As 188.980	-4.6898	ppb	4.2928	91.5	-0.4126
B 249.678	-11.9884	ppb	1.1712	9.8	248.583
Ba 389.178	8.5285	ppb	1.0595	12.4	192.563
Be 313.042	-0.0361	ppb	0.0075	20.9	-244.142
Ca 370.602	8458	ppb	25.16	0.3	27298
Cd 226.502	-0.0936	ppb	0.1862	198.9	9.4982
Co 228.615	-0.0754	ppb	0.1547	205.3	12.8433
Cr 267.716	-0.2326	ppb	0.1056	45.4	0.3355
Cu 324.754	-0.5441	ppb	0.3336	61.3	81.4674
Fe 271.441	6.3153	ppb	4.7518	75.2	13.0073
K 766.491	1162.23	ppb	2.4893	0.2	57266.2
Mg 279.078	2544.32	ppb	3.2004	0.1	5203.76
Mn 257.610	15.0918	ppb	0.0305	0.2	3507.70
Mo 202.032	-0.8573	ppb	0.4903	57.2	9.7429
Na 330.237	38208.0	ppb	193.019	0.5	1936.43
Ni 231.604	1.0774	ppb	0.7131	66.2	3.4968
Pb 220.353	-0.0888	ppb	3.6898	4155.2	2.3372
Sb 206.834	1.4869	ppb	1.5090	101.5	2.7170
Se 196.026	2.1345	ppb	2.7651	129.5	1.1492
Sn 189.925	-4.0959	ppb	3.3189	81.0	-2.2675
Sr 216.596	84.9127	ppb	0.3685	0.4	811.039
Ti 334.941	-0.2449	ppb	0.0227	9.3	-84.8297
Tl 190.794	0.8588	ppb	1.7542	204.3	0.2937
V 292.401	0.3800	ppb	0.2917	76.7	4.6664
Zn 206.200	-0.1107	ppb	0.9962	899.5	2.6605

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680-88252-a-4-b^20 (Samp) 3/28/2013, 1:22:07 AM Rack 2, Tube 42

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.8120u	-1.1948u	-0.9241u
Al 308.215	4.4594	1.1050	1.9928
As 188.980	-2.0279u	-6.5795u	-2.4716u
B 249.678	95.9537	98.2071	97.3716
Ba 389.178	1.4104	-0.3593	0.2444
Be 313.042	-0.0315u	-0.0348u	-0.0287u
Ca 370.602	13908	13940	13928
Cd 226.502	-0.0591u	0.2884	-0.0740u
Co 228.615	-0.5499u	-0.0663u	0.0476
Cr 267.716	-0.2825u	-0.3564u	-0.4349u
Cu 324.754	0.0158	-0.8671u	0.1164
Fe 271.441	591.949	609.708	601.598
K 766.491	6595.60	6611.96	6585.27
Mg 279.078	21146.6	21239.6	21247.5
Mn 257.610	790.656	793.563	794.582
Mo 202.032	-0.5660u	-0.8545u	-1.4869u
Na 330.237	119116x	119839x	119237x
Ni 231.604	-1.4501u	-0.3759u	-2.6146u
Pb 220.353	2.3307	2.1596	0.6083
Sb 206.834	1.6166	-6.2097u	-1.7958u
Se 196.026	-12.1200u	-7.4119u	3.7410
Sn 189.925	-3.0811u	-4.0622u	1.0864
Sr 216.596	193.728	192.619	194.576
Ti 334.941	-0.5040u	-0.5982u	-0.5976u
Tl 190.794	9.0529	2.2758	-0.7410u
V 292.401	-0.1026u	0.1700	0.0215
Zn 206.200	-0.4575u	0.8847	-0.1920u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.9770b	ppb	0.1968	20.1	-105.408
Al 308.215	2.5191b	ppb	1.7380	69.0	258.039
As 188.980	-3.6930b	ppb	2.5096	68.0	0.1636
B 249.678	97.1775b	ppb	1.1392	1.2	1247.91
Ba 389.178	0.4318b	ppb	0.8996	208.3	50.1268
Be 313.042	-0.0317b	ppb	0.0031	9.7	-244.801
Ca 370.602	13925b	ppb	16.20	0.1	44919
Cd 226.502	0.0518b	ppb	0.2051	396.1	15.8495
Co 228.615	-0.1895b	ppb	0.3173	167.4	11.5173
Cr 267.716	-0.3579b	ppb	0.0762	21.3	-0.5674
Cu 324.754	-0.2450b	ppb	0.5411	220.9	96.0885
Fe 271.441	601.085b	ppb	8.8908	1.5	1009.91
K 766.491	6597.61b	ppb	13.4588	0.2	324029
Mg 279.078	21211.3b	ppb	56.0971	0.3	43212.0
Mn 257.610	792.933b	ppb	2.0375	0.3	179992
Mo 202.032	-0.9691b	ppb	0.4710	48.6	8.9949
Na 330.237	119397xb	ppb	387.601	0.3	6059.10
Ni 231.604	-1.4802b	ppb	1.1196	75.6	-2.5377
Pb 220.353	1.6995b	ppb	0.9489	55.8	5.3768
Sb 206.834	-2.1296b	ppb	3.9238	184.2	-0.7249
Se 196.026	-5.2637b	ppb	8.1458	154.8	-2.0617
Sn 189.925	-2.0190b	ppb	2.7337	135.4	-0.6682
Sr 216.596	193.641b	ppb	0.9817	0.5	1835.83
Ti 334.941	-0.5666b	ppb	0.0542	9.6	-95.9159
Tl 190.794	3.5292b	ppb	5.0158	142.1	1.2832
V 292.401	0.0296b	ppb	0.1365	461.0	-5.4086
Zn 206.200	0.0784b	ppb	0.7108	196.6	2.9908

E03272013.wvq. All Data Report 3/28/2013, 2:04:12 PM

680-88252-a-5-b^20 (Samp) 3/28/2013, 1:27:33 AM Rack 2, Tube 43

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.5838u	-1.3016u	-1.0851u
Al 308.215	2.6787	2.1385	4.5457
As 188.980	-5.4873u	-7.9985u	-5.1690u
B 249.678	57.2456	59.6586	58.8080
Ba 389.178	-0.6082	-0.8457	-0.9292
Be 313.042	-0.0353u	-0.0371u	-0.0331u
Ca 370.602	30997	31007	31038
Cd 226.502	0.0458	-0.1025u	-0.0570u
Co 228.615	0.3443	-0.5884u	-0.1722u
Cr 267.716	-0.2037u	-0.4123u	-0.4322u
Cu 324.754	-0.3053u	-0.7397u	-0.9051u
Fe 271.441	633.685	647.871	648.861
K 766.491	5997.26	5983.15	5965.27
Mg 279.078	55713.2	55788.9	55855.1
Mn 257.610	79.5285	79.5289	79.6750
Mo 202.032	-1.6779u	-0.8438u	-1.4429u
Na 330.237	215959x	214329x	213471x
Ni 231.604	-2.5461u	-1.8724u	-1.1237u
Pb 220.353	1.9393	1.4534	-0.7332u
Sb 206.834	1.5702	-1.7091u	-4.6068u
Se 196.026	-3.6996u	13.6693	0.3362
Sn 189.925	-2.3221u	-3.8326u	-6.2848u
Sr 216.596	597.628	598.009	601.405
Ti 334.941	-1.0628u	-1.0519u	-1.0470u
Tl 190.794	-5.1743u	4.5050	-3.5106u
V 292.401	-0.4829u	0.1522	-0.2931u
Zn 206.200	1.1189	-0.1349	1.3870

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.9902b	ppb	0.3682	37.2	-127.003
Al 308.215	3.1210b	ppb	1.2631	40.5	261.485
As 188.980	-6.2183b	ppb	1.5499	24.9	-1.0820
B 249.678	58.5707b	ppb	1.2239	2.1	894.266
Ba 389.178	-0.7944b	ppb	0.1666	21.0	114.242
Be 313.042	-0.0352b	ppb	0.0020	5.6	-258.134
Ca 370.602	31014b	ppb	21.12	0.1	100056
Cd 226.502	-0.0379b	ppb	0.0760	200.5	12.6502
Co 228.615	-0.1388b	ppb	0.4673	336.7	12.0996
Cr 267.716	-0.3494b	ppb	0.1266	36.2	-1.3761
Cu 324.754	-0.6500b	ppb	0.3098	47.7	76.5440
Fe 271.441	643.472b	ppb	8.4906	1.3	1080.94
K 766.491	5981.89b	ppb	16.0340	0.3	293810
Mg 279.078	55785.7b	ppb	70.9785	0.1	113643
Mn 257.610	79.5775b	ppb	0.0845	0.1	18423.3
Mo 202.032	-1.3215b	ppb	0.4301	32.5	6.7185
Na 330.237	214586xb	ppb	1264.29	0.6	10892.8
Ni 231.604	-1.8474b	ppb	0.7115	38.5	-3.4049
Pb 220.353	0.8865b	ppb	1.4235	160.6	3.9199
Sb 206.834	-1.5819b	ppb	3.0905	195.4	-0.2004
Se 196.026	3.4353b	ppb	9.0897	264.6	1.7622
Sn 189.925	-4.1465b	ppb	2.0000	48.2	-2.2393
Sr 216.596	599.014b	ppb	2.0795	0.3	5655.50
Ti 334.941	-1.0539b	ppb	0.0081	0.8	-84.8590
Tl 190.794	-1.3933b	ppb	5.1753	371.4	-1.2783
V 292.401	-0.2080b	ppb	0.3260	156.8	-12.2895
Zn 206.200	0.7903b	ppb	0.8124	102.8	4.2061

E03272013.wvq. All Data Report 3/28/2013, 2:04:12 PM

680-88252-a-6-b (Samp) 3/28/2013, 1:32:58 AM Rack 2, Tube 44

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.7152u	-0.0065u	0.2704
Al 308.215	0.2808	2.4737	-1.9203u
As 188.980	-4.6475u	-2.5213u	-6.6610u
B 249.678	-28.8031u	-28.6785u	-29.1560u
Ba 389.178	-0.6001u	0.0912	-0.5868u
Be 313.042	-0.0348u	-0.0339u	-0.0436u
Ca 370.602	3.668	-0.5513u	4.959
Cd 226.502	-0.1572u	-0.0887u	-0.2298u
Co 228.615	0.5489	-0.1759u	-0.4030u
Cr 267.716	-0.1149u	-0.3606u	-0.4501u
Cu 324.754	0.1559	-0.8484u	-0.4789u
Fe 271.441	-2.3133u	-5.7250u	-4.4253u
K 766.491	1.2067	0.7444	0.9338
Mg 279.078	-0.9455u	0.7245	4.2683
Mn 257.610	-0.1973u	-0.2118u	-0.1915u
Mo 202.032	-0.8658u	-1.2724u	-1.5570u
Na 330.237	173.468	159.906	131.345
Ni 231.604	0.1435	-0.5341u	1.5780
Pb 220.353	0.7559	0.3371	-0.6727u
Sb 206.834	-3.4294u	1.1844	1.0155
Se 196.026	-3.9754u	-4.3913u	-5.0604u
Sn 189.925	-1.7499u	-1.1505u	-0.9355u
Sr 216.596	0.4065	-0.6809u	0.1815
Ti 334.941	-0.1820u	-0.2377u	-0.1714u
Tl 190.794	3.9561	-2.4118u	-5.5096u
V 292.401	0.2331	0.2420	0.4807
Zn 206.200	0.3380	-0.8863u	-0.0016u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1505	ppb	0.5083	337.9	-42.5059
Al 308.215	0.2781	ppb	2.1970	790.0	245.163
As 188.980	-4.6099	ppb	2.0701	44.9	-0.4316
B 249.678	-28.8792	ppb	0.2477	0.9	93.8802
Ba 389.178	-0.3652	ppb	0.3953	108.3	-27.1181
Be 313.042	-0.0375	ppb	0.0054	14.3	-245.008
Ca 370.602	2.692	ppb	2.882	107.1	4.882
Cd 226.502	-0.1586	ppb	0.0706	44.5	7.3556
Co 228.615	-0.0100	ppb	0.4971	4966.6	13.5972
Cr 267.716	-0.3085	ppb	0.1736	56.3	-3.4987
Cu 324.754	-0.3905	ppb	0.5079	130.1	88.8790
Fe 271.441	-4.1546	ppb	1.7219	41.4	-4.4549
K 766.491	0.9616	ppb	0.2324	24.2	272.471
Mg 279.078	1.3491	ppb	2.6624	197.3	24.5549
Mn 257.610	-0.2002	ppb	0.0105	5.2	26.2783
Mo 202.032	-1.2317	ppb	0.3474	28.2	7.3260
Na 330.237	154.906	ppb	21.5019	13.9	4.0647
Ni 231.604	0.3958	ppb	1.0784	272.4	1.8856
Pb 220.353	0.1401	ppb	0.7344	524.2	2.7025
Sb 206.834	-0.4098	ppb	2.6164	638.4	0.9077
Se 196.026	-4.4757	ppb	0.5474	12.2	-1.8840
Sn 189.925	-1.2786	ppb	0.4220	33.0	-0.1529
Sr 216.596	-0.0310	ppb	0.5740	1852.8	10.2281
Ti 334.941	-0.1970	ppb	0.0356	18.1	-80.3358
Tl 190.794	-1.3218	ppb	4.8261	365.1	-1.1305
V 292.401	0.3186	ppb	0.1405	44.1	3.3146
Zn 206.200	-0.1833	ppb	0.6321	344.8	2.4838



E03272013.vvq. All Data Report 3/28/2013, 2:04:12 PM

680-88252-a-6-bSD^5 (Samp) 3/28/2013, 1:38:24 AM Rack 2, Tube 45

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.0658	0.0684	-0.3429u
Al 308.215	0.5811	-1.8638u	0.2699
As 188.980	-2.2975u	-5.4846u	-5.9239u
B 249.678	-32.5723u	-31.8974u	-31.5104u
Ba 389.178	-1.0127u	-0.7964u	0.0843
Be 313.042	-0.0418u	-0.0328u	-0.0401u
Ca 370.602	1.603	0.0447	-2.394u
Cd 226.502	-0.0849u	-0.1127u	-0.0555u
Co 228.615	0.0579	0.2597	0.3318
Cr 267.716	-0.1856u	0.0658	-0.3563u
Cu 324.754	0.1103	0.6042	0.0399
Fe 271.441	3.7319	1.3646	-4.6437u
K 766.491	0.3630	0.1931	0.3240
Mg 279.078	2.4687	1.7137	0.2210
Mn 257.610	-0.0626u	-0.0763u	-0.1257u
Mo 202.032	-1.0674u	-1.0835u	-0.6389u
Na 330.237	215.364	336.982	-36.9312u
Ni 231.604	-0.2451u	0.2153	-1.2707u
Pb 220.353	2.4296	-0.1699u	-1.3463u
Sb 206.834	-3.3409u	5.7676	-2.9236u
Se 196.026	5.6493	-5.1241u	-10.8875u
Sn 189.925	-4.3520u	-3.2544u	-4.0807u
Sr 216.596	-0.0623u	-0.4277u	-0.2409u
Ti 334.941	-0.3136u	-0.2897u	-0.2242u
Tl 190.794	0.7135	0.7585	-6.2890u
V 292.401	0.0204	-0.0700u	0.2892
Zn 206.200	-0.8510u	-0.0182u	-1.1151u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0695	ppb	0.2367	340.4	-36.8600
Al 308.215	-0.3376	ppb	1.3308	394.2	241.661
As 188.980	-4.5687	ppb	1.9791	43.3	-0.4092
B 249.678	-31.9934	ppb	0.5374	1.7	65.3613
Ba 389.178	-0.5750	ppb	0.5811	101.1	-32.1420
Be 313.042	-0.0382	ppb	0.0048	12.4	-246.497
Ca 370.602	-0.2485	ppb	2.015	810.7	-4.234
Cd 226.502	-0.0844	ppb	0.0286	33.9	9.9850
Co 228.615	0.2165	ppb	0.1420	65.6	16.1825
Cr 267.716	-0.1587	ppb	0.2123	133.8	2.7663
Cu 324.754	0.2515	ppb	0.3075	122.3	119.878
Fe 271.441	0.1509	ppb	4.3177	2860.4	2.7101
K 766.491	0.2934	ppb	0.0890	30.3	239.673
Mg 279.078	1.4678	ppb	1.1439	77.9	24.7942
Mn 257.610	-0.0882	ppb	0.0332	37.6	51.6603
Mo 202.032	-0.9300	ppb	0.2522	27.1	9.2749
Na 330.237	171.805	ppb	190.725	111.0	4.9313
Ni 231.604	-0.4335	ppb	0.7607	175.5	-0.0749
Pb 220.353	0.3045	ppb	1.9321	634.6	2.9669
Sb 206.834	-0.1656	ppb	5.1426	3104.7	1.1408
Se 196.026	-3.4541	ppb	8.3939	243.0	-1.4158
Sn 189.925	-3.8957	ppb	0.5717	14.7	-2.1320
Sr 216.596	-0.2436	ppb	0.1827	75.0	8.2284
Ti 334.941	-0.2758	ppb	0.0463	16.8	-100.430
Tl 190.794	-1.6057	ppb	4.0560	252.6	-1.3180
V 292.401	0.0799	ppb	0.1868	233.9	-3.2950
Zn 206.200	-0.6614	ppb	0.5725	186.6	5.157576

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**680-88252-a-6-bPDS (Samp)**      **3/28/2013, 1:43:50 AM**      **Rack 2, Tube 46****Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	48.9236	49.5031	50.3020
Al 308.215	1953.03	1934.43	1952.83
As 188.980	2122.23	2130.24	2132.48
B 249.678	1009.93	1010.78	1023.00
Ba 389.178	2058.08	2044.18	2059.26
Be 313.042	50.7931	50.4960	50.8223
Ca 370.602	4988	4950	5002
Cd 226.502	51.0630	50.2714	50.8540
Co 228.615	515.051	513.179	516.401
Cr 267.716	201.950	201.711	202.904
Cu 324.754	252.600	249.356	251.597
Fe 271.441	1016.50	1011.35	1009.54
K 766.491	5173.52	5131.42	5171.03
Mg 279.078	5098.03	5059.50	5101.21
Mn 257.610	518.395	515.005	517.925
Mo 202.032	510.335	511.415	508.661
Na 330.237	4881.44	4881.06	4853.21
Ni 231.604	503.301	501.251	506.505
Pb 220.353	507.814	499.777	511.028
Sb 206.834	497.619	495.630	495.313
Se 196.026	2015.89	2025.76	2009.20
Sn 189.925	1032.28	1028.93	1042.64
Sr 216.596	523.235	518.385	523.048
Ti 334.941	1014.22	1009.60	1019.10
Tl 190.794	2092.62	2090.92	2100.52
V 292.401	507.549	503.445	505.702
Zn 206.200	495.775	494.368	495.577

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	49.5762	ppb	0.6921	1.4	3416.36
Al 308.215	1946.77	ppb	10.6807	0.5	11448.1
As 188.980	2128.32	ppb	5.3908	0.3	1157.47
B 249.678	1014.57	ppb	7.3137	0.7	9649.96
Ba 389.178	2053.84	ppb	8.3851	0.4	49144.2
Be 313.042	50.7038	ppb	0.1805	0.4	97884.9
Ca 370.602	4980	ppb	27.14	0.5	16193
Cd 226.502	50.7295	ppb	0.4102	0.8	1821.37
Co 228.615	514.877	ppb	1.6183	0.3	5911.30
Cr 267.716	202.188	ppb	0.6310	0.3	8461.07
Cu 324.754	251.184	ppb	1.6609	0.7	12244.3
Fe 271.441	1012.46	ppb	3.6089	0.4	1782.20
K 766.491	5158.66	ppb	23.6226	0.5	253407
Mg 279.078	5086.25	ppb	23.2157	0.5	10372.9
Mn 257.610	517.108	ppb	1.8364	0.4	117360
Mo 202.032	510.137	ppb	1.3879	0.3	3307.89
Na 330.237	4871.90	ppb	16.1926	0.3	231.908
Ni 231.604	503.686	ppb	2.6479	0.5	1191.56
Pb 220.353	506.206	ppb	5.7952	1.1	815.593
Sb 206.834	496.187	ppb	1.2498	0.3	471.088
Se 196.026	2016.95	ppb	8.3286	0.4	924.719
Sn 189.925	1034.62	ppb	7.1466	0.7	783.195
Sr 216.596	521.556	ppb	2.7479	0.5	4900.21
Ti 334.941	1014.31	ppb	4.7498	0.5	258671
Tl 190.794	2094.69	ppb	5.1227	0.2	1382.06
V 292.401	505.565	ppb	2.0555	0.4	13804.0
Zn 206.200	495.240	ppb	0.7615	0.2	753.642

E03272013.vvq. All Data Report 3/28/2013, 2:04:12 PM

680-88313-a-1-b^20 (Samp) 3/28/2013, 1:49:16 AM Rack 2, Tube 47

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.0368u	-1.6045u	0.4947
Al 308.215	0.1967	1.1878	1.3802
As 188.980	-4.2151u	-3.0400u	-3.9229u
B 249.678	14.2707	12.3388	9.6084
Ba 389.178	-0.1319u	-0.9619u	0.5918
Be 313.042	-0.0379u	-0.0439u	-0.0272u
Ca 370.602	9690	9670	9687
Cd 226.502	-0.1316u	-0.1216u	-0.1806u
Co 228.615	-0.0572u	-0.1445u	0.1763
Cr 267.716	0.3471	0.6997	0.7249
Cu 324.754	-0.5417u	0.0011	0.1168
Fe 271.441	10.7117	8.1687	7.8520
K 766.491	853.523	851.551	854.542
Mg 279.078	713.128	709.809	706.783
Mn 257.610	61.1699	61.0233	61.2788
Mo 202.032	-0.9652u	-0.5354u	-0.2262u
Na 330.237	7795.11	7687.24	7623.29
Ni 231.604	0.6360	1.2572	1.3904
Pb 220.353	-0.5338u	-2.0634u	-0.4369u
Sb 206.834	-4.2545u	0.3823	-6.5814u
Se 196.026	6.8148	2.4028	-11.1116u
Sn 189.925	-1.3312u	-3.9588u	-0.8486u
Sr 216.596	44.9557	43.8164	44.2213
Ti 334.941	0.1652	0.2403	0.1233
Tl 190.794	-4.5157u	5.3594	5.2554
V 292.401	1.1155	1.1251	0.8336
Zn 206.200	1.4177	1.1624	1.7902

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.3822	ppb	1.0914	285.6	-60.3364
Al 308.215	0.9216	ppb	0.6350	68.9	248.927
As 188.980	-3.7260	ppb	0.6118	16.4	0.1192
B 249.678	12.0726	ppb	2.3425	19.4	468.957
Ba 389.178	-0.1673	ppb	0.7775	464.6	-20.4540
Be 313.042	-0.0363	ppb	0.0085	23.4	-240.525
Ca 370.602	9682	ppb	10.65	0.1	31251
Cd 226.502	-0.1446	ppb	0.0316	21.9	7.8402
Co 228.615	-0.0085	ppb	0.1658	1953.4	13.6045
Cr 267.716	0.5906	ppb	0.2112	35.8	34.4350
Cu 324.754	-0.1413	ppb	0.3516	248.9	100.925
Fe 271.441	8.9108	ppb	1.5677	17.6	17.3702
K 766.491	853.205	ppb	1.5210	0.2	42099.7
Mg 279.078	709.906	ppb	3.1733	0.4	1466.77
Mn 257.610	61.1573	ppb	0.1282	0.2	13943.5
Mo 202.032	-0.5756	ppb	0.3711	64.5	11.5604
Na 330.237	7701.88	ppb	86.8434	1.1	387.290
Ni 231.604	1.0945	ppb	0.4027	36.8	3.5373
Pb 220.353	-1.0113	ppb	0.9124	90.2	0.8619
Sb 206.834	-3.4845	ppb	3.5451	101.7	-2.0285
Se 196.026	-0.6313	ppb	9.3404	1479.5	-0.1079
Sn 189.925	-2.0462	ppb	1.6739	81.8	-0.7272
Sr 216.596	44.3311	ppb	0.5776	1.3	428.902
Ti 334.941	0.1763	ppb	0.0593	33.6	17.2360
Tl 190.794	2.0330	ppb	5.6716	279.0	1.0242
V 292.401	1.0248	ppb	0.1656	16.2	22.4933
Zn 206.200	1.4568	ppb	0.3157	21.7	5.0458

680-88313-a-2-b^20 (Samp) 3/28/2013, 1:54:42 AM Rack 2, Tube 48

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.1228u	-0.9237u	-0.6794u
Al 308.215	4.0830	2.3605	-0.0409u
As 188.980	0.3037	-5.6420u	-11.9502u
B 249.678	-10.8756u	-12.5047u	-13.5805u
Ba 389.178	0.0747	0.8078	0.0770
Be 313.042	-0.0378u	-0.0507u	-0.0428u
Ca 370.602	28294	28227	28292
Cd 226.502	-0.1255u	-0.1851u	-0.1407u
Co 228.615	-1.1518u	0.1709	0.4557
Cr 267.716	0.2870	-0.1650u	0.1693
Cu 324.754	-1.1842u	-1.0411u	-0.5977u
Fe 271.441	18.6658	22.2758	17.7264
K 766.491	2715.62	2720.73	2723.35
Mg 279.078	1039.81	1036.43	1042.74
Mn 257.610	29.6621	29.6684	29.7186
Mo 202.032	-0.5126u	-1.4225u	-1.0037u
Na 330.237	13011.2	13104.0	13072.1
Ni 231.604	0.8601	1.2221	-2.2094u
Pb 220.353	-1.3397u	-4.2254u	-0.4663u
Sb 206.834	-4.6794u	-5.9594u	0.2692
Se 196.026	6.1788	3.5321	4.2930
Sn 189.925	-4.0157u	-2.3109u	-2.0616u
Sr 216.596	122.086	121.093	122.188
Ti 334.941	-0.0175u	0.0088	-0.0202u
Tl 190.794	2.4729	-1.1025u	-0.1277u
V 292.401	1.3197	1.4305	1.1399
Zn 206.200	-0.1273	0.5331	-0.0984

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.5753	ppb	0.4105	71.3	-77.2245
Al 308.215	2.1342	ppb	2.0712	97.0	255.807
As 188.980	-5.7628	ppb	6.1278	106.3	-0.8501
B 249.678	-12.3203	ppb	1.3618	11.1	245.534
Ba 389.178	0.3198	ppb	0.4226	132.1	-7.8940
Be 313.042	-0.0438	ppb	0.0065	14.8	-249.081
Ca 370.602	28271	ppb	38.19	0.1	91252
Cd 226.502	-0.1504	ppb	0.0310	20.6	7.6276
Co 228.615	-0.1750	ppb	0.8578	490.0	11.7089
Cr 267.716	0.0971	ppb	0.2345	241.5	13.7722
Cu 324.754	-0.9410	ppb	0.3058	32.5	62.3007
Fe 271.441	19.5560	ppb	2.4018	12.3	35.2161
K 766.491	2719.90	ppb	3.9332	0.1	133715
Mg 279.078	1039.66	ppb	3.1549	0.3	2138.89
Mn 257.610	29.6830	ppb	0.0310	0.1	6808.52
Mo 202.032	-0.9796	ppb	0.4554	46.5	8.9512
Na 330.237	13062.5	ppb	47.1235	0.4	659.512
Ni 231.604	-0.0424	ppb	1.8854	4442.9	0.8499
Pb 220.353	-2.0105	ppb	1.9673	97.9	-0.7515
Sb 206.834	-3.4565	ppb	3.2895	95.2	-2.0015
Se 196.026	4.6680	ppb	1.3626	29.2	2.3137
Sn 189.925	-2.7960	ppb	1.0636	38.0	-1.2855
Sr 216.596	121.789	ppb	0.6049	0.5	1160.14
Ti 334.941	-0.0096	ppb	0.0160	166.8	-29.2007
Tl 190.794	0.4142	ppb	1.8482	446.2	-0.0140
V 292.401	1.2967	ppb	0.1467	11.3	30.0524
Zn 206.200	0.1025	ppb	0.3732	364.1	2.1393

E03272013.wvq. All Data Report 3/28/2013, 2:04:12 PM

Cont Calib Verif (CCV)                      3/28/2013, 2:00:08 AM                      Rack 2, Tube 49  
 Weight: 1                                      Volume: 1                                      Dilution: 1

Label	Replicates Concentration		
Ag 328.068	498.078	495.540	493.732
Al 308.215	4950.15	4961.33	4972.54
As 188.980	460.783	465.009	473.552
B 249.678	2477.66	2505.22	2524.54
Ba 389.178	4882.29	4895.31	4905.98
Be 313.042	487.249	488.873	489.069
Ca 370.602	4882	4909	4905
Cd 226.502	487.214	488.385	488.071
Co 228.615	491.957	491.381	493.892
Cr 267.716	4881.48	4892.66	4904.04
Cu 324.754	4789.28	4856.50	4877.28
Fe 271.441	4921.17	4926.56	4937.44
K 766.491	9901.38	9955.71	9974.74
Mg 279.078	4871.07	4875.28	4883.20
Mn 257.610	4934.03	4945.51	4953.54
Mo 202.032	482.781	486.343	485.858
Na 330.237	7585.11	7520.52	7387.07
Ni 231.604	2445.95	2457.48	2463.09
Pb 220.353	488.715	486.904	482.513
Sb 206.834	905.160	906.787	912.026
Se 196.026	4804.16	4820.78	4845.72
Sn 189.925	4958.13	4963.17	4949.84
Sr 216.596	2435.82	2439.85	2445.91
Ti 334.941	491.869	494.046	494.344
Tl 190.794	4907.09	4929.02	4922.21
V 292.401	4889.81	4909.47	4910.49
Zn 206.200	2436.14	2428.30	2447.96

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	495.783	ppb	2.1835	0.4	34567.4	99.15667
Al 308.215	4961.34	ppb	11.1931	0.2	28626.5	99.22680
As 188.980	466.448	ppb	6.5049	1.4	255.191	93.28956
B 249.678	2502.47	ppb	23.5614	0.9	23274.3	100.09895
Ba 389.178	4894.53	ppb	11.8650	0.2	117130	97.89051
Be 313.042	488.397	ppb	0.9993	0.2	945061	97.67943
Ca 370.602	4899	ppb	14.80	0.3	15676	97.97040
Cd 226.502	487.890	ppb	0.6062	0.1	17392.5	97.57800
Co 228.615	492.410	ppb	1.3155	0.3	5654.04	98.48202
Cr 267.716	4892.73	ppb	11.2824	0.2	204523	97.85457
Cu 324.754	4841.02	ppb	45.9950	1.0	233807	96.82039
Fe 271.441	4928.39	ppb	8.2833	0.2	8382.30	98.56783
K 766.491	9943.94	ppb	38.0668	0.4	488263	99.43945
Mg 279.078	4876.52	ppb	6.1590	0.1	9877.06	97.53030
Mn 257.610	4944.36	ppb	9.8059	0.2	1121277	98.88718
Mo 202.032	484.994	ppb	1.9320	0.4	3138.01	96.99884
Na 330.237	7497.56	ppb	100.997	1.3	353.823	99.96753
Ni 231.604	2455.51	ppb	8.7392	0.4	5805.27	98.22033
Pb 220.353	486.044	ppb	3.1894	0.7	784.340	97.20883
Sb 206.834	907.991	ppb	3.5875	0.4	912.736	90.79910
Se 196.026	4823.55	ppb	20.9166	0.4	2212.10	96.47108
Sn 189.925	4957.04	ppb	6.7270	0.1	3749.34	99.14090
Sr 216.596	2440.53	ppb	5.0788	0.2	22948.1	97.62109
Ti 334.941	493.420	ppb	1.3508	0.3	125828	98.68391
Tl 190.794	4919.44	ppb	11.2248	0.2	3243.65	98.38884
V 292.401	4903.26	ppb	11.6583	0.2	134474	98.06514
Zn 206.200	2437.46	ppb	9.8962	0.4	3686.71	97.49860

E03272013.vvq. All Data Report 3/28/2013, 2:04:12 PM

Cont Calib Blank (CCB) 3/28/2013, 2:05:33 AM Rack 2, Tube 50

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.7496u	-0.4652u	-0.3037u
Al 308.215	0.5938	-1.7145u	-0.5887u
As 188.980	-5.3819u	-5.9563u	-0.4674u
B 249.678	33.6800	28.1810	21.3147
Ba 389.178	-0.0364u	0.3872	-0.7953u
Be 313.042	-0.0334u	-0.0372u	-0.0332u
Ca 370.602	-4.137u	-2.556u	2.053
Cd 226.502	-0.1206u	-0.0909u	-0.1826u
Co 228.615	0.0659	-0.7674u	-0.1252u
Cr 267.716	-0.2865u	-0.3749u	-0.3486u
Cu 324.754	0.0928	-0.1203u	-0.1768u
Fe 271.441	6.5390	-1.5414u	-6.7505u
K 766.491	-0.1314u	-0.5881u	-0.5725u
Mg 279.078	-1.9941u	1.1957	1.4580
Mn 257.610	-0.1388u	-0.1322u	-0.1414u
Mo 202.032	0.1375	0.5315	-0.7188u
Na 330.237	251.827	-72.5277u	223.537
Ni 231.604	-1.0549u	0.8407	-0.1845u
Pb 220.353	-1.0226u	-0.1259u	-2.8544u
Sb 206.834	3.0122	3.1978	-5.3161u
Se 196.026	-12.7331u	4.1067	-13.1310u
Sn 189.925	2.2495	-3.7090u	-2.3562u
Sr 216.596	-1.0181u	-0.1266u	-0.1344u
Ti 334.941	-0.1663u	-0.1011u	-0.1363u
Tl 190.794	3.0010	-3.0019u	-0.5943u
V 292.401	0.2916	0.6406	0.4455
Zn 206.200	0.3293	0.5280	-0.0578u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	-0.5062	ppb	0.2258	44.6	-67.3761	-0.50618
Al 308.215	-0.5698	ppb	1.1543	202.6	240.452	-0.56982
As 188.980	-3.9352	ppb	3.0169	76.7	-0.0655	-3.93518
B 249.678	27.7252	ppb	6.1952	22.3	612.329	27.72523
Ba 389.178	-0.1482	ppb	0.5991	404.3	-21.9239	-0.14818
Be 313.042	-0.0346	ppb	0.0022	6.5	-239.628	-0.03459
Ca 370.602	-1.547	ppb	3.216	207.9	-8.636	-1.54691
Cd 226.502	-0.1314	ppb	0.0468	35.6	8.3200	-0.13136
Co 228.615	-0.2756	ppb	0.4365	158.4	10.5257	-0.27556
Cr 267.716	-0.3367	ppb	0.0454	13.5	-4.6765	-0.33668
Cu 324.754	-0.0681	ppb	0.1422	208.8	104.472	-0.06808
Fe 271.441	-0.5843	ppb	6.6962	1146.0	1.4342	-0.58431
K 766.491	-0.4307	ppb	0.2593	60.2	204.137	-0.43068
Mg 279.078	0.2199	ppb	1.9218	874.1	22.2537	0.21987
Mn 257.610	-0.1374	ppb	0.0048	3.5	40.4976	-0.13745
Mo 202.032	-0.0166	ppb	0.6392	3851.9	15.1709	-0.01660
Na 330.237	134.279	ppb	179.658	133.8	3.0143	134.27893
Ni 231.604	-0.1329	ppb	0.9489	713.9	0.6357	-0.13292
Pb 220.353	-1.3343	ppb	1.3907	104.2	0.3292	-1.33430
Sb 206.834	0.2980	ppb	4.8628	1632.0	1.5697	0.29796
Se 196.026	-7.2525	ppb	9.8393	135.7	-3.1567	-7.25246
Sn 189.925	-1.2719	ppb	3.1237	245.6	-0.1479	-1.27191
Sr 216.596	-0.4264	ppb	0.5125	120.2	6.4821	-0.42636
Ti 334.941	-0.1346	ppb	0.0326	24.2	-64.4121	-0.13460
Tl 190.794	-0.1984	ppb	3.0210	1522.6	-0.3895	-0.19841
V 292.401	0.4593	ppb	0.1749	38.1	6.9659	0.45927
Zn 206.200	0.2665	ppb	0.2979	111.8	2.1661	0.26649

E03272013.wvq. All Data Report 3/28/2013, 2:04:12 PM

680-88313-a-3-b^20 (Samp)      3/28/2013, 2:10:59 AM      Rack 2, Tube 51  
 Weight: 1      Volume: 1      Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.6760u	-0.5982u	-1.1331u
Al 308.215	2.7278	4.5177	5.6231
As 188.980	-2.1390u	-1.8337u	-0.8516u
B 249.678	304.001	305.505	305.527
Ba 389.178	-0.3358	-0.2563	-0.8032
Be 313.042	-0.0103u	-0.0130u	0.0013u
Ca 370.602	21272	21272	21318
Cd 226.502	-0.0883u	0.1246	-0.0425u
Co 228.615	-0.1958u	1.2795	0.9775
Cr 267.716	-0.3829u	-0.3122u	-0.1515
Cu 324.754	0.2933	-0.3571u	-0.1834u
Fe 271.441	19.9651	16.5810	13.9072
K 766.491	17324.2	17331.8	17418.0
Mg 279.078	54601.9	54557.6	54580.6
Mn 257.610	34.9368	34.8919	34.9600
Mo 202.032	-0.1447u	-0.5659u	-0.9086u
Na 330.237	562036x	562001x	564364x
Ni 231.604	0.5810	1.6004	2.8599
Pb 220.353	0.9536	-0.9928u	1.3994
Sb 206.834	2.0433	-2.9732u	-2.0530u
Se 196.026	8.4523	3.0707	-2.6726u
Sn 189.925	-3.6588u	-0.5483u	-4.1281u
Sr 216.596	226.622	229.462	226.211
Ti 334.941	-0.9197u	-0.8419u	-1.0277u
Tl 190.794	2.7280	1.7318	0.0683
V 292.401	-0.1390u	0.3487	0.4014
Zn 206.200	1.9072	2.5081	1.9018

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.8024b	ppb	0.2890	36.0	-98.2573
Al 308.215	4.2895b	ppb	1.4611	34.1	268.238
As 188.980	-1.6081b	ppb	0.6727	41.8	1.3540
B 249.678	305.011b	ppb	0.8747	0.3	3152.02
Ba 389.178	-0.4651b	ppb	0.2955	63.5	117.771
Be 313.042	-0.0073b	ppb	0.0076	103.9	-250.442
Ca 370.602	21287b	ppb	26.17	0.1	68709
Cd 226.502	-0.0021b	ppb	0.1121	5397.0	10.5825
Co 228.615	0.6871b	ppb	0.7794	113.4	21.5569
Cr 267.716	-0.2822b	ppb	0.1186	42.0	6.6292
Cu 324.754	-0.0824b	ppb	0.3367	408.6	103.783
Fe 271.441	16.8178b	ppb	3.0359	18.1	30.7685
K 766.491	17358.0b	ppb	52.1221	0.3	852138
Mg 279.078	54580.1b	ppb	22.1575	0.0	111188
Mn 257.610	34.9295b	ppb	0.0346	0.1	8288.45
Mo 202.032	-0.5397b	ppb	0.3826	70.9	11.7929
Na 330.237	562800xb	ppb	1354.14	0.2	28575.6
Ni 231.604	1.6804b	ppb	1.1415	67.9	4.9225
Pb 220.353	0.4534b	ppb	1.2721	280.6	3.2129
Sb 206.834	-0.9943b	ppb	2.6706	268.6	0.3419
Se 196.026	2.9501b	ppb	5.5634	188.6	1.5279
Sn 189.925	-2.7784b	ppb	1.9455	70.0	-1.0939
Sr 216.596	227.432b	ppb	1.7700	0.8	2154.47
Ti 334.941	-0.9298b	ppb	0.0933	10.0	-83.6595
Tl 190.794	1.5094b	ppb	1.3437	89.0	0.7021
V 292.401	0.2037b	ppb	0.2980	146.3	-3.9039
Zn 206.200	2.1057b	ppb	0.3485	16.5	6.1240

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680-88313-a-4-b^20 (Samp) 3/28/2013, 2:16:25 AM Rack 2, Tube 52

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.8913u	-0.6701u	-0.7350u
Al 308.215	5.4355	4.6654	6.2378
As 188.980	-8.8154u	-8.9890u	-3.6421u
B 249.678	356.778	359.903	360.178
Ba 389.178	-1.2991	-0.5232	-0.9236
Be 313.042	-0.0145u	-0.0105u	-0.0089u
Ca 370.602	23051	23034	22976
Cd 226.502	0.2275	0.2001	-0.0027u
Co 228.615	0.7443	0.3701	0.7498
Cr 267.716	-0.3786u	-0.4757u	-0.6188u
Cu 324.754	0.6574	0.5494	0.3859
Fe 271.441	20.3263	14.9018	25.7909
K 766.491	22632.9	22707.6	22744.6
Mg 279.078	59528.8	59399.8	59374.5
Mn 257.610	94.8287	94.7868	94.7743
Mo 202.032	-0.6412u	-1.2123u	-1.3157u
Na 330.237	683803x	675595x	672644x
Ni 231.604	3.9308	0.4922	0.7884
Pb 220.353	-2.1558u	2.6970	1.2236
Sb 206.834	0.5792	1.0808	-0.7489u
Se 196.026	-5.6289u	-1.3908u	2.9167
Sn 189.925	1.8637	-1.2635u	-3.6059u
Sr 216.596	228.964	229.030	228.781
Ti 334.941	-0.9411u	-0.9937u	-0.9709u
Tl 190.794	3.6527	3.6856	2.6019
V 292.401	-0.0075u	-0.2699u	0.4688
Zn 206.200	2.2654	-0.4996u	0.3244

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.7655b	ppb	0.1137	14.9	-95.5829
Al 308.215	5.4462b	ppb	0.7863	14.4	274.813
As 188.980	-7.1488b	ppb	3.0382	42.5	-1.6412
B 249.678	358.953b	ppb	1.8890	0.5	3646.10
Ba 389.178	-0.9153b	ppb	0.3880	42.4	120.425
Be 313.042	-0.0113b	ppb	0.0029	25.4	-271.784
Ca 370.602	23020b	ppb	39.62	0.2	74305
Cd 226.502	0.1416b	ppb	0.1258	88.8	15.1307
Co 228.615	0.6214b	ppb	0.2177	35.0	20.8204
Cr 267.716	-0.4910b	ppb	0.1208	24.6	-0.0698
Cu 324.754	0.5309b	ppb	0.1367	25.8	133.385
Fe 271.441	20.3397b	ppb	5.4446	26.8	36.6598
K 766.491	22695.0b	ppb	56.8785	0.3	1114073
Mg 279.078	59434.4b	ppb	82.7219	0.1	121074
Mn 257.610	94.7966b	ppb	0.0285	0.0	21890.4
Mo 202.032	-1.0564b	ppb	0.3633	34.4	8.4578
Na 330.237	677347xb	ppb	5782.04	0.9	34392.4
Ni 231.604	1.7371b	ppb	1.9055	109.7	5.0564
Pb 220.353	0.5883b	ppb	2.4880	422.9	3.4429
Sb 206.834	0.3037b	ppb	0.9454	311.3	1.5848
Se 196.026	-1.3677b	ppb	4.2728	312.4	-0.4374
Sn 189.925	-1.0019b	ppb	2.7441	273.9	0.2877
Sr 216.596	228.925b	ppb	0.1293	0.1	2168.69
Ti 334.941	-0.9686b	ppb	0.0264	2.7	-81.3619
Tl 190.794	3.3134b	ppb	0.6164	18.6	1.8350
V 292.401	0.0638b	ppb	0.3745	586.6	-8.5250
Zn 206.200	0.6967b	ppb	1.4196	203.7	4.0005



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680-88313-a-5-d^20 (Samp) 3/28/2013, 2:21:50 AM Rack 2, Tube 53

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.4420u	-1.5661u	-1.6368u
Al 308.215	0.6878	1.0777	-0.1685u
As 188.980	-5.5693u	-0.3522u	-8.7313u
B 249.678	-11.5476u	-11.8048u	-12.0613u
Ba 389.178	286.766	285.775	284.063
Be 313.042	-0.0433u	-0.0360u	-0.0362u
Ca 370.602	6504	6484	6449
Cd 226.502	-0.1321u	-0.0623u	-0.0766u
Co 228.615	0.1943	0.5074	-0.5757u
Cr 267.716	-0.2776u	-0.2785u	-0.3232u
Cu 324.754	-0.5670u	0.1070	-0.6941u
Fe 271.441	0.5689	2.1492	6.4735
K 766.491	2211.15	2213.44	2204.73
Mg 279.078	1702.48	1702.64	1688.10
Mn 257.610	33.0113	33.0075	32.9035
Mo 202.032	-0.5974u	-0.8280u	-1.4953u
Na 330.237	15286.5	15450.6	15109.5
Ni 231.604	-0.1914u	-1.4439u	0.4426
Pb 220.353	-0.5655u	-0.1341u	-1.9136u
Sb 206.834	2.6314	-0.7791u	-1.9913u
Se 196.026	-8.8766u	-6.2299u	-2.1212u
Sn 189.925	0.2078	-4.4768u	-0.4139u
Sr 216.596	90.2660	91.1291	90.0645
Ti 334.941	-0.2264u	-0.2918u	-0.2602u
Tl 190.794	-2.5633u	-1.7560u	-1.1391u
V 292.401	0.2270	0.2362	0.5278
Zn 206.200	1.2459	-0.5268u	-0.7092u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.2150	ppb	0.6703	55.2	-120.619
Al 308.215	0.5323	ppb	0.6375	119.8	246.646
As 188.980	-4.8843	ppb	4.2314	86.6	-0.5329
B 249.678	-11.8046	ppb	0.2568	2.2	250.269
Ba 389.178	285.535	ppb	1.3672	0.5	6818.38
Be 313.042	-0.0385	ppb	0.0041	10.7	-246.924
Ca 370.602	6479	ppb	27.52	0.4	20910
Cd 226.502	-0.0904	ppb	0.0369	40.8	9.7297
Co 228.615	0.0420	ppb	0.5574	1327.5	14.1864
Cr 267.716	-0.2931	ppb	0.0261	8.9	-2.4889
Cu 324.754	-0.3847	ppb	0.4305	111.9	89.1651
Fe 271.441	3.0639	ppb	3.0568	99.8	7.5705
K 766.491	2209.77	ppb	4.5174	0.2	108679
Mg 279.078	1697.74	ppb	8.3511	0.5	3479.19
Mn 257.610	32.9741	ppb	0.0612	0.2	7558.09
Mo 202.032	-0.9736	ppb	0.4663	47.9	8.9926
Na 330.237	15282.2	ppb	170.591	1.1	772.240
Ni 231.604	-0.3976	ppb	0.9600	241.5	0.0102
Pb 220.353	-0.8711	ppb	0.9283	106.6	1.0825
Sb 206.834	-0.0463	ppb	2.3969	5173.9	1.2536
Se 196.026	-5.7426	ppb	3.4040	59.3	-2.4571
Sn 189.925	-1.5610	ppb	2.5443	163.0	-0.3590
Sr 216.596	90.4865	ppb	0.5655	0.6	863.375
Ti 334.941	-0.2595	ppb	0.0327	12.6	-90.3688
Tl 190.794	-1.8195	ppb	0.7142	39.3	-1.4915
V 292.401	0.3303	ppb	0.1710	51.8	3.4857
Zn 206.200	0.0033	ppb	1.0890	32700.7	2.8178

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680-88313-a-5-dSD (Samp) 3/28/2013, 2:27:16 AM Rack 2, Tube 54

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.7740u	-0.3439u	-1.2151u
Al 308.215	-0.7936u	-1.1356u	0.3617
As 188.980	-8.8011u	-9.6648u	-3.0985u
B 249.678	-24.9813u	-25.3337u	-26.3682u
Ba 389.178	58.0668	57.4487	55.5071
Be 313.042	-0.0329u	-0.0352u	-0.0342u
Ca 370.602	1301	1293	1278
Cd 226.502	-0.0558u	-0.0227u	0.1336
Co 228.615	0.0603	-0.1185u	-0.1473u
Cr 267.716	-0.0950u	-0.0555u	-0.3096u
Cu 324.754	-0.0452u	0.1987	-0.5166u
Fe 271.441	-0.2310u	-0.7268u	4.0464
K 766.491	443.790	444.811	440.193
Mg 279.078	337.527	344.482	341.814
Mn 257.610	6.4892	6.5339	6.4395
Mo 202.032	-0.7794u	0.0086	-1.4746u
Na 330.237	3348.00	2917.15	3025.03
Ni 231.604	1.3232	-0.7831u	-0.3913u
Pb 220.353	2.4868	0.7760	1.4149
Sb 206.834	4.0984	0.2279	-1.6437u
Se 196.026	-1.4936u	4.5935	2.6239
Sn 189.925	-0.7833u	-1.3800u	1.0406
Sr 216.596	17.9543	17.8490	17.7317
Ti 334.941	-0.2726u	-0.2029u	-0.3729u
Tl 190.794	1.4572	2.7583	0.6926
V 292.401	-0.2145u	0.3852	0.2098
Zn 206.200	-1.6024u	-0.1854u	-0.2248u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.7777	ppb	0.4356	56.0	-87.0964
Al 308.215	-0.5225	ppb	0.7846	150.2	240.624
As 188.980	-7.1881	ppb	3.5680	49.6	-1.8219
B 249.678	-25.5611	ppb	0.7209	2.8	124.272
Ba 389.178	57.0075	ppb	1.3357	2.3	1346.59
Be 313.042	-0.0341	ppb	0.0011	3.3	-238.533
Ca 370.602	1291	ppb	11.28	0.9	4162
Cd 226.502	0.0183	ppb	0.1011	551.5	13.6407
Co 228.615	-0.0685	ppb	0.1125	164.2	12.9166
Cr 267.716	-0.1534	ppb	0.1367	89.1	3.0600
Cu 324.754	-0.1211	ppb	0.3636	300.4	101.897
Fe 271.441	1.0295	ppb	2.6244	254.9	4.1856
K 766.491	442.931	ppb	2.4255	0.5	21963.9
Mg 279.078	341.274	ppb	3.5088	1.0	716.801
Mn 257.610	6.4875	ppb	0.0472	0.7	1544.63
Mo 202.032	-0.7484	ppb	0.7421	99.1	10.4465
Na 330.237	3096.73	ppb	224.197	7.2	153.457
Ni 231.604	0.0496	ppb	1.1202	2258.1	1.0672
Pb 220.353	1.5592	ppb	0.8645	55.4	4.9867
Sb 206.834	0.8942	ppb	2.9284	327.5	2.1504
Se 196.026	1.9080	ppb	3.1061	162.8	1.0433
Sn 189.925	-0.3742	ppb	1.2610	337.0	0.5324
Sr 216.596	17.8450	ppb	0.1113	0.6	178.716
Ti 334.941	-0.2828	ppb	0.0855	30.2	-101.024
Tl 190.794	1.6360	ppb	1.0444	63.8	0.8152
V 292.401	0.1268	ppb	0.3083	243.1	-2.0505
Zn 206.200	-0.6709	ppb	0.8970	132.3	-157.539

E03272013.vvq. All Data Report 3/28/2013, 2:04:12 PM

**680-88313-a-5-dPDS (Samp)**      **3/28/2013, 2:32:41 AM**      **Rack 2, Tube 55****Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	50.4592	50.3625	50.4770
Al 308.215	1964.34	1970.93	1972.78
As 188.980	2127.84	2146.24	2137.56
B 249.678	1026.26	1038.94	1046.13
Ba 389.178	2342.64	2340.61	2341.75
Be 313.042	51.1275	51.1062	51.1917
Ca 370.602	11339	11348	11353
Cd 226.502	51.1104	51.0815	51.4900
Co 228.615	520.783	514.079	515.912
Cr 267.716	202.570	202.291	202.633
Cu 324.754	254.721	254.699	254.440
Fe 271.441	1020.21	1021.28	1019.75
K 766.491	7565.29	7538.79	7523.43
Mg 279.078	6797.57	6805.28	6822.07
Mn 257.610	551.316	550.288	552.112
Mo 202.032	513.637	512.429	513.334
Na 330.237	20874.4	20344.3	20279.8
Ni 231.604	507.487	500.582	509.234
Pb 220.353	504.223	510.206	506.756
Sb 206.834	485.230	498.811	502.000
Se 196.026	2010.02	2015.36	2033.20
Sn 189.925	1049.79	1041.14	1046.21
Sr 216.596	611.816	612.233	615.142
Ti 334.941	1021.64	1018.77	1021.09
Tl 190.794	2087.61	2105.25	2112.58
V 292.401	509.597	508.843	509.209
Zn 206.200	502.045	502.076	506.602

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	50.4329	ppb	0.0617	0.1	3472.24
Al 308.215	1969.35	ppb	4.4364	0.2	11578.0
As 188.980	2137.22	ppb	9.2064	0.4	1162.35
B 249.678	1037.11	ppb	10.0651	1.0	9856.44
Ba 389.178	2341.67	ppb	1.0173	0.0	56035.9
Be 313.042	51.1418	ppb	0.0445	0.1	98732.0
Ca 370.602	11347	ppb	6.947	0.1	36746
Cd 226.502	51.2273	ppb	0.2280	0.4	1839.05
Co 228.615	516.925	ppb	3.4647	0.7	5934.85
Cr 267.716	202.498	ppb	0.1816	0.1	8474.38
Cu 324.754	254.620	ppb	0.1559	0.1	12410.3
Fe 271.441	1020.41	ppb	0.7808	0.1	1795.78
K 766.491	7542.50	ppb	21.1735	0.3	370403
Mg 279.078	6808.31	ppb	12.5252	0.2	13879.8
Mn 257.610	551.239	ppb	0.9144	0.2	125109
Mo 202.032	513.134	ppb	0.6285	0.1	3327.23
Na 330.237	20499.5	ppb	326.310	1.6	1025.33
Ni 231.604	505.767	ppb	4.5747	0.9	1196.48
Pb 220.353	507.062	ppb	3.0029	0.6	816.963
Sb 206.834	495.347	ppb	8.9053	1.8	470.236
Se 196.026	2019.53	ppb	12.1379	0.6	925.910
Sn 189.925	1045.71	ppb	4.3487	0.4	791.593
Sr 216.596	613.064	ppb	1.8119	0.3	5762.49
Ti 334.941	1020.50	ppb	1.5231	0.1	260257
Tl 190.794	2101.81	ppb	12.8311	0.6	1386.73
V 292.401	509.217	ppb	0.3770	0.1	13903.5
Zn 206.200	503.574	ppb	2.6219	0.5	766.336

E03272013.vvq. All Data Report 3/28/2013, 2:04:12 PM

680-88313-a-5-e ms (Samp)      3/28/2013, 2:38:07 AM      Rack 2, Tube 56  
 Weight: 1      Volume: 1      Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.0962	1.8140	0.8217
Al 308.215	256.332	256.939	261.014
As 188.980	-0.0996u	0.7895	1.0380
B 249.678	12.2060	9.9370	9.0321
Ba 389.178	286.959	287.508	289.956
Be 313.042	2.6197	2.6502	2.6667
Ca 370.602	6650	6678	6759
Cd 226.502	2.4495	2.7225	2.3515
Co 228.615	2.7224	2.1497	2.9042
Cr 267.716	5.1307	5.1785	4.9067
Cu 324.754	4.2729	5.2091	4.2977
Fe 271.441	278.718	273.740	272.951
K 766.491	2442.73	2447.35	2457.71
Mg 279.078	1938.58	1944.48	1966.59
Mn 257.610	74.9580	75.5326	75.9028
Mo 202.032	5.3053	4.3996	4.7180
Na 330.237	15369.4	15452.6	15646.8
Ni 231.604	5.1090	6.9864	5.6395
Pb 220.353	3.7088	-0.0844u	1.7153
Sb 206.834	0.5420	-2.5654u	5.8928
Se 196.026	10.9003	7.5146	15.4218
Sn 189.925	11.6198	13.0142	12.6971
Sr 216.596	93.8272	93.0907	97.1073
Ti 334.941	5.1773	5.2451	5.3131
Tl 190.794	4.2336	2.8076	6.9223
V 292.401	5.5687	5.8873	5.5160
Zn 206.200	3.9110	4.5980	7.0028

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.9106	ppb	0.8623	94.7	27.9703
Al 308.215	258.095	ppb	2.5463	1.0	1722.03
As 188.980	0.5760	ppb	0.5981	103.8	2.4294
B 249.678	10.3917	ppb	1.6351	15.7	453.325
Ba 389.178	288.141	ppb	1.5955	0.6	6881.85
Be 313.042	2.6456	ppb	0.0238	0.9	4948.06
Ca 370.602	6696	ppb	56.86	0.8	21590
Cd 226.502	2.5078	ppb	0.1923	7.7	102.839
Co 228.615	2.5921	ppb	0.3937	15.2	43.2904
Cr 267.716	5.0720	ppb	0.1451	2.9	221.960
Cu 324.754	4.5932	ppb	0.5335	11.6	329.695
Fe 271.441	275.136	ppb	3.1265	1.1	464.042
K 766.491	2449.26	ppb	7.6699	0.3	120432
Mg 279.078	1949.89	ppb	14.7670	0.8	3992.07
Mn 257.610	75.4645	ppb	0.4761	0.6	17195.1
Mo 202.032	4.8077	ppb	0.4594	9.6	46.2960
Na 330.237	15489.6	ppb	142.324	0.9	782.610
Ni 231.604	5.9116	ppb	0.9678	16.4	14.9287
Pb 220.353	1.7799	ppb	1.8974	106.6	5.3401
Sb 206.834	1.2898	ppb	4.2784	331.7	2.5283
Se 196.026	11.2789	ppb	3.9671	35.2	5.3548
Sn 189.925	12.4437	ppb	0.7309	5.9	10.2315
Sr 216.596	94.6751	ppb	2.1383	2.3	902.664
Ti 334.941	5.2452	ppb	0.0679	1.3	1314.55
Tl 190.794	4.6545	ppb	2.0894	44.9	2.7327
V 292.401	5.6573	ppb	0.2009	3.6	148.562
Zn 206.200	5.1706	ppb	1.6235	31.4	10.6440

680-88313-a-5-f msd (Samp) 3/28/2013, 2:43:32 AM Rack 2, Tube 57

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	1.3360	1.8174	1.3284
Al 308.215	261.706	263.402	263.829
As 188.980	-3.9695u	-3.2292u	-0.5732u
B 249.678	-4.2426u	-4.9285u	-6.4366u
Ba 389.178	294.706	296.170	294.925
Be 313.042	2.6979	2.6987	2.6971
Ca 370.602	6850	6877	6879
Cd 226.502	2.3256	2.7928	2.4631
Co 228.615	2.6224	2.2743	2.8849
Cr 267.716	5.1199	5.1113	5.0852
Cu 324.754	5.2505	4.7167	4.5785
Fe 271.441	275.036	280.686	275.171
K 766.491	2514.12	2507.40	2504.12
Mg 279.078	2002.64	2008.23	2012.48
Mn 257.610	61.4707	61.5540	61.4320
Mo 202.032	5.2260	3.7868	4.4014
Na 330.237	15892.8	15949.6	15631.0
Ni 231.604	4.5614	5.4688	4.1887
Pb 220.353	3.5594	3.9240	0.9975
Sb 206.834	2.2391	-1.9533u	3.4495
Se 196.026	2.5844	3.6405	-1.0588u
Sn 189.925	12.3726	8.5565	8.1385
Sr 216.596	96.1699	97.2035	97.7766
Ti 334.941	5.0118	5.1370	5.1291
Tl 190.794	-1.1598u	1.1802	2.4024
V 292.401	6.0030	5.6143	5.7821
Zn 206.200	5.1009	6.0134	4.6738

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	1.4939	ppb	0.2802	18.8	68.5742
Al 308.215	262.979	ppb	1.1232	0.4	1749.91
As 188.980	-2.5906	ppb	1.7859	68.9	0.7115
B 249.678	-5.2026	ppb	1.1224	21.6	310.487
Ba 389.178	295.267	ppb	0.7895	0.3	7052.52
Be 313.042	2.6979	ppb	0.0008	0.0	5049.52
Ca 370.602	6869	ppb	16.39	0.2	22148
Cd 226.502	2.5272	ppb	0.2401	9.5	103.547
Co 228.615	2.5938	ppb	0.3063	11.8	43.3286
Cr 267.716	5.1055	ppb	0.0181	0.4	223.311
Cu 324.754	4.8486	ppb	0.3549	7.3	342.010
Fe 271.441	276.964	ppb	3.2235	1.2	467.142
K 766.491	2508.55	ppb	5.0949	0.2	123342
Mg 279.078	2007.78	ppb	4.9354	0.2	4110.21
Mn 257.610	61.4856	ppb	0.0623	0.1	14025.7
Mo 202.032	4.4714	ppb	0.7222	16.2	44.1246
Na 330.237	15824.5	ppb	169.931	1.1	799.615
Ni 231.604	4.7396	ppb	0.6584	13.9	12.1585
Pb 220.353	2.8270	ppb	1.5948	56.4	7.0224
Sb 206.834	1.2451	ppb	2.8352	227.7	2.4927
Se 196.026	1.7220	ppb	2.4655	143.2	0.9714
Sn 189.925	9.6892	ppb	2.3333	24.1	8.1487
Sr 216.596	97.0500	ppb	0.8143	0.8	925.067
Ti 334.941	5.0926	ppb	0.0701	1.4	1275.85
Tl 190.794	0.8076	ppb	1.8101	224.1	0.2070
V 292.401	5.7998	ppb	0.1949	3.4	152.593
Zn 206.200	5.2627	ppb	0.6843	13.0	10.7852

E03272013.vvq. All Data Report 3/28/2013, 2:04:12 PM

680-88313-a-6-b^20 (Samp)      3/28/2013, 2:48:58 AM      Rack 2, Tube 58  
 Weight: 1      Volume: 1      Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.6419u	-1.0963u	-0.4474u
Al 308.215	0.7557	2.5820	2.8945
As 188.980	-1.2000u	-3.8668u	2.6868
B 249.678	-18.0352u	-18.2027u	-18.1379u
Ba 389.178	256.550	256.086	256.461
Be 313.042	-0.0448u	-0.0334u	-0.0371u
Ca 370.602	6036	6007	6025
Cd 226.502	-0.0266u	-0.0760u	0.0145
Co 228.615	-0.5004u	-0.1971u	0.6072
Cr 267.716	-0.0391u	0.0172	0.0613
Cu 324.754	-1.1299u	-0.3862u	-0.6765u
Fe 271.441	11.8223	16.2665	6.3296
K 766.491	2328.89	2316.88	2321.53
Mg 279.078	2229.57	2215.25	2224.66
Mn 257.610	20.8940	20.6996	20.7970
Mo 202.032	-1.3746u	-1.0190u	-1.0421u
Na 330.237	20575.3	20583.8	20703.0
Ni 231.604	1.8844	2.2017	-0.0223u
Pb 220.353	-1.9881u	-1.6112u	0.3519
Sb 206.834	-2.8217u	4.7739	-1.8509u
Se 196.026	-4.4040u	0.5273	1.8429
Sn 189.925	0.2231	-3.5060u	0.1368
Sr 216.596	79.8891	80.8860	81.3138
Ti 334.941	0.6135	0.6061	0.4448
Tl 190.794	2.3363	1.1457	-2.0607u
V 292.401	0.4165	0.7857	0.7109
Zn 206.200	0.4524	1.2953	0.1518

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.7285	ppb	0.3330	45.7	-86.2852
Al 308.215	2.0774	ppb	1.1552	55.6	255.477
As 188.980	-0.7933	ppb	3.2957	415.4	1.6847
B 249.678	-18.1253	ppb	0.0844	0.5	192.370
Ba 389.178	256.366	ppb	0.2461	0.1	6121.86
Be 313.042	-0.0384	ppb	0.0058	15.1	-247.584
Ca 370.602	6023	ppb	14.81	0.2	19436
Cd 226.502	-0.0294	ppb	0.0453	154.1	11.8957
Co 228.615	-0.0301	ppb	0.5724	1901.3	13.3862
Cr 267.716	0.0131	ppb	0.0503	383.8	10.3517
Cu 324.754	-0.7309	ppb	0.3748	51.3	72.4478
Fe 271.441	11.4728	ppb	4.9777	43.4	21.6542
K 766.491	2322.44	ppb	6.0555	0.3	114208
Mg 279.078	2223.16	ppb	7.2788	0.3	4549.55
Mn 257.610	20.7969	ppb	0.0972	0.5	4799.67
Mo 202.032	-1.1452	ppb	0.1990	17.4	7.8834
Na 330.237	20620.7	ppb	71.3520	0.3	1043.32
Ni 231.604	1.3546	ppb	1.2029	88.8	4.1520
Pb 220.353	-1.0825	ppb	1.2564	116.1	0.7395
Sb 206.834	0.0338	ppb	4.1337	12235.0	1.3332
Se 196.026	-0.6779	ppb	3.2933	485.8	-0.1386
Sn 189.925	-1.0487	ppb	2.1285	203.0	0.0300
Sr 216.596	80.6963	ppb	0.7310	0.9	771.124
Ti 334.941	0.5548	ppb	0.0953	17.2	119.057
Tl 190.794	0.4738	ppb	2.2742	480.0	0.0338
V 292.401	0.6377	ppb	0.1952	30.6	11.9178
Zn 206.200	0.6331	ppb	0.5928	93.6	2.7691

E03272013.wvq. All Data Report 3/28/2013, 2:04:12 PM

680-88313-a-7-b^20 (Samp) 3/28/2013, 2:54:24 AM Rack 2, Tube 59

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.2300u	-0.6242u	-0.6893u
Al 308.215	41.8422	36.4782	40.7838
As 188.980	-1.3771u	-5.1984u	-0.4021u
B 249.678	12.6459	12.5698	13.4743
Ba 389.178	11.1903	11.2091	11.1927
Be 313.042	0.0251	0.0246	0.0256
Ca 370.602	3527	3508	3529
Cd 226.502	-0.2361u	0.0149	-0.1501u
Co 228.615	0.0954	0.3587	-0.0936u
Cr 267.716	4.9319	4.5817	4.7929
Cu 324.754	-0.3871u	-0.2408u	-0.6520u
Fe 271.441	48.2686	41.9784	41.0361
K 766.491	3299.88	3265.14	3285.36
Mg 279.078	7549.95	7491.80	7547.10
Mn 257.610	13.3136	13.2353	13.3209
Mo 202.032	-0.5206u	-0.7852u	-0.8914u
Na 330.237	122795x	120285x	122127x
Ni 231.604	1.1687	1.2904	2.0524
Pb 220.353	-0.0755u	0.3450	-0.0925u
Sb 206.834	-0.2112u	2.5507	0.2556
Se 196.026	-10.7903u	5.2957	-2.2019u
Sn 189.925	-2.0329u	-0.2379u	1.3445
Sr 216.596	56.8140	55.7027	55.7006
Ti 334.941	36.2707	36.0151	36.3518
Tl 190.794	-8.0087u	-0.5247u	-0.0968u
V 292.401	19.5360	19.1312	19.8452
Zn 206.200	0.4209	0.1125	2.0711

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.5145b	ppb	0.2485	48.3	-70.2306
Al 308.215	39.7014b	ppb	2.8411	7.2	470.590
As 188.980	-2.3259b	ppb	2.5350	109.0	0.8338
B 249.678	12.8967b	ppb	0.5017	3.9	476.480
Ba 389.178	11.1974b	ppb	0.0103	0.1	269.961
Be 313.042	0.0251b	ppb	0.0005	1.9	-138.666
Ca 370.602	3521b	ppb	11.53	0.3	11367
Cd 226.502	-0.1238b	ppb	0.1275	103.0	8.1146
Co 228.615	0.1202b	ppb	0.2272	189.1	16.0274
Cr 267.716	4.7688b	ppb	0.1763	3.7	210.638
Cu 324.754	-0.4266b	ppb	0.2084	48.9	86.9692
Fe 271.441	43.7610b	ppb	3.9320	9.0	75.9123
K 766.491	3283.46b	ppb	17.4502	0.5	161374
Mg 279.078	7529.62b	ppb	32.7817	0.4	15357.7
Mn 257.610	13.2899b	ppb	0.0474	0.4	3125.99
Mo 202.032	-0.7324b	ppb	0.1910	26.1	10.5157
Na 330.237	121736xb	ppb	1299.84	1.1	6177.73
Ni 231.604	1.5038b	ppb	0.4790	31.8	4.5054
Pb 220.353	0.0590b	ppb	0.2478	420.1	2.5548
Sb 206.834	0.8650b	ppb	1.4784	170.9	2.1697
Se 196.026	-2.5655b	ppb	8.0492	313.7	-1.0053
Sn 189.925	-0.3088b	ppb	1.6898	547.3	0.6218
Sr 216.596	56.0724b	ppb	0.6422	1.1	538.949
Ti 334.941	36.2126b	ppb	0.1757	0.5	9227.42
Tl 190.794	-2.8768b	ppb	4.4496	154.7	-2.1654
V 292.401	19.5041b	ppb	0.3581	1.8	530.319
Zn 206.200	0.8682b	ppb	1.0531	121.3	4.0915

E03272013.wvq. All Data Report 3/28/2013, 2:04:12 PM

680-88313-a-8-b^20 (Samp) 3/28/2013, 2:59:50 AM Rack 2, Tube 60

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-1.0397u	-0.5620u	-1.1976u
Al 308.215	0.9105	0.7009	2.9130
As 188.980	-3.8347u	-3.8340u	-4.6799u
B 249.678	-10.5892u	-10.1875u	-10.0190u
Ba 389.178	0.2312	0.1881	-0.1482u
Be 313.042	-0.0367u	-0.0324u	-0.0366u
Ca 370.602	9726	9730	9784
Cd 226.502	-0.2127u	-0.4384u	-0.0754u
Co 228.615	0.2012	0.6743	-0.4300u
Cr 267.716	0.5773	0.7634	0.6663
Cu 324.754	-0.4909u	-0.9887u	0.1503
Fe 271.441	4.5585	5.6493	10.2071
K 766.491	857.795	858.250	864.391
Mg 279.078	723.913	726.649	725.118
Mn 257.610	61.8209	61.7813	62.0786
Mo 202.032	-0.1672u	-1.1844u	-0.9694u
Na 330.237	7968.48	7822.41	7843.13
Ni 231.604	-0.0763u	0.4914	-0.0015u
Pb 220.353	-1.1447u	-1.5445u	-0.3135u
Sb 206.834	-4.4768u	-4.0019u	8.4588
Se 196.026	2.8371	3.3798	3.8536
Sn 189.925	-1.8095u	-3.3421u	-4.2324u
Sr 216.596	44.8620	44.6558	45.4973
Ti 334.941	-0.0280u	-0.1261u	-0.1305u
Tl 190.794	1.8810	-0.7851u	2.8781
V 292.401	1.3343	0.9680	1.0703
Zn 206.200	0.1847	1.6697	1.6982

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.9331	ppb	0.3309	35.5	-98.8692
Al 308.215	1.5082	ppb	1.2212	81.0	252.228
As 188.980	-4.1162	ppb	0.4882	11.9	-0.0919
B 249.678	-10.2652	ppb	0.2929	2.9	264.368
Ba 389.178	0.0904	ppb	0.2078	229.9	-14.2606
Be 313.042	-0.0352	ppb	0.0024	6.9	-238.331
Ca 370.602	9747	ppb	31.93	0.3	31459
Cd 226.502	-0.2422	ppb	0.1833	75.7	4.3494
Co 228.615	0.1485	ppb	0.5540	373.1	15.4083
Cr 267.716	0.6690	ppb	0.0931	13.9	37.7174
Cu 324.754	-0.4431	ppb	0.5710	128.9	86.3380
Fe 271.441	6.8050	ppb	2.9964	44.0	13.8871
K 766.491	860.145	ppb	3.6842	0.4	42440.3
Mg 279.078	725.227	ppb	1.3712	0.2	1497.96
Mn 257.610	61.8936	ppb	0.1614	0.3	14110.5
Mo 202.032	-0.7737	ppb	0.5361	69.3	10.2818
Na 330.237	7878.01	ppb	79.0384	1.0	396.241
Ni 231.604	0.1378	ppb	0.3085	223.8	1.2758
Pb 220.353	-1.0009	ppb	0.6280	62.7	0.8794
Sb 206.834	-0.0066	ppb	7.3351	110530.5	1.2984
Se 196.026	3.3568	ppb	0.5086	15.2	1.7201
Sn 189.925	-3.1280	ppb	1.2256	39.2	-1.5452
Sr 216.596	45.0050	ppb	0.4386	1.0	435.283
Ti 334.941	-0.0949	ppb	0.0580	61.1	-51.8736
Tl 190.794	1.3247	ppb	1.8939	143.0	0.5564
V 292.401	1.1242	ppb	0.1890	16.8	25.3032
Zn 206.200	1.1842	ppb	0.8657	73.1	4.6328



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Cont Calib Verif (CCV) 3/28/2013, 3:05:16 AM Rack 3, Tube 1  
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	495.337	497.375	499.195
Al 308.215	4943.88	4976.90	4966.42
As 188.980	480.024	469.166	469.925
B 249.678	2469.91	2509.11	2525.26
Ba 389.178	4879.37	4912.99	4907.98
Be 313.042	488.378	490.441	489.415
Ca 370.602	4881	4914	4908
Cd 226.502	486.153	488.855	488.227
Co 228.615	491.398	494.314	492.448
Cr 267.716	4895.43	4917.28	4898.56
Cu 324.754	4832.64	4795.63	4824.84
Fe 271.441	4914.87	4960.19	4927.25
K 766.491	9859.82	9944.00	9945.84
Mg 279.078	4869.63	4906.09	4887.19
Mn 257.610	4924.25	4962.90	4941.44
Mo 202.032	484.737	486.788	484.675
Na 330.237	7182.88	7336.93	7225.59
Ni 231.604	2451.94	2466.68	2450.07
Pb 220.353	487.562	487.798	489.528
Sb 206.834	904.747	915.795	915.196
Se 196.026	4815.49	4825.20	4798.35
Sn 189.925	4984.13	4958.33	4973.84
Sr 216.596	2448.35	2455.87	2448.93
Ti 334.941	492.046	494.754	493.166
Tl 190.794	4907.72	4963.07	4952.23
V 292.401	4884.14	4917.25	4906.03
Zn 206.200	2435.32	2454.28	2444.71

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	497.302	ppb	1.9302	0.4	34673.7	99.46048
Al 308.215	4962.40	ppb	16.8701	0.3	28632.6	99.24801
As 188.980	473.038	ppb	6.0619	1.3	258.769	94.60770
B 249.678	2501.42	ppb	28.4647	1.1	23264.7	100.05698
Ba 389.178	4900.11	ppb	18.1389	0.4	117264	98.00224
Be 313.042	489.411	ppb	1.0318	0.2	947025	97.88228
Ca 370.602	4901	ppb	17.68	0.4	15684	98.02050
Cd 226.502	487.745	ppb	1.4138	0.3	17387.4	97.54900
Co 228.615	492.720	ppb	1.4772	0.3	5657.59	98.54398
Cr 267.716	4903.76	ppb	11.8182	0.2	204984	98.07517
Cu 324.754	4817.71	ppb	19.5119	0.4	232681	96.35412
Fe 271.441	4934.10	ppb	23.4213	0.5	8392.17	98.68205
K 766.491	9916.55	ppb	49.1425	0.5	486919	99.16555
Mg 279.078	4887.64	ppb	18.2350	0.4	9899.72	97.75275
Mn 257.610	4942.86	ppb	19.3642	0.4	1120937	98.85717
Mo 202.032	485.400	ppb	1.2021	0.2	3140.63	97.08002
Na 330.237	7248.46	ppb	79.5343	1.1	341.119	96.64619
Ni 231.604	2456.23	ppb	9.0996	0.4	5806.98	98.24923
Pb 220.353	488.296	ppb	1.0736	0.2	787.962	97.65923
Sb 206.834	911.913	ppb	6.2126	0.7	916.541	91.19128
Se 196.026	4813.01	ppb	13.5922	0.3	2207.27	96.26026
Sn 189.925	4972.10	ppb	12.9915	0.3	3760.72	99.44201
Sr 216.596	2451.05	ppb	4.1806	0.2	23047.2	98.04202
Ti 334.941	493.322	ppb	1.3608	0.3	125803	98.66441
Tl 190.794	4941.01	ppb	29.3333	0.6	3257.88	98.82011
V 292.401	4902.48	ppb	16.8382	0.3	134452	98.04951
Zn 206.200	2444.77	ppb	9.4793	0.4	3697.78	97.79091

E03272013.wvq. All Data Report 3/28/2013, 2:04:12 PM

Cont Calib Blank (CCB) 3/28/2013, 3:10:43 AM Rack 3, Tube 2

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.3741u	-0.8009u	-0.0909u
Al 308.215	-0.3123u	-0.1568u	-2.1652u
As 188.980	-2.1659u	-2.2033u	2.6122
B 249.678	29.5226	25.4721	19.1580
Ba 389.178	-1.7451u	0.9817	0.1193
Be 313.042	-0.0308u	-0.0379u	-0.0192u
Ca 370.602	7.926	3.823	1.030
Cd 226.502	-0.1219u	-0.2479u	-0.2567u
Co 228.615	-0.8324u	0.5706	-0.1880u
Cr 267.716	-0.0367u	-0.0437u	-0.3126u
Cu 324.754	-0.4151u	0.2401	0.0771
Fe 271.441	-1.2446u	0.2946	1.4840
K 766.491	-0.2696u	0.1449	0.4861
Mg 279.078	3.0268	2.7629	-2.3252u
Mn 257.610	-0.0709u	-0.0563u	0.0415
Mo 202.032	-0.3743u	-0.0921u	-0.3215u
Na 330.237	-64.5744u	183.790	145.003
Ni 231.604	-0.5159u	0.1670	0.0262
Pb 220.353	-1.5787u	2.9333	0.7652
Sb 206.834	-1.1765u	2.2182	4.7320
Se 196.026	-2.6661u	-1.3998u	-2.1759u
Sn 189.925	-1.6963u	-0.9911u	1.3871
Sr 216.596	-0.4657u	-0.2475u	-0.3157u
Ti 334.941	-0.1402u	-0.1302u	-0.1393u
Tl 190.794	4.6395	-4.9804u	-1.0340u
V 292.401	0.2649	0.3483	0.7436
Zn 206.200	0.3431	-0.1416u	1.0035

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	-0.4220	ppb	0.3574	84.7	-61.5009	-0.42197
Al 308.215	-0.8781	ppb	1.1174	127.3	238.662	-0.87810
As 188.980	-0.5857	ppb	2.7695	472.8	1.7531	-0.58571
B 249.678	24.7176	ppb	5.2233	21.1	584.783	24.71757
Ba 389.178	-0.2147	ppb	1.3937	649.2	-23.5164	-0.21467
Be 313.042	-0.0293	ppb	0.0094	32.2	-229.324	-0.02928
Ca 370.602	4.260	ppb	3.469	81.4	10.25	4.25997
Cd 226.502	-0.2089	ppb	0.0754	36.1	5.5573	-0.20885
Co 228.615	-0.1500	ppb	0.7023	468.3	11.9686	-0.14996
Cr 267.716	-0.1310	ppb	0.1573	120.1	3.9222	-0.13099
Cu 324.754	-0.0326	ppb	0.3411	1045.6	106.179	-0.03262
Fe 271.441	0.1780	ppb	1.3680	768.6	2.7746	0.17800
K 766.491	0.1205	ppb	0.3784	314.1	231.187	0.12047
Mg 279.078	1.1548	ppb	3.0167	261.2	24.1562	1.15483
Mn 257.610	-0.0286	ppb	0.0611	214.0	65.1897	-0.02855
Mo 202.032	-0.2627	ppb	0.1500	57.1	13.5824	-0.26266
Na 330.237	88.0728	ppb	133.611	151.7	0.6701	88.07279
Ni 231.604	-0.1076	ppb	0.3606	335.3	0.6956	-0.10756
Pb 220.353	0.7066	ppb	2.2566	319.3	3.6128	0.70662
Sb 206.834	1.9246	ppb	2.9652	154.1	3.1280	1.92455
Se 196.026	-2.0806	ppb	0.6385	30.7	-0.7862	-2.08058
Sn 189.925	-0.4334	ppb	1.6156	372.7	0.4862	-0.43344
Sr 216.596	-0.3430	ppb	0.1116	32.5	7.2569	-0.34296
Ti 334.941	-0.1366	ppb	0.0055	4.0	-64.9098	-0.13657
Tl 190.794	-0.4583	ppb	4.8357	1055.1	-0.5609	-0.45832
V 292.401	0.4522	ppb	0.2557	56.5	6.7961	0.45224
Zn 206.200	0.4017	ppb	0.5748	143.1	2.3705	0.40165

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680-88367-a-1-b^20 (Samp)      3/28/2013, 3:16:09 AM      Rack 3, Tube 3  
 Weight: 1      Volume: 1      Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.7057u	-0.7253u	-1.3150u
Al 308.215	3.7145	4.4639	1.2307
As 188.980	-4.3081u	2.8127	3.1946
B 249.678	78.8857	78.6701	78.4658
Ba 389.178	-0.4340	-0.3466	0.6727
Be 313.042	-0.0256u	-0.0273u	-0.0223u
Ca 370.602	6795	6778	6817
Cd 226.502	-0.1046u	-0.1769u	-0.0589u
Co 228.615	0.0006	0.1345	0.5667
Cr 267.716	-0.1082u	-0.3195u	-0.2806u
Cu 324.754	-0.2069u	0.1769	-0.9240u
Fe 271.441	11.1038	8.2857	7.6964
K 766.491	5569.91	5588.98	5615.95
Mg 279.078	8380.51	8354.89	8407.78
Mn 257.610	40.0829	39.9608	40.2809
Mo 202.032	-0.4462u	-1.0821u	-0.6635u
Na 330.237	161888x	162269x	163570x
Ni 231.604	-1.3446u	-1.1217u	-0.5058u
Pb 220.353	-0.9577u	0.0896	-3.5907u
Sb 206.834	-2.0318u	-0.7566u	-0.9148u
Se 196.026	0.2922	0.0112	1.8163
Sn 189.925	-2.1196u	-7.2085u	-0.4602u
Sr 216.596	29.9942	29.3612	30.0585
Ti 334.941	-0.2116u	-0.3071u	-0.2529u
Tl 190.794	-2.9095u	-1.0646u	-1.2408u
V 292.401	0.8743	0.8662	0.6402
Zn 206.200	0.2572	-0.1927u	-0.1954u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.9153b	ppb	0.3463	37.8	-97.1900
Al 308.215	3.1364b	ppb	1.6924	54.0	261.620
As 188.980	0.5664b	ppb	4.2257	746.1	2.4285
B 249.678	78.6738b	ppb	0.2100	0.3	1078.97
Ba 389.178	-0.0360b	ppb	0.6153	1709.3	3.4203
Be 313.042	-0.0251b	ppb	0.0025	10.1	-239.010
Ca 370.602	6797b	ppb	19.96	0.3	21936
Cd 226.502	-0.1135b	ppb	0.0595	52.4	8.1951
Co 228.615	0.2340b	ppb	0.2959	126.5	16.3681
Cr 267.716	-0.2361b	ppb	0.1124	47.6	2.2429
Cu 324.754	-0.3180b	ppb	0.5588	175.7	92.3963
Fe 271.441	9.0287b	ppb	1.8212	20.2	17.6117
K 766.491	5591.61b	ppb	23.1341	0.4	274656
Mg 279.078	8381.06b	ppb	26.4477	0.3	17091.5
Mn 257.610	40.1082b	ppb	0.1615	0.4	9211.67
Mo 202.032	-0.7306b	ppb	0.3232	44.2	10.5604
Na 330.237	162576xb	ppb	881.711	0.5	8251.90
Ni 231.604	-0.9907b	ppb	0.4345	43.9	-1.3917
Pb 220.353	-1.4863b	ppb	1.8962	127.6	0.0934
Sb 206.834	-1.2344b	ppb	0.6951	56.3	0.1121
Se 196.026	0.7066b	ppb	0.9713	137.5	0.5005
Sn 189.925	-3.2627b	ppb	3.5164	107.8	-1.5973
Sr 216.596	29.8046b	ppb	0.3854	1.3	291.835
Ti 334.941	-0.2572b	ppb	0.0479	18.6	-72.9291
Tl 190.794	-1.7383b	ppb	1.0181	58.6	-1.4450
V 292.401	0.7936b	ppb	0.1329	16.7	15.0081
Zn 206.200	-0.0436b	ppb	0.2695	597.1	2.7488

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680-88367-a-3-b^20 (Samp)      3/28/2013, 3:21:47 AM      Rack 3, Tube 4  
 Weight: 1      Volume: 1      Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.1008u	-0.8439u	-0.4800u
Al 308.215	5.3623	-0.3808u	2.0536
As 188.980	4.2604	-5.7874u	-2.8431u
B 249.678	6.7982	6.6870	6.6238
Ba 389.178	6.6196	6.7986	7.4722
Be 313.042	-0.0358u	-0.0364u	-0.0289u
Ca 370.602	7959	7936	7965
Cd 226.502	-0.1339u	-0.0232u	0.0163
Co 228.615	-0.3657u	0.2742	0.9784
Cr 267.716	-0.0081	-0.4230u	-0.0502u
Cu 324.754	-0.4533u	-0.0489u	-0.1272u
Fe 271.441	35.1719	30.1302	35.1767
K 766.491	1590.05	1592.72	1594.90
Mg 279.078	3409.92	3410.72	3417.93
Mn 257.610	82.6473	82.5207	82.8197
Mo 202.032	-0.8259u	-0.6276u	-0.8409u
Na 330.237	49319.9	49424.1	49564.4
Ni 231.604	-1.7969u	1.1421	-0.9017u
Pb 220.353	-0.1721u	-0.1282u	-0.1443u
Sb 206.834	0.7047	-1.9698u	-0.3308u
Se 196.026	10.6314	-12.1983u	-2.4064u
Sn 189.925	-3.1946u	-1.9704u	0.1314
Sr 216.596	112.885	111.563	110.993
Ti 334.941	-0.1044u	-0.1049u	-0.1441u
Tl 190.794	-3.1400u	4.7045	1.4522
V 292.401	0.5179	-0.0117u	0.1908
Zn 206.200	0.0591	1.9594	-0.9116u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.4749	ppb	0.3716	78.2	-69.5960
Al 308.215	2.3451	ppb	2.8826	122.9	257.038
As 188.980	-1.4567	ppb	5.1654	354.6	1.3387
B 249.678	6.7030	ppb	0.0883	1.3	419.757
Ba 389.178	6.9635	ppb	0.4495	6.5	157.509
Be 313.042	-0.0337	ppb	0.0042	12.5	-241.196
Ca 370.602	7953	ppb	15.44	0.2	25669
Cd 226.502	-0.0469	ppb	0.0778	165.9	11.1713
Co 228.615	0.2956	ppb	0.6723	227.4	17.0880
Cr 267.716	-0.1604	ppb	0.2283	142.3	3.7911
Cu 324.754	-0.2098	ppb	0.2145	102.2	97.6193
Fe 271.441	33.4929	ppb	2.9122	8.7	58.6390
K 766.491	1592.56	ppb	2.4317	0.2	78386.2
Mg 279.078	3412.86	ppb	4.4132	0.1	6971.73
Mn 257.610	82.6625	ppb	0.1501	0.2	18834.6
Mo 202.032	-0.7648	ppb	0.1191	15.6	10.3396
Na 330.237	49436.1	ppb	122.677	0.2	2506.59
Ni 231.604	-0.5188	ppb	1.5065	290.4	-0.2759
Pb 220.353	-0.1482	ppb	0.0222	15.0	2.2555
Sb 206.834	-0.5320	ppb	1.3486	253.5	0.7901
Se 196.026	-1.3244	ppb	11.4532	864.8	-0.4206
Sn 189.925	-1.6778	ppb	1.6822	100.3	-0.4356
Sr 216.596	111.813	ppb	0.9706	0.9	1064.39
Ti 334.941	-0.1178	ppb	0.0228	19.3	-49.6455
Tl 190.794	1.0056	ppb	3.9413	391.9	0.3244
V 292.401	0.2324	ppb	0.2672	115.0	0.5123
Zn 206.200	0.3690	ppb	1.4693	205.8	2.3839

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680-88367-a-4-b^20 (Samp) 3/28/2013, 3:27:14 AM Rack 3, Tube 5

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-1.0591u	-1.1160u	0.1148
Al 308.215	22.9397	20.9024	22.0955
As 188.980	-5.7746u	0.7355	-7.7544u
B 249.678	59.9278	61.2160	62.7523
Ba 389.178	1.3160	0.9238	1.0439
Be 313.042	-0.0336u	-0.0300u	-0.0227u
Ca 370.602	4228	4226	4241
Cd 226.502	-0.0496u	-0.3542u	0.0544
Co 228.615	0.3175	-0.1940u	0.2481
Cr 267.716	0.0560	-0.0618u	0.0610
Cu 324.754	0.2505	-0.0275u	-0.2332u
Fe 271.441	24.5278	21.1447	22.3077
K 766.491	3659.79	3651.54	3654.52
Mg 279.078	11945.0	11969.2	11998.4
Mn 257.610	10.1154	10.0103	10.1033
Mo 202.032	-0.4396u	-0.8006u	-1.1080u
Na 330.237	101177x	101204x	101399x
Ni 231.604	-0.6704u	-0.0887u	0.1616
Pb 220.353	-0.9163u	0.4892	-0.3842u
Sb 206.834	1.8282	3.5766	2.0248
Se 196.026	-3.3576u	3.0262	1.5021
Sn 189.925	-2.2888u	-3.8135u	-4.7950u
Sr 216.596	74.3184	73.1273	73.6369
Ti 334.941	1.4559	1.3619	1.4629
Tl 190.794	-5.6539u	-4.8929u	2.3191
V 292.401	1.2812	1.7159	1.3721
Zn 206.200	1.0698	-0.2522u	1.7118

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.6867b	ppb	0.6948	101.2	-83.2436
Al 308.215	21.9792b	ppb	1.0236	4.7	369.425
As 188.980	-4.2645b	ppb	4.4418	104.2	-0.2131
B 249.678	61.2987b	ppb	1.4140	2.3	919.820
Ba 389.178	1.0946b	ppb	0.2010	18.4	40.1611
Be 313.042	-0.0288b	ppb	0.0056	19.4	-239.679
Ca 370.602	4232b	ppb	8.274	0.2	13656
Cd 226.502	-0.1165b	ppb	0.2123	182.3	8.4906
Co 228.615	0.1239b	ppb	0.2774	224.0	15.1718
Cr 267.716	0.0184b	ppb	0.0695	377.5	11.8038
Cu 324.754	-0.0034b	ppb	0.2427	7135.2	107.568
Fe 271.441	22.6601b	ppb	1.7189	7.6	40.4989
K 766.491	3655.28b	ppb	4.1761	0.1	179623
Mg 279.078	11970.9b	ppb	26.7800	0.2	24403.5
Mn 257.610	10.0764b	ppb	0.0575	0.6	2421.74
Mo 202.032	-0.7827b	ppb	0.3346	42.7	10.2222
Na 330.237	101260xb	ppb	120.884	0.1	5138.24
Ni 231.604	-0.1992b	ppb	0.4269	214.3	0.4795
Pb 220.353	-0.2704b	ppb	0.7096	262.4	2.0425
Sb 206.834	2.4765b	ppb	0.9577	38.7	3.6657
Se 196.026	0.3902b	ppb	3.3340	854.3	0.3486
Sn 189.925	-3.6324b	ppb	1.2629	34.8	-1.8980
Sr 216.596	73.6942b	ppb	0.5976	0.8	704.991
Ti 334.941	1.4269b	ppb	0.0564	4.0	375.727
Tl 190.794	-2.7426b	ppb	4.4001	160.4	-2.0788
V 292.401	1.4564b	ppb	0.2293	15.7	33.8881
Zn 206.200	0.8432b	ppb	1.0914	218.8	4.0733

E03272013.vvq. All Data Report 3/28/2013, 2:04:12 PM

680-88367-a-5-b^20 (Samp)      3/28/2013, 3:32:40 AM      Rack 3, Tube 6  
 Weight: 1      Volume: 1      Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.0985u	-0.2363u	-1.3599u
Al 308.215	5.8375	3.2128	1.4604
As 188.980	-0.8604u	1.9162	-3.1002u
B 249.678	27.6904	26.8318	26.9881
Ba 389.178	14.2618	14.2633	15.6380
Be 313.042	-0.0288u	-0.0287u	-0.0280u
Ca 370.602	8712	8654	8673
Cd 226.502	0.1509	0.0997	-0.1338u
Co 228.615	0.6567	1.0553	-0.2790u
Cr 267.716	0.1704	-0.2140u	0.0013
Cu 324.754	-0.2935u	-0.5191u	-0.5934u
Fe 271.441	8.7678	8.4860	7.7427
K 766.491	4890.98	4854.96	4837.46
Mg 279.078	22256.6	22199.7	22215.6
Mn 257.610	45.3440	45.1564	45.0826
Mo 202.032	-1.5652u	-0.3011u	-1.1528u
Na 330.237	174613x	170839x	172174x
Ni 231.604	-0.9440u	1.3740	-0.9869u
Pb 220.353	-0.7388u	-0.1596u	-0.1525u
Sb 206.834	3.3748	-0.6170u	4.2117
Se 196.026	-8.4029u	9.4040	2.2845
Sn 189.925	-7.1097u	0.6376	-0.5392u
Sr 216.596	144.006	142.091	144.259
Ti 334.941	-0.4010u	-0.4103u	-0.3512u
Tl 190.794	-8.1063u	-9.5948u	-8.3238u
V 292.401	0.2988	0.5997	0.6682
Zn 206.200	-1.7684u	0.0859	1.8333

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.5649b	ppb	0.6919	122.5	-77.6216
Al 308.215	3.5036b	ppb	2.2030	62.9	263.620
As 188.980	-0.6815b	ppb	2.5130	368.8	1.7651
B 249.678	27.1701b	ppb	0.4573	1.7	607.245
Ba 389.178	14.7210b	ppb	0.7941	5.4	393.881
Be 313.042	-0.0285b	ppb	0.0004	1.5	-246.582
Ca 370.602	8680b	ppb	29.78	0.3	28014
Cd 226.502	0.0389b	ppb	0.1518	390.1	13.7275
Co 228.615	0.4777b	ppb	0.6849	143.4	19.1845
Cr 267.716	-0.0141b	ppb	0.1926	1366.5	11.7067
Cu 324.754	-0.4687b	ppb	0.1562	33.3	85.1025
Fe 271.441	8.3321b	ppb	0.5296	6.4	16.4454
K 766.491	4861.14b	ppb	27.2887	0.6	238805
Mg 279.078	22223.9b	ppb	29.3907	0.1	45286.1
Mn 257.610	45.1944b	ppb	0.1347	0.3	10440.8
Mo 202.032	-1.0064b	ppb	0.6447	64.1	8.7806
Na 330.237	172542xb	ppb	1913.65	1.1	8758.01
Ni 231.604	-0.1857b	ppb	1.3509	727.6	0.5111
Pb 220.353	-0.3503b	ppb	0.3365	96.1	1.9231
Sb 206.834	2.3231b	ppb	2.5804	111.1	3.5217
Se 196.026	1.0952b	ppb	8.9628	818.4	0.6798
Sn 189.925	-2.3371b	ppb	4.1749	178.6	-0.8933
Sr 216.596	143.452b	ppb	1.1854	0.8	1362.43
Ti 334.941	-0.3875b	ppb	0.0318	8.2	-50.0099
Tl 190.794	-8.6750b	ppb	0.8040	9.3	-6.0288
V 292.401	0.5222b	ppb	0.1965	37.6	7.7839
Zn 206.200	0.0503b	ppb	1.8011	202.4	2.9059

E03272013.vvq. All Data Report 3/28/2013, 2:04:12 PM

680-88367-a-6-b^20 (Samp)      3/28/2013, 3:38:07 AM      Rack 3, Tube 7  
 Weight: 1      Volume: 1      Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.2767u	-0.7146u	-0.7731u
Al 308.215	1.2775	1.6434	0.4089
As 188.980	-0.4029u	-4.1603u	-3.4023u
B 249.678	14.8340	13.9339	14.4943
Ba 389.178	-0.9500	-0.9569	-1.4299
Be 313.042	-0.0400u	-0.0196u	-0.0384u
Ca 370.602	10965	10987	11048
Cd 226.502	-0.2477u	-0.2542u	-0.0935u
Co 228.615	0.1402	-0.0684u	0.0475
Cr 267.716	1.8806	1.3472	1.6459
Cu 324.754	-0.1005u	-0.9405u	-0.4315u
Fe 271.441	100.018	107.207	102.176
K 766.491	6197.39	6173.03	6198.54
Mg 279.078	14598.3	14619.8	14674.1
Mn 257.610	19.6384	19.6443	19.7166
Mo 202.032	-1.6930u	-0.9665u	-1.7777u
Na 330.237	137017x	136003x	135254x
Ni 231.604	2.9081	-1.3019u	-0.2317u
Pb 220.353	1.4016	-1.5455u	-1.0818u
Sb 206.834	2.9651	-5.9012u	-3.3093u
Se 196.026	-12.9081u	0.9827	-0.5692u
Sn 189.925	1.6966	-3.7363u	-2.0442u
Sr 216.596	8.9476	9.4154	9.0128
Ti 334.941	5.8979	5.8460	5.7912
Tl 190.794	1.1518	-0.8211u	-1.4641u
V 292.401	3.0232	3.4963	3.2323
Zn 206.200	-0.0669u	0.1816	-1.0434u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.5881b	ppb	0.2713	46.1	-73.6208
Al 308.215	1.1099b	ppb	0.6341	57.1	249.865
As 188.980	-2.6552b	ppb	1.9870	74.8	0.7099
B 249.678	14.4207b	ppb	0.4545	3.2	490.388
Ba 389.178	-1.1123b	ppb	0.2751	24.7	-5.3352
Be 313.042	-0.0327b	ppb	0.0113	34.7	-249.315
Ca 370.602	11000b	ppb	43.19	0.4	35497
Cd 226.502	-0.1985b	ppb	0.0910	45.8	5.6048
Co 228.615	0.0398b	ppb	0.1045	262.9	14.3389
Cr 267.716	1.6246b	ppb	0.2673	16.5	79.5442
Cu 324.754	-0.4908b	ppb	0.4231	86.2	84.0320
Fe 271.441	103.133b	ppb	3.6894	3.6	175.399
K 766.491	6189.65b	ppb	14.4104	0.2	304007
Mg 279.078	14630.7b	ppb	39.1001	0.3	29820.9
Mn 257.610	19.6665b	ppb	0.0436	0.2	4611.06
Mo 202.032	-1.4791b	ppb	0.4459	30.1	5.7198
Na 330.237	136091xb	ppb	884.909	0.7	6906.95
Ni 231.604	0.4582b	ppb	2.1881	477.6	2.0348
Pb 220.353	-0.4086b	ppb	1.5847	387.9	1.8207
Sb 206.834	-2.0818b	ppb	4.5588	219.0	-0.6675
Se 196.026	-4.1649b	ppb	7.6115	182.8	-1.7367
Sn 189.925	-1.3613b	ppb	2.7801	204.2	-0.1665
Sr 216.596	9.1253b	ppb	0.2534	2.8	97.4546
Ti 334.941	5.8450b	ppb	0.0534	0.9	1510.92
Tl 190.794	-0.3778b	ppb	1.3632	360.8	-0.5293
V 292.401	3.2506b	ppb	0.2371	7.3	83.0241
Zn 206.200	-0.3096b	ppb	0.6476	209.2	-2.3732

680-88367-a-7-b^20 (Samp) 3/28/2013, 3:43:33 AM Rack 3, Tube 8  
Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.5239u	-1.3328u	-0.8007u
Al 308.215	2.6601	5.4205	1.5111
As 188.980	5.4204	-6.8132u	-1.6142u
B 249.678	41.4256	40.7914	41.2849
Ba 389.178	-1.6382	-0.8792	-1.3208
Be 313.042	-0.0324u	-0.0305u	-0.0362u
Ca 370.602	28492	28504	28490
Cd 226.502	0.2536	-0.0406u	-0.1988u
Co 228.615	-0.8069u	-0.6922u	-0.1490u
Cr 267.716	-0.4694u	0.0234	0.0126
Cu 324.754	-1.0481u	-0.2504u	-0.5650u
Fe 271.441	48.1680	50.2606	50.1885
K 766.491	3981.18	3984.36	3982.82
Mg 279.078	54337.4	54424.5	54353.5
Mn 257.610	62.1113	62.2360	62.1521
Mo 202.032	-0.4326u	-0.9981u	-1.4024u
Na 330.237	201289x	199062x	200404x
Ni 231.604	-0.4378u	0.9945	1.6649
Pb 220.353	-0.0466u	2.8115	-2.4324u
Sb 206.834	4.5444	-4.4217u	-4.1460u
Se 196.026	12.5378	-18.9316u	2.5648
Sn 189.925	-2.2118u	-2.1565u	-1.7158u
Sr 216.596	246.232	244.650	244.081
Ti 334.941	-1.0048u	-1.0236u	-0.9426u
Tl 190.794	-2.7514u	-6.2006u	-1.9251u
V 292.401	0.2765	0.0680	0.7419
Zn 206.200	0.6172	1.0855	1.1312

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.8858b	ppb	0.4111	46.4	-104.732
Al 308.215	3.1973b	ppb	2.0093	62.8	261.908
As 188.980	-1.0023b	ppb	6.1397	612.5	1.7359
B 249.678	41.1673b	ppb	0.3330	0.8	735.403
Ba 389.178	-1.2794b	ppb	0.3812	29.8	98.0620
Be 313.042	-0.0331b	ppb	0.0029	8.7	-253.037
Ca 370.602	28495b	ppb	7.566	0.0	91974
Cd 226.502	0.0047b	ppb	0.2296	4866.1	12.8561
Co 228.615	-0.5493b	ppb	0.3515	64.0	7.4249
Cr 267.716	-0.1445b	ppb	0.2814	194.8	6.7710
Cu 324.754	-0.6212b	ppb	0.4018	64.7	77.7620
Fe 271.441	49.5390b	ppb	1.1879	2.4	85.4999
K 766.491	3982.79b	ppb	1.5894	0.0	195696
Mg 279.078	54371.8b	ppb	46.3309	0.1	110764
Mn 257.610	62.1664b	ppb	0.0636	0.1	14466.2
Mo 202.032	-0.9444b	ppb	0.4871	51.6	9.1787
Na 330.237	200252xb	ppb	1120.89	0.6	10165.1
Ni 231.604	0.7405b	ppb	1.0741	145.0	2.7012
Pb 220.353	0.1109b	ppb	2.6255	2368.4	2.6684
Sb 206.834	-1.3411b	ppb	5.0988	380.2	0.0190
Se 196.026	-1.2763b	ppb	16.0825	1260.1	-0.4029
Sn 189.925	-2.0280b	ppb	0.2718	13.4	-0.6430
Sr 216.596	244.988b	ppb	1.1144	0.5	2320.51
Ti 334.941	-0.9903b	ppb	0.0424	4.3	-73.3196
Tl 190.794	-3.6257b	ppb	2.2679	62.6	-2.7148
V 292.401	0.3621b	ppb	0.3450	95.3	3.4843
Zn 206.200	0.9446b	ppb	0.2845	20.1	4.4192



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680-88367-a-8-b (Samp)                      3/28/2013, 3:48:59 AM                      Rack 3, Tube 9  
 Weight: 1                                      Volume: 1                                      Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.9308u	-1.1248u	-0.8729u
Al 308.215	-1.6806u	1.2297	-0.6205u
As 188.980	-1.8900u	-0.2860u	-7.3301u
B 249.678	-28.0439u	-28.8063u	-30.2287u
Ba 389.178	-0.1232u	-0.2667u	-0.0110u
Be 313.042	-0.0359u	-0.0310u	-0.0317u
Ca 370.602	67.46	63.25	70.93
Cd 226.502	-0.1071u	-0.2585u	-0.3089u
Co 228.615	-0.1775u	0.3248	-0.2258u
Cr 267.716	0.0028	-0.3086u	-0.1253u
Cu 324.754	-0.5709u	-0.0204u	-0.1816u
Fe 271.441	-3.0967u	-0.5993u	5.9942
K 766.491	14.6224	14.1445	15.3835
Mg 279.078	17.7712	17.7223	16.6918
Mn 257.610	-0.0800u	-0.1005u	-0.1319u
Mo 202.032	-1.7606u	-1.2557u	-1.2642u
Na 330.237	434.446	314.516	515.985
Ni 231.604	-1.9178u	-0.1793u	-0.3517u
Pb 220.353	0.6682	-2.6620u	-0.5941u
Sb 206.834	-2.3705u	-3.0930u	-0.7796u
Se 196.026	9.3946	-4.8559u	-2.2013u
Sn 189.925	-1.4061u	-4.0958u	1.1688
Sr 216.596	-0.4043u	-0.8320u	0.4604
Ti 334.941	-0.2488u	-0.3439u	-0.2520u
Tl 190.794	-5.0409u	1.0910	0.5104
V 292.401	0.3266	0.0006	0.0825
Zn 206.200	1.3451	0.3159	0.8042

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.9762	ppb	0.1319	13.5	-100.233
Al 308.215	-0.3571	ppb	1.4729	412.4	241.505
As 188.980	-3.1687	ppb	3.6920	116.5	0.3515
B 249.678	-29.0263	ppb	1.1089	3.8	92.5364
Ba 389.178	-0.1336	ppb	0.1282	95.9	-21.5384
Be 313.042	-0.0329	ppb	0.0026	8.0	-236.085
Ca 370.602	67.21	ppb	3.849	5.7	213.5
Cd 226.502	-0.2248	ppb	0.1050	46.7	4.9869
Co 228.615	-0.0262	ppb	0.3049	1164.7	13.4192
Cr 267.716	-0.1437	ppb	0.1565	108.9	3.3986
Cu 324.754	-0.2576	ppb	0.2830	109.8	95.2879
Fe 271.441	0.7661	ppb	4.6967	613.1	3.8422
K 766.491	14.7168	ppb	0.6249	4.2	947.559
Mg 279.078	17.3951	ppb	0.6095	3.5	57.2348
Mn 257.610	-0.1041	ppb	0.0261	25.1	48.1463
Mo 202.032	-1.4268	ppb	0.2891	20.3	6.0671
Na 330.237	421.649	ppb	101.343	24.0	17.6062
Ni 231.604	-0.8163	ppb	0.9578	117.3	-0.9796
Pb 220.353	-0.8626	ppb	1.6812	194.9	1.0894
Sb 206.834	-2.0810	ppb	1.1835	56.9	-0.6833
Se 196.026	0.7791	ppb	7.5784	972.7	0.5244
Sn 189.925	-1.4444	ppb	2.6325	182.3	-0.2782
Sr 216.596	-0.2586	ppb	0.6584	254.6	8.1146
Ti 334.941	-0.2816	ppb	0.0540	19.2	-101.839
Tl 190.794	-1.1465	ppb	3.3852	295.3	-1.0146
V 292.401	0.1366	ppb	0.1696	124.2	-1.6782
Zn 206.200	0.8218	ppb	0.5148	62.7	4.0083

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680-88367-a-8-bSD^5 (Samp) 3/28/2013, 3:54:25 AM Rack 3, Tube 10

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.3997u	0.3210	-0.7225u
Al 308.215	0.2998	-0.9779u	0.9902
As 188.980	-9.7499u	-4.4428u	-6.0788u
B 249.678	-33.3828u	-33.2031u	-31.7060u
Ba 389.178	-0.9775u	-0.7075u	0.0872
Be 313.042	-0.0456u	-0.0379u	-0.0242u
Ca 370.602	12.03	9.132	10.23
Cd 226.502	-0.0161u	-0.0761u	0.0405
Co 228.615	0.5573	-0.4082u	-0.2398u
Cr 267.716	-0.2157u	-0.1943u	-0.2141u
Cu 324.754	-0.3940u	-0.0303u	-0.3021u
Fe 271.441	-0.4178u	3.8093	3.6601
K 766.491	3.0638	2.6304	2.5382
Mg 279.078	7.8717	2.1392	5.2180
Mn 257.610	-0.1278u	-0.1565u	-0.1871u
Mo 202.032	-0.6399u	-1.2335u	-0.6103u
Na 330.237	-33.0408u	59.4756	127.190
Ni 231.604	-0.5699u	-1.0009u	1.1067
Pb 220.353	-0.7551u	-0.7005u	0.9545
Sb 206.834	2.7085	-1.4154u	-6.0138u
Se 196.026	6.3591	-12.2993u	3.9151
Sn 189.925	-3.7067u	-1.6217u	0.0149
Sr 216.596	0.0874	-0.2290u	-0.0647u
Ti 334.941	-0.3156u	-0.2626u	-0.3826u
Tl 190.794	2.6808	3.1476	2.1103
V 292.401	0.2014	-0.1035u	0.5384
Zn 206.200	0.2754	0.0054	-0.6204u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.2671	ppb	0.5342	200.0	-50.6793
Al 308.215	0.1041	ppb	0.9986	959.6	244.205
As 188.980	-6.7572	ppb	2.7178	40.2	-1.5973
B 249.678	-32.7640	ppb	0.9206	2.8	58.3011
Ba 389.178	-0.5326	ppb	0.5535	103.9	-31.1144
Be 313.042	-0.0359	ppb	0.0108	30.2	-242.006
Ca 370.602	10.46	ppb	1.463	14.0	30.13
Cd 226.502	-0.0172	ppb	0.0583	338.4	12.3823
Co 228.615	-0.0302	ppb	0.5158	1707.1	13.3559
Cr 267.716	-0.2080	ppb	0.0119	5.7	0.7019
Cu 324.754	-0.2421	ppb	0.1891	78.1	96.0484
Fe 271.441	2.3505	ppb	2.3986	102.0	6.4023
K 766.491	2.7441	ppb	0.2807	10.2	359.954
Mg 279.078	5.0763	ppb	2.8688	56.5	32.1452
Mn 257.610	-0.1571	ppb	0.0296	18.9	36.0582
Mo 202.032	-0.8279	ppb	0.3515	42.5	9.9334
Na 330.237	51.2083	ppb	80.4348	157.1	-1.2005
Ni 231.604	-0.1547	ppb	1.1135	719.9	0.5842
Pb 220.353	-0.1670	ppb	0.9717	581.7	2.2081
Sb 206.834	-1.5736	ppb	4.3633	277.3	-0.2065
Se 196.026	-0.6750	ppb	10.1408	1502.3	-0.1420
Sn 189.925	-1.7711	ppb	1.8653	105.3	-0.5254
Sr 216.596	-0.0688	ppb	0.1583	230.2	9.8724
Ti 334.941	-0.3203	ppb	0.0601	18.8	-111.742
Tl 190.794	2.6463	ppb	0.5195	19.6	1.4886
V 292.401	0.2121	ppb	0.3211	151.4	0.3246
Zn 206.200	-0.1132	ppb	0.4595	406.1	-2.5900

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**680-88367-a-8-bPDS (Samp)**      **3/28/2013, 3:59:52 AM**      **Rack 3, Tube 11**  
**Weight: 1**      **Volume: 1**      **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	50.5017	48.4340	49.9443
Al 308.215	1980.57	1948.70	1964.53
As 188.980	2153.46	2123.08	2157.14
B 249.678	1039.90	1023.95	1035.40
Ba 389.178	2090.12	2052.15	2073.05
Be 313.042	51.5870	50.5857	51.1017
Ca 370.602	5225	5103	5106
Cd 226.502	51.5115	50.8060	51.0156
Co 228.615	524.334	513.134	516.178
Cr 267.716	206.467	202.779	204.342
Cu 324.754	256.510	246.422	251.455
Fe 271.441	1035.01	1007.36	1017.07
K 766.491	5303.01	5202.15	5244.79
Mg 279.078	5283.29	5160.43	5161.96
Mn 257.610	525.974	515.630	520.511
Mo 202.032	528.891	516.885	516.823
Na 330.237	5489.97	5144.07	5335.75
Ni 231.604	514.521	502.799	511.002
Pb 220.353	514.628	509.582	506.780
Sb 206.834	500.554	494.501	496.934
Se 196.026	2061.97	2001.91	2015.21
Sn 189.925	1078.23	1057.19	1050.73
Sr 216.596	542.863	530.506	530.884
Ti 334.941	1054.27	1029.32	1030.68
Tl 190.794	2152.79	2110.64	2128.48
V 292.401	514.380	504.554	510.282
Zn 206.200	510.487	495.644	503.075

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	49.6267	ppb	1.0699	2.2	3419.42
Al 308.215	1964.60	ppb	15.9347	0.8	11551.3
As 188.980	2144.56	ppb	18.6915	0.9	1166.29
B 249.678	1033.08	ppb	8.2235	0.8	9819.55
Ba 389.178	2071.77	ppb	19.0213	0.9	49573.7
Be 313.042	51.0915	ppb	0.5008	1.0	98633.8
Ca 370.602	5145	ppb	69.87	1.4	16728
Cd 226.502	51.1110	ppb	0.3623	0.7	1834.97
Co 228.615	517.882	ppb	5.7912	1.1	5945.93
Cr 267.716	204.529	ppb	1.8510	0.9	8558.96
Cu 324.754	251.463	ppb	5.0442	2.0	12258.0
Fe 271.441	1019.81	ppb	14.0296	1.4	1795.23
K 766.491	5249.98	ppb	50.6304	1.0	257889
Mg 279.078	5201.90	ppb	70.4964	1.4	10608.4
Mn 257.610	520.705	ppb	5.1747	1.0	118176
Mo 202.032	520.867	ppb	6.9496	1.3	3377.15
Na 330.237	5323.26	ppb	173.286	3.3	254.600
Ni 231.604	509.440	ppb	6.0150	1.2	1205.16
Pb 220.353	510.330	ppb	3.9772	0.8	822.203
Sb 206.834	497.330	ppb	3.0456	0.6	472.080
Se 196.026	2026.37	ppb	31.5457	1.6	929.037
Sn 189.925	1062.05	ppb	14.3782	1.4	803.940
Sr 216.596	534.751	ppb	7.0277	1.3	5024.14
Ti 334.941	1038.09	ppb	14.0285	1.4	264737
Tl 190.794	2130.63	ppb	21.1573	1.0	1405.78
V 292.401	509.739	ppb	4.9354	1.0	13917.2
Zn 206.200	503.069	ppb	7.4211	1.5	575.517

E03272013.wvq. All Data Report 3/28/2013, 2:04:12 PM

680-88408-a-1-b^20 (Samp)      3/28/2013, 4:05:18 AM      Rack 3, Tube 12  
 Weight: 1      Volume: 1      Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.6083u	-0.4325u	-0.5508u
Al 308.215	37.0209	34.2269	35.3285
As 188.980	6.0721	2.5104	4.8526
B 249.678	36.0873	34.3840	31.9165
Ba 389.178	10.2975	9.8062	11.0063
Be 313.042	0.0240	0.0326	0.0180
Ca 370.602	3228	3221	3209
Cd 226.502	-0.2763u	-0.1991u	-0.0165u
Co 228.615	-1.0088u	-0.0454	-0.0134
Cr 267.716	4.5365	4.5469	4.4085
Cu 324.754	-0.4803u	0.2642	-0.3768u
Fe 271.441	28.8881	25.8995	28.7378
K 766.491	3120.56	3127.25	3128.50
Mg 279.078	6790.48	6779.61	6753.72
Mn 257.610	11.7326	11.6163	11.6715
Mo 202.032	-0.1380u	0.4843	0.0663
Na 330.237	119216x	118830x	118599x
Ni 231.604	1.4579	1.7439	0.3564
Pb 220.353	-4.0310u	1.9338	0.3465
Sb 206.834	-2.4309u	2.4361	-3.8877u
Se 196.026	-1.6243u	-7.4457u	-6.9336u
Sn 189.925	-2.1925u	-3.0478u	0.4500
Sr 216.596	50.0899	48.6409	50.2520
Ti 334.941	36.7756	36.9435	36.7361
Tl 190.794	5.5263	1.6663	3.2271
V 292.401	19.3298	19.2914	19.3277
Zn 206.200	3.2163	2.7637	1.7088

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.5306b	ppb	0.0896	16.9	-71.1157
Al 308.215	35.5255b	ppb	1.4074	4.0	446.811
As 188.980	4.4784b	ppb	1.8101	40.4	4.5257
B 249.678	34.1292b	ppb	2.0970	6.1	670.966
Ba 389.178	10.3700b	ppb	0.6033	5.8	248.134
Be 313.042	0.0248b	ppb	0.0073	29.5	-139.008
Ca 370.602	3219b	ppb	9.820	0.3	10394
Cd 226.502	-0.1640b	ppb	0.1334	81.4	6.6532
Co 228.615	-0.3559b	ppb	0.5657	159.0	10.5644
Cr 267.716	4.4973b	ppb	0.0771	1.7	199.234
Cu 324.754	-0.1977b	ppb	0.4033	204.0	98.0475
Fe 271.441	27.8418b	ppb	1.6837	6.0	49.2750
K 766.491	3125.43b	ppb	4.2660	0.1	153618
Mg 279.078	6774.60b	ppb	18.8832	0.3	13819.9
Mn 257.610	11.6735b	ppb	0.0582	0.5	2755.32
Mo 202.032	0.1375b	ppb	0.3172	230.7	16.1332
Na 330.237	118882xb	ppb	311.588	0.3	6032.79
Ni 231.604	1.1861b	ppb	0.7326	61.8	3.7539
Pb 220.353	-0.5836b	ppb	3.0892	529.4	1.5191
Sb 206.834	-1.2942b	ppb	3.3116	255.9	0.0914
Se 196.026	-5.3345b	ppb	3.2233	60.4	-2.2748
Sn 189.925	-1.5968b	ppb	1.8234	114.2	-0.3532
Sr 216.596	49.6609b	ppb	0.8871	1.8	478.509
Ti 334.941	36.8184b	ppb	0.1101	0.3	9379.06
Tl 190.794	3.4732b	ppb	1.9417	55.9	2.0280
V 292.401	19.3163b	ppb	0.0216	0.1	525.001
Zn 206.200	2.5629b	ppb	0.7736	30.2	6.6616

E03272013.wvq. All Data Report 3/28/2013, 2:04:12 PM

Cont Calib Verif (CCV)                      3/28/2013, 4:10:44 AM                      Rack 3, Tube 13  
 Weight: 1                                      Volume: 1                                      Dilution: 1

Label	Replicates Concentration		
Ag 328.068	501.555	498.579	497.906
Al 308.215	4946.55	4980.73	4943.11
As 188.980	470.554	488.607	464.927
B 249.678	2482.05	2520.68	2522.78
Ba 389.178	4889.39	4913.37	4891.36
Be 313.042	487.874	491.911	488.435
Ca 370.602	4884	4914	4884
Cd 226.502	486.940	488.368	487.248
Co 228.615	491.109	495.907	493.479
Cr 267.716	4892.78	4920.19	4879.87
Cu 324.754	5018.42	4850.86	4834.93
Fe 271.441	4912.72	4957.33	4922.93
K 766.491	9883.24	9939.17	9952.69
Mg 279.078	4873.50	4908.95	4870.67
Mn 257.610	4932.63	4964.93	4924.70
Mo 202.032	484.368	486.162	484.564
Na 330.237	7400.71	7571.20	7522.55
Ni 231.604	2459.43	2468.26	2446.86
Pb 220.353	491.598	483.410	484.201
Sb 206.834	904.833	920.470	903.128
Se 196.026	4797.60	4831.83	4831.94
Sn 189.925	4930.50	4986.54	4989.58
Sr 216.596	2443.64	2458.38	2440.81
Ti 334.941	493.275	496.577	492.491
Tl 190.794	4889.81	4940.32	4905.15
V 292.401	4896.84	4925.53	4907.50
Zn 206.200	2430.48	2446.59	2425.34

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	499.347	ppb	1.9416	0.4	34816.3	99.86934
Al 308.215	4956.80	ppb	20.7953	0.4	28600.2	99.13592
As 188.980	474.696	ppb	12.3716	2.6	259.669	94.93918
B 249.678	2508.50	ppb	22.9346	0.9	23329.5	100.34019
Ba 389.178	4898.04	ppb	13.3106	0.3	117214	97.96079
Be 313.042	489.407	ppb	2.1868	0.4	947016	97.88137
Ca 370.602	4894	ppb	17.31	0.4	15662	97.87905
Cd 226.502	487.519	ppb	0.7512	0.2	17379.3	97.50372
Co 228.615	493.498	ppb	2.3991	0.5	5666.56	98.69965
Cr 267.716	4897.61	ppb	20.5905	0.4	204727	97.95225
Cu 324.754	4901.40	ppb	101.654	2.1	236722	98.02810
Fe 271.441	4930.99	ppb	23.3767	0.5	8386.86	98.61987
K 766.491	9925.03	ppb	36.8196	0.4	487335	99.25032
Mg 279.078	4884.37	ppb	21.3313	0.4	9893.10	97.68745
Mn 257.610	4940.75	ppb	21.3121	0.4	1120459	98.81503
Mo 202.032	485.031	ppb	0.9842	0.2	3138.24	97.00629
Na 330.237	7498.15	ppb	87.8246	1.2	353.872	99.97536
Ni 231.604	2458.18	ppb	10.7530	0.4	5811.59	98.32726
Pb 220.353	486.403	ppb	4.5167	0.9	784.917	97.28056
Sb 206.834	909.477	ppb	9.5581	1.1	914.235	90.94769
Se 196.026	4820.46	ppb	19.7946	0.4	2210.68	96.40917
Sn 189.925	4968.87	ppb	33.2699	0.7	3758.28	99.37744
Sr 216.596	2447.61	ppb	9.4302	0.4	23014.8	97.90441
Ti 334.941	494.114	ppb	2.1686	0.4	126005	98.82288
Tl 190.794	4911.76	ppb	25.8949	0.5	3238.58	98.23517
V 292.401	4909.96	ppb	14.5022	0.3	134658	98.19920
Zn 206.200	2434.14	ppb	11.0848	0.5	3681.64	97.36554

E03272013.vvq. All Data Report 3/28/2013, 2:04:12 PM

Cont Calib Blank (CCB) 3/28/2013, 4:16:11 AM Rack 3, Tube 14

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.1424	0.4600	0.3302
Al 308.215	-1.9145u	1.1994	1.6398
As 188.980	-6.8961u	-0.0485u	3.9121
B 249.678	33.2101	29.3865	23.4490
Ba 389.178	-0.5181u	-0.0697u	0.2579
Be 313.042	-0.0220u	-0.0296u	-0.0344u
Ca 370.602	-1.244u	0.8988	-2.485u
Cd 226.502	0.0346	-0.1318u	-0.2564u
Co 228.615	-0.2925u	-0.1135u	0.0941
Cr 267.716	-0.4726u	-0.2525u	-0.1693u
Cu 324.754	-0.0684u	-0.0036u	0.5239
Fe 271.441	-1.0792u	-1.3130u	-1.4212u
K 766.491	0.0038	-0.4571u	-0.3453u
Mg 279.078	-2.0491u	2.4041	7.5519
Mn 257.610	-0.0718u	-0.0339u	0.0135
Mo 202.032	-0.1738u	0.7274	0.3493
Na 330.237	-124.616u	90.1808	35.6798
Ni 231.604	0.7140	-1.8022u	-0.8239u
Pb 220.353	0.0744	-0.5392u	-1.1790u
Sb 206.834	6.5474	7.9287	1.4083
Se 196.026	7.4088	11.0314	10.8419
Sn 189.925	-0.2059u	1.3095	-3.7460u
Sr 216.596	-0.7367u	-0.4764u	-0.3649u
Ti 334.941	-0.0977u	-0.1929u	-0.1754u
Tl 190.794	-2.1486u	0.0234	-3.9378u
V 292.401	0.6652	0.8279	0.7683
Zn 206.200	-0.8117u	-0.6354u	-0.4862u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.3109	ppb	0.1596	51.4	-10.2555	0.31086
Al 308.215	0.3082	ppb	1.9375	628.6	245.522	0.30823
As 188.980	-1.0108	ppb	5.4680	540.9	1.5221	-1.01084
B 249.678	28.6819	ppb	4.9185	17.1	621.089	28.68185
Ba 389.178	-0.1100	ppb	0.3896	354.2	-20.9992	-0.10998
Be 313.042	-0.0287	ppb	0.0063	21.8	-228.255	-0.02868
Ca 370.602	-0.9437	ppb	1.712	181.4	-6.789	-0.94368
Cd 226.502	-0.1179	ppb	0.1460	123.8	8.8035	-0.11787
Co 228.615	-0.1040	ppb	0.1935	186.1	12.4774	-0.10396
Cr 267.716	-0.2981	ppb	0.1567	52.6	-3.0691	-0.29814
Cu 324.754	0.1506	ppb	0.3249	215.7	115.039	0.15063
Fe 271.441	-1.2711	ppb	0.1748	13.8	0.3632	-1.27113
K 766.491	-0.2662	ppb	0.2404	90.3	212.208	-0.26623
Mg 279.078	2.6356	ppb	4.8047	182.3	27.1725	2.63564
Mn 257.610	-0.0308	ppb	0.0427	138.9	64.7065	-0.03076
Mo 202.032	0.3010	ppb	0.4526	150.4	17.2206	0.30097
Na 330.237	0.4148	ppb	111.656	26920.7	-3.7741	0.41476
Ni 231.604	-0.6374	ppb	1.2684	199.0	-0.5567	-0.63735
Pb 220.353	-0.5479	ppb	0.6267	114.4	1.5937	-0.54794
Sb 206.834	5.2948	ppb	3.4359	64.9	6.3380	5.29481
Se 196.026	9.7607	ppb	2.0390	20.9	4.6410	9.76070
Sn 189.925	-0.8808	ppb	2.5945	294.6	0.1479	-0.88078
Sr 216.596	-0.5260	ppb	0.1908	36.3	5.5306	-0.52599
Ti 334.941	-0.1553	ppb	0.0506	32.6	-69.6770	-0.15531
Tl 190.794	-2.0210	ppb	1.9837	98.2	-1.5925	-2.02098
V 292.401	0.7538	ppb	0.0823	10.9	14.9935	0.75379
Zn 206.200	-0.6444	ppb	0.1629	25.3	5.17837	-0.64444

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680-88527-b-7-b^10 (Samp) 3/28/2013, 4:21:37 AM Rack 3, Tube 15

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.0879	0.8821	-0.1191u
Al 308.215	9384.26	9378.22	9396.53
As 188.980	28.0981	17.4035	27.9643
B 249.678	-9.3450u	-10.6058u	-11.0611u
Ba 389.178	294.749	293.557	294.512
Be 313.042	1.1855	1.1862	1.1903
Ca 370.602	25042	24978	24983
Cd 226.502	16.0759	16.1434	16.2168
Co 228.615	9.3897	8.3872	8.4413
Cr 267.716	33.9893	34.0834	34.0941
Cu 324.754	84.9950	84.1144	86.6110
Fe 271.441	52613.8	52606.8	52883.6
K 766.491	1101.21	1098.86	1101.06
Mg 279.078	4201.56	4205.53	4215.96
Mn 257.610	1302.69	1300.16	1304.49
Mo 202.032	2.4406	2.2752	1.2365
Na 330.237	104.208u	248.802u	-81.7362u
Ni 231.604	12.8487	15.0447	13.7753
Pb 220.353	2625.68	2621.73	2634.17
Sb 206.834	19.5063	27.8273	23.2302
Se 196.026	2.1860	0.5029	5.6859
Sn 189.925	1052.19	1043.83	1042.74
Sr 216.596	40.0488	41.3453	41.0771
Ti 334.941	176.097	175.540	175.131
Tl 190.794	7.7819	7.1382	4.4083u
V 292.401	39.2296	39.0000	39.4671
Zn 206.200	909.552	910.825	915.021

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.2836	ppb	0.5285	186.3	-8.3685
Al 308.215	9386.34	ppb	9.3264	0.1	53984.4
As 188.980	24.4886	ppb	6.1363	25.1	15.0802
B 249.678	-10.3373	ppb	0.8890	8.6	215.579
Ba 389.178	294.273	ppb	0.6306	0.2	7111.52
Be 313.042	1.1873	ppb	0.0026	0.2	2131.88
Ca 370.602	25001	ppb	35.38	0.1	76419
Cd 226.502	16.1454	ppb	0.0705	0.4	710.077
Co 228.615	8.7394	ppb	0.5638	6.5	115.705
Cr 267.716	34.0556	ppb	0.0577	0.2	1448.71
Cu 324.754	85.2402	ppb	1.2662	1.5	4238.03
Fe 271.441	52701.4	ppb	157.824	0.3	88332.1
K 766.491	1100.38	ppb	1.3146	0.1	54230.6
Mg 279.078	4207.69	ppb	7.4365	0.2	8578.23
Mn 257.610	1302.45	ppb	2.1779	0.2	295575
Mo 202.032	1.9841	ppb	0.6527	32.9	25.6710
Na 330.237	90.4247	ppb	165.700	183.2	-22.8676
Ni 231.604	13.8895	ppb	1.1025	7.9	34.7692
Pb 220.353	2627.19	ppb	6.3560	0.2	4229.16
Sb 206.834	23.5213	ppb	4.1681	17.7	25.4077
Se 196.026	2.7916	ppb	2.6441	94.7	1.8885
Sn 189.925	1046.25	ppb	5.1707	0.5	791.999
Sr 216.596	40.8237	ppb	0.6844	1.7	415.851
Ti 334.941	175.589	ppb	0.4853	0.3	44774.0
Tl 190.794	6.4428	ppb	1.7911	27.8	0.9629
V 292.401	39.2322	ppb	0.2336	0.6	1073.77
Zn 206.200	911.799	ppb	2.8617	0.3	1286.34

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680-88527-b-14-b^5 (Samp) 3/28/2013, 4:27:03 AM Rack 3, Tube 16

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	1.1683	-0.2075	-0.1751
Al 308.215	28081.3	27985.6	27806.0
As 188.980	29.5860	35.5362	33.1683
B 249.678	31.6684	31.8442	32.6728
Ba 389.178	449.553	447.193	446.247
Be 313.042	9.7084	9.6467	9.5847
Ca 370.602	36514	36361	36093
Cd 226.502	2.6377	2.1872	2.4893
Co 228.615	36.7806	37.4540	36.4714
Cr 267.716	198.627	198.177	196.754
Cu 324.754	678.957	670.360	665.969
Fe 271.441	105895	105562	104866
K 766.491	1687.56	1671.37	1655.28
Mg 279.078	5042.88	5007.37	4990.25
Mn 257.610	5430.40	5421.48	5391.69
Mo 202.032	19.1574	19.2112	18.1911
Na 330.237	1777.61u	1941.54u	1924.19u
Ni 231.604	85.8393	85.0530	85.7806
Pb 220.353	1295.21	1301.44	1297.46
Sb 206.834	2.7769	8.7201	6.7452
Se 196.026	6.9548	0.0617	10.9768
Sn 189.925	310.240	309.459	300.645
Sr 216.596	84.4726	84.2625	83.7879
Ti 334.941	916.654	910.966	904.693
Tl 190.794	14.5877	26.5988	14.2021
V 292.401	102.847	102.372	101.725
Zn 206.200	13559.2	13505.1	13449.8

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.2619	ppb	0.7851	299.8	6.0462
Al 308.215	27957.6	ppb	139.721	0.5	160315
As 188.980	32.7635	ppb	2.9957	9.1	19.1811
B 249.678	32.0618	ppb	0.5364	1.7	555.695
Ba 389.178	447.664	ppb	1.7026	0.4	10861.5
Be 313.042	9.6466	ppb	0.0618	0.6	18508.1
Ca 370.602	36323	ppb	213.3	0.6	108863
Cd 226.502	2.4381	ppb	0.2296	9.4	344.597
Co 228.615	36.9020	ppb	0.5024	1.4	455.408
Cr 267.716	197.853	ppb	0.9777	0.5	8323.24
Cu 324.754	671.762	ppb	6.6065	1.0	32571.2
Fe 271.441	105441	ppb	525.228	0.5	176729
K 766.491	1671.40	ppb	16.1373	1.0	82255.9
Mg 279.078	5013.50	ppb	26.8454	0.5	10159.7
Mn 257.610	5414.52	ppb	20.2703	0.4	1228161
Mo 202.032	18.8533	ppb	0.5740	3.0	132.118
Na 330.237	1881.11	ppb	90.0514	4.8	-45.8925
Ni 231.604	85.5576	ppb	0.4380	0.5	205.178
Pb 220.353	1298.04	ppb	3.1576	0.2	2090.91
Sb 206.834	6.0807	ppb	3.0268	49.8	11.1373
Se 196.026	5.9978	ppb	5.5201	92.0	4.4435
Sn 189.925	306.781	ppb	5.3286	1.7	232.813
Sr 216.596	84.1743	ppb	0.3508	0.4	842.480
Ti 334.941	910.771	ppb	5.9826	0.7	232278
Tl 190.794	18.4629	ppb	7.0485	38.2	3.1556
V 292.401	102.315	ppb	0.5629	0.6	2806.91
Zn 206.200	13504.7	ppb	54.7312	0.4	20493.6



E03272013.wvq. All Data Report 3/28/2013, 2:04:12 PM

680-88527-b-15-b^5 (Samp) 3/28/2013, 4:32:30 AM Rack 3, Tube 17

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.3322	-0.0633	-0.0247
Al 308.215	26309.8	26336.1	26309.7
As 188.980	29.1723	23.7965	24.7848
B 249.678	25.0631	25.5854	26.2248
Ba 389.178	511.349	511.693	509.806
Be 313.042	6.7835	6.7856	6.7947
Ca 370.602	43832	43858	43886
Cd 226.502	2.9056	2.9619	2.8140
Co 228.615	26.2341	27.6258	27.0199
Cr 267.716	266.836	267.905	268.373
Cu 324.754	852.569	854.419	851.778
Fe 271.441	83144.3	83159.3	83279.6
K 766.491	2036.49	2036.37	2032.08
Mg 279.078	4895.77	4899.52	4904.03
Mn 257.610	9543.51	9564.02	9546.99
Mo 202.032	11.7489	11.7458	11.3409
Na 330.237	1015.55u	1356.37u	1466.81u
Ni 231.604	106.503	103.293	104.771
Pb 220.353	870.158	878.907	876.347
Sb 206.834	9.6852	12.5675	9.4878
Se 196.026	5.3363	2.7660	1.6089
Sn 189.925	249.420	245.977	245.769
Sr 216.596	88.2991	88.4167	88.7737
Ti 334.941	1331.50	1332.26	1333.45
Tl 190.794	41.6376	33.9205	38.3268
V 292.401	131.534	131.682	131.625
Zn 206.200	6511.40	6539.00	6522.58

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1401	ppb	0.1675	119.6	-4.3580
Al 308.215	26318.5	ppb	15.2158	0.1	150929
As 188.980	25.9178	ppb	2.8614	11.0	15.7201
B 249.678	25.6244	ppb	0.5819	2.3	517.051
Ba 389.178	510.949	ppb	1.0048	0.2	12342.8
Be 313.042	6.7879	ppb	0.0059	0.1	12975.3
Ca 370.602	43859	ppb	26.95	0.1	135222
Cd 226.502	2.8938	ppb	0.0747	2.6	309.209
Co 228.615	26.9599	ppb	0.6978	2.6	353.816
Cr 267.716	267.705	ppb	0.7880	0.3	11254.9
Cu 324.754	852.922	ppb	1.3556	0.2	41311.0
Fe 271.441	83194.4	ppb	74.1334	0.1	139443
K 766.491	2034.98	ppb	2.5132	0.1	100100
Mg 279.078	4899.77	ppb	4.1391	0.1	9860.65
Mn 257.610	9551.50	ppb	10.9742	0.1	2166187
Mo 202.032	11.6119	ppb	0.2347	2.0	86.3095
Na 330.237	1279.58	ppb	235.231	18.4	-21.7103
Ni 231.604	104.856	ppb	1.6066	1.5	250.373
Pb 220.353	875.137	ppb	4.4981	0.5	1411.22
Sb 206.834	10.5802	ppb	1.7239	16.3	15.6650
Se 196.026	3.2370	ppb	1.9078	58.9	4.0655
Sn 189.925	247.056	ppb	2.0505	0.8	187.652
Sr 216.596	88.4965	ppb	0.2472	0.3	875.841
Ti 334.941	1332.40	ppb	0.9802	0.1	339805
Tl 190.794	37.9617	ppb	3.8715	10.2	12.7870
V 292.401	131.614	ppb	0.0750	0.1	3616.66
Zn 206.200	6524.33	ppb	13.8835	0.2	9901.85

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680-88527-a-37-a^5 (Samp) 3/28/2013, 4:37:56 AM Rack 3, Tube 18

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-1.2331u	0.1306	-0.2734
Al 308.215	24924.1	24965.1	24946.4
As 188.980	15.7668	29.6387	20.7203
B 249.678	35.5893	36.9315	36.4830
Ba 389.178	461.670	463.664	464.712
Be 313.042	7.2746	7.2982	7.2875
Ca 370.602	35855	35965	35960
Cd 226.502	2.1109	2.4559	2.4259
Co 228.615	29.2609	30.1756	29.1354
Cr 267.716	171.871	171.818	172.268
Cu 324.754	574.064	579.412	582.611
Fe 271.441	90289.3	90430.1	90457.5
K 766.491	1588.72	1583.49	1585.32
Mg 279.078	4747.56	4760.50	4743.49
Mn 257.610	6257.66	6284.21	6263.79
Mo 202.032	13.5704	13.7048	13.7658
Na 330.237	1283.59u	1610.57u	1326.22u
Ni 231.604	65.9965	66.5021	68.2733
Pb 220.353	1076.74	1084.91	1076.60
Sb 206.834	7.4090	8.2578	4.1409
Se 196.026	-4.2874u	4.1550	0.7695
Sn 189.925	243.895	255.574	248.180
Sr 216.596	76.1572	77.6441	77.0032
Ti 334.941	914.683	918.614	918.052
Tl 190.794	21.8857	31.1771	21.1591
V 292.401	90.4104	90.4932	90.6305
Zn 206.200	10719.6	10722.6	10720.1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.4587	ppb	0.7005	152.7	-40.3800
Al 308.215	24945.2	ppb	20.4953	0.1	143067
As 188.980	22.0419	ppb	7.0297	31.9	13.4913
B 249.678	36.3346	ppb	0.6833	1.9	608.516
Ba 389.178	463.349	ppb	1.5455	0.3	11214.0
Be 313.042	7.2868	ppb	0.0118	0.2	13940.3
Ca 370.602	35927	ppb	62.21	0.2	108846
Cd 226.502	2.3309	ppb	0.1911	8.2	306.013
Co 228.615	29.5240	ppb	0.5679	1.9	371.753
Cr 267.716	171.986	ppb	0.2463	0.1	7242.14
Cu 324.754	578.696	ppb	4.3182	0.7	28073.5
Fe 271.441	90392.3	ppb	90.2097	0.1	151506
K 766.491	1585.84	ppb	2.6536	0.2	78056.8
Mg 279.078	4750.52	ppb	8.8797	0.2	9609.10
Mn 257.610	6268.55	ppb	13.9003	0.2	1421775
Mo 202.032	13.6803	ppb	0.0999	0.7	99.4092
Na 330.237	1406.80	ppb	177.759	12.6	-45.0761
Ni 231.604	66.9240	ppb	1.1956	1.8	160.849
Pb 220.353	1079.42	ppb	4.7576	0.4	1739.42
Sb 206.834	6.6026	ppb	2.1737	32.9	11.0974
Se 196.026	0.2124	ppb	4.2487	2000.8	1.9471
Sn 189.925	249.216	ppb	5.9079	2.4	189.283
Sr 216.596	76.9348	ppb	0.7458	1.0	769.313
Ti 334.941	917.116	ppb	2.1263	0.2	233894
Tl 190.794	24.7406	ppb	5.5860	22.6	6.9751
V 292.401	90.5114	ppb	0.1111	0.1	2484.96
Zn 206.200	10720.8	ppb	1.6177	0.01	16269.5

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680-88527-a-38-a^5 (Samp) 3/28/2013, 4:43:22 AM Rack 3, Tube 19

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.1253	0.0356	0.3795
Al 308.215	23256.6	23346.4	23216.3
As 188.980	27.3309	21.0924	21.3496
B 249.678	7.0321u	9.0967	8.4796
Ba 389.178	562.610	566.251	563.802
Be 313.042	5.5085	5.5501	5.5022
Ca 370.602	33311	33563	33348
Cd 226.502	3.9526	4.1222	4.0773
Co 228.615	32.4687	33.2444	33.0552
Cr 267.716	151.944	152.610	151.563
Cu 324.754	372.637	375.401	371.061
Fe 271.441	79739.0	79961.1	79488.1
K 766.491	1840.26	1845.47	1836.31
Mg 279.078	3575.88	3582.21	3562.49
Mn 257.610	10583.6	10619.5	10548.8
Mo 202.032	11.0799	11.3671	11.1420
Na 330.237	1296.20u	1135.85u	977.052u
Ni 231.604	49.5594	51.7734	51.7101
Pb 220.353	801.290	801.088	802.608
Sb 206.834	5.2981	1.3835	6.8595
Se 196.026	4.8163	14.4179	-3.7506
Sn 189.925	172.701	163.435	164.650
Sr 216.596	82.6899	83.1485	82.1462
Ti 334.941	925.949	933.806	927.516
Tl 190.794	44.3488	26.6805	40.2783
V 292.401	78.5601	79.2833	79.1042
Zn 206.200	7655.16	7661.22	7640.31

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0966	ppb	0.2578	266.9	16.5326
Al 308.215	23273.1	ppb	66.6182	0.3	133493
As 188.980	23.2577	ppb	3.5299	15.2	14.2297
B 249.678	8.2028	ppb	1.0598	12.9	360.621
Ba 389.178	564.221	ppb	1.8561	0.3	13608.7
Be 313.042	5.5203	ppb	0.0260	0.5	10519.1
Ca 370.602	33407	ppb	136.1	0.4	101722
Cd 226.502	4.0507	ppb	0.0879	2.2	342.408
Co 228.615	32.9228	ppb	0.4045	1.2	411.399
Cr 267.716	152.039	ppb	0.5299	0.3	6422.46
Cu 324.754	373.033	ppb	2.1967	0.6	18140.7
Fe 271.441	79729.4	ppb	236.629	0.3	133636
K 766.491	1840.68	ppb	4.5984	0.2	90563.9
Mg 279.078	3573.53	ppb	10.0718	0.3	7143.67
Mn 257.610	10584.0	ppb	35.3737	0.3	2400287
Mo 202.032	11.1963	ppb	0.1511	1.3	83.8687
Na 330.237	1136.37	ppb	159.574	14.0	-33.1824
Ni 231.604	51.0143	ppb	1.2604	2.5	123.040
Pb 220.353	801.662	ppb	0.8252	0.1	1293.50
Sb 206.834	4.5137	ppb	2.8210	62.5	8.6950
Se 196.026	5.1612	ppb	9.0892	176.1	5.1749
Sn 189.925	166.929	ppb	5.0359	3.0	127.056
Sr 216.596	82.6615	ppb	0.5018	0.6	819.536
Ti 334.941	929.090	ppb	4.1584	0.4	236941
Tl 190.794	37.1025	ppb	9.2524	24.9	11.3206
V 292.401	78.9826	ppb	0.3767	0.5	2169.79
Zn 206.200	7652.23	ppb	10.7591	0.1	11613.5

E03272013.vvq. All Data Report 3/28/2013, 2:04:12 PM

mb 680-270553/1-a (Samp) 3/28/2013, 4:48:49 AM Rack 3, Tube 20

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.7332u	-1.7846u	-1.4430u
Al 308.215	4.1485	2.3707	4.0567
As 188.980	-12.8632u	-1.5026u	-5.9895u
B 249.678	-30.3244u	-29.9925u	-31.2780u
Ba 389.178	0.0812	0.0690	-0.7672u
Be 313.042	-0.0472u	-0.0385u	-0.0259u
Ca 370.602	16.17	13.91	17.66
Cd 226.502	0.0783	-0.1270u	-0.0896u
Co 228.615	-0.1511u	-0.5338u	-0.1498u
Cr 267.716	-0.1046u	0.1760	-0.0961u
Cu 324.754	-0.8566u	0.3031	-0.4659u
Fe 271.441	7.4504	17.8711	21.4355
K 766.491	10.3875	10.4979	10.0928
Mg 279.078	10.4344	2.9334	5.3742
Mn 257.610	0.0814	0.1070	0.1313
Mo 202.032	-1.5982u	-0.3293u	-0.9678u
Na 330.237	54.4529	47.0495	-39.8732u
Ni 231.604	1.9849	3.3241	4.1999
Pb 220.353	-0.0841u	-2.3244u	-1.3114u
Sb 206.834	1.4802	1.7721	0.0054
Se 196.026	4.3345	3.4327	-1.1011u
Sn 189.925	12.4296	13.2641	13.2140
Sr 216.596	-0.3856u	0.0767	-0.3314u
Ti 334.941	0.1952	0.1731	0.0933
Tl 190.794	-7.2249u	-3.4404u	-8.9961u
V 292.401	0.6495	0.1846	0.4729
Zn 206.200	2.2895	2.1351	0.1298

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.3203	ppb	0.5364	40.6	-124.282
Al 308.215	3.5253	ppb	1.0010	28.4	263.767
As 188.980	-6.7851	ppb	5.7219	84.3	-1.6125
B 249.678	-30.5317	ppb	0.6673	2.2	78.7321
Ba 389.178	-0.2057	ppb	0.4864	236.5	-23.2662
Be 313.042	-0.0372	ppb	0.0107	28.8	-244.515
Ca 370.602	15.91	ppb	1.890	11.9	46.45
Cd 226.502	-0.0461	ppb	0.1094	237.3	11.3933
Co 228.615	-0.2782	ppb	0.2213	79.5	10.5266
Cr 267.716	-0.0082	ppb	0.1596	1943.2	9.0570
Cu 324.754	-0.3398	ppb	0.5900	173.6	91.3316
Fe 271.441	15.5857	ppb	7.2673	46.6	28.6112
K 766.491	10.3261	ppb	0.2095	2.0	732.066
Mg 279.078	6.2474	ppb	3.8260	61.2	34.5281
Mn 257.610	0.1066	ppb	0.0250	23.4	95.9010
Mo 202.032	-0.9651	ppb	0.6345	65.7	9.0467
Na 330.237	20.5431	ppb	52.4528	255.3	-2.7759
Ni 231.604	3.1697	ppb	1.1155	35.2	8.4425
Pb 220.353	-1.2400	ppb	1.1218	90.5	0.4819
Sb 206.834	1.0859	ppb	0.9471	87.2	2.3420
Se 196.026	2.2220	ppb	2.9131	131.1	1.1859
Sn 189.925	12.9692	ppb	0.4680	3.6	10.6213
Sr 216.596	-0.2135	ppb	0.2527	118.4	8.4753
Ti 334.941	0.1539	ppb	0.0536	34.9	9.1844
Tl 190.794	-6.5538	ppb	2.8380	43.3	-4.5848
V 292.401	0.4357	ppb	0.2347	53.9	6.4916
Zn 206.200	1.5181	ppb	1.2048	79.4	5.0641

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ics 680-270553/2-a (Samp)      3/28/2013, 4:54:15 AM      Rack 3, Tube 21  
 Weight: 1      Volume: 1      Dilution: 1

Label	Replicates Concentration		
Ag 328.068	9.7645	9.6392	10.4252
Al 308.215	5115.01	5121.44	5131.97
As 188.980	100.419	93.9062	99.1183
B 249.678	175.673	177.647	178.507
Ba 389.178	104.362	105.812	105.241
Be 313.042	53.2566	53.2293	53.3909
Ca 370.602	5070	5066	5093
Cd 226.502	53.4022	53.2145	53.3168
Co 228.615	52.3200	52.8025	52.8782
Cr 267.716	105.925	105.073	105.833
Cu 324.754	102.876	103.837	104.378
Fe 271.441	5200.85	5221.67	5235.47
K 766.491	5178.45	5182.07	5197.62
Mg 279.078	5189.68	5179.89	5184.66
Mn 257.610	536.112	536.201	537.238
Mo 202.032	101.667	101.188	101.915
Na 330.237	5046.35	5035.55	5185.92
Ni 231.604	105.534	105.601	105.390
Pb 220.353	51.8506	53.8461	52.1239
Sb 206.834	45.2567	51.0693	50.3661
Se 196.026	98.8267	102.977	105.997
Sn 189.925	223.247	223.221	221.242
Sr 216.596	106.472	104.794	106.890
Ti 334.941	104.314	104.288	104.644
Tl 190.794	45.2931	39.3283	35.6865
V 292.401	105.530	105.281	105.660
Zn 206.200	105.601	104.768	105.005

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	9.9430	ppb	0.4223	4.2	661.335
Al 308.215	5122.81	ppb	8.5614	0.2	29585.8
As 188.980	97.8146	ppb	3.4467	3.5	55.1429
B 249.678	177.276	ppb	1.4532	0.8	1977.32
Ba 389.178	105.138	ppb	0.7303	0.7	2519.75
Be 313.042	53.2923	ppb	0.0865	0.2	102978
Ca 370.602	5076	ppb	14.54	0.3	15987
Cd 226.502	53.3111	ppb	0.0940	0.2	1922.92
Co 228.615	52.6669	ppb	0.3028	0.6	615.349
Cr 267.716	105.610	ppb	0.4677	0.4	4426.43
Cu 324.754	103.697	ppb	0.7608	0.7	5117.62
Fe 271.441	5219.33	ppb	17.4283	0.3	8759.18
K 766.491	5186.05	ppb	10.1866	0.2	254751
Mg 279.078	5184.74	ppb	4.8929	0.1	10573.1
Mn 257.610	536.517	ppb	0.6262	0.1	121773
Mo 202.032	101.590	ppb	0.3696	0.4	670.747
Na 330.237	5089.27	ppb	83.8716	1.6	251.513
Ni 231.604	105.508	ppb	0.1079	0.1	250.445
Pb 220.353	52.6068	ppb	1.0819	2.1	86.9294
Sb 206.834	48.8973	ppb	3.1725	6.5	48.2149
Se 196.026	102.600	ppb	3.6002	3.5	47.3295
Sn 189.925	222.570	ppb	1.1501	0.5	169.125
Sr 216.596	106.052	ppb	1.1094	1.0	1006.91
Ti 334.941	104.415	ppb	0.1987	0.2	26620.9
Tl 190.794	40.1026	ppb	4.8499	12.1	25.5397
V 292.401	105.490	ppb	0.1928	0.2	2871.05
Zn 206.200	105.125	ppb	0.4293	0.4	161.994

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ics 680-270553/3-a (Samp)      3/28/2013, 4:59:41 AM      Rack 3, Tube 22  
 Weight: 1      Volume: 1      Dilution: 1

Label	Replicates Concentration		
Ag 328.068	209.097	209.191	207.714
Al 308.215	2112.69	2091.73	2097.87
As 188.980	205.612	199.232	201.794
B 249.678	371.393	371.120	372.689
Ba 389.178	198.749	198.617	196.265
Be 313.042	203.289	202.118	201.425
Ca 370.602	19518	19408	19334
Cd 226.502	199.963	197.756	197.770
Co 228.615	199.496	200.069	198.296
Cr 267.716	199.854	198.995	198.201
Cu 324.754	200.124	199.907	199.635
Fe 271.441	20627.7	20502.7	20433.5
K 766.491	19576.2	19501.6	19527.6
Mg 279.078	19905.8	19750.0	19698.9
Mn 257.610	2046.08	2033.90	2024.03
Mo 202.032	198.150	196.113	194.464
Na 330.237	17759.5	17484.6	17375.8
Ni 231.604	202.307	198.941	195.883
Pb 220.353	198.446	194.795	196.776
Sb 206.834	184.718	186.643	182.760
Se 196.026	196.336	200.978	192.472
Sn 189.925	215.611	216.813	215.270
Sr 216.596	212.811	211.789	209.885
Ti 334.941	201.083	200.246	199.785
Tl 190.794	43.9787	43.9803	46.2858
V 292.401	199.431	198.913	197.936
Zn 206.200	186.628	190.340	189.190

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	208.667	ppb	0.8268	0.4	14553.2
Al 308.215	2100.76	ppb	10.7734	0.5	12293.9
As 188.980	202.212	ppb	3.2106	1.6	111.769
B 249.678	371.734	ppb	0.8382	0.2	3744.40
Ba 389.178	197.877	ppb	1.3976	0.7	4801.39
Be 313.042	202.277	ppb	0.9423	0.5	391382
Ca 370.602	19420	ppb	92.43	0.5	61084
Cd 226.502	198.496	ppb	1.2699	0.6	7126.91
Co 228.615	199.287	ppb	0.9051	0.5	2291.39
Cr 267.716	199.017	ppb	0.8270	0.4	8338.41
Cu 324.754	199.889	ppb	0.2446	0.1	9767.89
Fe 271.441	20521.3	ppb	98.4199	0.5	34428.5
K 766.491	19535.2	ppb	37.8600	0.2	958990
Mg 279.078	19784.9	ppb	107.743	0.5	40290.5
Mn 257.610	2034.67	ppb	11.0448	0.5	461610
Mo 202.032	196.243	ppb	1.8465	0.9	1280.99
Na 330.237	17540.0	ppb	197.726	1.1	877.882
Ni 231.604	199.044	ppb	3.2134	1.6	471.826
Pb 220.353	196.672	ppb	1.8277	0.9	318.852
Sb 206.834	184.707	ppb	1.9413	1.1	179.040
Se 196.026	196.595	ppb	4.2586	2.2	90.7953
Sn 189.925	215.898	ppb	0.8105	0.4	164.089
Sr 216.596	211.495	ppb	1.4850	0.7	2002.46
Ti 334.941	200.371	ppb	0.6578	0.3	51153.3
Tl 190.794	44.7483	ppb	1.3315	3.0	26.6909
V 292.401	198.760	ppb	0.7594	0.4	5413.88
Zn 206.200	188.719	ppb	1.9003	1.0	288.665

E03272013.wvq. All Data Report 3/28/2013, 2:04:12 PM

680-88518-a-21-c (Samp) 3/28/2013, 5:05:07 AM Rack 3, Tube 23

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.3391u	0.1393	0.1233
Al 308.215	66796.2	66649.6	66565.3
As 188.980	257.305	239.679	252.812
B 249.678	-15.2011u	-16.2218u	-17.2517u
Ba 389.178	768.950	766.180	766.660
Be 313.042	3.4067	3.4044	3.3973
Ca 370.602	20287	20217	20143
Cd 226.502	-0.4566	-0.2341	-0.5979
Co 228.615	20.2199	20.6689	21.3207
Cr 267.716	103.113	103.504	103.130
Cu 324.754	712.369	718.765	717.432
Fe 271.441	123758	123672	123699
K 766.491	5444.24	5454.27	5464.71
Mg 279.078	3679.11	3672.11	3669.42
Mn 257.610	480.347	479.281	479.276
Mo 202.032	9.7772	9.9274	9.2483
Na 330.237	168.356u	204.752u	131.672u
Ni 231.604	38.6310	42.4154	42.3660
Pb 220.353	1421.84	1417.95	1412.58
Sb 206.834	14.3514	24.1748	27.0185
Se 196.026	2.2258	6.6996	-7.6642u
Sn 189.925	110.634	106.744	110.378
Sr 216.596	270.636	271.191	269.724
Ti 334.941	1728.11	1726.20	1724.27
Tl 190.794	0.4947u	-4.9357u	14.2233
V 292.401	306.150	306.281	305.532
Zn 206.200	836.781	830.051	825.820

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0255	ppb	0.2717	1066.2	-41.5110
Al 308.215	66670.4	ppb	116.829	0.2	381959
As 188.980	249.932	ppb	9.1592	3.7	136.805
B 249.678	-16.2249	ppb	1.0253	6.3	96.7950
Ba 389.178	767.264	ppb	1.4800	0.2	18532.3
Be 313.042	3.4028	ppb	0.0049	0.1	6412.53
Ca 370.602	20216	ppb	71.87	0.4	55382
Cd 226.502	-0.4295	ppb	0.1834	42.7	284.767
Co 228.615	20.7365	ppb	0.5535	2.7	290.996
Cr 267.716	103.249	ppb	0.2213	0.2	4353.79
Cu 324.754	716.189	ppb	3.3742	0.5	34719.2
Fe 271.441	123709	ppb	44.2783	0.0	207347
K 766.491	5454.41	ppb	10.2375	0.2	267922
Mg 279.078	3673.55	ppb	5.0039	0.1	7498.91
Mn 257.610	479.635	ppb	0.6164	0.1	109185
Mo 202.032	9.6510	ppb	0.3567	3.7	71.5499
Na 330.237	168.260	ppb	36.5403	21.7	-51.1895
Ni 231.604	41.1374	ppb	2.1708	5.3	100.522
Pb 220.353	1417.46	ppb	4.6513	0.3	2280.91
Sb 206.834	21.8482	ppb	6.6464	30.4	25.7421
Se 196.026	0.4204	ppb	7.3501	1748.4	0.8061
Sn 189.925	109.252	ppb	2.1761	2.0	83.4353
Sr 216.596	270.517	ppb	0.7411	0.3	2603.69
Ti 334.941	1726.19	ppb	1.9224	0.1	440235
Tl 190.794	3.2608	ppb	9.8745	302.8	-2.6574
V 292.401	305.988	ppb	0.4001	0.1	8429.42
Zn 206.200	830.884	ppb	5.5275	0.7	1263.29

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Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-1.2691u	-1.7233u	-1.9541u
Al 308.215	74803.4	74920.9	74879.7
As 188.980	48.7582	54.3461	63.1468
B 249.678	-24.5201u	-27.5352u	-27.5990u
Ba 389.178	383.560	385.671	383.989
Be 313.042	2.6889	2.6709	2.6685
Ca 370.602	14232	14262	14253
Cd 226.502	-0.9611	-0.4643	-0.8890
Co 228.615	18.7862	18.4641	18.6433
Cr 267.716	140.581	141.114	140.847
Cu 324.754	425.964	423.019	425.820
Fe 271.441	116282	116640	116602
K 766.491	5587.56	5616.26	5606.69
Mg 279.078	3921.08	3920.60	3928.96
Mn 257.610	561.680	562.527	561.623
Mo 202.032	11.0331	10.6569	10.3517
Na 330.237	-73.0599u	314.735u	194.079u
Ni 231.604	33.9474	34.1203	34.8830
Pb 220.353	470.080	466.082	472.119
Sb 206.834	14.4297	23.3939	14.2253
Se 196.026	-3.2300u	6.7424	-3.5490u
Sn 189.925	95.4083	94.7650	97.5550
Sr 216.596	128.556	128.134	127.733
Ti 334.941	1600.70	1603.44	1600.03
Tl 190.794	6.0538u	10.7113	5.0169u
V 292.401	469.278	471.342	470.863
Zn 206.200	470.378	468.151	471.441

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.6488	ppb	0.3485	21.1	-147.761
Al 308.215	74868.0	ppb	59.6602	0.1	428892
As 188.980	55.4171	ppb	7.2538	13.1	31.2215
B 249.678	-26.5514	ppb	1.7594	6.6	8.9055
Ba 389.178	384.406	ppb	1.1158	0.3	9361.77
Be 313.042	2.6761	ppb	0.0112	0.4	4998.73
Ca 370.602	14249	ppb	15.32	0.1	36709
Cd 226.502	-0.7715	ppb	0.2684	34.8	255.585
Co 228.615	18.6312	ppb	0.1614	0.9	264.280
Cr 267.716	140.847	ppb	0.2665	0.2	5922.86
Cu 324.754	424.934	ppb	1.6600	0.4	20653.3
Fe 271.441	116508	ppb	196.558	0.2	195278
K 766.491	5603.50	ppb	14.6105	0.3	275239
Mg 279.078	3923.55	ppb	4.6926	0.1	8003.16
Mn 257.610	561.944	ppb	0.5064	0.1	127830
Mo 202.032	10.6806	ppb	0.3413	3.2	78.2473
Na 330.237	145.251	ppb	198.455	136.6	-46.6524
Ni 231.604	34.3169	ppb	0.4978	1.5	84.2654
Pb 220.353	469.427	ppb	3.0706	0.7	755.630
Sb 206.834	17.3496	ppb	5.2355	30.2	21.6183
Se 196.026	-0.0122	ppb	5.8518	47976.8	0.6068
Sn 189.925	95.9095	ppb	1.4609	1.5	73.3437
Sr 216.596	128.141	ppb	0.4115	0.3	1259.58
Ti 334.941	1601.39	ppb	1.8094	0.1	408407
Tl 190.794	7.2607	ppb	3.0330	41.8	0.2049
V 292.401	470.494	ppb	1.0800	0.2	12949.9
Zn 206.200	469.990	ppb	1.6794	0.4	5715.539



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Cont Calib Verif (CCV) 3/28/2013, 5:16:00 AM Rack 3, Tube 25

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	489.347	486.549	489.032
Al 308.215	4942.38	4948.62	4941.15
As 188.980	465.263	471.765	472.152
B 249.678	2468.21	2495.78	2513.84
Ba 389.178	4883.27	4885.15	4864.28
Be 313.042	487.369	486.584	485.518
Ca 370.602	4877	4873	4849
Cd 226.502	487.150	489.647	488.501
Co 228.615	492.407	494.443	493.755
Cr 267.716	4882.03	4869.09	4857.43
Cu 324.754	4865.46	4711.28	4728.02
Fe 271.441	4933.95	4951.87	4942.99
K 766.491	9921.43	9939.30	9884.69
Mg 279.078	4860.66	4874.96	4850.69
Mn 257.610	4926.58	4936.14	4924.80
Mo 202.032	482.206	481.294	481.807
Na 330.237	7476.36	7489.63	7291.27
Ni 231.604	2455.16	2456.66	2448.22
Pb 220.353	488.148	485.309	484.224
Sb 206.834	896.760	904.689	910.898
Se 196.026	4774.83	4805.09	4747.33
Sn 189.925	5001.64	4914.94	4908.73
Sr 216.596	2445.06	2428.89	2422.47
Ti 334.941	491.630	489.705	487.879
Tl 190.794	4955.37	4916.92	4901.18
V 292.401	4896.82	4910.65	4897.52
Zn 206.200	2435.43	2445.66	2431.02

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	488.309	ppb	1.5327	0.3	34044.3	97.66182
Al 308.215	4944.05	ppb	4.0090	0.1	28527.4	98.88097
As 188.980	469.727	ppb	3.8700	0.8	256.971	93.94533
B 249.678	2492.61	ppb	22.9831	0.9	23183.9	99.70435
Ba 389.178	4877.57	ppb	11.5433	0.2	116724	97.55137
Be 313.042	486.491	ppb	0.9288	0.2	941371	97.29810
Ca 370.602	4866	ppb	15.02	0.3	15571	97.32203
Cd 226.502	488.433	ppb	1.2499	0.3	17411.9	97.68655
Co 228.615	493.535	ppb	1.0360	0.2	5666.93	98.70701
Cr 267.716	4869.52	ppb	12.3017	0.3	203552	97.39034
Cu 324.754	4768.25	ppb	84.5984	1.8	230293	95.36498
Fe 271.441	4942.94	ppb	8.9608	0.2	8406.56	98.85875
K 766.491	9915.14	ppb	27.8440	0.3	486850	99.15144
Mg 279.078	4862.10	ppb	12.2027	0.3	9847.94	97.24208
Mn 257.610	4929.17	ppb	6.1005	0.1	1117833	98.58344
Mo 202.032	481.769	ppb	0.4570	0.1	3117.18	96.35380
Na 330.237	7419.09	ppb	110.890	1.5	349.809	98.92117
Ni 231.604	2453.35	ppb	4.5026	0.2	5800.16	98.13386
Pb 220.353	485.893	ppb	2.0262	0.4	784.095	97.17867
Sb 206.834	904.115	ppb	7.0862	0.8	909.028	90.41154
Se 196.026	4775.75	ppb	28.8898	0.6	2190.19	95.51496
Sn 189.925	4941.77	ppb	51.9445	1.1	3737.79	98.83541
Sr 216.596	2432.14	ppb	11.6416	0.5	22869.0	97.28554
Ti 334.941	489.738	ppb	1.8755	0.4	124889	97.94755
Tl 190.794	4924.49	ppb	27.8779	0.6	3246.99	98.48981
V 292.401	4901.66	ppb	7.7929	0.2	134431	98.03328
Zn 206.200	2437.37	ppb	7.5108	0.3	3686.57	97.49487

E03272013.vvq. All Data Report 3/28/2013, 2:04:12 PM

Cont Calib Blank (CCB)                      3/28/2013, 5:21:27 AM                      Rack 3, Tube 26  
 Weight: 1    Volume: 1    Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-1.0065u	-0.9052u	-0.3885u
Al 308.215	-1.4242u	0.2141	3.3647
As 188.980	-1.9961u	3.9330	-3.2648u
B 249.678	32.1387	25.5822	21.7682
Ba 389.178	-0.4161u	-0.1569u	-0.0826u
Be 313.042	-0.0358u	-0.0319u	-0.0233u
Ca 370.602	-6.569u	-6.019u	-1.438u
Cd 226.502	-0.1544u	0.1823	-0.0223u
Co 228.615	0.0222	-0.3652u	-0.4060u
Cr 267.716	-0.1170u	-0.2298u	-0.1100u
Cu 324.754	-0.9733u	-0.5852u	0.0781
Fe 271.441	0.9592	4.0513	3.3750
K 766.491	-0.1584u	-0.6852u	-0.0833u
Mg 279.078	1.6448	4.1345	2.5733
Mn 257.610	-0.1283u	-0.1303u	-0.0698u
Mo 202.032	-0.7375u	0.0367	-0.0246u
Na 330.237	-45.9696u	203.153	59.0516
Ni 231.604	1.0779	0.3633	-0.8442u
Pb 220.353	0.7099	-0.6004u	0.2060
Sb 206.834	6.7434	3.3722	2.9603
Se 196.026	-7.3275u	-0.6916u	1.2276
Sn 189.925	2.6902	-1.6515u	-2.8956u
Sr 216.596	0.3361	-0.1314u	0.0459
Ti 334.941	-0.0014u	-0.0378u	-0.0584u
Tl 190.794	1.5355	-1.3520u	-1.1295u
V 292.401	0.5097	0.3080	0.2162
Zn 206.200	-0.0725u	0.3887	0.2791

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	-0.7667	ppb	0.3315	43.2	-85.5995	-0.76671
Al 308.215	0.7182	ppb	2.4339	338.9	247.824	0.71822
As 188.980	-0.4426	ppb	3.8421	868.0	1.8306	-0.44262
B 249.678	26.4964	ppb	5.2454	19.8	601.072	26.49637
Ba 389.178	-0.2185	ppb	0.1751	80.1	-23.5990	-0.21854
Be 313.042	-0.0303	ppb	0.0064	21.1	-231.408	-0.03035
Ca 370.602	-4.676	ppb	2.817	60.3	-18.87	-4.67552
Cd 226.502	0.0019	ppb	0.1697	8978.4	13.0677	0.00189
Co 228.615	-0.2497	ppb	0.2363	94.7	10.8244	-0.24969
Cr 267.716	-0.1523	ppb	0.0673	44.2	3.0319	-0.15227
Cu 324.754	-0.4935	ppb	0.5317	107.7	83.9343	-0.49347
Fe 271.441	2.7952	ppb	1.6256	58.2	7.1206	2.79519
K 766.491	-0.3090	ppb	0.3280	106.1	210.109	-0.30900
Mg 279.078	2.7842	ppb	1.2582	45.2	27.4763	2.78422
Mn 257.610	-0.1095	ppb	0.0344	31.4	46.8630	-0.10945
Mo 202.032	-0.2418	ppb	0.4304	178.0	13.7171	-0.24180
Na 330.237	72.0783	ppb	125.071	173.5	-0.1431	72.07830
Ni 231.604	0.1990	ppb	0.9715	488.2	1.4203	0.19899
Pb 220.353	0.1052	ppb	0.6610	628.3	2.6450	0.10519
Sb 206.834	4.3587	ppb	2.0755	47.6	5.4508	4.35865
Se 196.026	-2.2638	ppb	4.4891	198.3	-0.8702	-2.26382
Sn 189.925	-0.6190	ppb	2.9325	473.8	0.3459	-0.61897
Sr 216.596	0.0835	ppb	0.2360	282.6	11.2824	0.08351
Ti 334.941	-0.0325	ppb	0.0289	88.7	-38.3693	-0.03254
Tl 190.794	-0.3153	ppb	1.6067	509.5	-0.4667	-0.31533
V 292.401	0.3446	ppb	0.1502	43.6	3.8067	0.34462
Zn 206.200	0.1984	ppb	0.2410	221.4	2.0622	0.19845

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680-88518-a-23-c (Samp)                      3/28/2013, 5:26:54 AM                      Rack 3, Tube 27  
 Weight: 1    Volume: 1    Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-1.3619u	-0.3548u	0.8190
Al 308.215	71175.9	71930.8	71446.6
As 188.980	11.9538	3.3047	11.7653
B 249.678	-12.6609u	-14.0372u	-12.9765u
Ba 389.178	121.500	122.827	121.524
Be 313.042	1.3387	1.3535	1.3498
Ca 370.602	4218	4225	4217
Cd 226.502	-1.3225	-1.1619	-1.2122
Co 228.615	3.8052	3.9234	4.8638
Cr 267.716	111.038	112.429	111.958
Cu 324.754	31.7022	30.6414	31.8013
Fe 271.441	98974.3	100019	99129.6
K 766.491	1547.64	1558.25	1545.19
Mg 279.078	1465.14	1478.54	1471.02
Mn 257.610	236.963	240.153	238.134
Mo 202.032	2.4387	1.8190	3.1966
Na 330.237	58.7269u	172.668u	348.437u
Ni 231.604	17.5918	20.3934	18.3852
Pb 220.353	44.0122	42.0342	44.3405
Sb 206.834	2.5382	0.6659	-1.5485
Se 196.026	2.3278	-9.0815u	11.9482
Sn 189.925	15.9808	21.8514	18.5164
Sr 216.596	22.5176	24.4369	24.2552
Ti 334.941	646.147	653.768	650.037
Tl 190.794	3.0110u	4.9442u	1.8246u
V 292.401	209.710	212.124	209.979
Zn 206.200	44.0206	41.2724	40.9684

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.2992	ppb	1.0915	364.8	-51.7491
Al 308.215	71517.8	ppb	382.452	0.5	409713
As 188.980	9.0079	ppb	4.9401	54.8	6.1056
B 249.678	-13.2249	ppb	0.7210	5.5	146.591
Ba 389.178	121.951	ppb	0.7594	0.6	3049.48
Be 313.042	1.3474	ppb	0.0077	0.6	2434.16
Ca 370.602	4220	ppb	4.439	0.1	5558
Cd 226.502	-1.2322	ppb	0.0821	6.7	199.443
Co 228.615	4.1974	ppb	0.5801	13.8	75.4176
Cr 267.716	111.808	ppb	0.7076	0.6	4704.74
Cu 324.754	31.3816	ppb	0.6430	2.0	1649.32
Fe 271.441	99374.5	ppb	563.937	0.6	166557
K 766.491	1550.36	ppb	6.9425	0.4	76315.4
Mg 279.078	1471.57	ppb	6.7147	0.5	3012.02
Mn 257.610	238.417	ppb	1.6137	0.7	54408.9
Mo 202.032	2.4847	ppb	0.6900	27.8	26.5359
Na 330.237	193.277	ppb	145.950	75.5	-28.6744
Ni 231.604	18.7901	ppb	1.4441	7.7	47.2428
Pb 220.353	43.4623	ppb	1.2476	2.9	70.8377
Sb 206.834	0.5519	ppb	2.0457	370.7	5.0129
Se 196.026	1.7315	ppb	10.5275	608.0	1.2854
Sn 189.925	18.7829	ppb	2.9444	15.7	15.0171
Sr 216.596	23.7366	ppb	1.0595	4.5	269.670
Ti 334.941	649.984	ppb	3.8111	0.6	165756
Tl 190.794	3.2599	ppb	1.5746	48.3	-1.6320
V 292.401	210.604	ppb	1.3232	0.6	5789.69
Zn 206.200	42.0871	ppb	1.6813	4.0	662815

E03272013.wvq. All Data Report 3/28/2013, 2:04:12 PM

680-88518-a-24-c (Samp) 3/28/2013, 5:32:20 AM Rack 3, Tube 28

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-1.9024u	-1.1593u	-0.8293u
Al 308.215	73068.4	73189.6	73128.3
As 188.980	19.1547	23.4343	24.9848
B 249.678	-47.3643u	-48.8819u	-48.6105u
Ba 389.178	63.6262	63.3719	65.6553
Be 313.042	2.8403	2.8693	2.8494
Ca 370.602	3890u	3788u	3776u
Cd 226.502	-5.0504	-4.9263	-5.0354
Co 228.615	23.2082	23.5143	23.8300
Cr 267.716	290.930	292.862	292.588
Cu 324.754	82.7323	83.3191	83.7557
Fe 271.441	373470	374529	373391
K 766.491	1133.63	1134.26	1132.50
Mg 279.078	1301.35	1308.34	1302.25
Mn 257.610	772.337	774.225	774.091
Mo 202.032	6.8029	6.1367	5.5879
Na 330.237	17.1780u	-181.748u	-75.7451u
Ni 231.604	12.0945	10.4716	11.3600
Pb 220.353	80.3387	80.6507	78.2535
Sb 206.834	-10.0636	-5.5359	0.8468
Se 196.026	4.5600	9.2574	10.4279
Sn 189.925	18.5783	19.3664	20.5528
Sr 216.596	16.7567	15.7875	17.9921
Ti 334.941	2282.55	2297.93	2300.09
Tl 190.794	4.8183u	11.4384u	9.9627u
V 292.401	505.396	507.350	505.832
Zn 206.200	49.7418	48.8017	50.7314

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.2970	ppb	0.5497	42.4	-118.261
Al 308.215	73128.8	ppb	60.5795	0.1	418932
As 188.980	22.5246	ppb	3.0196	13.4	10.9900
B 249.678	-48.2856	ppb	0.8093	1.7	-425.039
Ba 389.178	64.2178	ppb	1.2514	1.9	2070.10
Be 313.042	2.8530	ppb	0.0148	0.5	5332.50
Ca 370.602	3818	ppb	62.86	1.6	-18043
Cd 226.502	-5.0040	ppb	0.0677	1.4	701.409
Co 228.615	23.5175	ppb	0.3109	1.3	329.963
Cr 267.716	292.127	ppb	1.0452	0.4	12301.6
Cu 324.754	83.2690	ppb	0.5136	0.6	4230.16
Fe 271.441	373797	ppb	635.590	0.2	626497
K 766.491	1133.46	ppb	0.8935	0.1	55854.3
Mg 279.078	1303.98	ppb	3.8052	0.3	2709.89
Mn 257.610	773.551	ppb	1.0535	0.1	176490
Mo 202.032	6.1758	ppb	0.6084	9.9	37.6288
Na 330.237	-80.1048	ppb	99.5347	124.3	-136.376
Ni 231.604	11.3087	ppb	0.8127	7.2	34.6800
Pb 220.353	79.7476	ppb	1.3033	1.6	128.429
Sb 206.834	-4.9176	ppb	5.4814	111.5	7.4263
Se 196.026	8.0818	ppb	3.1056	38.4	5.0640
Sn 189.925	19.4992	ppb	0.9940	5.1	15.5528
Sr 216.596	16.8454	ppb	1.1050	6.6	303.004
Ti 334.941	2293.52	ppb	9.5671	0.4	584939
Tl 190.794	8.7398	ppb	3.4753	39.8	-7.7258
V 292.401	506.193	ppb	1.0259	0.2	13934.5
Zn 206.200	49.7583	ppb	0.9649	1.9	575.2705

E03272013.vvq. All Data Report 3/28/2013, 2:04:12 PM

680-88518-a-25-c (Samp) 3/28/2013, 5:37:47 AM Rack 3, Tube 29

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-1.5146u	-2.1511u	-1.8932u
Al 308.215	76810.2	76811.7	76792.2
As 188.980	110.487	108.117	118.837
B 249.678	80.1613	83.4758	85.0069
Ba 389.178	1367.82	1369.47	1367.83
Be 313.042	15.2451	15.2857	15.2670
Ca 370.602	217697	219544	218206
Cd 226.502	1.6802	2.2144	1.7946
Co 228.615	26.6547	27.0355	26.2987
Cr 267.716	43.0965	43.6453	43.5916
Cu 324.754	263.554	262.959	265.216
Fe 271.441	84605.6	84742.6	84702.4
K 766.491	12551.7	12553.7	12590.0
Mg 279.078	27466.7	27510.9	27453.8
Mn 257.610	5437.78	5448.82	5445.44
Mo 202.032	20.9645	22.0342	21.0874
Na 330.237	1748.76	2260.86	1896.65
Ni 231.604	41.0833	40.3818	41.4312
Pb 220.353	996.191	1001.36	1004.81
Sb 206.834	1.9814	4.0439	-0.2304
Se 196.026	2.8055	-0.8388	-4.6351u
Sn 189.925	65.0899	63.0979	59.1855
Sr 216.596	658.117	658.025	657.794
Ti 334.941	1558.59	1559.50	1562.52
Tl 190.794	21.2351	21.7539	14.9690
V 292.401	126.308	127.083	127.172
Zn 206.200	537.243	538.121	538.725

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.8530	ppb	0.3202	17.3	-165.919
Al 308.215	76804.7	ppb	10.8344	0.0	439987
As 188.980	112.480	ppb	5.6312	5.0	63.9888
B 249.678	82.8813	ppb	2.4769	3.0	1040.20
Ba 389.178	1368.38	ppb	0.9519	0.1	32922.1
Be 313.042	15.2659	ppb	0.0203	0.1	29452.2
Ca 370.602	218483	ppb	954.1	0.4	698701
Cd 226.502	1.8964	ppb	0.2813	14.8	277.234
Co 228.615	26.6630	ppb	0.3685	1.4	355.396
Cr 267.716	43.4445	ppb	0.3025	0.7	1865.67
Cu 324.754	263.910	ppb	1.1698	0.4	12873.3
Fe 271.441	84683.5	ppb	70.3812	0.1	141938
K 766.491	12565.2	ppb	21.5383	0.2	616910
Mg 279.078	27477.1	ppb	29.9217	0.1	55894.7
Mn 257.610	5444.01	ppb	5.6533	0.1	1234917
Mo 202.032	21.3620	ppb	0.5854	2.7	149.202
Na 330.237	1968.76	ppb	263.557	13.4	55.1746
Ni 231.604	40.9654	ppb	0.5345	1.3	99.3891
Pb 220.353	1000.79	ppb	4.3387	0.4	1611.49
Sb 206.834	1.9316	ppb	2.1376	110.7	5.2398
Se 196.026	-0.8894	ppb	3.7206	418.3	1.2373
Sn 189.925	62.4577	ppb	3.0038	4.8	48.1262
Sr 216.596	657.979	ppb	0.1666	0.0	6256.31
Ti 334.941	1560.20	ppb	2.0569	0.1	397997
Tl 190.794	19.3194	ppb	3.7764	19.5	4.4019
V 292.401	126.854	ppb	0.4751	0.4	3501.25
Zn 206.200	538.030	ppb	0.7456	0.1	820.700

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680-88518-a-26-c (Samp) 3/28/2013, 5:43:13 AM Rack 3, Tube 30

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-2.9283u	-3.3993u	-2.7740u
Al 308.215	104062	104106	104261
As 188.980	41.0999	40.1154	36.0227
B 249.678	-25.0555u	-26.5451u	-25.3109u
Ba 389.178	566.460	566.839	567.696
Be 313.042	3.4352	3.4582	3.4491
Ca 370.602	8473	8485	8484
Cd 226.502	-1.9499	-1.7469	-2.0519
Co 228.615	35.5004	35.4748	35.7886
Cr 267.716	247.828	247.140	248.054
Cu 324.754	50.6224	50.9739	49.8666
Fe 271.441	156274	156497	156454
K 766.491	3810.98	3815.84	3827.05
Mg 279.078	2785.83	2800.29	2796.24
Mn 257.610	5034.35	5038.81	5033.44
Mo 202.032	6.7492	5.3586	5.6462
Na 330.237	329.107u	408.899u	277.903u
Ni 231.604	44.9542	44.6448	44.4713
Pb 220.353	103.062	101.302	94.9492
Sb 206.834	-0.9507	-1.2107	-1.1383
Se 196.026	-1.6480	6.8267	0.3583
Sn 189.925	11.7254	14.0603	20.2166
Sr 216.596	51.6371	50.9925	51.9125
Ti 334.941	1263.01	1266.06	1266.22
Tl 190.794	22.4360	19.3559	13.4436u
V 292.401	362.733	363.444	364.076
Zn 206.200	109.815	109.797	107.763

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-3.0338	ppb	0.3258	10.7	-222.797
Al 308.215	104143	ppb	104.595	0.1	596504
As 188.980	39.0793	ppb	2.6925	6.9	21.9532
B 249.678	-25.6372	ppb	0.7966	3.1	-19.2026
Ba 389.178	566.999	ppb	0.6333	0.1	13785.8
Be 313.042	3.4475	ppb	0.0116	0.3	6495.63
Ca 370.602	8481	ppb	6.605	0.1	14857
Cd 226.502	-1.9162	ppb	0.1553	8.1	307.464
Co 228.615	35.5879	ppb	0.1743	0.5	448.666
Cr 267.716	247.674	ppb	0.4757	0.2	10414.3
Cu 324.754	50.4876	ppb	0.5658	1.1	2586.72
Fe 271.441	156408	ppb	118.235	0.1	262152
K 766.491	3817.96	ppb	8.2381	0.2	187606
Mg 279.078	2794.12	ppb	7.4577	0.3	5632.08
Mn 257.610	5035.53	ppb	2.8768	0.1	1142346
Mo 202.032	5.9180	ppb	0.7341	12.4	45.8983
Na 330.237	338.636	ppb	66.0155	19.5	-43.3799
Ni 231.604	44.6901	ppb	0.2446	0.5	109.540
Pb 220.353	99.7709	ppb	4.2674	4.3	161.519
Sb 206.834	-1.0999	ppb	0.1342	12.2	5.9226
Se 196.026	1.8456	ppb	4.4288	240.0	2.5919
Sn 189.925	15.3341	ppb	4.3866	28.6	12.4096
Sr 216.596	51.5140	ppb	0.4722	0.9	551.637
Ti 334.941	1265.10	ppb	1.8126	0.1	322642
Tl 190.794	18.4118	ppb	4.5699	24.8	1.8545
V 292.401	363.417	ppb	0.6719	0.2	9993.41
Zn 206.200	109.125	ppb	1.1798	1.1	107.607

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680-88518-a-27-c (Samp)      3/28/2013, 5:48:40 AM      Rack 3, Tube 31  
 Weight: 1      Volume: 1      Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-1.0431u	-0.6833u	-1.7599u
Al 308.215	61601.9	61874.8	61654.8
As 188.980	26.1214	17.5129	24.4080
B 249.678	-11.6349u	-10.2607u	-11.2756u
Ba 389.178	67.6373	68.7844	68.3163
Be 313.042	1.7442	1.7741	1.7573
Ca 370.602	4318	4305u	4323
Cd 226.502	-2.4288	-2.4516	-2.5310
Co 228.615	4.7479	6.1258	5.5424
Cr 267.716	190.676	190.848	190.834
Cu 324.754	38.0634	36.5607	37.0228
Fe 271.441	171540	172343	171573
K 766.491	1223.89	1233.16	1230.21
Mg 279.078	912.120	909.683	915.641
Mn 257.610	203.016	204.174	203.136
Mo 202.032	5.4430	5.2263	5.3059
Na 330.237	41.2997u	-65.9049u	110.304u
Ni 231.604	12.1148	13.0846	15.5012
Pb 220.353	62.7661	53.6400	54.0670
Sb 206.834	-3.0268	-0.4612	2.4372
Se 196.026	4.4220	0.6588	5.4711
Sn 189.925	14.8219	16.1019	14.8796
Sr 216.596	22.3828	22.6430	22.0524
Ti 334.941	1225.79	1234.42	1226.48
Tl 190.794	4.9509u	4.9418u	-0.3219u
V 292.401	402.519	405.260	403.074
Zn 206.200	46.6313	45.0969	46.6546

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.1621	ppb	0.5480	47.2	-111.385
Al 308.215	61710.5	ppb	144.744	0.2	353559
As 188.980	22.6808	ppb	4.5568	20.1	12.8822
B 249.678	-11.0570	ppb	0.7127	6.4	100.305
Ba 389.178	68.2460	ppb	0.5768	0.8	1869.50
Be 313.042	1.7586	ppb	0.0150	0.9	3220.46
Ca 370.602	4315	ppb	9.235	0.2	-0.4927
Cd 226.502	-2.4705	ppb	0.0537	2.2	323.345
Co 228.615	5.4720	ppb	0.6917	12.6	102.632
Cr 267.716	190.786	ppb	0.0956	0.1	8020.38
Cu 324.754	37.2156	ppb	0.7697	2.1	1949.91
Fe 271.441	171819	ppb	454.213	0.3	287976
K 766.491	1229.08	ppb	4.7353	0.4	60547.4
Mg 279.078	912.481	ppb	2.9954	0.3	1889.34
Mn 257.610	203.442	ppb	0.6368	0.3	46669.7
Mo 202.032	5.3251	ppb	0.1096	2.1	41.3169
Na 330.237	28.5663	ppb	88.7919	310.8	-62.9397
Ni 231.604	13.5669	ppb	1.7439	12.9	36.2451
Pb 220.353	56.8244	ppb	5.1501	9.1	92.1944
Sb 206.834	-0.3503	ppb	2.7337	780.5	6.4315
Se 196.026	3.5173	ppb	2.5305	71.9	2.2927
Sn 189.925	15.2678	ppb	0.7230	4.7	12.3575
Sr 216.596	22.3594	ppb	0.2960	1.3	282.636
Ti 334.941	1228.90	ppb	4.7951	0.4	313402
Tl 190.794	3.1903	ppb	3.0416	95.3	-4.0354
V 292.401	403.618	ppb	1.4487	0.4	11102.5
Zn 206.200	46.1276	ppb	0.8927	1.9	721495

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680-88518-a-28-c (Samp)      3/28/2013, 5:54:07 AM      Rack 3, Tube 32  
 Weight: 1      Volume: 1      Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-2.7452u	-1.2413u	-2.0470u
Al 308.215	113327	113118	112846
As 188.980	125.161	132.584	123.215
B 249.678	92.3742	93.1749	94.3176
Ba 389.178	2728.15	2726.00	2715.85
Be 313.042	20.5834	20.5228	20.5487
Ca 370.602	192609	191450	190522
Cd 226.502	3.0773	3.0489	2.9752
Co 228.615	49.0889	47.1745	48.2399
Cr 267.716	132.668	131.783	131.439
Cu 324.754	392.217	392.070	389.324
Fe 271.441	199919	199839	199602
K 766.491	13713.9	13703.6	13779.7
Mg 279.078	31759.3	31663.7	31636.7
Mn 257.610	8148.75	8136.37	8109.97
Mo 202.032	12.8958	13.1551	12.0458
Na 330.237	3404.75	3216.98	3123.28
Ni 231.604	88.2736	87.4608	85.9727
Pb 220.353	2443.09	2430.28	2423.45
Sb 206.834	21.9989	17.1642	22.2452
Se 196.026	4.5725	3.6450	0.9928
Sn 189.925	650.308	647.109	653.157
Sr 216.596	1110.49	1105.42	1103.53
Ti 334.941	2579.99	2566.57	2565.94
Tl 190.794	33.7899	33.8992	22.7109
V 292.401	227.617	226.091	226.139
Zn 206.200	2279.32	2274.96	2281.01

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-2.0112	ppb	0.7526	37.4	-184.508
Al 308.215	113097	ppb	240.919	0.2	647775
As 188.980	126.986	ppb	4.9441	3.9	70.6460
B 249.678	93.2889	ppb	0.9767	1.0	1030.57
Ba 389.178	2723.34	ppb	6.5709	0.2	65523.0
Be 313.042	20.5517	ppb	0.0304	0.1	39672.9
Ca 370.602	191527	ppb	1046	0.5	602477
Cd 226.502	3.0338	ppb	0.0527	1.7	584.362
Co 228.615	48.1677	ppb	0.9592	2.0	623.873
Cr 267.716	131.963	ppb	0.6340	0.5	5601.03
Cu 324.754	391.204	ppb	1.6295	0.4	19050.9
Fe 271.441	199787	ppb	165.055	0.1	334856
K 766.491	13732.4	ppb	41.2942	0.3	674197
Mg 279.078	31686.6	ppb	64.4079	0.2	64436.4
Mn 257.610	8131.70	ppb	19.8063	0.2	1844698
Mo 202.032	12.6989	ppb	0.5803	4.6	87.9752
Na 330.237	3248.34	ppb	143.332	4.4	65.5206
Ni 231.604	87.2357	ppb	1.1668	1.3	210.920
Pb 220.353	2432.27	ppb	9.9692	0.4	3913.87
Sb 206.834	20.4694	ppb	2.8651	14.0	26.5469
Se 196.026	3.0701	ppb	1.8578	60.5	3.9797
Sn 189.925	650.191	ppb	3.0252	0.5	492.558
Sr 216.596	1106.48	ppb	3.5987	0.3	10519.1
Ti 334.941	2570.84	ppb	7.9359	0.3	655771
Tl 190.794	30.1333	ppb	6.4282	21.3	5.0891
V 292.401	226.616	ppb	0.8676	0.4	6257.40
Zn 206.200	2278.43	ppb	3.1186	0.1	3460.95



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680-88518-a-29-c (Samp) 3/28/2013, 5:59:33 AM Rack 3, Tube 33

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-1.7607u	-1.3437u	-1.5543u
Al 308.215	91511.9	91971.9	91517.6
As 188.980	31.6077	31.4143	30.5411
B 249.678	-32.0418u	-31.8343u	-32.3586u
Ba 389.178	232.247	233.748	231.518
Be 313.042	1.9990	2.0178	2.0057
Ca 370.602	6129	6142	6146
Cd 226.502	-1.3351	-1.7561	-1.6313
Co 228.615	12.6603	11.7214	11.9909
Cr 267.716	138.825	139.309	138.306
Cu 324.754	42.7167	42.0381	42.7960
Fe 271.441	137697	138277	137830
K 766.491	2334.56	2355.04	2344.27
Mg 279.078	1459.29	1459.03	1452.77
Mn 257.610	2335.13	2340.98	2332.12
Mo 202.032	3.8937	3.3370	3.6950
Na 330.237	150.411u	278.522u	166.472u
Ni 231.604	36.1970	38.2795	33.1865
Pb 220.353	60.2333	65.6634	68.3159
Sb 206.834	4.7669	6.1005	2.1456
Se 196.026	-4.2143u	-5.5284u	4.5703
Sn 189.925	13.7874	12.0770	18.1522
Sr 216.596	31.2084	30.3612	30.2408
Ti 334.941	1199.23	1204.03	1194.48
Tl 190.794	2.8950u	8.3706u	5.3048u
V 292.401	297.238	299.175	296.916
Zn 206.200	93.0344	92.9695	91.1498

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.5529	ppb	0.2085	13.4	-130.275
Al 308.215	91667.2	ppb	263.925	0.3	525077
As 188.980	31.1877	ppb	0.5683	1.8	17.8175
B 249.678	-32.0782	ppb	0.2640	0.8	-61.2715
Ba 389.178	232.504	ppb	1.1367	0.5	5751.32
Be 313.042	2.0075	ppb	0.0095	0.5	3710.05
Ca 370.602	6139	ppb	8.893	0.1	8737
Cd 226.502	-1.5742	ppb	0.2162	13.7	276.629
Co 228.615	12.1242	ppb	0.4835	4.0	179.032
Cr 267.716	138.813	ppb	0.5015	0.4	5849.85
Cu 324.754	42.5169	ppb	0.4166	1.0	2197.15
Fe 271.441	137935	ppb	303.833	0.2	231187
K 766.491	2344.62	ppb	10.2406	0.4	115297
Mg 279.078	1457.03	ppb	3.6900	0.3	2950.86
Mn 257.610	2336.08	ppb	4.5062	0.2	530170
Mo 202.032	3.6419	ppb	0.2821	7.7	32.1407
Na 330.237	198.468	ppb	69.7922	35.2	-44.4059
Ni 231.604	35.8876	ppb	2.5606	7.1	88.3832
Pb 220.353	64.7375	ppb	4.1201	6.4	104.855
Sb 206.834	4.3377	ppb	2.0121	46.4	9.7141
Se 196.026	-1.7241	ppb	5.4906	318.5	0.2868
Sn 189.925	14.6722	ppb	3.1328	21.4	11.9086
Sr 216.596	30.6035	ppb	0.5274	1.7	348.049
Ti 334.941	1199.24	ppb	4.7754	0.4	305840
Tl 190.794	5.5235	ppb	2.7443	49.7	-3.4412
V 292.401	297.776	ppb	1.2218	0.4	8194.14
Zn 206.200	92.3845	ppb	1.0698	1.2	142.519

E03272013.wvq. All Data Report 3/28/2013, 2:04:12 PM

680-88518-a-30-c (Samp) 3/28/2013, 6:05:00 AM Rack 3, Tube 34

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.4838u	-1.0215u	-0.5217u
Al 308.215	105388	104697	105129
As 188.980	13.7474	12.8720	18.6777
B 249.678	-24.2729u	-22.7262u	-24.6985u
Ba 389.178	113.247	112.736	113.361
Be 313.042	1.7267	1.7163	1.7247
Ca 370.602	5944	5923	5960
Cd 226.502	-1.7950	-1.7807	-1.7587
Co 228.615	5.1938	5.2393	5.2954
Cr 267.716	118.331	117.374	118.101
Cu 324.754	47.4631	47.2449	46.9047
Fe 271.441	144236	143312	144181
K 766.491	1981.62	1969.60	1970.05
Mg 279.078	1577.17	1562.33	1566.52
Mn 257.610	332.855	330.657	332.144
Mo 202.032	4.9411	3.9286	4.4049
Na 330.237	142.115u	264.256u	571.175u
Ni 231.604	25.8205	24.2207	24.8647
Pb 220.353	54.4526	51.6405	56.7728
Sb 206.834	-0.6263	3.0183	0.3885
Se 196.026	5.8785	1.9326	-3.0403u
Sn 189.925	16.2075	18.1461	16.8017
Sr 216.596	33.9692	32.6415	33.5519
Ti 334.941	705.216	699.467	701.387
Tl 190.794	-2.9570u	10.4124	4.2800u
V 292.401	258.775	257.637	258.690
Zn 206.200	71.8093	75.0381	72.8897

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.6757	ppb	0.3001	44.4	-77.8117
Al 308.215	105071	ppb	349.048	0.3	601823
As 188.980	15.0990	ppb	3.1300	20.7	9.0279
B 249.678	-23.8992	ppb	1.0379	4.3	8.2294
Ba 389.178	113.115	ppb	0.3330	0.3	2903.54
Be 313.042	1.7226	ppb	0.0055	0.3	3161.55
Ca 370.602	5942	ppb	18.63	0.3	7464
Cd 226.502	-1.7781	ppb	0.0183	1.0	283.113
Co 228.615	5.2428	ppb	0.0509	1.0	87.1972
Cr 267.716	117.935	ppb	0.4997	0.4	4970.35
Cu 324.754	47.2042	ppb	0.2814	0.6	2425.56
Fe 271.441	143910	ppb	518.469	0.4	241199
K 766.491	1973.76	ppb	6.8129	0.3	97095.3
Mg 279.078	1568.68	ppb	7.6494	0.5	3206.43
Mn 257.610	331.885	ppb	1.1218	0.3	75723.5
Mo 202.032	4.4249	ppb	0.5065	11.4	36.9979
Na 330.237	325.849	ppb	221.062	67.8	-35.7286
Ni 231.604	24.9686	ppb	0.8050	3.2	62.6885
Pb 220.353	54.2886	ppb	2.5701	4.7	87.6506
Sb 206.834	0.9269	ppb	1.8810	202.9	6.3739
Se 196.026	1.5903	ppb	4.4693	281.0	1.3629
Sn 189.925	17.0518	ppb	0.9932	5.8	13.7079
Sr 216.596	33.3875	ppb	0.6789	2.0	376.473
Ti 334.941	702.023	ppb	2.9269	0.4	179034
Tl 190.794	3.9118	ppb	6.6923	171.1	-2.7835
V 292.401	258.367	ppb	0.6336	0.2	7103.28
Zn 206.200	73.2457	ppb	1.6435	2.2	513.537

E03272013.vvq. All Data Report 3/28/2013, 2:04:12 PM

680-88518-a-31-c (Samp) 3/28/2013, 6:10:27 AM Rack 3, Tube 35

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-4.8899u	-4.2401u	-4.7079u
Al 308.215	99276.6	98627.7	99192.0
As 188.980	35.4592	22.8224	25.1771
B 249.678	-36.1761u	-36.8683u	-39.1132u
Ba 389.178	903.078	896.072	899.866
Be 313.042	6.1672	6.0908	6.1375
Ca 370.602	9828	9790	9834
Cd 226.502	-1.2281	-1.1654	-1.1204
Co 228.615	53.8431	54.4862	53.9498
Cr 267.716	127.901	126.060	127.295
Cu 324.754	62.9614	64.8008	63.2544
Fe 271.441	117414	116705	117558
K 766.491	2956.73	2927.60	2932.88
Mg 279.078	2269.73	2258.45	2284.55
Mn 257.610	12887.6	12803.4	12915.9
Mo 202.032	6.5074	6.2428	5.4055
Na 330.237	7.8251u	139.189u	299.750u
Ni 231.604	50.1176	48.8298	50.6648
Pb 220.353	486.537	490.168	496.475
Sb 206.834	5.2674	-6.4753u	1.6538
Se 196.026	-4.9529	-3.3800	13.0608
Sn 189.925	19.5230	20.4278	23.8025
Sr 216.596	44.1284	42.6181	44.2533
Ti 334.941	1143.84	1128.29	1138.32
Tl 190.794	48.7262	40.3393	50.3970
V 292.401	255.780	253.717	255.788
Zn 206.200	133.101	134.143	135.115

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-4.6126	ppb	0.3352	7.3	-299.989
Al 308.215	99032.1	ppb	352.774	0.4	567246
As 188.980	27.8196	ppb	6.7201	24.2	16.2010
B 249.678	-37.3858	ppb	1.5354	4.1	-90.9820
Ba 389.178	899.672	ppb	3.5073	0.4	21686.6
Be 313.042	6.1318	ppb	0.0385	0.6	11694.5
Ca 370.602	9818	ppb	23.85	0.2	22607
Cd 226.502	-1.1713	ppb	0.0541	4.6	242.980
Co 228.615	54.0930	ppb	0.3446	0.6	658.097
Cr 267.716	127.085	ppb	0.9383	0.7	5395.22
Cu 324.754	63.6722	ppb	0.9884	1.6	3213.12
Fe 271.441	117225	ppb	456.587	0.4	196484
K 766.491	2939.07	ppb	15.5183	0.5	144472
Mg 279.078	2270.91	ppb	13.0883	0.6	4439.83
Mn 257.610	12869.0	ppb	58.4981	0.5	2918518
Mo 202.032	6.0519	ppb	0.5752	9.5	48.6953
Na 330.237	148.921	ppb	146.206	98.2	-40.6560
Ni 231.604	49.8707	ppb	0.9421	1.9	121.052
Pb 220.353	491.060	ppb	5.0291	1.0	792.814
Sb 206.834	0.1486	ppb	6.0143	4046.8	5.1532
Se 196.026	1.5760	ppb	9.9772	633.1	4.1555
Sn 189.925	21.2511	ppb	2.2554	10.6	16.8854
Sr 216.596	43.6666	ppb	0.9101	2.1	463.697
Ti 334.941	1136.82	ppb	7.8856	0.7	289920
Tl 190.794	46.4875	ppb	5.3896	11.6	14.1125
V 292.401	255.095	ppb	1.1932	0.5	7019.36
Zn 206.200	134.120	ppb	1.0972	0.8	205.917

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680-88518-a-32-g (Samp) 3/28/2013, 6:15:53 AM Rack 3, Tube 36

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-2.6719u	-4.1694u	-2.5352u
Al 308.215	93956.0	94327.0	94251.8
As 188.980	31.4232	41.6339	39.6592
B 249.678	-42.1724u	-41.1808u	-41.9250u
Ba 389.178	1032.46	1034.63	1034.60
Be 313.042	4.1904	4.2100	4.2141
Ca 370.602	10878	10928	10905
Cd 226.502	-1.2922	-0.9387	-1.3407
Co 228.615	85.1884	85.1006	85.6937
Cr 267.716	236.196	238.277	238.298
Cu 324.754	57.5211	57.6934	58.9859
Fe 271.441	140871	141641	141119
K 766.491	2448.52	2450.58	2439.38
Mg 279.078	1762.45	1777.04	1776.65
Mn 257.610	18162.5	18263.3	18242.5
Mo 202.032	5.7378	6.4058	6.7944
Na 330.237	79.3000u	36.3098u	0.8562u
Ni 231.604	50.4141	49.1927	49.8273
Pb 220.353	146.440	146.402	148.016
Sb 206.834	-4.6436	-1.3559	-7.5571u
Se 196.026	-5.6087	3.5044	2.9920
Sn 189.925	14.0482	15.0636	9.5526
Sr 216.596	38.0156	36.7392	37.4269
Ti 334.941	1219.57	1225.81	1227.23
Tl 190.794	57.6155	70.8834	67.8087
V 292.401	310.651	311.492	310.370
Zn 206.200	115.010	114.403	113.611

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-3.1255	ppb	0.9066	29.0	-172.701
Al 308.215	94178.3	ppb	196.117	0.2	539454
As 188.980	37.5721	ppb	5.4159	14.4	21.2890
B 249.678	-41.7594	ppb	0.5162	1.2	-153.014
Ba 389.178	1033.90	ppb	1.2453	0.1	24932.2
Be 313.042	4.2048	ppb	0.0127	0.3	7959.99
Ca 370.602	10904	ppb	24.94	0.2	24296
Cd 226.502	-1.1906	ppb	0.2194	18.4	298.092
Co 228.615	85.3276	ppb	0.3201	0.4	1017.03
Cr 267.716	237.590	ppb	1.2073	0.5	10039.5
Cu 324.754	58.0668	ppb	0.8006	1.4	2948.83
Fe 271.441	141210	ppb	393.175	0.3	236688
K 766.491	2446.16	ppb	5.9620	0.2	120280
Mg 279.078	1772.05	ppb	8.3124	0.5	3346.60
Mn 257.610	18222.8	ppb	53.1963	0.3	4132587
Mo 202.032	6.3127	ppb	0.5344	8.5	49.2115
Na 330.237	38.8220	ppb	39.2822	101.2	-53.8648
Ni 231.604	49.8113	ppb	0.6109	1.2	121.359
Pb 220.353	146.953	ppb	0.9207	0.6	240.361
Sb 206.834	-4.5189	ppb	3.1025	68.7	2.2436
Se 196.026	0.2959	ppb	5.1200	1730.3	4.8602
Sn 189.925	12.8881	ppb	2.9329	22.8	10.5612
Sr 216.596	37.3939	ppb	0.6388	1.7	413.332
Ti 334.941	1224.20	ppb	4.0760	0.3	312206
Tl 190.794	65.4359	ppb	6.9450	10.6	20.6567
V 292.401	310.838	ppb	0.5836	0.2	8547.07
Zn 206.200	114.341	ppb	0.7916	0.6	175.574

E03272013.vvq. All Data Report 3/28/2013, 2:04:12 PM

Cont Calib Verif (CCV) 3/28/2013, 6:21:20 AM Rack 3, Tube 37  
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	492.462	494.783	498.310
Al 308.215	4963.06	5001.90	4972.47
As 188.980	472.835	473.569	480.897
B 249.678	2483.87	2517.35	2525.42
Ba 389.178	4901.99	4943.77	4917.03
Be 313.042	487.266	492.255	488.647
Ca 370.602	4895	4939	4911
Cd 226.502	490.339	493.912	491.426
Co 228.615	494.806	498.589	494.790
Cr 267.716	4886.82	4940.36	4915.52
Cu 324.754	4864.71	4860.26	4841.45
Fe 271.441	4961.81	5002.72	4976.35
K 766.491	9933.37	9992.47	9928.96
Mg 279.078	4876.51	4926.03	4901.65
Mn 257.610	4949.71	4998.46	4971.26
Mo 202.032	483.492	487.708	487.502
Na 330.237	7216.10	7327.41	7374.66
Ni 231.604	2458.63	2480.11	2472.37
Pb 220.353	491.743	489.620	489.242
Sb 206.834	911.039	919.046	910.917
Se 196.026	4788.56	4828.93	4815.80
Sn 189.925	4956.86	5002.52	5006.18
Sr 216.596	2440.67	2465.71	2460.25
Ti 334.941	490.485	494.293	492.745
Tl 190.794	4941.56	4942.34	4913.40
V 292.401	4907.99	4954.56	4912.16
Zn 206.200	2460.69	2474.07	2463.31

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	495.185	ppb	2.9448	0.6	34524.4	99.03703
Al 308.215	4979.14	ppb	20.2638	0.4	28728.4	99.58286
As 188.980	475.767	ppb	4.4581	0.9	260.250	95.15341
B 249.678	2508.88	ppb	22.0315	0.9	23333.0	100.35527
Ba 389.178	4920.93	ppb	21.1616	0.4	117762	98.41867
Be 313.042	489.389	ppb	2.5758	0.5	946981	97.87788
Ca 370.602	4915	ppb	22.52	0.5	15726	98.29613
Cd 226.502	491.892	ppb	1.8314	0.4	17535.1	98.37845
Co 228.615	496.062	ppb	2.1884	0.4	5695.86	99.21234
Cr 267.716	4914.23	ppb	26.7905	0.5	205422	98.28467
Cu 324.754	4855.47	ppb	12.3460	0.3	234505	97.10944
Fe 271.441	4980.29	ppb	20.7368	0.4	8469.97	99.60586
K 766.491	9951.60	ppb	35.4643	0.4	488639	99.51601
Mg 279.078	4901.40	ppb	24.7634	0.5	9927.30	98.02790
Mn 257.610	4973.14	ppb	24.4292	0.5	1127804	99.46280
Mo 202.032	486.234	ppb	2.3769	0.5	3145.97	97.24687
Na 330.237	7306.05	ppb	81.4069	1.1	343.834	97.41406
Ni 231.604	2470.37	ppb	10.8776	0.4	5840.41	98.81493
Pb 220.353	490.202	ppb	1.3481	0.3	791.027	98.04033
Sb 206.834	913.667	ppb	4.6588	0.5	918.540	91.36674
Se 196.026	4811.10	ppb	20.5904	0.4	2206.40	96.22193
Sn 189.925	4988.52	ppb	27.4798	0.6	3773.14	99.77037
Sr 216.596	2455.54	ppb	13.1694	0.5	23089.1	98.22175
Ti 334.941	492.508	ppb	1.9152	0.4	125595	98.50156
Tl 190.794	4932.43	ppb	16.4881	0.3	3252.20	98.64869
V 292.401	4924.90	ppb	25.7647	0.5	135067	98.49808
Zn 206.200	2466.02	ppb	7.0991	0.3	3729.92	98.64096

E03272013.vvq. All Data Report 3/28/2013, 2:04:12 PM

Cont Calib Blank (CCB) 3/28/2013, 6:26:47 AM Rack 3, Tube 38

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.3043u	-0.4271u	-1.0492u
Al 308.215	2.0288	0.9315	-0.2012u
As 188.980	0.3981	-4.9501u	3.7240
B 249.678	29.1654	24.8054	20.1474
Ba 389.178	-0.3483u	-0.0015u	-0.1928u
Be 313.042	-0.0309u	-0.0338u	-0.0326u
Ca 370.602	5.394	-0.3134u	-1.727u
Cd 226.502	-0.0965u	0.0865	-0.1767u
Co 228.615	0.0529	0.1864	-0.0006u
Cr 267.716	-0.1630u	0.1234	-0.1729u
Cu 324.754	-0.7314u	-0.6625u	-0.6803u
Fe 271.441	4.7615	8.5774	2.2177
K 766.491	-0.0079u	-0.8375u	-0.2324u
Mg 279.078	1.4593	3.4900	3.5480
Mn 257.610	-0.0206u	0.0058	0.0353
Mo 202.032	0.2257	-0.4974u	-0.2530u
Na 330.237	-10.5506u	-57.1045u	171.884
Ni 231.604	0.3575	-0.8377u	0.3719
Pb 220.353	0.2221	-1.5955u	-4.0342u
Sb 206.834	-0.9097u	1.0487	3.5644
Se 196.026	-14.8194u	5.6476	-0.9406u
Sn 189.925	-1.0129u	0.7975	-1.3957u
Sr 216.596	-0.4196u	0.2207	-0.4206u
Ti 334.941	0.0453	-0.0384u	-0.0641u
Tl 190.794	-2.3511u	-1.0600u	0.4169
V 292.401	0.2016	0.3443	0.1343
Zn 206.200	-0.4858u	-0.4612u	-1.5261u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	-0.5935	ppb	0.3993	67.3	-73.4812	-0.59354
Al 308.215	0.9197	ppb	1.1151	121.2	248.977	0.91970
As 188.980	-0.2760	ppb	4.3761	1585.5	1.9211	-0.27601
B 249.678	24.7061	ppb	4.5098	18.3	584.671	24.70607
Ba 389.178	-0.1808	ppb	0.1737	96.0	-22.6931	-0.18085
Be 313.042	-0.0325	ppb	0.0015	4.5	-235.490	-0.03246
Ca 370.602	1.118	ppb	3.770	337.3	-0.4250	1.11789
Cd 226.502	-0.0622	ppb	0.1349	216.8	10.7929	-0.06222
Co 228.615	0.0796	ppb	0.0963	121.0	14.5934	0.07956
Cr 267.716	-0.0708	ppb	0.1683	237.5	6.4380	-0.07085
Cu 324.754	-0.6914	ppb	0.0358	5.2	74.3811	-0.69137
Fe 271.441	5.1855	ppb	3.2010	61.7	11.1877	5.18554
K 766.491	-0.3593	ppb	0.4291	119.4	207.642	-0.35927
Mg 279.078	2.8325	ppb	1.1895	42.0	27.5733	2.83246
Mn 257.610	0.0068	ppb	0.0280	410.6	73.2339	0.00681
Mo 202.032	-0.1749	ppb	0.3678	210.3	14.1490	-0.17490
Na 330.237	34.7428	ppb	121.027	348.4	-2.0335	34.74280
Ni 231.604	-0.0361	ppb	0.6943	1923.8	0.8647	-0.03609
Pb 220.353	-1.8025	ppb	2.1357	118.5	-0.4242	-1.80250
Sb 206.834	1.2345	ppb	2.2428	181.7	2.4678	1.23445
Se 196.026	-3.3708	ppb	10.4477	309.9	-1.3776	-3.37079
Sn 189.925	-0.5370	ppb	1.1715	218.1	0.4078	-0.53705
Sr 216.596	-0.2065	ppb	0.3700	179.2	8.5712	-0.20648
Ti 334.941	-0.0191	ppb	0.0572	300.2	-34.9300	-0.01905
Tl 190.794	-0.9981	ppb	1.3850	138.8	-0.9175	-0.99807
V 292.401	0.2267	ppb	0.1072	47.3	0.5634	0.22671
Zn 206.200	-0.8244	ppb	0.6978	73.7	-1.5100	-0.82438

E03272013.wvq. All Data Report 3/28/2013, 2:04:12 PM

680-88518-a-32-gSD^5 (Samp) 3/28/2013, 6:32:14 AM Rack 3, Tube 39

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-2.0450u	-2.2107u	-1.1304u
Al 308.215	19331.7	19345.8	19322.2
As 188.980	4.1320	4.9492	3.8101
B 249.678	-14.7313u	-15.6337u	-16.6318u
Ba 389.178	220.063	219.487	221.379
Be 313.042	0.8547	0.8441	0.8525
Ca 370.602	2333	2330	2328
Cd 226.502	-0.3253	-0.3973	-0.4096
Co 228.615	18.2804	18.4804	18.2350
Cr 267.716	50.3902	50.6224	50.3746
Cu 324.754	12.4179	12.5580	11.2172
Fe 271.441	30048.3	30114.9	30084.9
K 766.491	497.570	499.906	500.264
Mg 279.078	384.908	381.977	383.884
Mn 257.610	3958.19	3962.52	3954.11
Mo 202.032	0.7695	0.7867	1.5010
Na 330.237	117.235u	148.636u	246.088
Ni 231.604	8.8581	9.4228	11.6559
Pb 220.353	31.5435	33.0956	30.4962
Sb 206.834	2.4577	2.9895	3.8992
Se 196.026	0.8737	0.0189	2.5720
Sn 189.925	3.4302	1.8978	0.2017
Sr 216.596	7.5135	6.2357	6.2827
Ti 334.941	257.536	258.162	257.464
Tl 190.794	20.9296	18.1599	16.6096
V 292.401	66.5935	66.6085	66.5862
Zn 206.200	25.9225	25.0107	26.5523

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.7954	ppb	0.5818	32.4	-140.589
Al 308.215	19333.3	ppb	11.8618	0.1	110935
As 188.980	4.2971	ppb	0.5872	13.7	4.1524
B 249.678	-15.6656	ppb	0.9507	6.1	187.421
Ba 389.178	220.310	ppb	0.9699	0.4	5298.29
Be 313.042	0.8504	ppb	0.0056	0.7	1471.96
Ca 370.602	2330	ppb	2.831	0.1	5197
Cd 226.502	-0.3774	ppb	0.0455	12.1	69.3775
Co 228.615	18.3319	ppb	0.1305	0.7	229.081
Cr 267.716	50.4624	ppb	0.1388	0.3	2140.07
Cu 324.754	12.0643	ppb	0.7370	6.1	698.248
Fe 271.441	30082.7	ppb	33.3738	0.1	50424.7
K 766.491	499.247	ppb	1.4630	0.3	24727.8
Mg 279.078	383.590	ppb	1.4873	0.4	741.512
Mn 257.610	3958.27	ppb	4.2054	0.1	897718
Mo 202.032	1.0191	ppb	0.4174	41.0	20.4030
Na 330.237	170.653	ppb	67.1884	39.4	-6.2094
Ni 231.604	9.9789	ppb	1.4795	14.8	25.1060
Pb 220.353	31.7118	ppb	1.3079	4.1	53.8375
Sb 206.834	3.1155	ppb	0.7289	23.4	5.3818
Se 196.026	1.1549	ppb	1.2996	112.5	1.6853
Sn 189.925	1.8433	ppb	1.6149	87.6	2.2081
Sr 216.596	6.6773	ppb	0.7246	10.9	84.1640
Ti 334.941	257.720	ppb	0.3842	0.1	65702.3
Tl 190.794	18.5664	ppb	2.1885	11.8	7.1755
V 292.401	66.5961	ppb	0.0113	0.0	1826.65
Zn 206.200	25.8285	ppb	0.7751	3.0	41.8074

680-88518-a-32-gPDS (Samp) 3/28/2013, 6:37:41 AM Rack 3, Tube 40

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	45.1588	46.3774	46.7240
Al 308.215	94035.6	94382.3	94057.1
As 188.980	2092.22	2113.50	2114.79
B 249.678	980.726	993.314	997.238
Ba 389.178	2962.89	2981.83	2969.27
Be 313.042	53.5314	53.7382	53.6531
Ca 370.602	15477	15549	15508
Cd 226.502	48.0083	48.2439	47.7208
Co 228.615	577.234	580.926	585.407
Cr 267.716	430.456	431.406	430.157
Cu 324.754	309.023	308.504	310.068
Fe 271.441	138843	139281	138776
K 766.491	7739.94	7790.60	7786.38
Mg 279.078	6609.42	6644.10	6629.53
Mn 257.610	18258.3	18327.5	18315.5
Mo 202.032	496.523	501.671	499.348
Na 330.237	5026.17	5241.60	4996.33
Ni 231.604	539.468	543.975	546.331
Pb 220.353	638.761	642.348	639.751
Sb 206.834	472.045	479.014	485.357
Se 196.026	1930.33	1956.76	1945.74
Sn 189.925	1016.81	1024.03	1018.81
Sr 216.596	537.735	538.581	537.218
Ti 334.941	2130.89	2139.69	2142.62
Tl 190.794	2064.32	2068.34	2065.99
V 292.401	798.462	801.350	800.247
Zn 206.200	602.444	602.193	593.328

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	46.0867	ppb	0.8221	1.8	3249.01
Al 308.215	94158.3	ppb	194.241	0.2	539396
As 188.980	2106.84	ppb	12.6742	0.6	1144.66
B 249.678	990.426	ppb	8.6266	0.9	9302.82
Ba 389.178	2971.33	ppb	9.6351	0.3	71304.1
Be 313.042	53.6409	ppb	0.1039	0.2	103566
Ca 370.602	15511	ppb	35.85	0.2	39519
Cd 226.502	47.9910	ppb	0.2620	0.5	2044.03
Co 228.615	581.189	ppb	4.0931	0.7	6695.19
Cr 267.716	430.673	ppb	0.6523	0.2	18108.2
Cu 324.754	309.198	ppb	0.7968	0.3	15081.7
Fe 271.441	138967	ppb	274.100	0.2	233007
K 766.491	7772.31	ppb	28.1093	0.4	381682
Mg 279.078	6627.68	ppb	17.4147	0.3	13234.8
Mn 257.610	18300.4	ppb	36.9926	0.2	4150217
Mo 202.032	499.181	ppb	2.5782	0.5	3230.50
Na 330.237	5088.03	ppb	133.826	2.6	192.621
Ni 231.604	543.258	ppb	3.4870	0.6	1287.71
Pb 220.353	640.287	ppb	1.8524	0.3	1032.79
Sb 206.834	478.805	ppb	6.6584	1.4	459.786
Se 196.026	1944.28	ppb	13.2777	0.7	895.860
Sn 189.925	1019.89	ppb	3.7274	0.4	772.057
Sr 216.596	537.844	ppb	0.6878	0.1	5103.73
Ti 334.941	2137.73	ppb	6.1039	0.3	545205
Tl 190.794	2066.22	ppb	2.0205	0.1	1341.51
V 292.401	800.020	ppb	1.4573	0.2	21908.1
Zn 206.200	599.322	ppb	5.1925	0.8	919.914



E03272013.vvq. All Data Report 3/28/2013, 2:04:12 PM

680-88518-a-32-h ms (Samp) 3/28/2013, 6:43:08 AM Rack 3, Tube 41

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	5.9683	7.1021	6.2895
Al 308.215	101177	101001	101154
As 188.980	122.652	130.993	130.408
B 249.678	106.894	105.021	104.650
Ba 389.178	869.122	867.666	871.631
Be 313.042	55.3127	55.2274	55.4209
Ca 370.602	13226	13173	13226
Cd 226.502	49.0365	48.7231	48.8833
Co 228.615	99.4118	99.1984	98.3827
Cr 267.716	200.105	199.692	199.642
Cu 324.754	152.238	151.109	154.320
Fe 271.441	129770	129705	130230
K 766.491	7746.77	7774.90	7815.73
Mg 279.078	6756.70	6724.95	6759.87
Mn 257.610	10015.3	9993.53	10032.9
Mo 202.032	99.1996	99.8315	99.5436
Na 330.237	5290.38	4905.39	5331.07
Ni 231.604	138.726	142.639	141.122
Pb 220.353	187.421	194.321	189.605
Sb 206.834	33.1828	31.5390	29.7128
Se 196.026	86.2176	87.3160	84.8844
Sn 189.925	214.048	208.555	203.332
Sr 216.596	136.729	136.729	136.214
Ti 334.941	1366.77	1362.46	1366.69
Tl 190.794	74.9677	80.0363	78.2972
V 292.401	369.445	370.140	371.474
Zn 206.200	210.175	207.152	208.321

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	6.4533	ppb	0.5844	9.1	457.933
Al 308.215	101110	ppb	95.6828	0.1	579155
As 188.980	128.017	ppb	4.6557	3.6	70.4891
B 249.678	105.522	ppb	1.2031	1.1	1206.31
Ba 389.178	869.473	ppb	2.0056	0.2	20995.6
Be 313.042	55.3203	ppb	0.0970	0.2	106901
Ca 370.602	13208	ppb	30.56	0.2	32464
Cd 226.502	48.8810	ppb	0.1567	0.3	2054.28
Co 228.615	98.9976	ppb	0.5431	0.5	1174.07
Cr 267.716	199.813	ppb	0.2540	0.1	8426.55
Cu 324.754	152.556	ppb	1.6290	1.1	7509.59
Fe 271.441	129901	ppb	286.156	0.2	217737
K 766.491	7779.14	ppb	34.6714	0.4	382017
Mg 279.078	6747.18	ppb	19.3086	0.3	13602.8
Mn 257.610	10013.9	ppb	19.7139	0.2	2271170
Mo 202.032	99.5249	ppb	0.3163	0.3	651.407
Na 330.237	5175.61	ppb	234.900	4.5	208.541
Ni 231.604	140.829	ppb	1.9728	1.4	336.293
Pb 220.353	190.449	ppb	3.5263	1.9	308.300
Sb 206.834	31.4782	ppb	1.7358	5.5	35.2251
Se 196.026	86.1393	ppb	1.2177	1.4	42.2940
Sn 189.925	208.645	ppb	5.3588	2.6	158.595
Sr 216.596	136.557	ppb	0.2975	0.2	1339.14
Ti 334.941	1365.31	ppb	2.4648	0.2	348212
Tl 190.794	77.7671	ppb	2.5755	3.3	37.1168
V 292.401	370.353	ppb	1.0311	0.3	10170.3
Zn 206.200	208.549	ppb	1.5244	0.7	318.656

E03272013.wvq. All Data Report 3/28/2013, 2:04:12 PM

680-88518-a-32-i msd (Samp) 3/28/2013, 6:48:35 AM Rack 3, Tube 42

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	6.6195	6.9020	6.2329
Al 308.215	116104	116232	116115
As 188.980	136.295	142.839	143.187
B 249.678	90.0243	92.0069	90.0922
Ba 389.178	865.400	871.946	866.888
Be 313.042	57.1757	57.0475	56.9528
Ca 370.602	16096	16109	16082
Cd 226.502	48.5858	48.7094	48.8103
Co 228.615	97.2227	97.3374	97.7226
Cr 267.716	355.203	353.689	352.347
Cu 324.754	177.057	177.681	177.295
Fe 271.441	171790	171590	171797
K 766.491	8337.01	8347.45	8326.84
Mg 279.078	7725.58	7746.18	7727.95
Mn 257.610	8826.18	8826.95	8815.66
Mo 202.032	101.023	99.1081	99.7112
Na 330.237	5316.33	4945.49	5232.35
Ni 231.604	147.205	151.110	149.880
Pb 220.353	363.156	366.603	360.842
Sb 206.834	29.7119	32.5301	33.4272
Se 196.026	81.3269	80.6466	80.2886
Sn 189.925	212.255	209.808	208.787
Sr 216.596	147.193	146.986	145.499
Ti 334.941	1503.80	1498.47	1493.81
Tl 190.794	72.5233	70.7140	73.6003
V 292.401	432.160	433.072	432.705
Zn 206.200	294.977	294.727	295.118

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	6.5848	ppb	0.3358	5.1	461.877
Al 308.215	116151	ppb	70.9232	0.1	665266
As 188.980	140.774	ppb	3.8827	2.8	77.0631
B 249.678	90.7078	ppb	1.1256	1.2	1032.50
Ba 389.178	868.078	ppb	3.4311	0.4	21026.2
Be 313.042	57.0587	ppb	0.1119	0.2	110266
Ca 370.602	16096	ppb	13.66	0.1	38333
Cd 226.502	48.7018	ppb	0.1124	0.2	2144.75
Co 228.615	97.4276	ppb	0.2619	0.3	1158.71
Cr 267.716	353.746	ppb	1.4289	0.4	14865.6
Cu 324.754	177.344	ppb	0.3152	0.2	8717.75
Fe 271.441	171725	ppb	117.482	0.1	287834
K 766.491	8337.10	ppb	10.3011	0.1	409401
Mg 279.078	7733.24	ppb	11.2724	0.1	15632.5
Mn 257.610	8822.93	ppb	6.3112	0.1	2001230
Mo 202.032	99.9475	ppb	0.9792	1.0	652.168
Na 330.237	5164.72	ppb	194.455	3.8	193.960
Ni 231.604	149.398	ppb	1.9966	1.3	357.333
Pb 220.353	363.534	ppb	2.8989	0.8	586.175
Sb 206.834	31.8897	ppb	1.9386	6.1	38.0008
Se 196.026	80.7540	ppb	0.5274	0.7	39.6662
Sn 189.925	210.283	ppb	1.7823	0.8	159.834
Sr 216.596	146.560	ppb	0.9241	0.6	1448.42
Ti 334.941	1498.69	ppb	5.0008	0.3	382239
Tl 190.794	72.2792	ppb	1.4585	2.0	33.2519
V 292.401	432.646	ppb	0.4586	0.1	11876.1
Zn 206.200	294.940	ppb	0.1983	0.1	449.282

E03272013.wvq. All Data Report 3/28/2013, 2:04:12 PM

680-88518-a-33-c (Samp) 3/28/2013, 6:54:02 AM Rack 3, Tube 43

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.1400u	-1.0760u	-0.8841u
Al 308.215	71420.4	71873.5	72037.5
As 188.980	8.3330	3.4113	3.1026
B 249.678	-15.5984u	-15.3287u	-16.3356u
Ba 389.178	74.3084	75.6095	73.9773
Be 313.042	0.7593	0.7594	0.7632
Ca 370.602	3976	3980	3994
Cd 226.502	-0.6269	-0.4998	-0.2734
Co 228.615	2.9284	3.0819	3.0198
Cr 267.716	46.1122	45.4290	46.1380
Cu 324.754	27.5669	27.2401	26.7789
Fe 271.441	34051.3	34221.1	34377.4
K 766.491	1606.39	1612.03	1613.37
Mg 279.078	1172.85	1171.52	1179.99
Mn 257.610	77.6314	77.9755	78.3966
Mo 202.032	0.1551u	-0.1283u	0.2988
Na 330.237	73.7226u	404.224	338.108
Ni 231.604	19.0674	17.9286	17.4794
Pb 220.353	28.7426	33.0702	30.9863
Sb 206.834	-4.0812u	8.5946	7.8844
Se 196.026	-1.2898u	-0.6850u	-4.2937u
Sn 189.925	15.6738	11.0661	14.4603
Sr 216.596	14.2717	15.3123	14.6413
Ti 334.941	699.383	698.297	700.855
Tl 190.794	-4.7492u	5.5815	2.2597
V 292.401	84.9680	84.8428	85.0476
Zn 206.200	175.891	178.393	179.632

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.7001	ppb	0.4944	70.6	-80.5521
Al 308.215	71777.1	ppb	319.645	0.4	411200
As 188.980	4.9489	ppb	2.9347	59.3	4.4824
B 249.678	-15.7542	ppb	0.5212	3.3	182.899
Ba 389.178	74.6317	ppb	0.8628	1.2	1820.77
Be 313.042	0.7606	ppb	0.0023	0.3	1304.47
Ca 370.602	3983	ppb	9.086	0.2	10171
Cd 226.502	-0.4667	ppb	0.1790	38.4	75.6362
Co 228.615	3.0100	ppb	0.0772	2.6	65.3025
Cr 267.716	45.8931	ppb	0.4021	0.9	1936.34
Cu 324.754	27.1953	ppb	0.3959	1.5	1429.74
Fe 271.441	34216.6	ppb	163.092	0.5	57351.2
K 766.491	1610.60	ppb	3.7016	0.2	79271.6
Mg 279.078	1174.79	ppb	4.5519	0.4	2398.57
Mn 257.610	78.0012	ppb	0.3832	0.5	17857.1
Mo 202.032	0.1086	ppb	0.2173	200.2	14.3119
Na 330.237	272.018	ppb	174.882	64.3	-6.8278
Ni 231.604	18.1584	ppb	0.8186	4.5	44.5341
Pb 220.353	30.9330	ppb	2.1643	7.0	50.6153
Sb 206.834	4.1326	ppb	7.1222	172.3	6.4218
Se 196.026	-2.0895	ppb	1.9327	92.5	-0.6796
Sn 189.925	13.7334	ppb	2.3883	17.4	11.2000
Sr 216.596	14.7418	ppb	0.5275	3.6	161.653
Ti 334.941	699.511	ppb	1.2838	0.2	178379
Tl 190.794	1.0307	ppb	5.2739	511.7	-0.7820
V 292.401	84.9528	ppb	0.1033	0.1	2338.83
Zn 206.200	177.972	ppb	1.9958	1.1	573.683

E03272013.wvq. All Data Report 3/28/2013, 2:04:12 PM

680-88518-a-34-c (Samp) 3/28/2013, 6:59:29 AM Rack 3, Tube 44

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-3.1144u	-1.8520u	-1.7758u
Al 308.215	125786	126352	126147
As 188.980	85.4899	71.2069	79.6511
B 249.678	110.926	112.942	111.765
Ba 389.178	2791.88	2801.98	2798.11
Be 313.042	20.9256	21.0483	21.0228
Ca 370.602	318951	320243	320680
Cd 226.502	2.0190	1.8674	2.0510
Co 228.615	39.7430	39.4729	39.5834
Cr 267.716	70.0862	70.6869	70.2893
Cu 324.754	285.335	288.955	286.175
Fe 271.441	107486	107945	107399
K 766.491	19116.6	19151.0	19006.4
Mg 279.078	43836.7	44104.7	44072.7
Mn 257.610	11163.5	11222.1	11189.6
Mo 202.032	9.4474	10.0285	10.0341
Na 330.237	2218.21	2250.40	2472.71
Ni 231.604	57.9757	60.8432	60.8421
Pb 220.353	1409.97	1414.70	1416.42
Sb 206.834	3.7886	2.4917	5.0866
Se 196.026	5.0983	-4.3354	2.6957
Sn 189.925	118.738	123.960	125.433
Sr 216.596	953.510	958.413	962.652
Ti 334.941	2817.49	2831.82	2834.30
Tl 190.794	38.7446	47.6819	38.3157
V 292.401	196.267	197.177	196.563
Zn 206.200	824.693	825.515	820.558

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-2.2474	ppb	0.7518	33.5	-182.223
Al 308.215	126095	ppb	286.358	0.2	722195
As 188.980	78.7827	ppb	7.1810	9.1	46.2549
B 249.678	111.878	ppb	1.0128	0.9	1284.94
Ba 389.178	2797.32	ppb	5.0966	0.2	67191.6
Be 313.042	20.9989	ppb	0.0648	0.3	40587.8
Ca 370.602	319958	ppb	899.2	0.3	1024773
Cd 226.502	1.9791	ppb	0.0981	5.0	333.372
Co 228.615	39.5997	ppb	0.1358	0.3	536.018
Cr 267.716	70.3541	ppb	0.3055	0.4	3018.87
Cu 324.754	286.822	ppb	1.8945	0.7	13985.0
Fe 271.441	107610	ppb	293.456	0.3	180367
K 766.491	19091.3	ppb	75.5338	0.4	937208
Mg 279.078	44004.7	ppb	146.372	0.3	89458.4
Mn 257.610	11191.7	ppb	29.4027	0.3	2538399
Mo 202.032	9.8367	ppb	0.3371	3.4	73.6548
Na 330.237	2313.77	ppb	138.578	6.0	54.0092
Ni 231.604	59.8870	ppb	1.6552	2.8	144.558
Pb 220.353	1413.70	ppb	3.3423	0.2	2275.45
Sb 206.834	3.7889	ppb	1.2974	34.2	7.9773
Se 196.026	1.1529	ppb	4.9024	425.2	3.5504
Sn 189.925	122.711	ppb	3.5182	2.9	93.7282
Sr 216.596	958.191	ppb	4.5750	0.5	9101.39
Ti 334.941	2827.87	ppb	9.0708	0.3	721364
Tl 190.794	41.5807	ppb	5.2881	12.7	12.8003
V 292.401	196.669	ppb	0.4642	0.2	5442.29
Zn 206.200	823.589	ppb	2.6563	0.3	1254.72

E03272013.wvq. All Data Report 3/28/2013, 2:04:12 PM

680-88518-a-35-c (Samp) 3/28/2013, 7:04:56 AM Rack 3, Tube 45

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.4969u	-2.3556u	-1.9866u
Al 308.215	63298.3	62663.7	61953.9
As 188.980	45.9538	48.4128	51.9565
B 249.678	40.9667	40.0902	39.7717
Ba 389.178	1841.69	1822.86	1806.19
Be 313.042	11.9294	11.8386	11.7220
Ca 370.602	163351	161794	160485
Cd 226.502	2.9412	2.7889	2.7285
Co 228.615	17.7501	17.6920	17.5376
Cr 267.716	83.6052	82.6928	81.8360
Cu 324.754	216.195	215.926	215.263
Fe 271.441	58609.6	58003.2	57476.4
K 766.491	9634.14	9527.81	9455.43
Mg 279.078	34229.4	33936.9	33571.9
Mn 257.610	4569.62	4534.62	4475.44
Mo 202.032	4.1578	3.5521	3.0195
Na 330.237	1776.15	1813.29	1832.75
Ni 231.604	48.4114	48.0332	44.2313
Pb 220.353	1084.63	1076.19	1059.92
Sb 206.834	4.1278	2.2362	5.8428
Se 196.026	4.3196	7.8422	-0.2391
Sn 189.925	99.4746	101.472	95.3254
Sr 216.596	527.084	524.765	519.921
Ti 334.941	1464.36	1454.25	1440.38
Tl 190.794	14.6937	12.8283	16.4286
V 292.401	87.3683	85.6458	85.1342
Zn 206.200	2127.14	2111.62	2089.96

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.6130	ppb	0.9841	61.0	-147.932
Al 308.215	62638.6	ppb	672.538	1.1	358878
As 188.980	48.7743	ppb	3.0177	6.2	29.2294
B 249.678	40.2762	ppb	0.6188	1.5	674.282
Ba 389.178	1823.58	ppb	17.7650	1.0	43792.4
Be 313.042	11.8300	ppb	0.1040	0.9	22784.0
Ca 370.602	161877	ppb	1435	0.9	518133
Cd 226.502	2.8195	ppb	0.1096	3.9	248.441
Co 228.615	17.6599	ppb	0.1098	0.6	251.351
Cr 267.716	82.7113	ppb	0.8847	1.1	3498.27
Cu 324.754	215.795	ppb	0.4797	0.2	10542.6
Fe 271.441	58029.8	ppb	567.050	1.0	97264.7
K 766.491	9539.12	ppb	89.8939	0.9	468395
Mg 279.078	33912.7	ppb	329.434	1.0	69016.2
Mn 257.610	4526.56	ppb	47.6053	1.1	1026842
Mo 202.032	3.5765	ppb	0.5696	15.9	35.6327
Na 330.237	1807.39	ppb	28.7572	1.6	44.0772
Ni 231.604	46.8920	ppb	2.3120	4.9	112.898
Pb 220.353	1073.58	ppb	12.5607	1.2	1728.73
Sb 206.834	4.0689	ppb	1.8041	44.3	7.2798
Se 196.026	3.9742	ppb	4.0517	101.9	3.1833
Sn 189.925	98.7574	ppb	3.1355	3.2	75.5551
Sr 216.596	523.923	ppb	3.6550	0.7	4979.60
Ti 334.941	1453.00	ppb	12.0385	0.8	370679
Tl 190.794	14.6502	ppb	1.8005	12.3	3.1007
V 292.401	86.0494	ppb	1.1705	1.4	2378.38
Zn 206.200	2109.57	ppb	18.6746	0.9	3294.70

E03272013.vvq. All Data Report 3/28/2013, 2:04:12 PM

680-88592-b-19-a (Samp) 3/28/2013, 7:10:24 AM Rack 3, Tube 46

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	11.2136	9.7977	10.0985
Al 308.215	119631	119515	119137
As 188.980	223.042	223.665	215.439
B 249.678	10.3768u	9.8779u	9.2040u
Ba 389.178	3367.14	3366.14	3354.71
Be 313.042	11.7623	11.7465	11.7302
Ca 370.602	257234	255990	255305
Cd 226.502	24.9534	24.3331	24.4886
Co 228.615	108.455	110.383	109.585
Cr 267.716	479.404	479.127	477.885
Cu 324.754	5462.53	5425.19	5407.72
Fe 271.441	463453	463725	463026
K 766.491	12494.3	12482.5	12483.7
Mg 279.078	69734.3	69816.8	69449.9
Mn 257.610	16124.1	16123.5	16124.9
Mo 202.032	32.0063	33.0727	33.1370
Na 330.237	2935.11u	2591.37u	2787.73u
Ni 231.604	194.025	194.726	191.921
Pb 220.353	5578.72	5573.18	5534.92
Sb 206.834	41.6475	41.2665	44.5461
Se 196.026	-3.5715	11.5244	2.0367
Sn 189.925	253.096	252.725	254.581
Sr 216.596	514.884	515.156	512.836
Ti 334.941	1453.23	1456.86	1455.48
Tl 190.794	61.5293	62.2477	65.9996
V 292.401	377.251	376.828	376.862
Zn 206.200	20091.0	20037.3	19918.6

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	10.3699	ppb	0.7460	7.2	739.281
Al 308.215	119428	ppb	257.989	0.2	684021
As 188.980	220.716	ppb	4.5801	2.1	119.640
B 249.678	9.8196	ppb	0.5886	6.0	24.8108
Ba 389.178	3362.66	ppb	6.9070	0.2	81310.4
Be 313.042	11.7463	ppb	0.0160	0.1	22633.9
Ca 370.602	256176	ppb	977.6	0.4	789383
Cd 226.502	24.5917	ppb	0.3227	1.3	1965.05
Co 228.615	109.474	ppb	0.9687	0.9	1288.00
Cr 267.716	478.805	ppb	0.8091	0.2	20181.3
Cu 324.754	5431.81	ppb	28.0021	0.5	262494
Fe 271.441	463402	ppb	352.394	0.1	776687
K 766.491	12486.8	ppb	6.4861	0.1	613065
Mg 279.078	69667.0	ppb	192.497	0.3	141715
Mn 257.610	16124.2	ppb	0.6843	0.0	3657959
Mo 202.032	32.7387	ppb	0.6351	1.9	205.317
Na 330.237	2771.41	ppb	172.448	6.2	-158.864
Ni 231.604	193.557	ppb	1.4596	0.8	467.188
Pb 220.353	5562.27	ppb	23.8485	0.4	8951.58
Sb 206.834	42.4867	ppb	1.7936	4.2	56.2021
Se 196.026	3.3299	ppb	7.6306	229.2	6.6465
Sn 189.925	253.467	ppb	0.9823	0.4	192.573
Sr 216.596	514.292	ppb	1.2680	0.2	5039.45
Ti 334.941	1455.19	ppb	1.8322	0.1	371430
Tl 190.794	63.2589	ppb	2.4005	3.8	10.3364
V 292.401	376.980	ppb	0.2350	0.1	10350.8
Zn 206.200	20015.6	ppb	88.2208	0.4	30373.6

E03272013.vvq. All Data Report 3/28/2013, 2:04:12 PM

**680-88592-b-19-b ms (Samp)**      **3/28/2013, 7:15:51 AM**      **Rack 3, Tube 47****Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	38.2851	38.6394	38.2317
Al 308.215	129301	129058	129136
As 188.980	294.251	299.234	294.737
B 249.678	183.912	186.480	190.317
Ba 389.178	3299.96	3299.34	3299.76
Be 313.042	61.2482	61.1806	61.2548
Ca 370.602	255960	254857	255794
Cd 226.502	72.7943	72.7499	72.7084
Co 228.615	157.547	153.842	155.318
Cr 267.716	577.443	576.824	576.807
Cu 324.754	5774.84	5721.23	5817.85
Fe 271.441	467007	466186	466237
K 766.491	18063.6	17996.5	18049.3
Mg 279.078	73061.5	73039.8	72975.0
Mn 257.610	14920.0	14897.1	14933.6
Mo 202.032	122.282	123.070	122.792
Na 330.237	6825.33	6978.26	7125.69
Ni 231.604	273.666	276.607	274.815
Pb 220.353	5306.16	5284.00	5297.79
Sb 206.834	59.2025	48.9553	52.1324
Se 196.026	85.2562	88.0761	82.7579
Sn 189.925	446.049	447.761	442.183
Sr 216.596	611.976	611.178	610.353
Ti 334.941	1632.96	1633.71	1632.54
Tl 190.794	82.6791	82.6225	91.2890
V 292.401	543.224	544.690	544.919
Zn 206.200	11732.8	11742.1	11754.9

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	38.3854	ppb	0.2216	0.6	2689.18
Al 308.215	129165	ppb	123.726	0.1	739781
As 188.980	296.074	ppb	2.7477	0.9	160.498
B 249.678	186.903	ppb	3.2231	1.7	1643.95
Ba 389.178	3299.69	ppb	0.3169	0.0	79817.9
Be 313.042	61.2279	ppb	0.0410	0.1	118405
Ca 370.602	255537	ppb	595.0	0.2	787067
Cd 226.502	72.7509	ppb	0.0430	0.1	3686.53
Co 228.615	155.569	ppb	1.8653	1.2	1816.84
Cr 267.716	577.025	ppb	0.3623	0.1	24282.2
Cu 324.754	5771.31	ppb	48.4105	0.8	278887
Fe 271.441	466477	ppb	460.204	0.1	781849
K 766.491	18036.5	ppb	35.3176	0.2	885435
Mg 279.078	73025.5	ppb	45.0010	0.1	148571
Mn 257.610	14916.9	ppb	18.4180	0.1	3384235
Mo 202.032	122.715	ppb	0.3998	0.3	785.795
Na 330.237	6976.43	ppb	150.186	2.2	113.327
Ni 231.604	275.029	ppb	1.4824	0.5	659.821
Pb 220.353	5295.98	ppb	11.1926	0.2	8522.52
Sb 206.834	53.4301	ppb	5.2454	9.8	66.8828
Se 196.026	85.3634	ppb	2.6607	3.1	43.9770
Sn 189.925	445.331	ppb	2.8573	0.6	337.662
Sr 216.596	611.169	ppb	0.8115	0.1	5948.88
Ti 334.941	1633.07	ppb	0.5923	0.0	416810
Tl 190.794	85.5302	ppb	4.9874	5.8	26.1464
V 292.401	544.278	ppb	0.9193	0.2	14931.4
Zn 206.200	11743.3	ppb	11.0729	0.1	17821.3

E03272013.wvq. All Data Report 3/28/2013, 2:04:12 PM

**680-88592-b-19-c msd (Samp) 3/28/2013, 7:21:18 AM Rack 3, Tube 48****Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	22.5549	23.0811	22.4002
Al 308.215	118377	119165	118742
As 188.980	368.511	366.615	368.085
B 249.678	195.528	198.500	198.352
Ba 389.178	3074.17	3086.11	3084.54
Be 313.042	60.4759	60.7137	60.6718
Ca 370.602	318632	322699	319289
Cd 226.502	70.7701	71.8192	70.6256
Co 228.615	151.804	156.395	155.561
Cr 267.716	516.031	517.557	516.539
Cu 324.754	7169.80	7164.75	7121.46
Fe 271.441	555317	557079	556608
K 766.491	18666.3	18787.7	18787.0
Mg 279.078	99688.8	99919.1	99630.7
Mn 257.610	13479.9	13484.2	13474.6
Mo 202.032	134.546	133.433	135.221
Na 330.237	7120.79	7279.15	7182.95
Ni 231.604	343.575	341.849	343.333
Pb 220.353	5066.73	5085.32	5078.82
Sb 206.834	54.0382	53.0874	57.0587
Se 196.026	90.1316	87.0619	93.1353
Sn 189.925	338.637	333.028	334.403
Sr 216.596	645.765	646.998	646.846
Ti 334.941	1472.12	1475.87	1476.69
Tl 190.794	80.1889	80.9712	71.2502
V 292.401	387.476	389.716	389.242
Zn 206.200	10494.7	10563.3	10521.5

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	22.6788	ppb	0.3569	1.6	1581.85
Al 308.215	118762	ppb	394.249	0.3	680220
As 188.980	367.737	ppb	0.9948	0.3	199.081
B 249.678	197.460	ppb	1.6745	0.8	1658.74
Ba 389.178	3081.61	ppb	6.4916	0.2	74803.4
Be 313.042	60.6205	ppb	0.1269	0.2	117253
Ca 370.602	320206	ppb	2183	0.7	988343
Cd 226.502	71.0716	ppb	0.6514	0.9	3835.09
Co 228.615	154.587	ppb	2.4458	1.6	1798.06
Cr 267.716	516.709	ppb	0.7774	0.2	21774.8
Cu 324.754	7152.00	ppb	26.5690	0.4	345577
Fe 271.441	556335	ppb	912.323	0.2	932450
K 766.491	18747.0	ppb	69.9217	0.4	920308
Mg 279.078	99746.2	ppb	152.541	0.2	203036
Mn 257.610	13479.6	ppb	4.8235	0.0	3058700
Mo 202.032	134.400	ppb	0.9026	0.7	857.498
Na 330.237	7194.29	ppb	79.7884	1.1	107.999
Ni 231.604	342.919	ppb	0.9345	0.3	821.965
Pb 220.353	5076.96	ppb	9.4348	0.2	8170.09
Sb 206.834	54.7281	ppb	2.0736	3.8	69.3209
Se 196.026	90.1096	ppb	3.0368	3.4	46.0667
Sn 189.925	335.356	ppb	2.9235	0.9	254.522
Sr 216.596	646.536	ppb	0.6724	0.1	6318.49
Ti 334.941	1474.89	ppb	2.4359	0.2	376588
Tl 190.794	77.4701	ppb	5.4007	7.0	19.1205
V 292.401	388.811	ppb	1.1805	0.3	10654.5
Zn 206.200	10526.5	ppb	34.5530	0.3	15975.7



E03272013.vvq. All Data Report 3/28/2013, 2:04:12 PM

**Cont Calib Verif (CCV)**                      **3/28/2013, 7:26:56 AM**                      **Rack 3, Tube 49**  
**Weight: 1**    **Volume: 1**    **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	497.763	494.805	495.988
Al 308.215	4975.86	4952.12	4986.81
As 188.980	467.087	469.120	469.032
B 249.678	2498.71	2500.59	2543.92
Ba 389.178	4907.08	4888.81	4918.88
Be 313.042	487.522	485.413	489.239
Ca 370.602	4907	4892	4928
Cd 226.502	490.945	488.492	493.552
Co 228.615	497.180	494.147	496.805
Cr 267.716	4875.23	4856.21	4889.82
Cu 324.754	4871.97	4916.82	4846.54
Fe 271.441	4966.39	4935.72	5005.06
K 766.491	9963.26	9965.27	10030.7
Mg 279.078	4881.64	4872.12	4911.98
Mn 257.610	4946.52	4930.34	4959.57
Mo 202.032	482.286	483.425	483.951
Na 330.237	7230.45	7505.44	7535.35
Ni 231.604	2455.65	2435.98	2466.76
Pb 220.353	485.523	487.287	492.874
Sb 206.834	905.450	892.756	912.609
Se 196.026	4790.99	4788.08	4816.38
Sn 189.925	5031.70	4958.85	4995.12
Sr 216.596	2432.03	2423.42	2440.77
Ti 334.941	491.046	489.198	492.701
Tl 190.794	4917.81	4892.22	4941.06
V 292.401	4917.51	4908.10	4941.88
Zn 206.200	2457.29	2436.37	2473.68

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	496.185	ppb	1.4884	0.3	34594.5	99.23710
Al 308.215	4971.59	ppb	17.7317	0.4	28684.9	99.43188
As 188.980	468.413	ppb	1.1494	0.2	256.257	93.68254
B 249.678	2514.41	ppb	25.5769	1.0	23383.6	100.57644
Ba 389.178	4904.93	ppb	15.1538	0.3	117379	98.09852
Be 313.042	487.392	ppb	1.9164	0.4	943114	97.47832
Ca 370.602	4909	ppb	18.19	0.4	15709	98.18610
Cd 226.502	490.996	ppb	2.5304	0.5	17503.2	98.19923
Co 228.615	496.044	ppb	1.6534	0.3	5695.65	99.20876
Cr 267.716	4873.75	ppb	16.8512	0.3	203729	97.47505
Cu 324.754	4878.44	ppb	35.5867	0.7	235614	97.56888
Fe 271.441	4969.06	ppb	34.7469	0.7	8450.99	99.38116
K 766.491	9986.42	ppb	38.3808	0.4	490348	99.86417
Mg 279.078	4888.58	ppb	20.8180	0.4	9901.65	97.77156
Mn 257.610	4945.48	ppb	14.6398	0.3	1121530	98.90950
Mo 202.032	483.221	ppb	0.8513	0.2	3126.52	96.64418
Na 330.237	7423.75	ppb	168.066	2.3	349.901	98.98331
Ni 231.604	2452.80	ppb	15.5855	0.6	5798.87	98.11193
Pb 220.353	488.562	ppb	3.8376	0.8	788.386	97.71231
Sb 206.834	903.605	ppb	10.0544	1.1	908.674	90.36053
Se 196.026	4798.48	ppb	15.5687	0.3	2200.61	95.96966
Sn 189.925	4995.22	ppb	36.4254	0.7	3778.20	99.90441
Sr 216.596	2432.07	ppb	8.6750	0.4	22868.3	97.28284
Ti 334.941	490.982	ppb	1.7524	0.4	125206	98.19636
Tl 190.794	4917.03	ppb	24.4290	0.5	3242.06	98.34058
V 292.401	4922.50	ppb	17.4297	0.4	135003	98.44993
Zn 206.200	2455.78	ppb	18.7938	0.8	3714.46	98.23118

E03272013.vvq. All Data Report 3/28/2013, 2:04:12 PM

Cont Calib Blank (CCB)                      3/28/2013, 7:32:24 AM                      Rack 3, Tube 50  
 Weight: 1    Volume: 1    Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.3472u	-0.8736u	-0.9452u
Al 308.215	1.2671	-0.8561u	-0.8004u
As 188.980	-4.1035u	-3.8242u	-5.4240u
B 249.678	34.1107	29.0664	23.8156
Ba 389.178	0.6830	-1.2728u	-0.4053u
Be 313.042	-0.0358u	-0.0403u	-0.0233u
Ca 370.602	5.884	2.114	1.654
Cd 226.502	0.0069	-0.1543u	-0.0311u
Co 228.615	0.3818	-0.1420u	0.1720
Cr 267.716	-0.4258u	-0.0987u	0.1046
Cu 324.754	-0.2830u	0.0550	-0.6289u
Fe 271.441	3.7776	11.4197	5.4712
K 766.491	-0.5350u	-0.6420u	-0.4233u
Mg 279.078	7.6723	1.6055	1.8099
Mn 257.610	-0.1156u	-0.0497u	0.0804
Mo 202.032	-0.3856u	-0.4374u	-0.6903u
Na 330.237	-69.5329u	-117.536u	-34.5762u
Ni 231.604	1.5757	0.3309	0.3787
Pb 220.353	0.4980	-0.4216u	0.1138
Sb 206.834	3.1962	2.5598	0.4645
Se 196.026	0.5676	-9.7390u	8.1083
Sn 189.925	0.9392	-3.9073u	7.9136
Sr 216.596	0.1563	-0.1787u	0.0129
Ti 334.941	0.0253	0.0104	-0.0449u
Tl 190.794	1.2623	3.2297	-2.7283u
V 292.401	0.4448	-0.1781u	0.1172
Zn 206.200	0.5466	0.1607	-0.0841u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	-0.7220	ppb	0.3266	45.2	-82.4606	-0.72202
Al 308.215	-0.1298	ppb	1.2101	932.2	242.949	-0.12981
As 188.980	-4.4506	ppb	0.8545	19.2	-0.3453	-4.45058
B 249.678	28.9976	ppb	5.1479	17.8	623.977	28.99757
Ba 389.178	-0.3317	ppb	0.9800	295.4	-26.3001	-0.33172
Be 313.042	-0.0331	ppb	0.0088	26.5	-236.759	-0.03314
Ca 370.602	3.217	ppb	2.321	72.1	6.316	3.21746
Cd 226.502	-0.0595	ppb	0.0843	141.6	10.8905	-0.05952
Co 228.615	0.1373	ppb	0.2636	192.0	15.2577	0.13728
Cr 267.716	-0.1399	ppb	0.2676	191.2	3.5503	-0.13994
Cu 324.754	-0.2856	ppb	0.3419	119.7	93.9676	-0.28564
Fe 271.441	6.8895	ppb	4.0136	58.3	13.9849	6.88949
K 766.491	-0.5334	ppb	0.1094	20.5	199.093	-0.53345
Mg 279.078	3.6959	ppb	3.4452	93.2	29.3327	3.69590
Mn 257.610	-0.0283	ppb	0.0997	352.5	65.2839	-0.02829
Mo 202.032	-0.5044	ppb	0.1630	32.3	12.0217	-0.50443
Na 330.237	-73.8817	ppb	41.6504	56.4	-7.5558	-73.88165
Ni 231.604	0.7618	ppb	0.7053	92.6	2.7506	0.76178
Pb 220.353	0.0634	ppb	0.4619	729.0	2.5779	0.06336
Sb 206.834	2.0735	ppb	1.4293	68.9	3.2709	2.07350
Se 196.026	-0.3544	ppb	8.9593	2528.2	0.0049	-0.35438
Sn 189.925	1.6485	ppb	5.9423	360.5	2.0605	1.64853
Sr 216.596	-0.0032	ppb	0.1681	5289.8	10.4617	-0.00318
Ti 334.941	-0.0031	ppb	0.0370	1211.1	-30.8400	-0.00306
Tl 190.794	0.5879	ppb	3.0357	516.4	0.1293	0.58790
V 292.401	0.1279	ppb	0.3116	243.6	-2.1147	0.12794
Zn 206.200	0.2077	ppb	0.3180	153.1	2.0763	0.20772

E03272013.wvq. All Data Report 3/28/2013, 2:04:12 PM

680-88592-b-28-a (Samp) 3/28/2013, 7:37:51 AM Rack 3, Tube 51

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.5410	0.8744	1.2362
Al 308.215	165987	166117	166356
As 188.980	236.206	236.393	239.123
B 249.678	64.5332	63.9341	63.8787
Ba 389.178	3580.25	3580.23	3579.90
Be 313.042	22.6748	22.6810	22.7432
Ca 370.602	587190	589098	587669
Cd 226.502	21.0979	21.5517	20.6445
Co 228.615	94.6987	94.8057	93.7190
Cr 267.716	569.713	569.776	572.385
Cu 324.754	1100.60	1101.10	1106.97
Fe 271.441	535581	534367	535016
K 766.491	16633.4	16571.8	16527.6
Mg 279.078	95415.9	95655.1	95731.1
Mn 257.610	11181.9	11207.8	11215.8
Mo 202.032	18.8433	18.3674	18.8192
Na 330.237	2891.53u	3112.63u	3089.26u
Ni 231.604	153.566	154.823	152.288
Pb 220.353	3157.45	3152.40	3165.73
Sb 206.834	27.7668	43.8382	37.2521
Se 196.026	0.9898	0.2592	4.6768
Sn 189.925	123.616	114.160	119.566
Sr 216.596	1322.60	1325.37	1331.10
Ti 334.941	3465.82	3470.51	3477.71
Tl 190.794	50.9296	46.5689	42.7653u
V 292.401	789.695	790.317	792.555
Zn 206.200	8443.43	8444.27	8468.01

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.8839	ppb	0.3477	39.3	21.5800
Al 308.215	166153	ppb	186.878	0.1	951539
As 188.980	237.241	ppb	1.6326	0.7	130.447
B 249.678	64.1153	ppb	0.3629	0.6	457.364
Ba 389.178	3580.13	ppb	0.2010	0.0	86688.8
Be 313.042	22.6997	ppb	0.0378	0.2	43946.3
Ca 370.602	587986	ppb	992.6	0.2	1854827
Cd 226.502	21.0980	ppb	0.4536	2.1	2005.41
Co 228.615	94.4078	ppb	0.5989	0.6	1166.57
Cr 267.716	570.625	ppb	1.5251	0.3	24016.4
Cu 324.754	1102.89	ppb	3.5456	0.3	53502.7
Fe 271.441	534988	ppb	607.499	0.1	896668
K 766.491	16577.6	ppb	53.1229	0.3	813836
Mg 279.078	95600.7	ppb	164.448	0.2	194611
Mn 257.610	11201.8	ppb	17.7407	0.2	2542125
Mo 202.032	18.6766	ppb	0.2681	1.4	110.668
Na 330.237	3031.14	ppb	121.471	4.0	-97.1530
Ni 231.604	153.559	ppb	1.2676	0.8	373.971
Pb 220.353	3158.52	ppb	6.7300	0.2	5081.49
Sb 206.834	36.2857	ppb	8.0792	22.3	52.9463
Se 196.026	1.9753	ppb	2.3680	119.9	5.0899
Sn 189.925	119.114	ppb	4.7440	4.0	91.1011
Sr 216.596	1326.36	ppb	4.3357	0.3	12744.3
Ti 334.941	3471.35	ppb	5.9892	0.2	885730
Tl 190.794	46.7546	ppb	4.0853	8.7	1.9415
V 292.401	790.856	ppb	1.5041	0.2	21763.9
Zn 206.200	8451.90	ppb	13.9531	0.2	12829.9

E03272013.wvq. All Data Report 3/28/2013, 2:04:12 PM

**680-88592-b-30-a (Samp)**                      **3/28/2013, 7:43:19 AM**                      **Rack 3, Tube 52**  
**Weight: 1**    **Volume: 1**    **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	4.0518	5.0269	4.9803
Al 308.215	97307.4	97263.8	97104.4
As 188.980	379.580	391.041	399.650
B 249.678	229.718	229.714	229.415
Ba 389.178	7858.65	7852.01	7843.76
Be 313.042	13.8846	13.8653	13.8851
Ca 370.602	177078	177754	177660
Cd 226.502	34.1998	33.8714	33.7397
Co 228.615	91.2793	90.4346	89.3488
Cr 267.716	247.501	248.712	249.036
Cu 324.754	1209.95	1191.44	1188.37
Fe 271.441	259581	258322	258818
K 766.491	12013.1	11910.6	11908.9
Mg 279.078	16207.8	16213.0	16232.3
Mn 257.610	6560.25	6542.40	6553.68
Mo 202.032	44.0951	46.0766	43.9697
Na 330.237	3930.02	3680.34	3565.77
Ni 231.604	196.733	197.377	196.492
Pb 220.353	3340.94	3333.57	3330.30
Sb 206.834	18.4002	21.5981	33.7991
Se 196.026	16.6445	9.1300	24.2705
Sn 189.925	164.232	170.896	167.826
Sr 216.596	1717.93	1728.56	1725.76
Ti 334.941	1986.72	1994.73	1997.12
Tl 190.794	28.0100	27.2684	38.3586
V 292.401	336.441	335.159	335.322
Zn 206.200	8665.81	8646.52	8632.59

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	4.6864	ppb	0.5500	11.7	250.760
Al 308.215	97225.2	ppb	106.849	0.1	556904
As 188.980	390.090	ppb	10.0685	2.6	212.845
B 249.678	229.616	ppb	0.1742	0.1	2224.90
Ba 389.178	7851.47	ppb	7.4618	0.1	188273
Be 313.042	13.8784	ppb	0.0113	0.1	26736.4
Ca 370.602	177497	ppb	366.1	0.2	552132
Cd 226.502	33.9370	ppb	0.2369	0.7	1822.21
Co 228.615	90.3542	ppb	0.9677	1.1	1089.10
Cr 267.716	248.416	ppb	0.8088	0.3	10473.2
Cu 324.754	1196.59	ppb	11.6714	1.0	57952.8
Fe 271.441	258907	ppb	634.365	0.2	433950
K 766.491	11944.2	ppb	59.6449	0.5	586434
Mg 279.078	16217.7	ppb	12.8984	0.1	32969.4
Mn 257.610	6552.11	ppb	9.0269	0.1	1486592
Mo 202.032	44.7138	ppb	1.1818	2.6	291.832
Na 330.237	3725.38	ppb	186.254	5.0	29.6685
Ni 231.604	196.867	ppb	0.4573	0.2	471.172
Pb 220.353	3334.94	ppb	5.4492	0.2	5366.29
Sb 206.834	24.5991	ppb	8.1263	33.0	32.3242
Se 196.026	16.6817	ppb	7.5703	45.4	10.0162
Sn 189.925	167.651	ppb	3.3353	2.0	127.655
Sr 216.596	1724.09	ppb	5.5106	0.3	16353.7
Ti 334.941	1992.86	ppb	5.4452	0.3	508310
Tl 190.794	31.2123	ppb	6.2000	19.9	5.3594
V 292.401	335.641	ppb	0.6979	0.2	9233.40
Zn 206.200	8648.31	ppb	16.6841	0.2	12125.7

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680-88592-a-33-a (Samp) 3/28/2013, 7:48:46 AM Rack 3, Tube 53

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	8.7284	8.6495	8.3883
Al 308.215	113900	113835	113980
As 188.980	204.607	193.979	198.857
B 249.678	34.3243u	32.0499u	34.2221u
Ba 389.178	2923.78	2925.12	2932.86
Be 313.042	10.5425	10.5651	10.5906
Ca 370.602	270927	272173	273052
Cd 226.502	23.9319	23.8194	23.9484
Co 228.615	90.6191	89.4658	89.7306
Cr 267.716	443.549	444.808	444.944
Cu 324.754	10420.3	10620.0	10533.2
Fe 271.441	430286	430682	431592
K 766.491	11884.3	11840.7	11881.9
Mg 279.078	64152.8	64062.0	64191.4
Mn 257.610	12497.5	12507.9	12524.9
Mo 202.032	42.9109	43.9008	41.9387
Na 330.237	1949.16u	2050.35u	1520.20u
Ni 231.604	225.070	226.965	225.299
Pb 220.353	5670.98	5697.26	5691.54
Sb 206.834	21.1151	29.2276	29.7432
Se 196.026	7.1928	2.8151	7.3101
Sn 189.925	212.549	218.302	212.951
Sr 216.596	559.932	564.201	563.992
Ti 334.941	1286.04	1294.51	1295.22
Tl 190.794	50.4043	52.1148	38.9139u
V 292.401	302.598	302.893	303.061
Zn 206.200	11427.0	11405.1	11409.9

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	8.5887	ppb	0.1780	2.1	596.900
Al 308.215	113905	ppb	72.7782	0.1	652404
As 188.980	199.148	ppb	5.3201	2.7	108.339
B 249.678	33.5321	ppb	1.2847	3.8	271.690
Ba 389.178	2927.25	ppb	4.9049	0.2	70829.4
Be 313.042	10.5661	ppb	0.0241	0.2	20357.3
Ca 370.602	272051	ppb	1068	0.4	843172
Cd 226.502	23.8999	ppb	0.0702	0.3	1864.93
Co 228.615	89.9385	ppb	0.6041	0.7	1061.08
Cr 267.716	444.434	ppb	0.7688	0.2	18724.6
Cu 324.754	10524.5	ppb	100.166	1.0	508369
Fe 271.441	430853	ppb	669.464	0.2	722133
K 766.491	11869.0	ppb	24.5129	0.2	582741
Mg 279.078	64135.4	ppb	66.4396	0.1	130500
Mn 257.610	12510.1	ppb	13.8738	0.1	2838326
Mo 202.032	42.9168	ppb	0.9811	2.3	272.604
Na 330.237	1839.90	ppb	281.459	15.3	-131.940
Ni 231.604	225.778	ppb	1.0339	0.5	542.733
Pb 220.353	5686.59	ppb	13.8187	0.2	9151.00
Sb 206.834	26.6953	ppb	4.8394	18.1	39.9421
Se 196.026	5.7727	ppb	2.5620	44.4	6.8491
Sn 189.925	214.601	ppb	3.2118	1.5	163.189
Sr 216.596	562.708	ppb	2.4068	0.4	5484.46
Ti 334.941	1291.92	ppb	5.1084	0.4	329765
Tl 190.794	47.1443	ppb	7.1789	15.2	4.2666
V 292.401	302.851	ppb	0.2343	0.1	8309.18
Zn 206.200	11414.0	ppb	11.5492	0.1	57322.3

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680-88592-a-34-a (Samp) 3/28/2013, 7:54:13 AM Rack 3, Tube 54

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	2.5042	3.2215	2.6651
Al 308.215	162599	162445	162087
As 188.980	267.108	260.868	263.718
B 249.678	57.6534	58.7131	60.9632
Ba 389.178	4215.67	4212.31	4207.45
Be 313.042	20.3897	20.3294	20.3268
Ca 370.602	405083	405802	403025
Cd 226.502	28.6591	28.8560	27.9234
Co 228.615	102.692	101.228	103.340
Cr 267.716	659.195	657.234	657.409
Cu 324.754	1938.27	1930.46	1913.87
Fe 271.441	552179	552175	551290
K 766.491	16235.6	16229.2	16253.0
Mg 279.078	83806.4	83715.9	83504.3
Mn 257.610	11014.1	10985.2	10980.1
Mo 202.032	23.4905	22.5990	23.1693
Na 330.237	3091.87u	2906.80u	3102.59u
Ni 231.604	221.258	222.044	220.992
Pb 220.353	4957.13	4943.48	4910.94
Sb 206.834	19.0764	18.4881	15.8553
Se 196.026	10.4643	3.2772	2.6482
Sn 189.925	273.391	276.208	275.414
Sr 216.596	1142.37	1137.51	1139.71
Ti 334.941	3472.60	3468.43	3468.89
Tl 190.794	46.9411	43.2264u	48.3290
V 292.401	691.324	692.458	691.668
Zn 206.200	9915.40	9857.28	9853.00

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	2.7969	ppb	0.3764	13.5	162.767
Al 308.215	162377	ppb	262.987	0.2	929919
As 188.980	263.898	ppb	3.1239	1.2	143.387
B 249.678	59.1099	ppb	1.6902	2.9	395.135
Ba 389.178	4211.81	ppb	4.1324	0.1	101797
Be 313.042	20.3486	ppb	0.0356	0.2	39331.4
Ca 370.602	404637	ppb	1441	0.4	1261504
Cd 226.502	28.4795	ppb	0.4916	1.7	2309.66
Co 228.615	102.420	ppb	1.0819	1.1	1257.15
Cr 267.716	657.946	ppb	1.0848	0.2	27670.4
Cu 324.754	1927.53	ppb	12.4583	0.6	93323.9
Fe 271.441	551882	ppb	512.367	0.1	924982
K 766.491	16239.3	ppb	12.3299	0.1	797232
Mg 279.078	83675.5	ppb	155.007	0.2	170329
Mn 257.610	10993.1	ppb	18.3749	0.2	2494781
Mo 202.032	23.0863	ppb	0.4515	2.0	138.505
Na 330.237	3033.75	ppb	110.075	3.6	-112.584
Ni 231.604	221.431	ppb	0.5474	0.2	534.739
Pb 220.353	4937.18	ppb	23.7321	0.5	7943.05
Sb 206.834	17.8066	ppb	1.7153	9.6	36.4484
Se 196.026	5.4632	ppb	4.3424	79.5	6.6901
Sn 189.925	275.004	ppb	1.4523	0.5	208.914
Sr 216.596	1139.86	ppb	2.4321	0.2	10976.5
Ti 334.941	3469.97	ppb	2.2849	0.1	885332
Tl 190.794	46.1655	ppb	2.6382	5.7	1.1121
V 292.401	691.817	ppb	0.5815	0.1	19033.2
Zn 206.200	9875.23	ppb	34.8567	0.4	14987.8

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**mb 680-270845/1-a (Samp)**      **3/28/2013, 7:59:40 AM**      **Rack 3, Tube 55**  
**Weight: 1**      **Volume: 1**      **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-1.5705u	0.1812	-1.5792u
Al 308.215	4.2098	5.0129	4.7914
As 188.980	-4.7531u	-1.5567u	-11.2039u
B 249.678	-26.5706u	-26.2894u	-25.7199u
Ba 389.178	0.0873	-0.0781u	0.3390
Be 313.042	-0.0337u	-0.0266u	-0.0316u
Ca 370.602	18.59	14.91	16.80
Cd 226.502	0.0305	-0.2541u	0.0802
Co 228.615	-0.6743u	-0.2587u	-0.3226u
Cr 267.716	0.0589	-0.0561u	0.1873
Cu 324.754	-0.2162u	-0.2595u	0.5157
Fe 271.441	27.5477	31.2863	23.7063
K 766.491	10.3813	10.7739	11.0115
Mg 279.078	4.0269	6.6007	11.3733
Mn 257.610	0.5318	0.4672	0.4587
Mo 202.032	-1.2158u	-0.3673u	-0.8836u
Na 330.237	-44.4718u	489.717	145.380
Ni 231.604	-0.1461u	0.1311	1.3685
Pb 220.353	0.3438	-5.4755u	3.5045
Sb 206.834	-6.4568u	-3.8044u	-2.2628u
Se 196.026	0.3428	3.1436	-1.0768u
Sn 189.925	8.5093	10.0391	9.2585
Sr 216.596	-0.2615u	-0.3216u	-0.1832u
Ti 334.941	1.4414	1.2547	1.0056
Tl 190.794	0.5350	-7.1876u	-0.8887u
V 292.401	0.1558	0.3211	-0.0967u
Zn 206.200	1.2075	2.9422	0.3025

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.9895	ppb	1.0139	102.5	-101.165
Al 308.215	4.6714	ppb	0.4148	8.9	270.370
As 188.980	-5.8379	ppb	4.9143	84.2	-1.0985
B 249.678	-26.1933	ppb	0.4334	1.7	118.457
Ba 389.178	0.1161	ppb	0.2101	181.0	-15.5484
Be 313.042	-0.0306	ppb	0.0036	11.9	-231.824
Ca 370.602	16.77	ppb	1.838	11.0	48.50
Cd 226.502	-0.0478	ppb	0.1804	377.3	11.3568
Co 228.615	-0.4185	ppb	0.2238	53.5	8.9419
Cr 267.716	0.0633	ppb	0.1218	192.2	12.0596
Cu 324.754	0.0133	ppb	0.4356	3267.4	108.395
Fe 271.441	27.5134	ppb	3.7901	13.8	48.5578
K 766.491	10.7222	ppb	0.3183	3.0	751.510
Mg 279.078	7.3337	ppb	3.7277	50.8	36.7364
Mn 257.610	0.4859	ppb	0.0400	8.2	181.955
Mo 202.032	-0.8222	ppb	0.4276	52.0	9.9689
Na 330.237	196.875	ppb	270.792	137.5	6.1665
Ni 231.604	0.4512	ppb	0.8064	178.7	2.0169
Pb 220.353	-0.5424	ppb	4.5551	839.8	1.6033
Sb 206.834	-4.1747	ppb	2.1214	50.8	-2.6852
Se 196.026	0.8032	ppb	2.1475	267.4	0.5357
Sn 189.925	9.2689	ppb	0.7649	8.3	7.8232
Sr 216.596	-0.2554	ppb	0.0694	27.2	8.0994
Ti 334.941	1.2339	ppb	0.2186	17.7	284.622
Tl 190.794	-2.5137	ppb	4.1098	163.5	-1.9191
V 292.401	0.1267	ppb	0.2104	166.0	-2.0440
Zn 206.200	1.4841	ppb	1.3414	90.4	5.0124

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ics 680-270845/2-a (Samp)      3/28/2013, 8:05:07 AM      Rack 3, Tube 56  
 Weight: 1      Volume: 1      Dilution: 1

Label	Replicates Concentration		
Ag 328.068	19.2528	20.9321	19.2061
Al 308.215	4938.21	4947.07	4938.26
As 188.980	96.9640	98.3943	96.1618
B 249.678	167.213	168.507	169.808
Ba 389.178	101.868	102.854	101.851
Be 313.042	51.1037	51.2185	51.1407
Ca 370.602	4898	4905	4902
Cd 226.502	51.6738	51.5790	51.1810
Co 228.615	52.1633	51.7993	51.8838
Cr 267.716	101.792	100.888	100.811
Cu 324.754	101.121	99.8274	99.7806
Fe 271.441	5043.29	5055.68	5047.05
K 766.491	4999.42	5029.39	5027.33
Mg 279.078	4978.31	4996.37	4972.76
Mn 257.610	518.923	519.822	518.211
Mo 202.032	98.7585	99.0148	100.420
Na 330.237	5129.29	4898.52	4989.66
Ni 231.604	101.697	101.300	99.2251
Pb 220.353	52.3366	50.4656	50.5101
Sb 206.834	47.8318	52.4081	40.8770
Se 196.026	104.257	86.9441	92.7147
Sn 189.925	212.470	217.034	215.151
Sr 216.596	101.537	101.346	100.627
Ti 334.941	100.918	101.098	101.047
Tl 190.794	38.7485	36.6161	38.6169
V 292.401	102.004	102.453	102.166
Zn 206.200	100.948	98.1446	99.6454

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	19.7970	ppb	0.9833	5.0	1350.11
Al 308.215	4941.18	ppb	5.1020	0.1	28545.6
As 188.980	97.1734	ppb	1.1309	1.2	54.7956
B 249.678	168.509	ppb	1.2978	0.8	1897.17
Ba 389.178	102.191	ppb	0.5746	0.6	2448.42
Be 313.042	51.1543	ppb	0.0586	0.1	98839.0
Ca 370.602	4902	ppb	3.400	0.1	15436
Cd 226.502	51.4779	ppb	0.2614	0.5	1857.29
Co 228.615	51.9488	ppb	0.1905	0.4	607.135
Cr 267.716	101.164	ppb	0.5456	0.5	4240.50
Cu 324.754	100.243	ppb	0.7610	0.8	4950.77
Fe 271.441	5048.67	ppb	6.3513	0.1	8472.89
K 766.491	5018.71	ppb	16.7426	0.3	246538
Mg 279.078	4982.48	ppb	12.3412	0.2	10161.4
Mn 257.610	518.985	ppb	0.8076	0.2	117796
Mo 202.032	99.3977	ppb	0.8944	0.9	656.605
Na 330.237	5005.82	ppb	116.229	2.3	247.388
Ni 231.604	100.741	ppb	1.3277	1.3	239.173
Pb 220.353	51.1041	ppb	1.0676	2.1	84.5163
Sb 206.834	47.0390	ppb	5.8063	12.3	46.4147
Se 196.026	94.6385	ppb	8.8152	9.3	43.6758
Sn 189.925	214.885	ppb	2.2937	1.1	163.313
Sr 216.596	101.170	ppb	0.4798	0.5	960.994
Ti 334.941	101.021	ppb	0.0926	0.1	25754.3
Tl 190.794	37.9938	ppb	1.1949	3.1	24.1696
V 292.401	102.208	ppb	0.2276	0.2	2781.40
Zn 206.200	99.5794	ppb	1.4029	1.4	153.590



E03272013.vvq. All Data Report 3/28/2013, 2:04:12 PM

ics 680-270845/3-a (Samp)      3/28/2013, 8:10:34 AM      Rack 3, Tube 57  
 Weight: 1      Volume: 1      Dilution: 1

Label	Replicates Concentration		
Ag 328.068	210.285	211.068	207.914
Al 308.215	2111.68	2115.02	2113.65
As 188.980	211.514	213.040	207.159
B 249.678	372.375	375.266	378.988
Ba 389.178	200.284	199.776	200.142
Be 313.042	204.242	204.694	204.322
Ca 370.602	19833	19833	19776
Cd 226.502	199.268	199.180	201.586
Co 228.615	199.728	201.247	202.381
Cr 267.716	200.630	200.447	199.727
Cu 324.754	203.673	204.410	202.204
Fe 271.441	20913.0	20948.2	20930.5
K 766.491	19877.4	20020.4	20034.8
Mg 279.078	20090.3	20051.3	20020.0
Mn 257.610	2069.39	2070.77	2069.38
Mo 202.032	197.819	198.936	199.900
Na 330.237	18065.8	17998.6	17943.5
Ni 231.604	201.639	200.723	201.765
Pb 220.353	198.639	198.521	196.710
Sb 206.834	185.216	189.639	188.343
Se 196.026	188.369	203.824	210.699
Sn 189.925	221.308	215.901	217.154
Sr 216.596	213.756	213.628	212.873
Ti 334.941	202.241	202.477	202.197
Tl 190.794	49.1870	55.4793	47.0558
V 292.401	204.073	203.474	203.329
Zn 206.200	190.546	190.856	185.626

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	209.756	ppb	1.6426	0.8	14629.2
Al 308.215	2113.45	ppb	1.6808	0.1	12367.0
As 188.980	210.571	ppb	3.0520	1.4	116.306
B 249.678	375.543	ppb	3.3148	0.9	3778.92
Ba 389.178	200.067	ppb	0.2623	0.1	4855.16
Be 313.042	204.419	ppb	0.2408	0.1	395528
Ca 370.602	19814	ppb	32.95	0.2	62324
Cd 226.502	200.011	ppb	1.3640	0.7	7181.78
Co 228.615	201.119	ppb	1.3307	0.7	2312.28
Cr 267.716	200.268	ppb	0.4774	0.2	8390.89
Cu 324.754	203.429	ppb	1.1230	0.6	9938.99
Fe 271.441	20930.6	ppb	17.5928	0.1	35114.6
K 766.491	19977.6	ppb	87.0212	0.4	980702
Mg 279.078	20053.8	ppb	35.1933	0.2	40837.9
Mn 257.610	2069.85	ppb	0.7997	0.0	469589
Mo 202.032	198.885	ppb	1.0416	0.5	1298.03
Na 330.237	18002.6	ppb	61.2480	0.3	901.228
Ni 231.604	201.376	ppb	0.5687	0.3	477.345
Pb 220.353	197.957	ppb	1.0814	0.5	320.918
Sb 206.834	187.732	ppb	2.2737	1.2	181.938
Se 196.026	200.964	ppb	11.4362	5.7	92.8065
Sn 189.925	218.121	ppb	2.8302	1.3	165.770
Sr 216.596	213.419	ppb	0.4774	0.2	2020.58
Ti 334.941	202.305	ppb	0.1504	0.1	51647.6
Tl 190.794	50.5740	ppb	4.3797	8.7	30.4916
V 292.401	203.626	ppb	0.3944	0.2	5546.76
Zn 206.200	189.009	ppb	2.9342	1.6	289.099

E03272013.wvq. All Data Report 3/28/2013, 2:04:12 PM

680-88580-a-30-b (Samp) 3/28/2013, 8:16:01 AM Rack 3, Tube 58

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-1.5872u	-1.3675u	-2.5094u
Al 308.215	31710.6	31764.6	31763.6
As 188.980	28.0476	26.3581	14.2755
B 249.678	3.2896u	1.6117u	1.4850u
Ba 389.178	890.939	889.761	891.667
Be 313.042	3.0496	3.0391	3.0480
Ca 370.602	65528	65531	65520
Cd 226.502	2.7020	2.2691	2.5552
Co 228.615	26.7037	26.3506	27.4750
Cr 267.716	62.6320	62.3803	62.6890
Cu 324.754	159.831	160.490	158.703
Fe 271.441	45024.9	45225.5	45281.6
K 766.491	2560.66	2564.74	2556.78
Mg 279.078	14067.6	14080.2	14115.4
Mn 257.610	2194.90	2204.00	2205.41
Mo 202.032	7.4028	8.4672	8.1652
Na 330.237	660.281	367.529u	629.975
Ni 231.604	34.0084	34.1027	35.3418
Pb 220.353	561.189	553.565	563.270
Sb 206.834	-2.8516u	4.2992	0.1076
Se 196.026	3.9928	10.5262	0.0802
Sn 189.925	33.9012	38.1521	32.0317
Sr 216.596	279.340	282.351	281.143
Ti 334.941	929.909	927.959	927.404
Tl 190.794	5.8695	5.7634	7.8176
V 292.401	108.449	108.403	108.569
Zn 206.200	554.528	555.230	555.596

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.8214	ppb	0.6059	33.3	-161.695
Al 308.215	31746.3	ppb	30.9092	0.1	182005
As 188.980	22.8937	ppb	7.5112	32.8	14.5822
B 249.678	2.1288	ppb	1.0073	47.3	336.641
Ba 389.178	890.789	ppb	0.9615	0.1	21400.6
Be 313.042	3.0456	ppb	0.0056	0.2	5741.97
Ca 370.602	65526	ppb	5.834	0.0	208022
Cd 226.502	2.5088	ppb	0.2201	8.8	207.250
Co 228.615	26.8431	ppb	0.5750	2.1	343.223
Cr 267.716	62.5671	ppb	0.1643	0.3	2643.45
Cu 324.754	159.675	ppb	0.9038	0.6	7829.18
Fe 271.441	45177.3	ppb	134.945	0.3	75725.2
K 766.491	2560.73	ppb	3.9830	0.2	125903
Mg 279.078	14087.7	ppb	24.7722	0.2	28679.9
Mn 257.610	2201.44	ppb	5.7037	0.3	499461
Mo 202.032	8.0118	ppb	0.5486	6.8	64.8050
Na 330.237	552.595	ppb	160.987	29.1	-0.3873
Ni 231.604	34.4843	ppb	0.7441	2.2	83.3167
Pb 220.353	559.341	ppb	5.1096	0.9	901.743
Sb 206.834	0.5184	ppb	3.5931	693.2	3.2892
Se 196.026	4.8664	ppb	5.2775	108.4	3.0243
Sn 189.925	34.6950	ppb	3.1364	9.0	27.0745
Sr 216.596	280.945	ppb	1.5152	0.5	2677.92
Ti 334.941	928.424	ppb	1.3152	0.1	236812
Tl 190.794	6.4835	ppb	1.1566	17.8	0.4058
V 292.401	108.474	ppb	0.0855	0.1	2987.31
Zn 206.200	555.118	ppb	0.5431	0.1	845.376

E03272013.wvq. All Data Report 3/28/2013, 2:04:12 PM

680-88580-a-31-b (Samp)      3/28/2013, 8:21:28 AM      Rack 3, Tube 59  
 Weight: 1      Volume: 1      Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-2.4682u	-2.4032u	-3.0346u
Al 308.215	63281.1	63356.1	63491.7
As 188.980	28.3604	29.8171	34.5819
B 249.678	-11.5896u	-11.4740u	-12.4266u
Ba 389.178	2412.09	2410.82	2411.53
Be 313.042	5.4652	5.4679	5.4756
Ca 370.602	29361	29416	29537
Cd 226.502	-0.1479	-0.3455	-0.3411
Co 228.615	45.2852	45.1817	45.8804
Cr 267.716	94.2783	94.4817	94.5472
Cu 324.754	646.353	651.972	652.292
Fe 271.441	73158.6	73149.3	73239.0
K 766.491	3232.20	3219.49	3207.92
Mg 279.078	9782.47	9807.94	9831.95
Mn 257.610	8860.27	8869.62	8867.71
Mo 202.032	3.7562	3.6565	3.3445
Na 330.237	230.642u	532.815u	326.451u
Ni 231.604	40.7745	41.8766	46.1716
Pb 220.353	894.337	899.899	902.122
Sb 206.834	-0.3344	0.4351	2.8317
Se 196.026	6.5072	-1.6244	-17.0904u
Sn 189.925	88.7077	92.4410	87.7381
Sr 216.596	301.647	304.270	302.932
Ti 334.941	1101.77	1102.45	1105.60
Tl 190.794	33.5607	34.4194	25.3937
V 292.401	156.745	156.287	156.427
Zn 206.200	396.967	397.369	399.514

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-2.6354	ppb	0.3473	13.2	-190.649
Al 308.215	63376.3	ppb	106.747	0.2	363101
As 188.980	30.9198	ppb	3.2541	10.5	18.4229
B 249.678	-11.8301	ppb	0.5198	4.4	183.204
Ba 389.178	2411.48	ppb	0.6354	0.0	57816.5
Be 313.042	5.4696	ppb	0.0054	0.1	10421.0
Ca 370.602	29438	ppb	89.94	0.3	89443
Cd 226.502	-0.2782	ppb	0.1129	40.6	172.982
Co 228.615	45.4491	ppb	0.3771	0.8	559.799
Cr 267.716	94.4358	ppb	0.1402	0.1	4006.68
Cu 324.754	650.206	ppb	3.3405	0.5	31520.2
Fe 271.441	73182.3	ppb	49.3236	0.1	122665
K 766.491	3219.87	ppb	12.1417	0.4	158253
Mg 279.078	9807.46	ppb	24.7419	0.3	19854.7
Mn 257.610	8865.87	ppb	4.9403	0.1	2010714
Mo 202.032	3.5857	ppb	0.2148	6.0	34.8989
Na 330.237	363.303	ppb	154.421	42.5	-18.4680
Ni 231.604	42.9409	ppb	2.8516	6.6	103.840
Pb 220.353	898.786	ppb	4.0101	0.4	1448.59
Sb 206.834	0.9775	ppb	1.6513	168.9	4.7264
Se 196.026	-4.0692	ppb	11.9873	294.6	0.5303
Sn 189.925	89.6289	ppb	2.4831	2.8	68.6011
Sr 216.596	302.949	ppb	1.3116	0.4	2892.04
Ti 334.941	1103.28	ppb	2.0417	0.2	281391
Tl 190.794	31.1246	ppb	4.9816	16.0	9.3035
V 292.401	156.486	ppb	0.2349	0.2	4309.33
Zn 206.200	397.950	ppb	1.3693	0.3	606.506

E03272013.wvq. All Data Report 3/28/2013, 2:04:12 PM

680-88580-a-32-b (Samp)      3/28/2013, 8:26:55 AM      Rack 3, Tube 60  
 Weight: 1      Volume: 1      Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.1390u	-0.3227u	0.0382
Al 308.215	86524.8	87318.0	87416.1
As 188.980	1.7624	10.6833	4.4490
B 249.678	-15.6800u	-16.2282u	-15.9917u
Ba 389.178	343.955	346.266	348.457
Be 313.042	1.3689	1.3882	1.4006
Ca 370.602	2734	2739	2732
Cd 226.502	-0.5231	-0.7195	-0.9437
Co 228.615	4.9763	5.3377	4.9497
Cr 267.716	103.629	104.955	105.035
Cu 324.754	39.9139	41.9116	40.3418
Fe 271.441	75929.0	76554.0	76533.1
K 766.491	3022.05	3037.06	3034.98
Mg 279.078	6483.92	6564.51	6569.60
Mn 257.610	278.999	281.865	282.177
Mo 202.032	2.5141	2.4976	3.3585
Na 330.237	189.114u	-5.9973u	609.720
Ni 231.604	20.3080	21.8489	23.5137
Pb 220.353	42.8997	46.3633	43.3615
Sb 206.834	-3.7410u	-2.0832	-4.8611u
Se 196.026	6.7104	0.6011	2.7638
Sn 189.925	16.6806	17.2554	15.1735
Sr 216.596	38.0666	40.0220	39.9755
Ti 334.941	867.943	879.437	881.254
Tl 190.794	9.3019	3.7159u	2.2042u
V 292.401	209.685	211.787	211.691
Zn 206.200	114.810	116.735	117.563

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1412	ppb	0.1805	127.8	-41.0886
Al 308.215	87086.3	ppb	488.743	0.6	498851
As 188.980	5.6315	ppb	4.5765	81.3	4.4659
B 249.678	-15.9666	ppb	0.2749	1.7	142.399
Ba 389.178	346.226	ppb	2.2513	0.7	8395.99
Be 313.042	1.3859	ppb	0.0160	1.2	2509.69
Ca 370.602	2735	ppb	3.236	0.1	2698
Cd 226.502	-0.7288	ppb	0.2104	28.9	164.300
Co 228.615	5.0879	ppb	0.2168	4.3	92.2007
Cr 267.716	104.540	ppb	0.7900	0.8	4396.84
Cu 324.754	40.7224	ppb	1.0518	2.6	2093.77
Fe 271.441	76338.7	ppb	354.958	0.5	127949
K 766.491	3031.36	ppb	8.1339	0.3	149001
Mg 279.078	6539.34	ppb	48.0684	0.7	13324.8
Mn 257.610	281.014	ppb	1.7518	0.6	64034.3
Mo 202.032	2.7901	ppb	0.4924	17.6	29.5281
Na 330.237	264.279	ppb	314.666	119.1	-20.5827
Ni 231.604	21.8902	ppb	1.6033	7.3	54.1483
Pb 220.353	44.2082	ppb	1.8806	4.3	71.6531
Sb 206.834	-3.5618	ppb	1.3976	39.2	0.5144
Se 196.026	3.3584	ppb	3.0977	92.2	1.9785
Sn 189.925	16.3698	ppb	1.0752	6.6	13.1923
Sr 216.596	39.3547	ppb	1.1158	2.8	408.362
Ti 334.941	876.211	ppb	7.2177	0.8	223470
Tl 190.794	5.0740	ppb	3.7387	73.7	0.3014
V 292.401	211.054	ppb	1.1867	0.6	5805.88
Zn 206.200	116.369	ppb	1.4120	1.2	5179.009

E03272013.vvq. All Data Report 3/28/2013, 2:04:12 PM

Cont Calib Verif (CCV) 3/28/2013, 8:32:23 AM Rack 4, Tube 1  
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	498.918	508.394	504.789
Al 308.215	4993.34	4972.94	5002.22
As 188.980	486.415	473.284	481.811
B 249.678	2500.83	2513.24	2541.73
Ba 389.178	4925.01	4902.43	4932.23
Be 313.042	488.179	486.957	489.886
Ca 370.602	4916	4896	4938
Cd 226.502	494.615	492.481	493.925
Co 228.615	498.765	493.795	497.243
Cr 267.716	4873.87	4868.72	4903.69
Cu 324.754	4949.75	4925.17	4882.83
Fe 271.441	4971.60	4942.62	4963.43
K 766.491	10008.8	9954.68	10014.6
Mg 279.078	4912.25	4888.90	4930.31
Mn 257.610	4975.38	4954.35	4993.97
Mo 202.032	483.031	483.896	485.699
Na 330.237	7615.94	7305.69	7367.07
Ni 231.604	2468.22	2457.41	2469.31
Pb 220.353	486.000	490.451	487.829
Sb 206.834	909.029	904.038	916.189
Se 196.026	4805.92	4803.65	4828.46
Sn 189.925	4957.99	5007.21	5005.66
Sr 216.596	2425.71	2430.76	2441.62
Ti 334.941	490.499	490.401	493.371
Tl 190.794	4888.04	4941.48	4952.01
V 292.401	4928.11	4905.90	4939.07
Zn 206.200	2467.58	2468.55	2482.68

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	504.034	ppb	4.7828	0.9	35142.6	100.80672
Al 308.215	4989.50	ppb	15.0115	0.3	28787.6	99.78994
As 188.980	480.503	ppb	6.6627	1.4	262.821	96.10066
B 249.678	2518.60	ppb	20.9718	0.8	23422.0	100.74408
Ba 389.178	4919.89	ppb	15.5477	0.3	117737	98.39785
Be 313.042	488.341	ppb	1.4711	0.3	944951	97.66816
Ca 370.602	4917	ppb	21.07	0.4	15735	98.33858
Cd 226.502	493.674	ppb	1.0889	0.2	17598.5	98.73471
Co 228.615	496.601	ppb	2.5465	0.5	5702.02	99.32018
Cr 267.716	4882.09	ppb	18.8788	0.4	204078	97.64189
Cu 324.754	4919.25	ppb	33.8461	0.7	237584	98.38497
Fe 271.441	4959.22	ppb	14.9399	0.3	8434.50	99.18430
K 766.491	9992.69	ppb	33.0442	0.3	490656	99.92693
Mg 279.078	4910.49	ppb	20.7640	0.4	9945.85	98.20972
Mn 257.610	4974.57	ppb	19.8225	0.4	1128127	99.49136
Mo 202.032	484.209	ppb	1.3611	0.3	3132.89	96.84175
Na 330.237	7429.56	ppb	164.294	2.2	350.074	99.06087
Ni 231.604	2464.98	ppb	6.5769	0.3	5827.66	98.59923
Pb 220.353	488.093	ppb	2.2371	0.5	787.635	97.61861
Sb 206.834	909.752	ppb	6.1080	0.7	914.759	90.97520
Se 196.026	4812.68	ppb	13.7152	0.3	2207.12	96.25352
Sn 189.925	4990.29	ppb	27.9814	0.6	3774.47	99.80573
Sr 216.596	2432.70	ppb	8.1293	0.3	22873.9	97.30780
Ti 334.941	491.424	ppb	1.6870	0.3	125319	98.28472
Tl 190.794	4927.18	ppb	34.3012	0.7	3248.74	98.54350
V 292.401	4924.36	ppb	16.8963	0.3	135052	98.48723
Zn 206.200	2472.93	ppb	8.4543	0.3	3740.42	98.91737

E03272013.vvq. All Data Report 3/28/2013, 2:04:12 PM

Cont Calib Blank (CCB)                      3/28/2013, 8:37:50 AM                      Rack 4, Tube 2  
 Weight: 1    Volume: 1    Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.1372	-1.8825u	-1.4407u
Al 308.215	-1.3157u	0.0864	1.5534
As 188.980	2.4091	-0.2374u	-1.6345u
B 249.678	29.9225	25.3913	19.5109
Ba 389.178	-0.7741u	0.7433	-0.3249u
Be 313.042	-0.0224u	-0.0270u	-0.0224u
Ca 370.602	2.720	-2.381u	-0.9450u
Cd 226.502	-0.1119u	-0.1377u	-0.1452u
Co 228.615	-0.6055u	0.2814	0.3353
Cr 267.716	-0.2024u	-0.2306u	-0.0080u
Cu 324.754	-0.3599u	-0.3005u	-1.2430u
Fe 271.441	6.1932	1.0312	0.8195
K 766.491	-0.8689u	-0.4525u	-0.5932u
Mg 279.078	1.3696	-1.5641u	-1.3942u
Mn 257.610	-0.0812u	-0.1010u	-0.1137u
Mo 202.032	0.1065	0.3458	-0.5686u
Na 330.237	176.803	131.196	110.254
Ni 231.604	-0.1779u	0.3545	0.2515
Pb 220.353	-0.9888u	-1.6955u	-0.9045u
Sb 206.834	4.8877	0.3070	7.8946
Se 196.026	-9.8266u	2.6765	1.3930
Sn 189.925	-2.8798u	-0.7367u	-0.9699u
Sr 216.596	0.4694	-0.0490u	-1.0020u
Ti 334.941	0.0275	-0.0143u	0.0091
Tl 190.794	0.1118	-0.9881u	1.8241
V 292.401	0.0111	-0.1784u	0.3347
Zn 206.200	-0.7832u	-1.5816u	-0.0038u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	-1.0620	ppb	1.0618	100.0	-106.243	-1.06202
Al 308.215	0.1080	ppb	1.4347	1328.2	244.311	0.10802
As 188.980	0.1791	ppb	2.0537	1146.8	2.1682	0.17908
B 249.678	24.9416	ppb	5.2204	20.9	586.829	24.94157
Ba 389.178	-0.1186	ppb	0.7794	657.3	-21.2130	-0.11858
Be 313.042	-0.0239	ppb	0.0027	11.2	-218.973	-0.02394
Ca 370.602	-0.2019	ppb	2.630	1302.7	-4.590	-0.20191
Cd 226.502	-0.1316	ppb	0.0174	13.3	8.3198	-0.13160
Co 228.615	0.0037	ppb	0.5283	14137.7	13.7308	0.00374
Cr 267.716	-0.1470	ppb	0.1212	82.5	3.2590	-0.14698
Cu 324.754	-0.6345	ppb	0.5278	83.2	77.1242	-0.63449
Fe 271.441	2.6813	ppb	3.0432	113.5	7.0199	2.68133
K 766.491	-0.6382	ppb	0.2118	33.2	193.951	-0.63822
Mg 279.078	-0.5296	ppb	1.6469	311.0	20.7272	-0.52959
Mn 257.610	-0.0986	ppb	0.0164	16.6	49.3097	-0.09862
Mo 202.032	-0.0388	ppb	0.4742	1223.4	15.0283	-0.03876
Na 330.237	139.417	ppb	34.0279	24.4	3.2811	139.41739
Ni 231.604	0.1427	ppb	0.2824	197.9	1.2872	0.14267
Pb 220.353	-1.1962	ppb	0.4344	36.3	0.5512	-1.19624
Sb 206.834	4.3631	ppb	3.8209	87.6	5.4566	4.36310
Se 196.026	-1.9190	ppb	6.8782	358.4	-0.7122	-1.91902
Sn 189.925	-1.5288	ppb	1.1758	76.9	-0.3421	-1.52880
Sr 216.596	-0.1939	ppb	0.7463	384.9	8.6848	-0.19387
Ti 334.941	0.0074	ppb	0.0209	282.2	-28.1978	0.00742
Tl 190.794	0.3159	ppb	1.4171	448.5	-0.0499	0.31594
V 292.401	0.0558	ppb	0.2594	465.1	-4.0941	0.05578
Zn 206.200	-0.7896	ppb	0.7889	99.8	-1.5634	-0.78957

E03272013.vvq. All Data Report 3/28/2013, 2:04:12 PM

**680-88580-a-33-b (Samp)**                      **3/28/2013, 8:43:18 AM**                      **Rack 4, Tube 3**  
**Weight: 1**    **Volume: 1**    **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.6444u	-1.5433u	-1.7684u
Al 308.215	124139	123313	123510
As 188.980	44.1550	37.1511	35.7674
B 249.678	20.5444	19.3546	19.0404
Ba 389.178	1069.26	1066.60	1068.68
Be 313.042	7.2095	7.1628	7.2008
Ca 370.602	167228	166429	166925
Cd 226.502	5.3554	5.1290	5.1854
Co 228.615	40.5091	39.9556	39.5207
Cr 267.716	248.355	246.710	247.333
Cu 324.754	193.644	193.683	196.111
Fe 271.441	114145	113760	114005
K 766.491	11480.4	11423.0	11460.9
Mg 279.078	17976.4	17902.2	17946.7
Mn 257.610	3654.85	3640.14	3648.47
Mo 202.032	5.0809	5.3973	5.0784
Na 330.237	1441.44	1564.28	1321.02
Ni 231.604	54.2421	53.9467	54.7682
Pb 220.353	1364.06	1364.51	1363.96
Sb 206.834	4.6470	11.1518	4.8709
Se 196.026	10.9395	-1.5111	-0.3103
Sn 189.925	58.1239	63.8363	62.8616
Sr 216.596	496.345	493.187	493.266
Ti 334.941	2102.31	2095.23	2099.21
Tl 190.794	16.9719	17.2438	7.5920u
V 292.401	203.531	202.829	203.184
Zn 206.200	1525.65	1529.58	1522.38

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.3187	ppb	0.5947	45.1	-129.061
Al 308.215	123654	ppb	431.604	0.3	708217
As 188.980	39.0245	ppb	4.4967	11.5	23.4741
B 249.678	19.6465	ppb	0.7933	4.0	434.281
Ba 389.178	1068.18	ppb	1.4012	0.1	25756.4
Be 313.042	7.1910	ppb	0.0248	0.3	13806.7
Ca 370.602	166861	ppb	403.4	0.2	529706
Cd 226.502	5.2233	ppb	0.1178	2.3	463.488
Co 228.615	39.9951	ppb	0.4954	1.2	522.122
Cr 267.716	247.466	ppb	0.8304	0.3	10394.5
Cu 324.754	194.479	ppb	1.4132	0.7	9528.28
Fe 271.441	113970	ppb	194.963	0.2	191026
K 766.491	11454.8	ppb	29.1972	0.3	562412
Mg 279.078	17941.8	ppb	37.3326	0.2	36492.9
Mn 257.610	3647.82	ppb	7.3746	0.2	827645
Mo 202.032	5.1856	ppb	0.1834	3.5	43.3295
Na 330.237	1442.24	ppb	121.632	8.4	8.3188
Ni 231.604	54.3190	ppb	0.4161	0.8	131.517
Pb 220.353	1364.18	ppb	0.2930	0.0	2194.64
Sb 206.834	6.8899	ppb	3.6926	53.6	12.6941
Se 196.026	3.0394	ppb	6.8680	226.0	2.7050
Sn 189.925	61.6073	ppb	3.0558	5.0	47.4628
Sr 216.596	494.266	ppb	1.8011	0.4	4720.60
Ti 334.941	2098.92	ppb	3.5522	0.2	535352
Tl 190.794	13.9359	ppb	5.4956	39.4	1.6329
V 292.401	203.181	ppb	0.3512	0.2	5599.29
Zn 206.200	1525.87	ppb	3.6937	0.2	2218.55

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680-88580-a-34-b (Samp)      3/28/2013, 8:48:57 AM      Rack 4, Tube 4  
 Weight: 1      Volume: 1      Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.7576u	-1.4747u	-0.9944u
Al 308.215	79493.6	80100.6	79778.9
As 188.980	15.4788	8.5816	8.7562
B 249.678	-26.4985u	-27.3447u	-27.3092u
Ba 389.178	148.368	149.063	148.314
Be 313.042	1.2250	1.2328	1.2315
Ca 370.602	3459u	3486u	3468u
Cd 226.502	-2.1991	-2.0968	-1.4729
Co 228.615	4.9692	4.2513	5.1517
Cr 267.716	155.823	156.120	155.485
Cu 324.754	60.6745	63.0249	61.5998
Fe 271.441	155600	156755	156029
K 766.491	2289.77	2311.35	2306.44
Mg 279.078	1339.05	1347.86	1342.40
Mn 257.610	400.704	403.356	401.375
Mo 202.032	4.6489	3.6423	2.9678
Na 330.237	261.234u	14.7874u	192.376u
Ni 231.604	17.0762	17.6971	16.6106
Pb 220.353	63.7589	59.4147	62.7767
Sb 206.834	-3.8241	1.7143	5.3938
Se 196.026	7.1239	7.7108	-7.9344u
Sn 189.925	18.8410	18.7691	19.2668
Sr 216.596	74.2950	73.5544	73.8705
Ti 334.941	1586.27	1596.87	1592.56
Tl 190.794	8.4162	0.5097u	1.8091u
V 292.401	417.839	422.172	419.847
Zn 206.200	68.9884	69.0605	66.1922

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.0755	ppb	0.3654	34.0	-106.449
Al 308.215	79791.0	ppb	303.683	0.4	457078
As 188.980	10.9389	ppb	3.9327	36.0	6.6407
B 249.678	-27.0508	ppb	0.4786	1.8	-31.9587
Ba 389.178	148.582	ppb	0.4180	0.3	3770.10
Be 313.042	1.2298	ppb	0.0042	0.3	2198.13
Ca 370.602	3471	ppb	13.74	0.4	-1366
Cd 226.502	-1.9229	ppb	0.3930	20.4	306.715
Co 228.615	4.7907	ppb	0.4760	9.9	104.759
Cr 267.716	155.809	ppb	0.3175	0.2	6556.36
Cu 324.754	61.7664	ppb	1.1840	1.9	3130.60
Fe 271.441	156128	ppb	583.816	0.4	261679
K 766.491	2302.52	ppb	11.3109	0.5	113230
Mg 279.078	1343.10	ppb	4.4433	0.3	2755.43
Mn 257.610	401.812	ppb	1.3785	0.3	91611.8
Mo 202.032	3.7530	ppb	0.8460	22.5	31.8342
Na 330.237	156.132	ppb	127.158	81.4	-54.8244
Ni 231.604	17.1280	ppb	0.5451	3.2	44.3780
Pb 220.353	61.9834	ppb	2.2782	3.7	100.028
Sb 206.834	1.0947	ppb	4.6401	423.9	7.1746
Se 196.026	2.3001	ppb	8.8682	385.6	1.7378
Sn 189.925	18.9589	ppb	0.2690	1.4	15.1488
Sr 216.596	73.9067	ppb	0.3716	0.5	762.488
Ti 334.941	1591.90	ppb	5.3294	0.3	405980
Tl 190.794	3.5783	ppb	4.2398	118.5	-3.4364
V 292.401	419.953	ppb	2.1683	0.5	11559.9
Zn 206.200	68.0803	ppb	1.6356	2.4	105.560



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**680-88580-a-35-b (Samp)**                      **3/28/2013, 8:54:26 AM**                      **Rack 4, Tube 5**  
**Weight: 1**    **Volume: 1**    **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-1.3967u	-1.3648u	-2.5907u
Al 308.215	81512.3	81748.0	81376.7
As 188.980	24.7597	24.0083	25.6981
B 249.678	-29.5322u	-28.8561u	-28.9204u
Ba 389.178	177.943	179.106	176.636
Be 313.042	1.6714	1.6855	1.6529
Ca 370.602	3520u	3518u	3555u
Cd 226.502	-1.7311	-1.6753	-1.7605
Co 228.615	10.8180	11.2641	10.5092
Cr 267.716	138.353	138.347	136.820
Cu 324.754	54.1769	55.4812	52.7583
Fe 271.441	146791	147427	146579
K 766.491	2144.61	2153.94	2139.81
Mg 279.078	1199.38	1193.40	1185.02
Mn 257.610	1065.03	1067.64	1061.65
Mo 202.032	4.4642	4.0947	4.5299
Na 330.237	81.1727u	197.650u	338.496u
Ni 231.604	24.6723	24.7856	25.1176
Pb 220.353	68.3111	69.6553	67.9572
Sb 206.834	1.5302	3.3213	-1.7411
Se 196.026	-2.7718u	-0.3394	6.5925
Sn 189.925	16.4788	16.6155	18.5123
Sr 216.596	68.4207	68.1549	66.8678
Ti 334.941	1316.96	1319.41	1303.18
Tl 190.794	6.3293u	12.6969	11.5731
V 292.401	387.669	389.888	387.568
Zn 206.200	99.2302	95.4011	97.4050

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.7840	ppb	0.6988	39.2	-153.002
Al 308.215	81545.7	ppb	187.916	0.2	467125
As 188.980	24.8220	ppb	0.8466	3.4	14.2600
B 249.678	-29.1029	ppb	0.3731	1.3	-42.4072
Ba 389.178	177.895	ppb	1.2356	0.7	4457.62
Be 313.042	1.6699	ppb	0.0163	1.0	3051.42
Ca 370.602	3531	ppb	20.79	0.6	-451.0
Cd 226.502	-1.7223	ppb	0.0432	2.5	292.655
Co 228.615	10.8637	ppb	0.3795	3.5	167.293
Cr 267.716	137.840	ppb	0.8834	0.6	5805.62
Cu 324.754	54.1388	ppb	1.3618	2.5	2760.04
Fe 271.441	146932	ppb	440.972	0.3	246267
K 766.491	2146.12	ppb	7.1845	0.3	105554
Mg 279.078	1192.60	ppb	7.2108	0.6	2436.55
Mn 257.610	1064.77	ppb	3.0026	0.3	241917
Mo 202.032	4.3629	ppb	0.2346	5.4	36.2330
Na 330.237	205.773	ppb	128.854	62.6	-47.6846
Ni 231.604	24.8585	ppb	0.2314	0.9	62.4811
Pb 220.353	68.6412	ppb	0.8959	1.3	110.990
Sb 206.834	1.0368	ppb	2.5670	247.6	6.7447
Se 196.026	1.1604	ppb	4.8590	418.7	1.3424
Sn 189.925	17.2022	ppb	1.1366	6.6	13.8206
Sr 216.596	67.8145	ppb	0.8306	1.2	701.712
Ti 334.941	1313.18	ppb	8.7475	0.7	334897
Tl 190.794	10.1998	ppb	3.3987	33.3	0.5941
V 292.401	388.375	ppb	1.3113	0.3	10687.9
Zn 206.200	97.3454	ppb	1.9153	2.0	159.022

680-88580-a-37-b (Samp) 3/28/2013, 8:59:54 AM Rack 4, Tube 6  
Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-1.6516u	-1.5558u	-1.8594u
Al 308.215	47799.3	47625.2	47870.8
As 188.980	28.1751	26.6993	22.6233
B 249.678	-14.5343u	-15.0130u	-14.2593u
Ba 389.178	1719.63	1714.64	1720.38
Be 313.042	4.2185	4.2153	4.2074
Ca 370.602	50530	50348	50406
Cd 226.502	1.2628	1.2049	1.4605
Co 228.615	35.1600	35.1836	35.7757
Cr 267.716	99.9911	98.6091	99.1702
Cu 324.754	909.064	889.128	889.342
Fe 271.441	58680.2	58595.8	58831.8
K 766.491	2843.26	2837.71	2842.80
Mg 279.078	13447.1	13428.4	13480.8
Mn 257.610	6486.57	6478.77	6514.07
Mo 202.032	3.8820	5.0299	3.6967
Na 330.237	409.856u	667.685	422.044u
Ni 231.604	42.0577	42.8036	42.2195
Pb 220.353	959.741	953.972	963.084
Sb 206.834	1.8955	0.2124	-0.6075
Se 196.026	2.5421	-3.7994u	0.4364
Sn 189.925	103.364	98.5721	102.396
Sr 216.596	213.802	212.086	212.327
Ti 334.941	993.356	987.295	988.267
Tl 190.794	20.4071	24.0330	25.5733
V 292.401	134.070	133.589	133.406
Zn 206.200	572.812	567.487	569.396

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.6889	ppb	0.1552	9.2	-131.068
Al 308.215	47765.1	ppb	126.305	0.3	273720
As 188.980	25.8326	ppb	2.8756	11.1	15.9466
B 249.678	-14.6022	ppb	0.3814	2.6	171.028
Ba 389.178	1718.22	ppb	3.1220	0.2	41217.0
Be 313.042	4.2138	ppb	0.0057	0.1	7997.64
Ca 370.602	50428	ppb	93.01	0.2	158303
Cd 226.502	1.3094	ppb	0.1340	10.2	195.976
Co 228.615	35.3731	ppb	0.3488	1.0	442.141
Cr 267.716	99.2568	ppb	0.6951	0.7	4196.18
Cu 324.754	895.845	ppb	11.4486	1.3	43376.2
Fe 271.441	58702.6	ppb	119.592	0.2	98395.1
K 766.491	2841.25	ppb	3.0792	0.1	139671
Mg 279.078	13452.1	ppb	26.5634	0.2	27316.7
Mn 257.610	6493.13	ppb	18.5429	0.3	1472663
Mo 202.032	4.2029	ppb	0.7222	17.2	39.5674
Na 330.237	499.862	ppb	145.467	29.1	-7.6645
Ni 231.604	42.3603	ppb	0.3924	0.9	102.192
Pb 220.353	958.933	ppb	4.6095	0.5	1545.19
Sb 206.834	0.5001	ppb	1.2761	255.1	3.9860
Se 196.026	-0.2736	ppb	3.2298	1180.4	1.6871
Sn 189.925	101.444	ppb	2.5338	2.5	77.5441
Sr 216.596	212.738	ppb	0.9290	0.4	2039.01
Ti 334.941	989.639	ppb	3.2554	0.3	252423
Tl 190.794	23.3378	ppb	2.6523	11.4	6.9382
V 292.401	133.688	ppb	0.3432	0.3	3680.20
Zn 206.200	569.899	ppb	2.6978	0.5	567.568

E03272013.wvq. All Data Report 3/28/2013, 2:04:12 PM

680-88580-a-49-d (Samp)      3/28/2013, 9:05:22 AM      Rack 4, Tube 7  
 Weight: 1      Volume: 1      Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.7799u	-1.9705u	-2.1696u
Al 308.215	73876.8	73948.2	73964.7
As 188.980	465.339	457.877	455.677
B 249.678	-16.8170u	-17.6269u	-17.6440u
Ba 389.178	987.661	987.818	991.083
Be 313.042	4.3643	4.3543	4.3575
Ca 370.602	27202	27162	27214
Cd 226.502	0.0422	0.0858	-0.0526
Co 228.615	39.8946	39.6069	39.8343
Cr 267.716	92.5742	92.4255	92.9816
Cu 324.754	282.966	284.182	282.576
Fe 271.441	118169	118414	118366
K 766.491	4228.93	4226.11	4202.15
Mg 279.078	3739.48	3737.37	3755.69
Mn 257.610	4419.51	4425.05	4431.56
Mo 202.032	10.9987	10.4310	10.1649
Na 330.237	543.901u	284.914u	452.167u
Ni 231.604	61.7951	61.5792	65.3248
Pb 220.353	1392.30	1384.26	1392.43
Sb 206.834	8.5918	8.3893	5.8703
Se 196.026	-5.8181u	9.2014	2.6871
Sn 189.925	322.666	324.978	316.786
Sr 216.596	359.201	358.759	359.786
Ti 334.941	1511.56	1505.51	1508.36
Tl 190.794	14.5875	19.9413	22.9478
V 292.401	207.717	207.916	206.968
Zn 206.200	481.583	485.118	485.096

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.6400	ppb	0.7515	45.8	-142.206
Al 308.215	73929.9	ppb	46.7085	0.1	423525
As 188.980	459.631	ppb	5.0642	1.1	250.754
B 249.678	-17.3626	ppb	0.4726	2.7	91.2756
Ba 389.178	988.854	ppb	1.9323	0.2	23826.4
Be 313.042	4.3587	ppb	0.0051	0.1	8268.71
Ca 370.602	27192	ppb	27.04	0.1	78418
Cd 226.502	0.0251	ppb	0.0707	281.7	288.496
Co 228.615	39.7786	ppb	0.1518	0.4	503.457
Cr 267.716	92.6604	ppb	0.2879	0.3	3925.40
Cu 324.754	283.241	ppb	0.8376	0.3	13815.2
Fe 271.441	118316	ppb	129.856	0.1	198309
K 766.491	4219.06	ppb	14.7154	0.3	207292
Mg 279.078	3744.18	ppb	10.0265	0.3	7578.78
Mn 257.610	4425.37	ppb	6.0272	0.1	1003892
Mo 202.032	10.5315	ppb	0.4259	4.0	77.6399
Na 330.237	426.994	ppb	131.316	30.8	-32.3373
Ni 231.604	62.8997	ppb	2.1030	3.3	151.864
Pb 220.353	1389.66	ppb	4.6820	0.3	2236.99
Sb 206.834	7.6171	ppb	1.5162	19.9	11.9832
Se 196.026	2.0235	ppb	7.5317	372.2	2.4289
Sn 189.925	321.477	ppb	4.2238	1.3	243.923
Sr 216.596	359.249	ppb	0.5152	0.1	3437.79
Ti 334.941	1508.48	ppb	3.0248	0.2	384711
Tl 190.794	19.1589	ppb	4.2347	22.1	4.1805
V 292.401	207.534	ppb	0.5001	0.2	5718.49
Zn 206.200	483.932	ppb	2.0349	0.4	726.939

E03272013.wvq. All Data Report 3/28/2013, 2:04:12 PM

680-88580-a-49-dSD^5 (Samp) 3/28/2013, 9:11:01 AM Rack 4, Tube 8  
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.8481u	-0.5644u	0.1890
Al 308.215	14967.0	15035.2	15063.9
As 188.980	92.6227	92.4246	93.1169
B 249.678	-30.3369u	-29.6124u	-30.0998u
Ba 389.178	207.019	208.002	208.602
Be 313.042	0.8627	0.8719	0.8705
Ca 370.602	5715	5740	5755
Cd 226.502	-0.1535	-0.0973	-0.1192
Co 228.615	7.8312	8.2929	9.2285
Cr 267.716	18.7661	19.2409	19.1310
Cu 324.754	57.7028	57.4753	59.1383
Fe 271.441	24793.5	24906.1	24855.9
K 766.491	846.341	847.699	846.412
Mg 279.078	791.205	801.059	799.013
Mn 257.610	947.591	951.836	952.229
Mo 202.032	1.4191	1.8351	1.7110
Na 330.237	315.821	172.496u	263.673
Ni 231.604	11.7574	12.8860	13.3148
Pb 220.353	284.857	290.545	292.531
Sb 206.834	3.5338	-0.9906u	1.0053
Se 196.026	-2.0012u	1.9517	1.1619
Sn 189.925	63.4045	67.9762	66.5162
Sr 216.596	75.3498	75.8433	75.7011
Ti 334.941	313.182	314.105	314.542
Tl 190.794	6.1418	4.0153	6.2335
V 292.401	43.8970	43.2960	44.4854
Zn 206.200	101.035	104.173	103.113

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.4078	ppb	0.5360	131.4	-59.4554
Al 308.215	15022.1	ppb	49.7586	0.3	86251.6
As 188.980	92.7214	ppb	0.3566	0.4	52.2307
B 249.678	-30.0164	ppb	0.3694	1.2	60.7386
Ba 389.178	207.875	ppb	0.7992	0.4	4994.25
Be 313.042	0.8684	ppb	0.0050	0.6	1509.10
Ca 370.602	5737	ppb	20.09	0.4	16548
Cd 226.502	-0.1233	ppb	0.0283	23.0	66.3474
Co 228.615	8.4509	ppb	0.7119	8.4	117.552
Cr 267.716	19.0460	ppb	0.2485	1.3	814.584
Cu 324.754	58.1055	ppb	0.9017	1.6	2919.93
Fe 271.441	24851.9	ppb	56.4279	0.2	41656.1
K 766.491	846.817	ppb	0.7647	0.1	41786.2
Mg 279.078	797.092	ppb	5.2004	0.7	1630.62
Mn 257.610	950.552	ppb	2.5716	0.3	215687
Mo 202.032	1.6551	ppb	0.2135	12.9	24.7795
Na 330.237	250.663	ppb	72.5428	28.9	-1.6057
Ni 231.604	12.6527	ppb	0.8045	6.4	31.3276
Pb 220.353	289.311	ppb	3.9830	1.4	467.689
Sb 206.834	1.1828	ppb	2.2674	191.7	3.1355
Se 196.026	0.3708	ppb	2.0918	564.1	0.6225
Sn 189.925	65.9656	ppb	2.3350	3.5	50.6989
Sr 216.596	75.6314	ppb	0.2540	0.3	732.028
Ti 334.941	313.943	ppb	0.6944	0.2	80041.9
Tl 190.794	5.4635	ppb	1.2550	23.0	1.6028
V 292.401	43.8928	ppb	0.5947	1.4	1204.96
Zn 206.200	102.774	ppb	1.5961	1.6	158.681

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**680-88580-a-49-dPDS (Samp) 3/28/2013, 9:16:30 AM Rack 4, Tube 9****Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	51.1813	51.5756	51.0072
Al 308.215	74519.9	74541.2	74604.6
As 188.980	2714.58	2733.97	2727.21
B 249.678	1087.79	1098.94	1102.81
Ba 389.178	3092.54	3096.78	3096.56
Be 313.042	57.6868	57.7612	57.8263
Ca 370.602	31883	31918	31917
Cd 226.502	53.0715	53.4623	52.9890
Co 228.615	572.394	578.986	581.566
Cr 267.716	302.194	302.363	302.329
Cu 324.754	543.683	546.305	544.043
Fe 271.441	116472	116305	116371
K 766.491	10017.4	9630.35	9997.79
Mg 279.078	9063.04	9074.72	9059.32
Mn 257.610	4855.85	4856.17	4853.67
Mo 202.032	546.585	548.442	550.579
Na 330.237	5655.92	5716.79	5424.00
Ni 231.604	588.263	593.573	589.471
Pb 220.353	1872.44	1886.60	1869.69
Sb 206.834	532.858	526.769	531.909
Se 196.026	2136.78	2140.68	2133.25
Sn 189.925	1398.29	1401.45	1411.63
Sr 216.596	884.828	888.842	890.773
Ti 334.941	2483.08	2495.77	2493.14
Tl 190.794	2168.63	2189.59	2183.07
V 292.401	738.431	737.416	738.363
Zn 206.200	998.773	997.500	1001.38

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	51.2547	ppb	0.2912	0.6	3537.38
Al 308.215	74555.2	ppb	44.0753	0.1	427167
As 188.980	2725.25	ppb	9.8435	0.4	1480.72
B 249.678	1096.52	ppb	7.8022	0.7	10294.9
Ba 389.178	3095.30	ppb	2.3863	0.1	74244.5
Be 313.042	57.7581	ppb	0.0698	0.1	111539
Ca 370.602	31906	ppb	19.83	0.1	93966
Cd 226.502	53.1743	ppb	0.2528	0.5	2176.74
Co 228.615	577.649	ppb	4.7298	0.8	6662.10
Cr 267.716	302.295	ppb	0.0894	0.0	12687.2
Cu 324.754	544.677	ppb	1.4211	0.3	26446.5
Fe 271.441	116383	ppb	83.8223	0.1	195156
K 766.491	9881.85	ppb	218.027	2.2	485216
Mg 279.078	9065.69	ppb	8.0368	0.1	18410.4
Mn 257.610	4855.23	ppb	1.3590	0.0	1101390
Mo 202.032	548.535	ppb	1.9986	0.4	3550.24
Na 330.237	5598.90	ppb	154.499	2.8	219.562
Ni 231.604	590.436	ppb	2.7836	0.5	1398.80
Pb 220.353	1876.25	ppb	9.0728	0.5	3018.51
Sb 206.834	530.512	ppb	3.2761	0.6	506.947
Se 196.026	2136.90	ppb	3.7180	0.2	981.004
Sn 189.925	1403.79	ppb	6.9673	0.5	1062.37
Sr 216.596	888.148	ppb	3.0331	0.3	8394.29
Ti 334.941	2490.66	ppb	6.6977	0.3	635221
Tl 190.794	2180.43	ppb	10.7297	0.5	1430.63
V 292.401	738.070	ppb	0.5676	0.1	20207.8
Zn 206.200	999.219	ppb	1.9793	0.2	1518.21

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**680-88580-a-49-e ms (Samp)**      **3/28/2013, 9:21:58 AM**      **Rack 4, Tube 10****Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	16.0599	16.1400	14.8477
Al 308.215	79444.5	79651.2	79733.3
As 188.980	157.551	147.313	155.277
B 249.678	171.637	172.869	170.432
Ba 389.178	840.077	842.039	842.621
Be 313.042	52.1552	52.3030	52.4325
Ca 370.602	45120	45196	45280
Cd 226.502	47.8453	47.4277	47.4507
Co 228.615	83.5799	83.2777	83.6995
Cr 267.716	180.249	180.705	181.153
Cu 324.754	234.080	234.471	233.284
Fe 271.441	147275	147479	147436
K 766.491	8032.17	8036.04	8056.66
Mg 279.078	9086.53	9109.33	9140.52
Mn 257.610	4677.50	4682.48	4691.20
Mo 202.032	97.4937	97.4938	98.2981
Na 330.237	5045.46	4989.58	4922.71
Ni 231.604	140.204	138.849	146.214
Pb 220.353	1373.77	1376.76	1375.29
Sb 206.834	23.6598	18.0119	22.2525
Se 196.026	111.133	108.674	90.0238
Sn 189.925	220.548	224.813	228.614
Sr 216.596	366.063	367.416	371.094
Ti 334.941	1268.73	1272.44	1280.26
Tl 190.794	50.4296	56.9422	56.7832
V 292.401	338.060	338.286	340.117
Zn 206.200	384.844	383.073	387.616

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	15.6825	ppb	0.7241	4.6	1070.09
Al 308.215	79609.7	ppb	148.815	0.2	456053
As 188.980	153.380	ppb	5.3763	3.5	84.3357
B 249.678	171.646	ppb	1.2185	0.7	1795.55
Ba 389.178	841.579	ppb	1.3331	0.2	20360.8
Be 313.042	52.2969	ppb	0.1388	0.3	101060
Ca 370.602	45199	ppb	80.15	0.2	134074
Cd 226.502	47.5746	ppb	0.2347	0.5	2049.49
Co 228.615	83.5191	ppb	0.2174	0.3	993.864
Cr 267.716	180.702	ppb	0.4520	0.3	7611.19
Cu 324.754	233.945	ppb	0.6047	0.3	11444.6
Fe 271.441	147397	ppb	107.601	0.1	247056
K 766.491	8041.62	ppb	13.1676	0.2	394899
Mg 279.078	9112.13	ppb	27.1032	0.3	18511.6
Mn 257.610	4683.73	ppb	6.9307	0.1	1062584
Mo 202.032	97.7619	ppb	0.4644	0.5	639.276
Na 330.237	4985.92	ppb	61.4572	1.2	193.075
Ni 231.604	141.756	ppb	3.9202	2.8	338.812
Pb 220.353	1375.27	ppb	1.4940	0.1	2213.79
Sb 206.834	21.3081	ppb	2.9400	13.8	25.7434
Se 196.026	103.277	ppb	11.5433	11.2	48.9760
Sn 189.925	224.658	ppb	4.0350	1.8	170.716
Sr 216.596	368.191	ppb	2.6032	0.7	3530.25
Ti 334.941	1273.81	ppb	5.8883	0.5	324888
Tl 190.794	54.7183	ppb	3.7150	6.8	26.4371
V 292.401	338.821	ppb	1.1283	0.3	9303.31
Zn 206.200	385.178	ppb	2.2896	0.6	586.963

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**680-88580-a-49-f msd (Samp) 3/28/2013, 9:27:26 AM Rack 4, Tube 11****Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	17.0312	16.6119	16.3863
Al 308.215	86306.1	86188.6	86334.3
As 188.980	933.647	925.243	931.874
B 249.678	148.856	148.807	149.813
Ba 389.178	795.855	795.370	796.926
Be 313.042	53.3389	53.4078	53.4292
Ca 370.602	29665	29648	29687
Cd 226.502	48.0743	47.8223	47.9355
Co 228.615	80.7475	81.4134	81.8697
Cr 267.716	254.825	254.960	254.959
Cu 324.754	431.296	430.926	433.053
Fe 271.441	189644	189581	189498
K 766.491	8753.42	8752.23	8752.02
Mg 279.078	8634.06	8620.67	8637.04
Mn 257.610	3268.83	3267.44	3258.41
Mo 202.032	101.889	101.681	101.642
Na 330.237	4768.93	4875.49	5056.04
Ni 231.604	150.761	150.503	152.293
Pb 220.353	978.306	981.160	980.524
Sb 206.834	40.0340	31.0751	28.4897
Se 196.026	108.729	117.038	94.2170
Sn 189.925	259.457	254.864	255.403
Sr 216.596	347.930	350.111	347.845
Ti 334.941	1538.01	1544.37	1545.02
Tl 190.794	50.1363	40.5068	53.7015
V 292.401	488.324	487.943	488.462
Zn 206.200	612.560	610.463	609.916

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	16.6765	ppb	0.3273	2.0	1135.06
Al 308.215	86276.3	ppb	77.2599	0.1	494221
As 188.980	930.254	ppb	4.4296	0.5	505.617
B 249.678	149.159	ppb	0.5672	0.4	1550.95
Ba 389.178	796.050	ppb	0.7966	0.1	19332.5
Be 313.042	53.3920	ppb	0.0472	0.1	103168
Ca 370.602	29667	ppb	19.57	0.1	80461
Cd 226.502	47.9440	ppb	0.1262	0.3	2160.74
Co 228.615	81.3435	ppb	0.5644	0.7	974.614
Cr 267.716	254.915	ppb	0.0777	0.0	10716.2
Cu 324.754	431.759	ppb	1.1361	0.3	21006.1
Fe 271.441	189574	ppb	73.3697	0.0	317747
K 766.491	8752.55	ppb	0.7550	0.0	429791
Mg 279.078	8630.59	ppb	8.7180	0.1	17558.2
Mn 257.610	3264.89	ppb	5.6577	0.2	740965
Mo 202.032	101.738	ppb	0.1327	0.1	662.805
Na 330.237	4900.15	ppb	145.136	3.0	172.456
Ni 231.604	151.186	ppb	0.9672	0.6	361.894
Pb 220.353	979.997	ppb	1.4980	0.2	1577.31
Sb 206.834	33.1996	ppb	6.0583	18.2	38.6696
Se 196.026	106.662	ppb	11.5504	10.8	50.3175
Sn 189.925	256.574	ppb	2.5106	1.0	194.844
Sr 216.596	348.629	ppb	1.2845	0.4	3359.45
Ti 334.941	1542.47	ppb	3.8728	0.3	393406
Tl 190.794	48.1148	ppb	6.8257	14.2	22.0631
V 292.401	488.243	ppb	0.2688	0.1	13412.0
Zn 206.200	610.980	ppb	1.3957	0.2	929.217

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**680-88580-a-50-b (Samp)**                      **3/28/2013, 9:32:54 AM**                      **Rack 4, Tube 12**  
**Weight: 1**    **Volume: 1**    **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-2.5951u	-1.4564u	-1.9145u
Al 308.215	147164	147570	147632
As 188.980	51.6209	48.1680	46.8846
B 249.678	-27.5205u	-26.8296u	-28.2433u
Ba 389.178	229.905	230.903	233.399
Be 313.042	3.2682	3.2878	3.2842
Ca 370.602	10254	10266	10273
Cd 226.502	-2.6404	-2.6277	-2.5051
Co 228.615	13.7032	13.5274	14.1567
Cr 267.716	207.429	207.581	207.951
Cu 324.754	74.5862	76.0381	75.7320
Fe 271.441	206563	207450	207553
K 766.491	3884.40	3896.54	3910.33
Mg 279.078	2021.87	2032.39	2024.72
Mn 257.610	789.085	792.210	792.614
Mo 202.032	6.3704	6.4035	5.9193
Na 330.237	89.8361u	125.081u	378.235u
Ni 231.604	54.0288	52.8079	54.1664
Pb 220.353	115.745	111.656	118.568
Sb 206.834	5.2817	4.1149	-4.3655
Se 196.026	-3.4537u	-3.8685u	7.1064
Sn 189.925	16.4595	19.7779	20.0971
Sr 216.596	54.9393	56.3476	55.0257
Ti 334.941	1635.10	1645.01	1640.51
Tl 190.794	7.2709u	2.8697u	12.3204
V 292.401	437.972	440.374	439.720
Zn 206.200	156.213	157.579	156.930

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.9886	ppb	0.5730	28.8	-167.552
Al 308.215	147455	ppb	254.462	0.2	844488
As 188.980	48.8912	ppb	2.4496	5.0	26.8359
B 249.678	-27.5311	ppb	0.7069	2.6	-83.3110
Ba 389.178	231.402	ppb	1.7997	0.8	5828.97
Be 313.042	3.2801	ppb	0.0104	0.3	6174.08
Ca 370.602	10264	ppb	9.904	0.1	16341
Cd 226.502	-2.5911	ppb	0.0747	2.9	402.198
Co 228.615	13.7957	ppb	0.3247	2.4	207.290
Cr 267.716	207.653	ppb	0.2683	0.1	8736.22
Cu 324.754	75.4521	ppb	0.7653	1.0	3805.94
Fe 271.441	207189	ppb	544.049	0.3	347258
K 766.491	3897.09	ppb	12.9723	0.3	191490
Mg 279.078	2026.32	ppb	5.4397	0.3	4130.51
Mn 257.610	791.303	ppb	1.9315	0.2	180073
Mo 202.032	6.2311	ppb	0.2705	4.3	45.5060
Na 330.237	197.717	ppb	157.323	79.6	-68.9319
Ni 231.604	53.6677	ppb	0.7478	1.4	131.732
Pb 220.353	115.323	ppb	3.4753	3.0	184.703
Sb 206.834	1.6771	ppb	5.2654	314.0	9.3243
Se 196.026	-0.0719	ppb	6.2201	8647.7	0.8795
Sn 189.925	18.7781	ppb	2.0143	10.7	15.0136
Sr 216.596	55.4376	ppb	0.7893	1.4	606.955
Ti 334.941	1640.20	ppb	4.9645	0.3	418311
Tl 190.794	7.4870	ppb	4.7291	63.2	-2.9669
V 292.401	439.355	ppb	1.2418	0.3	12090.2
Zn 206.200	156.907	ppb	0.6828	0.4	240.217



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Cont Calib Verif (CCV)                      3/28/2013, 9:38:21 AM                      Rack 4, Tube 13  
 Weight: 1                                      Volume: 1                                      Dilution: 1

Label	Replicates Concentration		
Ag 328.068	496.479	501.453	504.092
Al 308.215	5003.98	4999.92	4978.50
As 188.980	463.004	467.214	476.358
B 249.678	2497.50	2528.52	2534.97
Ba 389.178	4929.54	4944.45	4917.58
Be 313.042	488.403	489.003	488.361
Ca 370.602	4929	4933	4917
Cd 226.502	494.737	494.747	492.409
Co 228.615	497.850	498.883	497.610
Cr 267.716	4876.08	4882.48	4861.94
Cu 324.754	4797.26	4920.10	4764.53
Fe 271.441	4974.32	4986.67	4965.05
K 766.491	10013.8	10052.0	10053.9
Mg 279.078	4930.37	4926.42	4912.17
Mn 257.610	4982.33	4993.10	4967.70
Mo 202.032	483.994	484.910	486.539
Na 330.237	7487.98	7469.93	7795.32
Ni 231.604	2460.72	2465.00	2464.25
Pb 220.353	495.231	488.068	484.747
Sb 206.834	908.462	916.910	916.871
Se 196.026	4843.60	4851.95	4811.07
Sn 189.925	5003.92	4982.94	4985.44
Sr 216.596	2434.34	2438.72	2427.41
Ti 334.941	491.457	492.575	491.245
Tl 190.794	4944.81	4932.48	4934.55
V 292.401	4931.19	4942.47	4923.18
Zn 206.200	2474.91	2484.66	2471.27

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	500.675	ppb	3.8655	0.8	34907.9	100.13490
Al 308.215	4994.13	ppb	13.6918	0.3	28814.2	99.88261
As 188.980	468.859	ppb	6.8274	1.5	256.499	93.77173
B 249.678	2520.33	ppb	20.0348	0.8	23437.8	100.81316
Ba 389.178	4930.53	ppb	13.4627	0.3	117992	98.61052
Be 313.042	488.589	ppb	0.3591	0.1	945431	97.71779
Ca 370.602	4926	ppb	8.263	0.2	15763	98.52582
Cd 226.502	493.964	ppb	1.3471	0.3	17608.9	98.79286
Co 228.615	498.115	ppb	0.6763	0.1	5719.27	99.62291
Cr 267.716	4873.50	ppb	10.5083	0.2	203719	97.46999
Cu 324.754	4827.30	ppb	82.0213	1.7	233144	96.54596
Fe 271.441	4975.35	ppb	10.8486	0.2	8461.78	99.50694
K 766.491	10039.9	ppb	22.6188	0.2	492973	100.39906
Mg 279.078	4922.98	ppb	9.5719	0.2	9971.23	98.45969
Mn 257.610	4981.04	ppb	12.7502	0.3	1129596	99.62085
Mo 202.032	485.148	ppb	1.2891	0.3	3138.94	97.02958
Na 330.237	7584.41	ppb	182.879	2.4	357.901	101.12547
Ni 231.604	2463.33	ppb	2.2828	0.1	5823.75	98.53300
Pb 220.353	489.349	ppb	5.3581	1.1	789.654	97.86971
Sb 206.834	914.081	ppb	4.8660	0.5	918.861	91.40810
Se 196.026	4835.54	ppb	21.5977	0.4	2217.60	96.71076
Sn 189.925	4990.77	ppb	11.4586	0.2	3774.84	99.81535
Sr 216.596	2433.49	ppb	5.7017	0.2	22881.4	97.33968
Ti 334.941	491.759	ppb	0.7147	0.1	125405	98.35186
Tl 190.794	4937.28	ppb	6.6059	0.1	3255.40	98.74561
V 292.401	4932.28	ppb	9.6914	0.2	135270	98.64561
Zn 206.200	2476.95	ppb	6.9207	0.3	3746.51	99.07781

E03272013.vvq. All Data Report 3/28/2013, 2:04:12 PM

Cont Calib Blank (CCB)                      3/28/2013, 9:43:49 AM                      Rack 4, Tube 14  
 Weight: 1    Volume: 1    Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.8944u	-0.6893u	-1.4008u
Al 308.215	2.1336	-1.9437u	1.2055
As 188.980	-2.3028u	-8.4130u	-10.0223u
B 249.678	33.0243	25.9110	23.4052
Ba 389.178	-1.3383u	-0.8165u	-0.5989u
Be 313.042	-0.0359u	-0.0351u	-0.0192u
Ca 370.602	6.184	4.147	-0.6953u
Cd 226.502	-0.1084u	-0.1769u	-0.1442u
Co 228.615	-0.0618u	-0.4613u	0.0604
Cr 267.716	0.0845	-0.3159u	-0.1884u
Cu 324.754	-0.4808u	-0.0375u	-0.4402u
Fe 271.441	0.8156	0.9569	2.8238
K 766.491	-0.8218u	0.3043	-0.7524u
Mg 279.078	4.4895	1.0838	-0.0750u
Mn 257.610	-0.1575u	-0.1842u	-0.1820u
Mo 202.032	-0.8266u	-0.0676u	-0.2643u
Na 330.237	82.6353	-141.040u	-29.3975u
Ni 231.604	1.7243	-1.0337u	1.4152
Pb 220.353	0.2064	-2.3696u	-1.0814u
Sb 206.834	4.6143	-2.5241u	5.4367
Se 196.026	-2.5872u	0.7463	-5.1473u
Sn 189.925	-0.5405u	-3.1540u	-6.8013u
Sr 216.596	-0.1135u	-0.2281u	-0.3739u
Ti 334.941	-0.0935u	-0.0688u	0.0231
Tl 190.794	0.2436	1.5728	-3.5580u
V 292.401	0.3213	0.0057	0.3187
Zn 206.200	-0.6481u	-0.9181u	-0.1142u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	-0.9949	ppb	0.3662	36.8	-101.545	-0.99485
Al 308.215	0.4651	ppb	2.1371	459.5	246.329	0.46514
As 188.980	-6.9127	ppb	4.0726	58.9	-1.6820	-6.91269
B 249.678	27.4468	ppb	4.9900	18.2	609.775	27.44683
Ba 389.178	-0.9179	ppb	0.3800	41.4	-40.3358	-0.91790
Be 313.042	-0.0301	ppb	0.0094	31.3	-230.848	-0.03010
Ca 370.602	3.212	ppb	3.534	110.0	6.417	3.21191
Cd 226.502	-0.1432	ppb	0.0343	23.9	7.9093	-0.14316
Co 228.615	-0.1542	ppb	0.2728	176.9	11.9320	-0.15424
Cr 267.716	-0.1399	ppb	0.2046	146.2	3.5509	-0.13990
Cu 324.754	-0.3195	ppb	0.2451	76.7	92.3264	-0.31949
Fe 271.441	1.5321	ppb	1.1209	73.2	5.0320	1.53210
K 766.491	-0.4233	ppb	0.6311	149.1	204.499	-0.42330
Mg 279.078	1.8327	ppb	2.3727	129.5	25.5397	1.83275
Mn 257.610	-0.1746	ppb	0.0148	8.5	32.0972	-0.17456
Mo 202.032	-0.3862	ppb	0.3939	102.0	12.7851	-0.38617
Na 330.237	-29.2674	ppb	111.838	382.1	-5.2865	-29.26736
Ni 231.604	0.7019	ppb	1.5110	215.3	2.6091	0.70192
Pb 220.353	-1.0815	ppb	1.2880	119.1	0.7362	-1.08153
Sb 206.834	2.5089	ppb	4.3781	174.5	3.6887	2.50894
Se 196.026	-2.3294	ppb	2.9553	126.9	-0.9003	-2.32941
Sn 189.925	-3.4986	ppb	3.1446	89.9	-1.8317	-3.49857
Sr 216.596	-0.2385	ppb	0.1305	54.7	8.2499	-0.23852
Ti 334.941	-0.0464	ppb	0.0615	132.5	-41.9052	-0.04640
Tl 190.794	-0.5805	ppb	2.6629	458.7	-0.6416	-0.58053
V 292.401	0.2153	ppb	0.1815	84.3	0.3208	0.21527
Zn 206.200	-0.5602	ppb	0.4991	273.8	5.19111	-0.56015

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680-88580-a-51-b (Samp)      3/28/2013, 9:49:17 AM      Rack 4, Tube 15  
 Weight: 1      Volume: 1      Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-1.0933u	-0.8376u	-1.4269u
Al 308.215	59545.6	59550.7	59583.9
As 188.980	6.9193	2.5603	9.6487
B 249.678	-11.2014u	-13.2570u	-12.8537u
Ba 389.178	71.9205	72.6516	71.4921
Be 313.042	0.8140	0.8080	0.8144
Ca 370.602	4037	4039	4052
Cd 226.502	-0.8508	-0.9163	-0.8817
Co 228.615	2.2745	2.5399	2.0095
Cr 267.716	86.5795	86.7206	86.4955
Cu 324.754	24.9263	25.9803	26.2542
Fe 271.441	84566.0	84851.6	84904.2
K 766.491	1190.58	1201.08	1203.43
Mg 279.078	920.534	919.702	916.745
Mn 257.610	65.1003	65.2119	65.1961
Mo 202.032	0.5443u	1.5058	1.7428
Na 330.237	341.987u	6.1569u	348.903u
Ni 231.604	14.7180	12.9636	11.2141
Pb 220.353	37.9659	32.2805	39.8873
Sb 206.834	-0.3307	1.5851	0.2335
Se 196.026	0.2362	-0.8145u	5.0304
Sn 189.925	12.7989	11.7144	16.4221
Sr 216.596	17.0361	17.3473	17.1485
Ti 334.941	745.168	746.661	748.101
Tl 190.794	6.8926	3.1445u	0.2098u
V 292.401	200.261	200.601	200.711
Zn 206.200	33.3701	36.0525	35.9121

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.1193	ppb	0.2955	26.4	-109.625
Al 308.215	59560.1	ppb	20.7891	0.0	341250
As 188.980	6.3761	ppb	3.5753	56.1	4.8049
B 249.678	-12.4374	ppb	1.0892	8.8	166.989
Ba 389.178	72.0214	ppb	0.5863	0.8	1832.13
Be 313.042	0.8121	ppb	0.0036	0.4	1397.66
Ca 370.602	4042	ppb	8.275	0.2	6189
Cd 226.502	-0.8829	ppb	0.0327	3.7	178.379
Co 228.615	2.2746	ppb	0.2652	11.7	56.3898
Cr 267.716	86.5985	ppb	0.1137	0.1	3647.38
Cu 324.754	25.7203	ppb	0.7011	2.7	1371.92
Fe 271.441	84773.9	ppb	182.018	0.2	142086
K 766.491	1198.36	ppb	6.8408	0.6	59039.5
Mg 279.078	918.993	ppb	1.9914	0.2	1890.23
Mn 257.610	65.1694	ppb	0.0604	0.1	15082.2
Mo 202.032	1.2643	ppb	0.6347	50.2	19.3176
Na 330.237	232.349	ppb	195.919	84.3	-23.1154
Ni 231.604	12.9653	ppb	1.7520	13.5	33.2006
Pb 220.353	36.7112	ppb	3.9556	10.8	60.1051
Sb 206.834	0.4960	ppb	0.9845	198.5	4.4220
Se 196.026	1.4841	ppb	3.1158	210.0	1.0930
Sn 189.925	13.6451	ppb	2.4653	18.1	11.1322
Sr 216.596	17.1773	ppb	0.1576	0.9	202.827
Ti 334.941	746.643	ppb	1.4666	0.2	190403
Tl 190.794	3.4156	ppb	3.3497	98.1	-0.8757
V 292.401	200.524	ppb	0.2343	0.1	5515.76
Zn 206.200	35.1116	ppb	1.5098	4.3	557751

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**680-88632-b-10-d (Samp)**                      **3/28/2013, 9:54:45 AM**                      **Rack 4, Tube 16**  
**Weight: 1**    **Volume: 1**    **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	2.2435	2.9499	2.9978
Al 308.215	100818	100593	100767
As 188.980	462.361	464.837	468.148
B 249.678	44.5318	44.3973	45.9165
Ba 389.178	3635.07	3636.81	3637.80
Be 313.042	12.0049	12.0194	11.9807
Ca 370.602	135937	135796	135341
Cd 226.502	12.6224	12.4099	12.5944
Co 228.615	99.2511	100.718	100.490
Cr 267.716	320.286	320.361	318.665
Cu 324.754	819.913	827.805	817.205
Fe 271.441	313102	312711	312891
K 766.491	13594.0	13584.8	13619.6
Mg 279.078	34390.1	34400.1	34390.1
Mn 257.610	7910.06	7889.46	7895.89
Mo 202.032	46.0499	46.8923	47.4856
Na 330.237	2617.54u	2735.73u	2688.78u
Ni 231.604	191.774	192.554	194.195
Pb 220.353	27677.5x	27628.0x	27575.7x
Sb 206.834	17.5212	18.0504	15.4573
Se 196.026	-3.1014	0.8146	0.7664
Sn 189.925	1051.86	1054.40	1057.86
Sr 216.596	1079.93	1075.35	1071.14
Ti 334.941	2128.42	2133.12	2120.56
Tl 190.794	28.3407	30.5537	23.9658u
V 292.401	384.250	383.306	384.152
Zn 206.200	5486.05	5466.73	5480.21

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	2.7304b	ppb	0.4223	15.5	147.154
Al 308.215	100726b	ppb	118.218	0.1	576946
As 188.980	465.115b	ppb	2.9039	0.6	252.785
B 249.678	44.9485b	ppb	0.8410	1.9	483.848
Ba 389.178	3636.56b	ppb	1.3813	0.0	87548.6
Be 313.042	12.0017b	ppb	0.0196	0.2	23080.0
Ca 370.602	135692b	ppb	311.3	0.2	412764
Cd 226.502	12.5422b	ppb	0.1155	0.9	1187.33
Co 228.615	100.153b	ppb	0.7893	0.8	1202.23
Cr 267.716	319.771b	ppb	0.9581	0.3	13472.4
Cu 324.754	821.641b	ppb	5.5072	0.7	39865.0
Fe 271.441	312901b	ppb	195.543	0.1	524446
K 766.491	13599.5b	ppb	18.0168	0.1	667672
Mg 279.078	34393.5b	ppb	5.7746	0.0	69977.0
Mn 257.610	7898.47b	ppb	10.5392	0.1	1792132
Mo 202.032	46.8093b	ppb	0.7214	1.5	302.853
Na 330.237	2680.68b	ppb	59.5059	2.2	-17.0813
Ni 231.604	192.841b	ppb	1.2359	0.6	462.669
Pb 220.353	27627.1xb	ppb	50.9101	0.2	44448.0
Sb 206.834	17.0097b	ppb	1.3701	8.1	27.0856
Se 196.026	-0.5068b	ppb	2.2471	443.4	2.5939
Sn 189.925	1054.71b	ppb	3.0118	0.3	798.429
Sr 216.596	1075.47b	ppb	4.3934	0.4	10260.3
Ti 334.941	2127.37b	ppb	6.3442	0.3	542695
Tl 190.794	27.6201b	ppb	3.3525	12.1	-0.1340
V 292.401	383.902b	ppb	0.5193	0.1	10558.4
Zn 206.200	5477.67b	ppb	9.9119	0.2	8214.19

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680-88632-b-10-e ms (Samp) 3/28/2013, 10:00:13 AM Rack 4, Tube 17

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	15.2620	15.3915	15.2824
Al 308.215	82608.6	82543.0	82816.6
As 188.980	302.229	301.704	313.994
B 249.678	174.428	178.166	180.980
Ba 389.178	2864.30	2859.96	2869.77
Be 313.042	46.8905	46.6841	46.8346
Ca 370.602	144776	143775	144229
Cd 226.502	46.8215	47.0353	47.1179
Co 228.615	116.643	117.413	118.012
Cr 267.716	344.241	342.416	343.588
Cu 324.754	750.401	733.175	738.972
Fe 271.441	266947	266467	267303
K 766.491	14645.3	14662.9	14684.3
Mg 279.078	52352.6	52143.9	52292.2
Mn 257.610	7123.16	7101.26	7122.06
Mo 202.032	92.5791	91.4504	92.6859
Na 330.237	5586.37	5960.53	5833.38
Ni 231.604	231.108	228.665	230.397
Pb 220.353	3506.28	3461.00	3485.24
Sb 206.834	32.2635	23.2102	26.4088
Se 196.026	74.3042	74.8495	64.0303
Sn 189.925	259.765	255.113	253.354
Sr 216.596	888.351	885.057	885.545
Ti 334.941	1620.57	1610.73	1612.67
Tl 190.794	56.1761	57.5774	48.8972
V 292.401	354.057	352.755	353.066
Zn 206.200	4497.21	4466.01	4496.43

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	15.3120	ppb	0.0697	0.5	1030.86
Al 308.215	82656.0	ppb	142.821	0.2	473494
As 188.980	305.976	ppb	6.9490	2.3	166.854
B 249.678	177.858	ppb	3.2870	1.8	1743.39
Ba 389.178	2864.68	ppb	4.9163	0.2	69060.3
Be 313.042	46.8031	ppb	0.1067	0.2	90454.0
Ca 370.602	144260	ppb	501.1	0.3	444118
Cd 226.502	46.9916	ppb	0.1530	0.3	2306.30
Co 228.615	117.356	ppb	0.6859	0.6	1386.59
Cr 267.716	343.415	ppb	0.9244	0.3	14447.4
Cu 324.754	740.849	ppb	8.7650	1.2	35952.6
Fe 271.441	266906	ppb	419.083	0.2	447359
K 766.491	14664.1	ppb	19.5280	0.1	719925
Mg 279.078	52262.9	ppb	107.423	0.2	106382
Mn 257.610	7115.50	ppb	12.3369	0.2	1614561
Mo 202.032	92.2385	ppb	0.6846	0.7	598.263
Na 330.237	5793.43	ppb	190.251	3.3	165.834
Ni 231.604	230.056	ppb	1.2565	0.5	549.767
Pb 220.353	3484.17	ppb	22.6609	0.7	5606.89
Sb 206.834	27.2942	ppb	4.5911	16.8	35.6420
Se 196.026	71.0613	ppb	6.0952	8.6	35.0910
Sn 189.925	256.077	ppb	3.3124	1.3	194.511
Sr 216.596	886.318	ppb	1.7777	0.2	8460.81
Ti 334.941	1614.66	ppb	5.2079	0.3	412005
Tl 190.794	54.2169	ppb	4.6600	8.6	19.7276
V 292.401	353.293	ppb	0.6802	0.2	9698.15
Zn 206.200	4486.55	ppb	17.7938	0.4	6810.36

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**680-88632-b-10-f msd (Samp) 3/28/2013, 10:05:41 AM Rack 4, Tube 18****Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	18.9447	19.1149	19.7860
Al 308.215	90400.2	90312.2	90463.4
As 188.980	347.038	350.596	341.947
B 249.678	191.829	197.792	197.793
Ba 389.178	2944.32	2941.81	2942.36
Be 313.042	51.8852	51.7830	51.8710
Ca 370.602	126603	126383	126405
Cd 226.502	52.9833	53.2561	53.1990
Co 228.615	131.863	132.831	133.019
Cr 267.716	461.271	459.931	460.696
Cu 324.754	782.043	784.263	786.158
Fe 271.441	303956	304298	304101
K 766.491	15515.0	15544.6	15479.2
Mg 279.078	41115.5	41003.1	41039.4
Mn 257.610	7692.38	7683.16	7701.59
Mo 202.032	105.968	105.692	106.078
Na 330.237	6185.55	6344.58	6282.10
Ni 231.604	254.982	251.568	247.051
Pb 220.353	2088.91	2079.78	2089.10
Sb 206.834	20.1417	36.2173	29.0318
Se 196.026	92.0627	87.5787	75.8985
Sn 189.925	282.670	275.558	277.626
Sr 216.596	958.764	952.726	955.603
Ti 334.941	1770.24	1755.61	1753.48
Tl 190.794	61.5163	62.3311	59.7894
V 292.401	392.884	394.347	392.654
Zn 206.200	4684.80	4672.11	4679.10

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	19.2819	ppb	0.4448	2.3	1308.14
Al 308.215	90391.9	ppb	75.9397	0.1	517787
As 188.980	346.527	ppb	4.3471	1.3	188.402
B 249.678	195.804	ppb	3.4429	1.8	1873.74
Ba 389.178	2942.83	ppb	1.3187	0.0	70954.6
Be 313.042	51.8464	ppb	0.0554	0.1	100208
Ca 370.602	126464	ppb	121.5	0.1	383643
Cd 226.502	53.1461	ppb	0.1438	0.3	2611.65
Co 228.615	132.571	ppb	0.6200	0.5	1563.00
Cr 267.716	460.633	ppb	0.6721	0.1	19357.4
Cu 324.754	784.155	ppb	2.0598	0.3	38054.1
Fe 271.441	304118	ppb	171.693	0.1	509731
K 766.491	15512.9	ppb	32.7583	0.2	761583
Mg 279.078	41052.7	ppb	57.4030	0.1	83544.9
Mn 257.610	7692.38	ppb	9.2158	0.1	1745412
Mo 202.032	105.913	ppb	0.1988	0.2	684.818
Na 330.237	6270.74	ppb	80.1192	1.3	176.511
Ni 231.604	251.200	ppb	3.9783	1.6	600.445
Pb 220.353	2085.93	ppb	5.3254	0.3	3357.26
Sb 206.834	28.4636	ppb	8.0528	28.3	38.5505
Se 196.026	85.1799	ppb	8.3448	9.8	41.7951
Sn 189.925	278.618	ppb	3.6582	1.3	211.549
Sr 216.596	955.697	ppb	3.0204	0.3	9125.34
Ti 334.941	1759.78	ppb	9.1218	0.5	448973
Tl 190.794	61.2123	ppb	1.2978	2.1	22.5402
V 292.401	393.295	ppb	0.9181	0.2	10790.6
Zn 206.200	4678.67	ppb	6.3578	0.1	57191.36

E03272013.wvq. All Data Report 3/28/2013, 2:04:12 PM

680-88632-b-23-b (Samp) 3/28/2013, 10:11:09 AM Rack 4, Tube 19

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	18.0694	18.5990	17.0754
Al 308.215	96605.2	96358.1	96652.6
As 188.980	181.655	185.412	187.593
B 249.678	-10.6706u	-10.2821u	-10.1772u
Ba 389.178	1530.14	1523.39	1527.88
Be 313.042	11.6171	11.5878	11.6056
Ca 370.602	236817	235131	236140
Cd 226.502	46.6755	46.6396	46.8433
Co 228.615	77.2516	78.4127	78.0701
Cr 267.716	310.610	309.649	311.343
Cu 324.754	10404.8	10194.6	10324.6
Fe 271.441	394143	393400	395203
K 766.491	9117.88	9080.84	9052.10
Mg 279.078	41426.6	41245.1	41414.4
Mn 257.610	10067.6	10042.5	10089.7
Mo 202.032	11.9572	10.5265	11.7706
Na 330.237	3142.57u	3032.85u	2932.87u
Ni 231.604	142.661	138.687	137.846
Pb 220.353	5201.02	5173.57	5218.98
Sb 206.834	5.5703	10.5485	5.9487
Se 196.026	6.5797	4.4611	11.4386
Sn 189.925	131.506	131.735	132.836
Sr 216.596	403.135	399.827	402.312
Ti 334.941	1668.13	1658.14	1666.49
Tl 190.794	50.7760	63.3176	51.6031
V 292.401	307.329	307.330	307.628
Zn 206.200	23156.5	23079.3	23202.1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	17.9146	ppb	0.7735	4.3	1245.43
Al 308.215	96538.6	ppb	158.126	0.2	552969
As 188.980	184.887	ppb	3.0038	1.6	100.669
B 249.678	-10.3766	ppb	0.2600	2.5	-97.1093
Ba 389.178	1527.14	ppb	3.4357	0.2	37212.6
Be 313.042	11.6035	ppb	0.0148	0.1	22360.3
Ca 370.602	236029	ppb	848.3	0.4	729914
Cd 226.502	46.7194	ppb	0.1087	0.2	2592.23
Co 228.615	77.9114	ppb	0.5966	0.8	935.136
Cr 267.716	310.534	ppb	0.8498	0.3	13110.3
Cu 324.754	10308.0	ppb	106.065	1.0	497905
Fe 271.441	394249	ppb	906.166	0.2	660781
K 766.491	9083.61	ppb	32.9764	0.4	446039
Mg 279.078	41362.0	ppb	101.446	0.2	84152.3
Mn 257.610	10066.6	ppb	23.6153	0.2	2284024
Mo 202.032	11.4181	ppb	0.7778	6.8	70.8654
Na 330.237	3036.10	ppb	104.892	3.5	-149.723
Ni 231.604	139.731	ppb	2.5721	1.8	338.662
Pb 220.353	5197.86	ppb	22.8727	0.4	8364.36
Sb 206.834	7.3558	ppb	2.7714	37.7	19.8275
Se 196.026	7.4931	ppb	3.5773	47.7	6.9772
Sn 189.925	132.026	ppb	0.7112	0.5	100.733
Sr 216.596	401.758	ppb	1.7222	0.4	3954.55
Ti 334.941	1664.26	ppb	5.3582	0.3	424623
Tl 190.794	55.2322	ppb	7.0143	12.7	13.2211
V 292.401	307.429	ppb	0.1726	0.1	8455.35
Zn 206.200	23145.9	ppb	62.0832	0.3	35123.6

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680-88632-b-29-b (Samp) 3/28/2013, 10:16:36 AM Rack 4, Tube 20

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	1.0271	0.1593	0.7445
Al 308.215	66107.9	66613.3	66275.2
As 188.980	237.821	228.698	240.852
B 249.678	-15.0878u	-14.2453u	-12.7746u
Ba 389.178	1450.31	1463.92	1454.24
Be 313.042	10.0849	10.1662	10.1031
Ca 370.602	41150	41383	41265
Cd 226.502	5.0017	5.5314	5.0729
Co 228.615	92.0275	93.3706	92.5668
Cr 267.716	248.644	250.118	250.463
Cu 324.754	485.970	489.122	488.973
Fe 271.441	237814	240064	238251
K 766.491	10053.0	10095.0	10004.0
Mg 279.078	14162.6	14278.9	14147.9
Mn 257.610	2929.39	2950.20	2935.59
Mo 202.032	10.0427	10.3879	10.8335
Na 330.237	1235.83u	1076.47u	1214.81u
Ni 231.604	180.211	185.890	183.007
Pb 220.353	923.892	925.990	928.109
Sb 206.834	7.0041	9.8939	-1.2528
Se 196.026	13.0866	1.8806	0.1510
Sn 189.925	81.0435	84.2040	77.1647
Sr 216.596	387.998	389.764	389.335
Ti 334.941	868.386	870.937	869.282
Tl 190.794	5.0239u	14.9719u	5.3028u
V 292.401	237.945	239.747	237.866
Zn 206.200	2236.36	2263.85	2246.40

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.6436	ppb	0.4426	68.8	9.2802
Al 308.215	66332.1	ppb	257.436	0.4	380024
As 188.980	235.790	ppb	6.3265	2.7	128.256
B 249.678	-14.0359	ppb	1.1708	8.3	11.6555
Ba 389.178	1456.15	ppb	7.0053	0.5	35212.7
Be 313.042	10.1181	ppb	0.0427	0.4	19419.0
Ca 370.602	41266	ppb	116.3	0.3	113738
Cd 226.502	5.2020	ppb	0.2875	5.5	752.529
Co 228.615	92.6550	ppb	0.6759	0.7	1088.29
Cr 267.716	249.742	ppb	0.9665	0.4	10509.8
Cu 324.754	488.022	ppb	1.7783	0.4	23736.5
Fe 271.441	238710	ppb	1192.86	0.5	400098
K 766.491	10050.7	ppb	45.5348	0.5	493503
Mg 279.078	14196.5	ppb	71.7514	0.5	28914.0
Mn 257.610	2938.39	ppb	10.6800	0.4	667091
Mo 202.032	10.4214	ppb	0.3964	3.8	71.4985
Na 330.237	1175.70	ppb	86.5810	7.4	-38.0790
Ni 231.604	183.036	ppb	2.8397	1.6	438.087
Pb 220.353	925.997	ppb	2.1081	0.2	1491.18
Sb 206.834	5.2151	ppb	5.7847	110.9	13.7975
Se 196.026	5.0394	ppb	7.0225	139.4	3.7984
Sn 189.925	80.8041	ppb	3.5257	4.4	61.9291
Sr 216.596	389.032	ppb	0.9207	0.2	3760.93
Ti 334.941	869.535	ppb	1.2943	0.1	221815
Tl 190.794	8.4328	ppb	5.6647	67.2	-5.5210
V 292.401	238.519	ppb	1.0644	0.4	6550.99
Zn 206.200	2248.87	ppb	13.9122	0.6	3414.53



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680-88632-b-34-b (Samp) 3/28/2013, 10:22:04 AM Rack 4, Tube 21

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	7.9240	7.6263	8.5825
Al 308.215	42035.8	42121.9	42068.0
As 188.980	2824.35	2831.20	2830.51
B 249.678	-137.940u	-140.039u	-140.051u
Ba 389.178	1904.03	1903.99	1898.62
Be 313.042	3.8788	3.8793	3.8941
Ca 370.602	81058	80742	80798
Cd 226.502	102.182	103.502	101.517
Co 228.615	398.423	394.766	400.963
Cr 267.716	1019.22	1022.09	1023.89
Cu 324.754	7039.80	7033.48	7021.43
Fe 271.441	2414274x	2414923x	2408488x
K 766.491	4260.20	4244.89	4230.03
Mg 279.078	20509.8	20542.1	20547.0
Mn 257.610	19061.6	19108.8	19058.4
Mo 202.032	204.843	204.385	208.313
Na 330.237	285.771u	441.014u	97.7949u
Ni 231.604	788.856	792.384	799.906
Pb 220.353	2690.82	2694.12	2704.40
Sb 206.834	22.5642	23.8493	23.8533
Se 196.026	23.4241	21.5675	27.9643
Sn 189.925	340.740	337.841	333.883
Sr 216.596	257.162	258.636	260.305
Ti 334.941	653.734	655.626	656.674
Tl 190.794	59.0909u	68.3100u	63.8362u
V 292.401	235.030	236.147	235.053
Zn 206.200	30197.7x	30252.4x	30315.6x

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	8.0443b	ppb	0.4893	6.1	592.224
Al 308.215	42075.2b	ppb	43.4656	0.1	241166
As 188.980	2828.69b	ppb	3.7726	0.1	1516.72
B 249.678	-139.343b	ppb	1.2158	0.9	-3126.36
Ba 389.178	1902.22b	ppb	3.1114	0.2	49096.0
Be 313.042	3.8840b	ppb	0.0087	0.2	7287.95
Ca 370.602	80866b	ppb	168.8	0.2	62178
Cd 226.502	102.400b	ppb	1.0106	1.0	9267.73
Co 228.615	398.051b	ppb	3.1154	0.8	4497.80
Cr 267.716	1021.73b	ppb	2.3545	0.2	43289.1
Cu 324.754	7031.57b	ppb	9.3324	0.1	340298
Fe 271.441	2412562xb	ppb	3542.61	0.1	4043535
K 766.491	4245.04b	ppb	15.0865	0.4	208567
Mg 279.078	20533.0b	ppb	20.2182	0.1	41958.4
Mn 257.610	19076.3b	ppb	28.1920	0.1	4332345
Mo 202.032	205.847b	ppb	2.1476	1.0	1235.96
Na 330.237	274.861b	ppb	171.869	62.5	-933.084
Ni 231.604	793.715b	ppb	5.6438	0.7	1922.28
Pb 220.353	2696.45b	ppb	7.0816	0.3	4343.10
Sb 206.834	23.4222b	ppb	0.7431	3.2	83.4371
Se 196.026	24.3186b	ppb	3.2909	13.5	22.2486
Sn 189.925	337.488b	ppb	3.4423	1.0	256.000
Sr 216.596	258.701b	ppb	1.5725	0.6	3302.09
Ti 334.941	655.345b	ppb	1.4903	0.2	167442
Tl 190.794	63.7457b	ppb	4.6102	7.2	-58.4271
V 292.401	235.410b	ppb	0.6382	0.3	6377.03
Zn 206.200	30255.2xb	ppb	58.9648	0.2	45906.5

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680-88632-a-41-b (Samp) 3/28/2013, 10:27:32 AM Rack 4, Tube 22

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	1.3964	1.3140	0.8989
Al 308.215	78892.7	78939.4	78962.4
As 188.980	330.530	327.600	339.077
B 249.678	-17.4932u	-17.6110u	-18.2039u
Ba 389.178	1854.92	1851.91	1852.65
Be 313.042	10.8690	10.8966	10.9103
Ca 370.602	44918	44938	45018
Cd 226.502	6.8738	6.3920	6.1666
Co 228.615	101.056	102.415	103.735
Cr 267.716	292.942	293.849	295.312
Cu 324.754	589.261	593.698	592.146
Fe 271.441	327519	330946	325137
K 766.491	10666.6	10625.7	10622.2
Mg 279.078	15121.7	15162.9	15186.7
Mn 257.610	3967.96	3991.06	3995.58
Mo 202.032	14.0097	13.2436	14.4736
Na 330.237	1405.50u	1407.11u	1443.37u
Ni 231.604	201.575	201.584	198.007
Pb 220.353	1269.69	1274.87	1257.16
Sb 206.834	4.6212	5.5981	6.5303
Se 196.026	10.5801	8.8209	1.5560
Sn 189.925	175.184	179.274	181.736
Sr 216.596	455.546	457.705	460.046
Ti 334.941	1123.05	1125.70	1129.57
Tl 190.794	20.8302u	12.4123u	19.3957u
V 292.401	338.692	338.587	338.803
Zn 206.200	2701.59	2720.83	2720.54

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	1.2031	ppb	0.2666	22.2	50.4240
Al 308.215	78931.5	ppb	35.5032	0.0	452159
As 188.980	332.402	ppb	5.9634	1.8	179.930
B 249.678	-17.7694	ppb	0.3809	2.1	-104.639
Ba 389.178	1853.16	ppb	1.5667	0.1	44846.5
Be 313.042	10.8920	ppb	0.0210	0.2	20913.3
Ca 370.602	44958	ppb	53.14	0.1	118316
Cd 226.502	6.4775	ppb	0.3613	5.6	1006.47
Co 228.615	102.402	ppb	1.3398	1.3	1203.19
Cr 267.716	294.034	ppb	1.1955	0.4	12383.5
Cu 324.754	591.702	ppb	2.2517	0.4	28767.1
Fe 271.441	327867	ppb	2919.94	0.9	549529
K 766.491	10638.2	ppb	24.7103	0.2	522336
Mg 279.078	15157.1	ppb	32.9352	0.2	30866.5
Mn 257.610	3984.87	ppb	14.8137	0.4	904633
Mo 202.032	13.9090	ppb	0.6212	4.5	89.8350
Na 330.237	1418.66	ppb	21.4105	1.5	-57.6764
Ni 231.604	200.389	ppb	2.0626	1.0	480.788
Pb 220.353	1267.24	ppb	9.1059	0.7	2040.04
Sb 206.834	5.5832	ppb	0.9546	17.1	16.5022
Se 196.026	6.9857	ppb	4.7838	68.5	5.1742
Sn 189.925	178.731	ppb	3.3094	1.9	135.981
Sr 216.596	457.766	ppb	2.2502	0.5	4440.52
Ti 334.941	1126.10	ppb	3.2823	0.3	287262
Tl 190.794	17.5461	ppb	4.5035	25.7	-3.5286
V 292.401	338.694	ppb	0.1081	0.0	9307.09
Zn 206.200	2714.32	ppb	11.0279	0.4	4120.63

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Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	4.6374	3.6517	2.6270
Al 308.215	42893.7	42956.6	42959.3
As 188.980	2272.26	2290.60	2280.63
B 249.678	-106.180u	-104.832u	-108.938u
Ba 389.178	2004.46	2006.28	2004.69
Be 313.042	6.6611	6.6713	6.6850
Ca 370.602	70297	70177	70011
Cd 226.502	93.6626	94.3125	93.1266
Co 228.615	331.420	331.390	326.364
Cr 267.716	896.371	898.597	902.009
Cu 324.754	3811.46	3865.91	3816.54
Fe 271.441	1875445x	1874391x	1877592x
K 766.491	4199.32	4198.29	4187.17
Mg 279.078	12991.7	12999.4	13048.0
Mn 257.610	16784.1	16824.3	16842.3
Mo 202.032	163.866	162.895	163.554
Na 330.237	-191.614u	233.036u	-26.0156u
Ni 231.604	515.367	525.759	525.075
Pb 220.353	3621.76	3627.73	3657.39
Sb 206.834	36.4883	34.8790	19.2394
Se 196.026	0.7192	13.1376	15.3192
Sn 189.925	464.287	452.863	455.931
Sr 216.596	248.588	254.193	256.226
Ti 334.941	729.764	730.675	732.833
Tl 190.794	50.0752u	55.7483u	66.6043u
V 292.401	244.187	244.496	244.417
Zn 206.200	14919.8	14952.9	14952.1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	3.6387b	ppb	1.0053	27.6	277.214
Al 308.215	42936.5b	ppb	37.1349	0.1	246092
As 188.980	2281.16b	ppb	9.1832	0.4	1224.22
B 249.678	-106.650b	ppb	2.0928	2.0	-2334.75
Ba 389.178	2005.15b	ppb	0.9915	0.0	50749.0
Be 313.042	6.6725b	ppb	0.0120	0.2	12697.8
Ca 370.602	70162b	ppb	143.7	0.2	72038
Cd 226.502	93.7006b	ppb	0.5939	0.6	7707.90
Co 228.615	329.725b	ppb	2.9104	0.9	3737.43
Cr 267.716	898.992b	ppb	2.8394	0.3	38039.3
Cu 324.754	3831.30b	ppb	30.0809	0.8	185629
Fe 271.441	1875809xb	ppb	1631.51	0.1	3143924
K 766.491	4194.93b	ppb	6.7373	0.2	206108
Mg 279.078	13013.0b	ppb	30.5113	0.2	26582.5
Mn 257.610	16816.9b	ppb	29.7969	0.2	3818537
Mo 202.032	163.438b	ppb	0.4957	0.3	986.194
Na 330.237	5.1371b	ppb	214.032	4166.4	-675.250
Ni 231.604	522.067b	ppb	5.8124	1.1	1270.10
Pb 220.353	3635.63b	ppb	19.0818	0.5	5853.60
Sb 206.834	30.2022b	ppb	9.5282	31.5	77.6166
Se 196.026	9.7253b	ppb	7.8754	81.0	13.5783
Sn 189.925	457.694b	ppb	5.9125	1.3	346.908
Sr 216.596	253.002b	ppb	3.9555	1.6	3059.89
Ti 334.941	731.091b	ppb	1.5762	0.2	186673
Tl 190.794	57.4760b	ppb	8.3989	14.6	-42.1207
V 292.401	244.367b	ppb	0.1606	0.1	6639.96
Zn 206.200	14941.6b	ppb	18.8959	0.1	22671.2

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Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	1.8930	2.6019	2.1412
Al 308.215	98692.7	99516.0	98900.3
As 188.980	302.041	296.982	298.373
B 249.678	47.3704	47.6632	48.9493
Ba 389.178	4046.31	4041.22	4046.54
Be 313.042	12.8058	12.8413	12.7653
Ca 370.602	150059	149812	150812
Cd 226.502	13.4527	13.1413	13.3061
Co 228.615	99.7951	98.2033	98.5085
Cr 267.716	393.156	395.874	395.942
Cu 324.754	741.849	737.479	740.212
Fe 271.441	273032	273260	273220
K 766.491	13763.6	13735.8	13751.4
Mg 279.078	37716.4	37836.5	37704.0
Mn 257.610	8487.17	8491.65	8496.77
Mo 202.032	29.0809	27.0129	28.3809
Na 330.237	3197.16	3322.91	3066.59
Ni 231.604	175.779	175.256	177.344
Pb 220.353	3279.87	3292.47	3296.39
Sb 206.834	14.8029	11.9464	16.0847
Se 196.026	3.4714	15.4141	9.7233
Sn 189.925	351.310	358.555	361.930
Sr 216.596	1125.67	1131.73	1131.86
Ti 334.941	2261.81	2276.72	2278.90
Tl 190.794	40.4852	36.2602	30.0430
V 292.401	338.448	340.055	338.477
Zn 206.200	5540.42	5535.74	5551.19

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	2.2120	ppb	0.3597	16.3	111.077
Al 308.215	99036.3	ppb	428.162	0.4	567271
As 188.980	299.132	ppb	2.6131	0.9	163.134
B 249.678	47.9943	ppb	0.8399	1.8	547.887
Ba 389.178	4044.69	ppb	3.0052	0.1	97265.0
Be 313.042	12.8041	ppb	0.0380	0.3	24649.4
Ca 370.602	150228	ppb	520.9	0.3	462994
Cd 226.502	13.3000	ppb	0.1558	1.2	1122.18
Co 228.615	98.8356	ppb	0.8448	0.9	1193.61
Cr 267.716	394.991	ppb	1.5897	0.4	16611.6
Cu 324.754	739.847	ppb	2.2077	0.3	35904.5
Fe 271.441	273171	ppb	121.575	0.0	457857
K 766.491	13750.3	ppb	13.9548	0.1	675074
Mg 279.078	37752.3	ppb	73.1706	0.2	76802.6
Mn 257.610	8491.86	ppb	4.8054	0.1	1926599
Mo 202.032	28.1582	ppb	1.0518	3.7	184.280
Na 330.237	3195.55	ppb	128.166	4.0	19.1436
Ni 231.604	176.127	ppb	1.0866	0.6	422.421
Pb 220.353	3289.58	ppb	8.6314	0.3	5293.57
Sb 206.834	14.2780	ppb	2.1185	14.8	24.4294
Se 196.026	9.5363	ppb	5.9736	62.6	7.2247
Sn 189.925	357.265	ppb	5.4264	1.5	271.030
Sr 216.596	1129.75	ppb	3.5355	0.3	10759.4
Ti 334.941	2272.48	ppb	9.3010	0.4	579711
Tl 190.794	35.5962	ppb	5.2527	14.8	5.8911
V 292.401	338.993	ppb	0.9197	0.3	9324.37
Zn 206.200	5542.45	ppb	7.9185	0.1	8412.39

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Cont Calib Verif (CCV) 3/28/2013, 10:43:56 AM Rack 4, Tube 25  
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	501.837	498.919	497.574
Al 308.215	5013.02	5040.11	5009.43
As 188.980	482.114	476.385	472.406
B 249.678	2516.66	2551.64	2549.91
Ba 389.178	4944.13	4964.44	4940.62
Be 313.042	488.522	491.056	488.360
Ca 370.602	4919	4958	4937
Cd 226.502	495.386	498.050	494.439
Co 228.615	500.307	502.152	496.628
Cr 267.716	4868.49	4911.09	4897.52
Cu 324.754	4965.16	4902.88	4895.16
Fe 271.441	5029.02	5057.73	4999.13
K 766.491	10088.0	10096.0	10031.7
Mg 279.078	4945.33	4965.26	4954.57
Mn 257.610	4996.23	5032.57	4997.69
Mo 202.032	483.556	489.568	489.340
Na 330.237	7461.66	7626.00	7418.33
Ni 231.604	2471.85	2494.05	2478.32
Pb 220.353	493.111	492.146	493.998
Sb 206.834	919.719	923.244	925.188
Se 196.026	4856.81	4922.89	4860.51
Sn 189.925	4989.18	5013.18	5044.43
Sr 216.596	2426.06	2450.39	2441.85
Ti 334.941	490.872	495.229	493.438
Tl 190.794	4916.32	4970.83	4955.07
V 292.401	4935.05	4966.43	4932.77
Zn 206.200	2482.54	2505.57	2479.37

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	499.443	ppb	2.1796	0.4	34821.4	99.88866
Al 308.215	5020.85	ppb	16.7721	0.3	28967.3	100.41705
As 188.980	476.968	ppb	4.8799	1.0	260.901	95.39368
B 249.678	2539.40	ppb	19.7152	0.8	23612.4	101.57607
Ba 389.178	4949.73	ppb	12.8577	0.3	118451	98.99463
Be 313.042	489.313	ppb	1.5121	0.3	946831	97.86254
Ca 370.602	4938	ppb	19.46	0.4	15798	98.76094
Cd 226.502	495.959	ppb	1.8725	0.4	17680.0	99.19170
Co 228.615	499.696	ppb	2.8123	0.6	5737.34	99.93910
Cr 267.716	4892.37	ppb	21.7603	0.4	204507	97.84734
Cu 324.754	4921.07	ppb	38.3773	0.8	237671	98.42132
Fe 271.441	5028.63	ppb	29.3049	0.6	8551.61	100.57251
K 766.491	10071.9	ppb	35.0625	0.3	494544	100.71904
Mg 279.078	4955.05	ppb	9.9745	0.2	10036.1	99.10103
Mn 257.610	5008.83	ppb	20.5743	0.4	1135897	100.17662
Mo 202.032	487.488	ppb	3.4074	0.7	3154.02	97.49757
Na 330.237	7501.99	ppb	109.556	1.5	353.586	100.02660
Ni 231.604	2481.41	ppb	11.4189	0.5	5866.49	99.25628
Pb 220.353	493.085	ppb	0.9265	0.2	795.665	98.61699
Sb 206.834	922.717	ppb	2.7725	0.3	927.328	92.27171
Se 196.026	4880.07	ppb	37.1299	0.8	2238.02	97.60136
Sn 189.925	5015.60	ppb	27.7058	0.6	3793.61	100.31194
Sr 216.596	2439.43	ppb	12.3405	0.5	22936.9	97.57732
Ti 334.941	493.180	ppb	2.1897	0.4	125767	98.63593
Tl 190.794	4947.41	ppb	28.0529	0.6	3262.07	98.94817
V 292.401	4944.75	ppb	18.8087	0.4	135611	98.89494
Zn 206.200	2489.16	ppb	14.3029	0.6	3764.97	99.56641

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Cont Calib Blank (CCB)                      3/28/2013, 10:49:24 AM                      Rack 4, Tube 26  
 Weight: 1    Volume: 1    Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.2314u	-0.6711u	-0.0683u
Al 308.215	-0.3821u	-0.9943u	1.3935
As 188.980	-2.4524u	-6.5958u	-2.5142u
B 249.678	31.8518	25.5611	20.9534
Ba 389.178	0.4662	-0.1452u	-0.5074u
Be 313.042	-0.0228u	-0.0263u	-0.0266u
Ca 370.602	1.721	-3.078u	3.384
Cd 226.502	-0.0624u	0.0266	-0.1357u
Co 228.615	0.5174	-0.1643u	-0.0830u
Cr 267.716	-0.1163u	-0.4141u	-0.4943u
Cu 324.754	-0.0579u	0.2652	-0.0847u
Fe 271.441	3.7188	12.8444	7.9162
K 766.491	0.1366	-0.5771u	-0.8843u
Mg 279.078	1.6577	0.2915	0.1446
Mn 257.610	-0.1704u	-0.1114u	-0.0706u
Mo 202.032	0.0660	-0.2150u	0.1157
Na 330.237	36.7398	46.7986	86.8945
Ni 231.604	-0.8862u	1.3524	1.0073
Pb 220.353	-1.9962u	-0.1999u	1.8124
Sb 206.834	-1.7522u	4.6122	4.4341
Se 196.026	-5.7208u	-4.1572u	-8.6575u
Sn 189.925	-1.1308u	0.9071	-1.8243u
Sr 216.596	-0.2094u	-0.5199u	-0.7339u
Ti 334.941	-0.0027u	-0.0450u	-0.0694u
Tl 190.794	-1.2557u	6.0831	1.7953
V 292.401	0.5980	0.0501	0.6107
Zn 206.200	-0.2885u	-0.0716u	-1.4255u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	-0.3236	ppb	0.3118	96.4	-54.6108	-0.32357
Al 308.215	0.0057	ppb	1.2403	21732.2	243.741	0.00571
As 188.980	-3.8541	ppb	2.3746	61.6	-0.0215	-3.85413
B 249.678	26.1221	ppb	5.4708	20.9	597.639	26.12211
Ba 389.178	-0.0621	ppb	0.4921	792.1	-19.8542	-0.06212
Be 313.042	-0.0252	ppb	0.0021	8.4	-221.479	-0.02522
Ca 370.602	0.6757	ppb	3.355	496.6	-1.997	0.67573
Cd 226.502	-0.0572	ppb	0.0813	142.3	10.9773	-0.05716
Co 228.615	0.0900	ppb	0.3723	413.6	14.7112	0.09003
Cr 267.716	-0.3416	ppb	0.1992	58.3	-4.8805	-0.34158
Cu 324.754	0.0408	ppb	0.1948	476.8	109.732	0.04085
Fe 271.441	8.1598	ppb	4.5677	56.0	16.1826	8.15980
K 766.491	-0.4416	ppb	0.5238	118.6	203.599	-0.44163
Mg 279.078	0.6979	ppb	0.8345	119.6	23.2282	0.69794
Mn 257.610	-0.1175	ppb	0.0502	42.7	45.0464	-0.11748
Mo 202.032	-0.0111	ppb	0.1783	1608.0	15.2062	-0.01109
Na 330.237	56.8110	ppb	26.5341	46.7	-0.9163	56.81097
Ni 231.604	0.4912	ppb	1.2052	245.4	2.1110	0.49117
Pb 220.353	-0.1279	ppb	1.9053	1489.5	2.2698	-0.12792
Sb 206.834	2.4314	ppb	3.6242	149.1	3.6094	2.43136
Se 196.026	-6.1785	ppb	2.2848	37.0	-2.6645	-6.17851
Sn 189.925	-0.6827	ppb	1.4198	208.0	0.2977	-0.68267
Sr 216.596	-0.4878	ppb	0.2637	54.1	5.9077	-0.48777
Ti 334.941	-0.0390	ppb	0.0337	86.6	-40.0237	-0.03899
Tl 190.794	2.2076	ppb	3.6867	167.0	1.1986	2.20755
V 292.401	0.4196	ppb	0.3200	76.3	5.8823	0.41961
Zn 206.200	-0.5952	ppb	0.7272	122.2	5.158584	-0.59520

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680-88632-a-44-b (Samp) 3/28/2013, 10:54:52 AM Rack 4, Tube 27

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	19.1293	20.1099	19.4706
Al 308.215	110437	110664	110489
As 188.980	204.429	197.185	197.282
B 249.678	19.5077u	20.1416u	16.5720u
Ba 389.178	1802.34	1801.91	1801.73
Be 313.042	14.0305	14.0668	14.0620
Ca 370.602	268539	271850	270030
Cd 226.502	51.6608	51.3893	52.2540
Co 228.615	78.4031	77.2375	78.9425
Cr 267.716	394.792	395.697	394.878
Cu 324.754	10211.4	10287.6	10421.5
Fe 271.441	328352	328721	328555
K 766.491	10387.0	10487.0	10301.4
Mg 279.078	48775.6	48841.3	48829.8
Mn 257.610	12056.2	12087.1	12093.6
Mo 202.032	18.2875	16.4640	18.8884
Na 330.237	3004.72u	2989.77u	3089.98u
Ni 231.604	153.588	152.782	153.753
Pb 220.353	5745.09	5771.01	5753.27
Sb 206.834	7.7825	19.9282	5.1496
Se 196.026	7.8441	17.9071	10.6033
Sn 189.925	256.868	256.251	249.960
Sr 216.596	482.501	483.377	480.036
Ti 334.941	2215.58	2219.25	2218.02
Tl 190.794	62.2134	72.8276	57.9310
V 292.401	368.643	369.697	368.010
Zn 206.200	25465.6	25496.2	25520.5

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	19.5699	ppb	0.4978	2.5	1366.81
Al 308.215	110530	ppb	119.243	0.1	633076
As 188.980	199.632	ppb	4.1543	2.1	109.508
B 249.678	18.7404	ppb	1.9045	10.2	229.374
Ba 389.178	1801.99	ppb	0.3170	0.0	43713.4
Be 313.042	14.0531	ppb	0.0198	0.1	27112.8
Ca 370.602	270140	ppb	1658	0.6	845581
Cd 226.502	51.7680	ppb	0.4422	0.9	2620.19
Co 228.615	78.1944	ppb	0.8714	1.1	954.527
Cr 267.716	395.122	ppb	0.4996	0.1	16641.0
Cu 324.754	10306.8	ppb	106.365	1.0	497828
Fe 271.441	328543	ppb	184.670	0.1	550658
K 766.491	10391.8	ppb	92.8901	0.9	510243
Mg 279.078	48815.5	ppb	35.0554	0.1	99286.9
Mn 257.610	12079.0	ppb	20.0001	0.2	2740217
Mo 202.032	17.8800	ppb	1.2625	7.1	115.402
Na 330.237	3028.16	ppb	54.0615	1.8	-152.029
Ni 231.604	153.375	ppb	0.5198	0.3	369.695
Pb 220.353	5756.46	ppb	13.2487	0.2	9262.93
Sb 206.834	10.9535	ppb	7.8831	72.0	22.5971
Se 196.026	12.1182	ppb	5.1997	42.9	9.3790
Sn 189.925	254.360	ppb	3.8228	1.5	193.256
Sr 216.596	481.971	ppb	1.7323	0.4	4689.22
Ti 334.941	2217.62	ppb	1.8687	0.1	565772
Tl 190.794	64.3240	ppb	7.6693	11.9	19.5190
V 292.401	368.784	ppb	0.8521	0.2	10145.0
Zn 206.200	25494.1	ppb	27.5195	0.1	38686.6

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680-88632-b-48-b (Samp) 3/28/2013, 11:00:21 AM Rack 4, Tube 28

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	1.6214	2.1163	1.9784
Al 308.215	99945.0	100358	100299
As 188.980	344.951	356.940	356.773
B 249.678	162.806	163.685	164.410
Ba 389.178	3172.98	3189.42	3179.22
Be 313.042	19.1530	19.2881	19.2255
Ca 370.602	243789	245874	243893
Cd 226.502	32.2921	31.8407	31.7814
Co 228.615	119.626	122.384	121.947
Cr 267.716	422.152	424.793	425.392
Cu 324.754	4555.99	4454.68	4501.39
Fe 271.441	524837	526574	524864
K 766.491	15735.2	15864.7	15766.6
Mg 279.078	33812.3	33979.2	33857.0
Mn 257.610	13210.7	13288.6	13226.4
Mo 202.032	37.9936	38.1595	35.9340
Na 330.237	3227.04u	3070.91u	3034.83u
Ni 231.604	304.453	302.366	302.586
Pb 220.353	3436.89	3460.34	3455.58
Sb 206.834	45.2063	36.3559	46.0748
Se 196.026	-5.9225	13.1965	14.5698
Sn 189.925	114.223	118.201	118.860
Sr 216.596	1494.49	1503.87	1505.95
Ti 334.941	1888.73	1896.87	1899.65
Tl 190.794	51.3133	42.1946u	50.8705
V 292.401	254.401	254.968	254.567
Zn 206.200	7913.25	7962.13	7931.23

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	1.9054	ppb	0.2554	13.4	92.4629
Al 308.215	100201	ppb	223.380	0.2	573940
As 188.980	352.888	ppb	6.8746	1.9	190.751
B 249.678	163.634	ppb	0.8035	0.5	1376.20
Ba 389.178	3180.54	ppb	8.3012	0.3	76947.4
Be 313.042	19.2222	ppb	0.0676	0.4	37104.5
Ca 370.602	244519	ppb	1175	0.5	746565
Cd 226.502	31.9714	ppb	0.2794	0.9	2373.10
Co 228.615	121.319	ppb	1.4825	1.2	1432.40
Cr 267.716	424.112	ppb	1.7235	0.4	17898.7
Cu 324.754	4504.02	ppb	50.7027	1.1	217718
Fe 271.441	525425	ppb	995.265	0.2	880640
K 766.491	15788.8	ppb	67.5844	0.4	775124
Mg 279.078	33882.8	ppb	86.3957	0.3	68891.9
Mn 257.610	13241.9	ppb	41.2120	0.3	3004365
Mo 202.032	37.3623	ppb	1.2398	3.3	232.568
Na 330.237	3110.93	ppb	102.164	3.3	-74.6219
Ni 231.604	303.135	ppb	1.1468	0.4	727.360
Pb 220.353	3450.94	ppb	12.3941	0.4	5554.33
Sb 206.834	42.5457	ppb	5.3780	12.6	57.1005
Se 196.026	7.2813	ppb	11.4554	157.3	7.9645
Sn 189.925	117.094	ppb	2.5087	2.1	89.4432
Sr 216.596	1501.44	ppb	6.1073	0.4	14357.0
Ti 334.941	1895.08	ppb	5.6746	0.3	483473
Tl 190.794	48.1261	ppb	5.1416	10.7	0.9828
V 292.401	254.645	ppb	0.2913	0.1	6994.81
Zn 206.200	7935.54	ppb	24.7203	0.3	12044.1



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680-88632-a-50-b (Samp) 3/28/2013, 11:05:49 AM Rack 4, Tube 29

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	2.0886	1.3495	1.3521
Al 308.215	119009	118913	119060
As 188.980	227.029	231.886	228.770
B 249.678	253.190	252.882	252.477
Ba 389.178	3936.82	3938.59	3940.96
Be 313.042	24.9289	24.9740	24.9775
Ca 370.602	280022	280315	280441
Cd 226.502	45.5272	44.5684	44.6764
Co 228.615	130.390	131.058	128.781
Cr 267.716	414.538	415.428	415.191
Cu 324.754	2272.73	2287.82	2282.78
Fe 271.441	375469	375798	376041
K 766.491	17585.4	17557.8	17569.1
Mg 279.078	40781.8	40756.3	40763.8
Mn 257.610	16728.0	16799.3	16726.5
Mo 202.032	32.4579	30.9876	32.8897
Na 330.237	3790.97	3947.80	3983.60
Ni 231.604	229.740	227.331	228.135
Pb 220.353	4365.61	4388.43	4374.03
Sb 206.834	24.2008	19.0003	12.1016
Se 196.026	20.0544	11.2867	17.1275
Sn 189.925	85.9502	79.9855	83.0611
Sr 216.596	1308.87	1314.29	1313.41
Ti 334.941	2257.33	2260.80	2262.67
Tl 190.794	63.0792	57.2929	62.9008
V 292.401	313.557	312.990	312.426
Zn 206.200	8442.66	8432.54	8430.64

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	1.5967	ppb	0.4260	26.7	94.8352
Al 308.215	118994	ppb	74.9413	0.1	681541
As 188.980	229.228	ppb	2.4610	1.1	125.214
B 249.678	252.850	ppb	0.3576	0.1	2330.06
Ba 389.178	3938.79	ppb	2.0773	0.1	94889.8
Be 313.042	24.9601	ppb	0.0271	0.1	48226.0
Ca 370.602	280259	ppb	214.7	0.1	874449
Cd 226.502	44.9240	ppb	0.5252	1.2	2487.06
Co 228.615	130.076	ppb	1.1705	0.9	1546.93
Cr 267.716	415.052	ppb	0.4608	0.1	17502.5
Cu 324.754	2281.11	ppb	7.6818	0.3	110349
Fe 271.441	375769	ppb	287.184	0.1	629817
K 766.491	17570.7	ppb	13.8843	0.1	862578
Mg 279.078	40767.3	ppb	13.0966	0.0	82828.1
Mn 257.610	16751.3	ppb	41.5628	0.2	3799767
Mo 202.032	32.1117	ppb	0.9972	3.1	205.250
Na 330.237	3907.45	ppb	102.459	2.6	3.6875
Ni 231.604	228.402	ppb	1.2264	0.5	547.920
Pb 220.353	4376.02	ppb	11.5372	0.3	7042.84
Sb 206.834	18.4342	ppb	6.0694	32.9	30.8197
Se 196.026	16.1562	ppb	4.4638	27.6	12.4281
Sn 189.925	82.9989	ppb	2.9828	3.6	63.6768
Sr 216.596	1312.19	ppb	2.9093	0.2	12525.3
Ti 334.941	2260.26	ppb	2.7108	0.1	576621
Tl 190.794	61.0910	ppb	3.2904	5.4	11.2492
V 292.401	312.991	ppb	0.5654	0.2	8606.68
Zn 206.200	8435.28	ppb	6.4638	0.1	12802.7

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mb 680-270887/1-a (Samp) 3/28/2013, 11:11:28 AM Rack 4, Tube 30

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.1037u	0.3884	-0.4935u
Al 308.215	4.1654	5.0360	6.2302
As 188.980	-2.3330u	-2.5506u	1.0157
B 249.678	-20.9383u	-23.0546u	-23.1857u
Ba 389.178	-0.8757u	-0.2587u	-0.1135u
Be 313.042	-0.0384u	-0.0407u	-0.0233u
Ca 370.602	16.91	13.46	15.37
Cd 226.502	-0.0283u	0.0392	-0.1203u
Co 228.615	-1.0224u	-0.1584u	0.0561
Cr 267.716	0.4155	0.0974	-0.0543u
Cu 324.754	-0.3092u	0.1759	-0.0212u
Fe 271.441	28.8270	23.0745	23.8346
K 766.491	9.0200	10.0150	10.4624
Mg 279.078	10.6101	7.5844	4.9490
Mn 257.610	0.0800	0.1972	0.1642
Mo 202.032	-0.9837u	-0.6648u	-0.4166u
Na 330.237	-51.7276u	-4.1110u	258.904
Ni 231.604	-0.1476u	1.5962	0.9478
Pb 220.353	-0.1610u	-0.2686u	-1.7326u
Sb 206.834	-4.4863u	-4.5563u	-6.0675u
Se 196.026	2.8534	-3.5279u	7.0006
Sn 189.925	11.9978	8.0159	15.2143
Sr 216.596	0.0201	-0.3507u	-0.7133u
Ti 334.941	1.6792	1.3153	1.1879
Tl 190.794	0.7429	-6.0384u	1.3923
V 292.401	0.2782	0.2611	0.2337
Zn 206.200	1.2858	-0.1581u	-0.0219u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0696	ppb	0.4419	635.1	-36.8625
Al 308.215	5.1439	ppb	1.0366	20.2	273.092
As 188.980	-1.2893	ppb	1.9991	155.1	1.3711
B 249.678	-22.3929	ppb	1.2614	5.6	153.271
Ba 389.178	-0.4160	ppb	0.4047	97.3	-28.2841
Be 313.042	-0.0341	ppb	0.0095	27.7	-238.606
Ca 370.602	15.25	ppb	1.726	11.3	44.08
Cd 226.502	-0.0364	ppb	0.0800	219.6	11.7494
Co 228.615	-0.3749	ppb	0.5709	152.3	9.4403
Cr 267.716	0.1529	ppb	0.2398	156.9	15.7973
Cu 324.754	-0.0515	ppb	0.2440	474.1	105.267
Fe 271.441	25.2454	ppb	3.1249	12.4	44.7389
K 766.491	9.8325	ppb	0.7383	7.5	707.840
Mg 279.078	7.7145	ppb	2.8328	36.7	37.5163
Mn 257.610	0.1471	ppb	0.0604	41.1	105.119
Mo 202.032	-0.6883	ppb	0.2843	41.3	10.8334
Na 330.237	67.6883	ppb	167.300	247.2	-0.3876
Ni 231.604	0.7988	ppb	0.8814	110.3	2.8384
Pb 220.353	-0.7207	ppb	0.8780	121.8	1.3162
Sb 206.834	-5.0367	ppb	0.8934	17.7	-3.5109
Se 196.026	2.1087	ppb	5.3036	251.5	1.1339
Sn 189.925	11.7427	ppb	3.6060	30.7	9.6938
Sr 216.596	-0.3480	ppb	0.3667	105.4	7.2413
Ti 334.941	1.3941	ppb	0.2549	18.3	325.503
Tl 190.794	-1.3011	ppb	4.1155	316.3	-1.1182
V 292.401	0.2576	ppb	0.0224	8.7	1.5323
Zn 206.200	0.3686	ppb	0.7972	216.3	2.3198

ics 680-270887/2-a (Samp) 3/28/2013, 11:16:57 AM Rack 4, Tube 31  
Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	50.7893	50.2552	50.6375
Al 308.215	5105.08	5127.73	5114.87
As 188.980	102.805	115.095	110.489
B 249.678	178.353	180.346	181.310
Ba 389.178	104.693	105.487	106.096
Be 313.042	52.6603	52.8472	52.8986
Ca 370.602	5069	5094	5075
Cd 226.502	52.9361	53.1013	53.1534
Co 228.615	52.6067	53.6527	53.0830
Cr 267.716	104.783	105.258	105.072
Cu 324.754	105.954	103.974	106.371
Fe 271.441	5292.48	5299.35	5286.84
K 766.491	5136.82	5145.09	5146.81
Mg 279.078	5171.41	5182.62	5205.04
Mn 257.610	537.888	539.118	539.418
Mo 202.032	103.614	103.837	102.352
Na 330.237	4935.77	4938.03	4868.01
Ni 231.604	105.777	102.913	103.461
Pb 220.353	50.0280	47.6840	50.4853
Sb 206.834	50.1015	54.6619	46.4232
Se 196.026	107.252	104.389	103.575
Sn 189.925	221.373	220.501	218.410
Sr 216.596	105.182	104.301	103.228
Ti 334.941	104.891	105.328	105.349
Tl 190.794	37.8244	43.1997	42.1589
V 292.401	105.599	105.700	106.072
Zn 206.200	103.995	101.402	103.983

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	50.5607	ppb	0.2752	0.5	3500.30
Al 308.215	5115.89	ppb	11.3572	0.2	29546.4
As 188.980	109.463	ppb	6.2089	5.7	61.4658
B 249.678	180.003	ppb	1.5081	0.8	2002.21
Ba 389.178	105.425	ppb	0.7037	0.7	2526.71
Be 313.042	52.8020	ppb	0.1254	0.2	102028
Ca 370.602	5079	ppb	13.23	0.3	15989
Cd 226.502	53.0636	ppb	0.1134	0.2	1914.33
Co 228.615	53.1141	ppb	0.5237	1.0	620.428
Cr 267.716	105.038	ppb	0.2393	0.2	4402.54
Cu 324.754	105.433	ppb	1.2803	1.2	5201.49
Fe 271.441	5292.89	ppb	6.2647	0.1	8882.54
K 766.491	5142.91	ppb	5.3396	0.1	252634
Mg 279.078	5186.36	ppb	17.1240	0.3	10576.3
Mn 257.610	538.808	ppb	0.8109	0.2	122292
Mo 202.032	103.268	ppb	0.8009	0.8	681.572
Na 330.237	4913.94	ppb	39.7909	0.8	242.596
Ni 231.604	104.050	ppb	1.5204	1.5	247.001
Pb 220.353	49.3991	ppb	1.5028	3.0	81.7676
Sb 206.834	50.3955	ppb	4.1272	8.2	49.6297
Se 196.026	105.072	ppb	1.9312	1.8	48.4628
Sn 189.925	220.095	ppb	1.5230	0.7	167.253
Sr 216.596	104.237	ppb	0.9785	0.9	989.828
Ti 334.941	105.189	ppb	0.2589	0.2	26818.2
Tl 190.794	41.0610	ppb	2.8509	6.9	26.1676
V 292.401	105.790	ppb	0.2490	0.2	2879.05
Zn 206.200	103.127	ppb	1.4937	1.4	158.962

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ics 680-270887/3-a (Samp) 3/28/2013, 11:22:25 AM Rack 4, Tube 32

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	215.921	217.191	219.071
Al 308.215	2061.05	2068.10	2068.25
As 188.980	220.466	210.857	217.863
B 249.678	391.731	397.036	395.066
Ba 389.178	206.453	206.512	207.576
Be 313.042	211.910	212.413	212.193
Ca 370.602	20565	20590	20592
Cd 226.502	206.236	206.690	206.388
Co 228.615	204.498	207.672	210.417
Cr 267.716	207.597	208.801	207.874
Cu 324.754	209.145	210.254	212.337
Fe 271.441	21718.3	21755.3	21734.6
K 766.491	20398.9	20388.0	20412.0
Mg 279.078	20878.8	20913.8	20921.6
Mn 257.610	2161.03	2165.74	2162.97
Mo 202.032	205.822	207.692	206.729
Na 330.237	18223.8	18167.2	18269.6
Ni 231.604	211.234	207.032	206.249
Pb 220.353	207.499	207.268	209.578
Sb 206.834	193.389	201.247	197.651
Se 196.026	213.166	214.137	208.170
Sn 189.925	216.927	226.397	222.610
Sr 216.596	220.500	220.315	220.762
Ti 334.941	210.467	211.252	210.774
Tl 190.794	46.4061	42.4480	50.5312
V 292.401	209.283	210.613	209.827
Zn 206.200	194.832	193.141	194.532

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	217.394	ppb	1.5845	0.7	15163.3
Al 308.215	2065.80	ppb	4.1132	0.2	12095.1
As 188.980	216.396	ppb	4.9700	2.3	119.463
B 249.678	394.611	ppb	2.6816	0.7	3952.75
Ba 389.178	206.847	ppb	0.6320	0.3	5020.77
Be 313.042	212.172	ppb	0.2522	0.1	410535
Ca 370.602	20583	ppb	14.93	0.1	64734
Cd 226.502	206.438	ppb	0.2307	0.1	7412.63
Co 228.615	207.529	ppb	2.9621	1.4	2385.49
Cr 267.716	208.091	ppb	0.6308	0.3	8718.35
Cu 324.754	210.579	ppb	1.6207	0.8	10284.6
Fe 271.441	21736.1	ppb	18.5173	0.1	36465.9
K 766.491	20399.6	ppb	12.0166	0.1	1001417
Mg 279.078	20904.7	ppb	22.7979	0.1	42569.7
Mn 257.610	2163.25	ppb	2.3677	0.1	490775
Mo 202.032	206.748	ppb	0.9353	0.5	1348.74
Na 330.237	18220.2	ppb	51.2892	0.3	911.926
Ni 231.604	208.172	ppb	2.6807	1.3	493.426
Pb 220.353	208.115	ppb	1.2727	0.6	337.265
Sb 206.834	197.429	ppb	3.9338	2.0	191.244
Se 196.026	211.824	ppb	3.2018	1.5	97.8075
Sn 189.925	221.978	ppb	4.7662	2.1	168.687
Sr 216.596	220.526	ppb	0.2247	0.1	2087.55
Ti 334.941	210.831	ppb	0.3956	0.2	53825.1
Tl 190.794	46.4618	ppb	4.0419	8.7	27.6605
V 292.401	209.908	ppb	0.6690	0.3	5717.67
Zn 206.200	194.168	ppb	0.9018	0.5	296.909

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680-88612-a-18-b (Samp) 3/28/2013, 11:27:53 AM Rack 4, Tube 33

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.4604u	-1.2736u	-1.2914u
Al 308.215	55734.6	55913.0	56060.2
As 188.980	7.5236	4.3905	-2.4358u
B 249.678	-22.3079u	-22.9017u	-24.5505u
Ba 389.178	174.396	174.920	175.094
Be 313.042	0.6573	0.6721	0.6646
Ca 370.602	3035	3040	3055
Cd 226.502	-0.8606	-0.6884	-0.7853
Co 228.615	3.0717	3.2893	3.0910
Cr 267.716	80.9387	81.0135	81.5582
Cu 324.754	22.5849	23.0203	23.0302
Fe 271.441	63381.6	63497.6	63691.1
K 766.491	1882.16	1884.83	1890.09
Mg 279.078	2345.02	2351.14	2371.87
Mn 257.610	414.609	415.434	416.663
Mo 202.032	0.8195	1.6786	1.4568
Na 330.237	269.421u	318.171u	191.067u
Ni 231.604	9.9183	12.2285	11.6797
Pb 220.353	42.0134	44.2598	42.3068
Sb 206.834	0.5525	-1.0600	0.4052
Se 196.026	2.4614	1.7017	7.3707
Sn 189.925	15.1540	11.5739	16.4451
Sr 216.596	17.0404	16.7685	16.4891
Ti 334.941	549.430	554.869	554.740
Tl 190.794	4.2628	1.6662u	-0.8430u
V 292.401	170.855	171.499	171.552
Zn 206.200	33.5961	32.4015	34.0500

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.0084	ppb	0.4747	47.1	-100.460
Al 308.215	55902.6	ppb	163.047	0.3	320310
As 188.980	3.1594	ppb	5.0926	161.2	3.2397
B 249.678	-23.2534	ppb	1.1619	5.0	87.2288
Ba 389.178	174.803	ppb	0.3629	0.2	4264.29
Be 313.042	0.6646	ppb	0.0074	1.1	1112.59
Ca 370.602	3043	ppb	10.07	0.3	4681
Cd 226.502	-0.7781	ppb	0.0863	11.1	133.099
Co 228.615	3.1507	ppb	0.1204	3.8	62.0140
Cr 267.716	81.1701	ppb	0.3381	0.4	3417.31
Cu 324.754	22.8784	ppb	0.2543	1.1	1228.96
Fe 271.441	63523.4	ppb	156.329	0.2	106470
K 766.491	1885.69	ppb	4.0329	0.2	92773.1
Mg 279.078	2356.01	ppb	14.0721	0.6	4809.08
Mn 257.610	415.569	ppb	1.0338	0.2	94488.6
Mo 202.032	1.3183	ppb	0.4460	33.8	20.6585
Na 330.237	259.553	ppb	64.1242	24.7	-13.9582
Ni 231.604	11.2755	ppb	1.2070	10.7	28.8106
Pb 220.353	42.8600	ppb	1.2211	2.8	70.2399
Sb 206.834	-0.0341	ppb	0.8915	2613.5	3.4011
Se 196.026	3.8446	ppb	3.0772	80.0	2.1977
Sn 189.925	14.3910	ppb	2.5236	17.5	11.6963
Sr 216.596	16.7660	ppb	0.2756	1.6	191.308
Ti 334.941	553.013	ppb	3.1036	0.6	141025
Tl 190.794	1.6954	ppb	2.5530	150.6	-1.6428
V 292.401	171.302	ppb	0.3878	0.2	4709.20
Zn 206.200	33.3492	ppb	0.8515	2.6	52.1176

680-88612-a-18-c ms (Samp) 3/28/2013, 11:33:22 AM Rack 4, Tube 34

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	46.7058	46.8662	46.2262
Al 308.215	76664.1	76867.8	76574.6
As 188.980	101.712	94.8455	93.5649
B 249.678	117.493	120.011	118.899
Ba 389.178	287.695	287.850	286.998
Be 313.042	49.1169	49.1443	49.0086
Ca 370.602	7725	7715	7709
Cd 226.502	47.0320	47.3560	47.1519
Co 228.615	51.4217	51.6794	51.0339
Cr 267.716	204.912	204.741	204.276
Cu 324.754	125.775	125.802	125.697
Fe 271.441	90619.9	90534.8	90458.4
K 766.491	6867.77	6858.16	6852.71
Mg 279.078	7190.91	7219.21	7176.32
Mn 257.610	895.694	895.367	893.460
Mo 202.032	86.6587	87.9361	88.0194
Na 330.237	4515.28	4717.10	4668.63
Ni 231.604	104.983	105.969	107.110
Pb 220.353	95.2725	94.3825	96.3611
Sb 206.834	12.2685	14.3501	20.5189
Se 196.026	81.2290	87.5419	103.394
Sn 189.925	195.955	196.948	202.559
Sr 216.596	113.741	113.754	113.890
Ti 334.941	645.326	643.708	641.516
Tl 190.794	47.5708	42.7514	42.3282
V 292.401	367.385	367.190	366.978
Zn 206.200	136.611	138.706	136.355

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	46.5994	ppb	0.3330	0.7	3226.02
Al 308.215	76702.2	ppb	150.220	0.2	439405
As 188.980	96.7074	ppb	4.3809	4.5	53.8001
B 249.678	118.801	ppb	1.2621	1.1	1363.54
Ba 389.178	287.514	ppb	0.4538	0.2	7014.85
Be 313.042	49.0899	ppb	0.0718	0.1	94840.9
Ca 370.602	7716	ppb	7.987	0.1	17558
Cd 226.502	47.1800	ppb	0.1638	0.3	1903.31
Co 228.615	51.3783	ppb	0.3249	0.6	612.378
Cr 267.716	204.643	ppb	0.3293	0.2	8584.76
Cu 324.754	125.758	ppb	0.0548	0.0	6204.31
Fe 271.441	90537.7	ppb	80.7918	0.1	151755
K 766.491	6859.55	ppb	7.6241	0.1	336884
Mg 279.078	7195.48	ppb	21.8060	0.3	14657.3
Mn 257.610	894.840	ppb	1.2067	0.1	203266
Mo 202.032	87.5381	ppb	0.7627	0.9	575.764
Na 330.237	4633.67	ppb	105.352	2.3	198.685
Ni 231.604	106.020	ppb	1.0644	1.0	253.278
Pb 220.353	95.3387	ppb	0.9910	1.0	154.229
Sb 206.834	15.7125	ppb	4.2906	27.3	19.4748
Se 196.026	90.7217	ppb	11.4196	12.6	42.1996
Sn 189.925	198.487	ppb	3.5609	1.8	150.913
Sr 216.596	113.795	ppb	0.0824	0.1	1111.16
Ti 334.941	643.517	ppb	1.9126	0.3	164129
Tl 190.794	44.2168	ppb	2.9124	6.6	25.0979
V 292.401	367.184	ppb	0.2033	0.1	10073.7
Zn 206.200	137.224	ppb	1.2899	0.9	219.387

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**680-88612-a-18-d msd (Samp) 3/28/2013, 11:38:50 AM Rack 4, Tube 35****Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	42.3766	43.2831	42.1829
Al 308.215	69218.4	69240.3	69182.1
As 188.980	85.2152	94.9178	84.7379
B 249.678	110.018	109.911	109.897
Ba 389.178	266.190	264.576	265.816
Be 313.042	45.4899	45.5605	45.5432
Ca 370.602	7136	7130	7164
Cd 226.502	44.0240	44.1717	44.0308
Co 228.615	49.1733	48.6030	46.8280
Cr 267.716	189.963	190.651	190.460
Cu 324.754	115.100	116.595	117.108
Fe 271.441	90027.5	89817.2	89630.8
K 766.491	6318.37	6306.76	6300.13
Mg 279.078	6647.50	6633.48	6658.79
Mn 257.610	896.034	894.108	894.311
Mo 202.032	82.1891	82.8141	83.0015
Na 330.237	4525.75	4839.43	4509.67
Ni 231.604	98.3731	97.6241	98.6494
Pb 220.353	84.8411	86.3337	90.0536
Sb 206.834	17.2908	20.6928	18.1796
Se 196.026	75.6049	79.3867	86.7409
Sn 189.925	183.982	182.434	181.978
Sr 216.596	106.056	104.757	105.799
Ti 334.941	587.607	587.602	588.856
Tl 190.794	28.7796	32.8506	40.9337
V 292.401	356.794	356.312	356.074
Zn 206.200	123.538	127.232	124.664

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	42.6142	ppb	0.5873	1.4	2947.75
Al 308.215	69213.6	ppb	29.3933	0.0	396529
As 188.980	88.2903	ppb	5.7446	6.5	49.2337
B 249.678	109.942	ppb	0.0662	0.1	1283.05
Ba 389.178	265.527	ppb	0.8446	0.3	6486.19
Be 313.042	45.5312	ppb	0.0368	0.1	87951.8
Ca 370.602	7144	ppb	18.32	0.3	15757
Cd 226.502	44.0755	ppb	0.0834	0.2	1791.14
Co 228.615	48.2014	ppb	1.2231	2.5	574.779
Cr 267.716	190.358	ppb	0.3550	0.2	7987.39
Cu 324.754	116.268	ppb	1.0431	0.9	5745.88
Fe 271.441	89825.2	ppb	198.518	0.2	150561
K 766.491	6308.42	ppb	9.2309	0.1	309836
Mg 279.078	6646.59	ppb	12.6787	0.2	13541.4
Mn 257.610	894.818	ppb	1.0578	0.1	203256
Mo 202.032	82.6682	ppb	0.4254	0.5	544.373
Na 330.237	4624.95	ppb	185.917	4.0	198.965
Ni 231.604	98.2156	ppb	0.5305	0.5	234.814
Pb 220.353	87.0762	ppb	2.6844	3.1	141.105
Sb 206.834	18.7211	ppb	1.7645	9.4	22.2366
Se 196.026	80.5775	ppb	5.6627	7.0	37.5483
Sn 189.925	182.798	ppb	1.0504	0.6	139.048
Sr 216.596	105.538	ppb	0.6884	0.7	1033.37
Ti 334.941	588.021	ppb	0.7224	0.1	149973
Tl 190.794	34.1879	ppb	6.1864	18.1	18.4991
V 292.401	356.393	ppb	0.3670	0.1	9778.00
Zn 206.200	125.145	ppb	1.8936	1.5	192.096

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200-15653-a-1-a (Samp) 3/28/2013, 11:44:18 AM Rack 4, Tube 36

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.6379u	-0.4021u	-0.7644u
Al 308.215	1394.65	1397.09	1399.98
As 188.980	7.0930	5.1549	7.2356
B 249.678	173.979	175.391	175.234
Ba 389.178	56.5108	54.5373	54.9841
Be 313.042	0.1563u	0.1678u	0.1620u
Ca 370.602	50139	50221	50231
Cd 226.502	0.6253	0.9134	0.6224
Co 228.615	7.4231	7.3452	7.5064
Cr 267.716	472.108	473.868	473.194
Cu 324.754	396.087	396.800	397.849
Fe 271.441	102289	102249	102231
K 766.491	26511.9	26505.2	26634.9
Mg 279.078	37223.8	37275.5	37261.8
Mn 257.610	489.761	490.079	490.262
Mo 202.032	13.1764	12.4357	13.0153
Na 330.237	3038220x	3029220x	3033032x
Ni 231.604	261.094	262.151	264.039
Pb 220.353	34.5390	38.6871	33.3593
Sb 206.834	16.9243	16.6625	11.4682
Se 196.026	16.6327	18.6290	22.5303
Sn 189.925	21.9546	26.7166	21.7555
Sr 216.596	155.998	156.715	155.355
Ti 334.941	48.3212	48.4507	48.5977
Tl 190.794	0.0834u	-5.2256u	-2.7071u
V 292.401	11.3051	10.9406	11.4724
Zn 206.200	13731.0	13750.6	13737.3

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.6015b	ppb	0.1838	30.6	-79.5284
Al 308.215	1397.24b	ppb	2.6704	0.2	8245.08
As 188.980	6.4945b	ppb	1.1623	17.9	5.0467
B 249.678	174.868b	ppb	0.7740	0.4	1866.35
Ba 389.178	55.3440b	ppb	1.0348	1.9	1556.58
Be 313.042	0.1620b	ppb	0.0057	3.5	-214.383
Ca 370.602	50197b	ppb	50.34	0.1	153585
Cd 226.502	0.7203b	ppb	0.1672	23.2	260.651
Co 228.615	7.4249b	ppb	0.0807	1.1	97.4879
Cr 267.716	473.057b	ppb	0.8879	0.2	19855.9
Cu 324.754	396.912b	ppb	0.8862	0.2	19300.9
Fe 271.441	102256b	ppb	29.6867	0.0	171387
K 766.491	26550.7b	ppb	73.0268	0.3	1303304
Mg 279.078	37253.7b	ppb	26.7911	0.1	75908.9
Mn 257.610	490.034b	ppb	0.2536	0.1	111654
Mo 202.032	12.8758b	ppb	0.3896	3.0	93.8120
Na 330.237	3033491xb	ppb	4517.51	0.1	153907
Ni 231.604	262.428b	ppb	1.4917	0.6	623.194
Pb 220.353	35.5285b	ppb	2.7983	7.9	59.6687
Sb 206.834	15.0183b	ppb	3.0773	20.5	22.1921
Se 196.026	19.2640b	ppb	2.9996	15.6	9.3878
Sn 189.925	23.4756b	ppb	2.8086	12.0	19.5803
Sr 216.596	156.023b	ppb	0.6803	0.4	1516.90
Ti 334.941	48.4565b	ppb	0.1383	0.3	12272.4
Tl 190.794	-2.6164b	ppb	2.6556	101.5	-5.9362
V 292.401	11.2394b	ppb	0.2719	2.4	248.127
Zn 206.200	13739.7b	ppb	9.9997	0.1	20849.3



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Cont Calib Verif (CCV) 3/28/2013, 11:49:46 AM Rack 4, Tube 37  
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	502.260	500.129	511.335
Al 308.215	5025.02	5008.53	5044.32
As 188.980	464.097	482.308	486.164
B 249.678	2526.34	2546.00	2581.29
Ba 389.178	4942.22	4941.95	4970.99
Be 313.042	489.392	490.289	492.333
Ca 370.602	4949	4940	4965
Cd 226.502	495.832	494.619	498.159
Co 228.615	499.009	498.647	501.574
Cr 267.716	4900.31	4900.32	4930.97
Cu 324.754	4950.57	4939.94	5057.48
Fe 271.441	5000.57	4988.40	5025.45
K 766.491	10051.8	10034.5	9704.05
Mg 279.078	4964.93	4963.31	4993.86
Mn 257.610	5012.10	5012.68	5032.92
Mo 202.032	485.938	486.939	488.809
Na 330.237	7315.17	7503.97	7556.95
Ni 231.604	2480.82	2491.81	2504.09
Pb 220.353	492.010	498.389	496.181
Sb 206.834	916.891	918.831	928.040
Se 196.026	4879.80	4890.19	4922.53
Sn 189.925	4966.56	5005.21	5037.34
Sr 216.596	2442.51	2446.30	2458.27
Ti 334.941	492.081	492.174	495.358
Tl 190.794	4963.06	4955.50	4964.91
V 292.401	4950.54	4933.57	4968.70
Zn 206.200	2492.03	2491.91	2499.20

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	504.575	ppb	5.9505	1.2	35180.3	100.91492
Al 308.215	5025.95	ppb	17.9147	0.4	28996.3	100.51909
As 188.980	477.523	ppb	11.7860	2.5	261.202	95.50465
B 249.678	2551.21	ppb	27.8429	1.1	23720.6	102.04829
Ba 389.178	4951.72	ppb	16.6902	0.3	118499	99.03445
Be 313.042	490.671	ppb	1.5071	0.3	949461	98.13429
Ca 370.602	4951	ppb	12.61	0.3	15841	99.01957
Cd 226.502	496.203	ppb	1.7987	0.4	17688.7	99.24064
Co 228.615	499.743	ppb	1.5952	0.3	5737.91	99.94868
Cr 267.716	4910.53	ppb	17.6987	0.4	205267	98.21062
Cu 324.754	4982.66	ppb	65.0122	1.3	240645	99.65321
Fe 271.441	5004.81	ppb	18.8824	0.4	8511.98	100.09618
K 766.491	9930.13	ppb	195.980	2.0	487585	99.30132
Mg 279.078	4974.03	ppb	17.1905	0.3	10074.6	99.48065
Mn 257.610	5019.23	ppb	11.8538	0.2	1138256	100.38465
Mo 202.032	487.229	ppb	1.4575	0.3	3152.34	97.44578
Na 330.237	7458.70	ppb	127.089	1.7	351.375	99.44929
Ni 231.604	2492.24	ppb	11.6439	0.5	5892.10	99.68957
Pb 220.353	495.527	ppb	3.2393	0.7	799.597	99.10538
Sb 206.834	921.254	ppb	5.9562	0.6	926.036	92.12540
Se 196.026	4897.50	ppb	22.2844	0.5	2246.01	97.95009
Sn 189.925	5003.04	ppb	35.4398	0.7	3784.11	100.06072
Sr 216.596	2449.03	ppb	8.2271	0.3	23027.2	97.96117
Ti 334.941	493.204	ppb	1.8657	0.4	125773	98.64088
Tl 190.794	4961.16	ppb	4.9840	0.1	3271.14	99.22318
V 292.401	4950.94	ppb	17.5678	0.4	135780	99.01882
Zn 206.200	2494.38	ppb	4.1774	0.2	3772.86	99.77525

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Cont Calib Blank (CCB) 3/28/2013, 11:55:15 AM Rack 4, Tube 38

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.5806u	-1.7878u	-0.8841u
Al 308.215	1.3968	-0.1327u	-0.0097u
As 188.980	-4.7115u	-1.0915u	-4.3118u
B 249.678	34.1382	28.1891	22.8341
Ba 389.178	-0.0177u	-0.1547u	-0.8741u
Be 313.042	-0.0382u	-0.0370u	-0.0326u
Ca 370.602	-1.447u	4.528	0.9848
Cd 226.502	-0.1508u	-0.1727u	-0.0110u
Co 228.615	-0.0615u	-0.4425u	-0.3406u
Cr 267.716	0.0442	-0.1143u	-0.1447u
Cu 324.754	-0.2877u	-0.2973u	-0.4921u
Fe 271.441	3.1771	-4.4130u	2.2964
K 766.491	-0.4573u	-1.5919u	-0.6927u
Mg 279.078	0.5447	5.8129	-1.0356u
Mn 257.610	-0.1777u	-0.1418u	-0.1392u
Mo 202.032	-0.1568u	0.0638	0.2869
Na 330.237	-36.5521u	-148.810u	160.397
Ni 231.604	-0.4561u	0.2131	-1.3844u
Pb 220.353	-1.5196u	-1.3778u	2.9641
Sb 206.834	6.1261	-0.5409u	4.0564
Se 196.026	10.2189	2.3202	-7.2191u
Sn 189.925	-2.2473u	1.2280	-0.6955u
Sr 216.596	-0.5218u	0.8346	-0.2238u
Ti 334.941	-0.0286u	-0.1133u	-0.0931u
Tl 190.794	2.1248	5.6189	0.9010
V 292.401	0.1882	-0.1179u	0.0044
Zn 206.200	0.6955	-0.1169u	-0.1613u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	-1.0841	ppb	0.6280	57.9	-107.782	-1.08414
Al 308.215	0.4181	ppb	0.8498	203.2	246.136	0.41814
As 188.980	-3.3716	ppb	1.9847	58.9	0.2404	-3.37158
B 249.678	28.3871	ppb	5.6547	19.9	618.388	28.38711
Ba 389.178	-0.3488	ppb	0.4600	131.9	-26.7176	-0.34882
Be 313.042	-0.0359	ppb	0.0029	8.1	-242.214	-0.03592
Ca 370.602	1.355	ppb	3.005	221.7	0.4910	1.35526
Cd 226.502	-0.1115	ppb	0.0877	78.7	9.0340	-0.11151
Co 228.615	-0.2815	ppb	0.1972	70.1	10.4547	-0.28153
Cr 267.716	-0.0716	ppb	0.1014	141.6	6.4066	-0.07161
Cu 324.754	-0.3590	ppb	0.1153	32.1	90.4333	-0.35904
Fe 271.441	0.3535	ppb	4.1513	1174.3	3.0604	0.35351
K 766.491	-0.9140	ppb	0.5988	65.5	180.417	-0.91399
Mg 279.078	1.7740	ppb	3.5860	202.1	25.4196	1.77400
Mn 257.610	-0.1529	ppb	0.0215	14.1	37.0069	-0.15290
Mo 202.032	0.0646	ppb	0.2219	343.3	15.6958	0.06462
Na 330.237	-8.3216	ppb	156.524	1880.9	-4.2247	-8.32165
Ni 231.604	-0.5425	ppb	0.8023	147.9	-0.3324	-0.54247
Pb 220.353	0.0222	ppb	2.5487	11470.8	2.5112	0.02222
Sb 206.834	3.2139	ppb	3.4124	106.2	4.3542	3.21386
Se 196.026	1.7733	ppb	8.7318	492.4	0.9801	1.77332
Sn 189.925	-0.5716	ppb	1.7410	304.6	0.3817	-0.57159
Sr 216.596	0.0297	ppb	0.7128	2402.3	10.7708	0.02967
Ti 334.941	-0.0783	ppb	0.0442	56.5	-50.0431	-0.07831
Tl 190.794	2.8816	ppb	2.4483	85.0	1.6434	2.88158
V 292.401	0.0249	ppb	0.1540	619.1	-5.0203	0.02488
Zn 206.200	0.1391	ppb	0.4824	346.8	2.9723	0.13909

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**200-15653-a-1-aSD^5 (Samp) 3/28/2013, 12:00:44 PM Rack 4, Tube 39****Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.1179u	-0.7308u	-0.7495u
Al 308.215	294.420	295.320	293.125
As 188.980	-7.4201u	2.2143	-0.6221u
B 249.678	29.3851	27.8330	27.5102
Ba 389.178	11.8034	11.5586	11.1692
Be 313.042	-0.0018u	0.0044u	-0.0046u
Ca 370.602	10642	10637	10697
Cd 226.502	0.2452	-0.1256	-0.1673
Co 228.615	1.0118	1.9164	1.8747
Cr 267.716	100.861	100.788	102.026
Cu 324.754	82.5904	82.3432	82.7008
Fe 271.441	22076.6	21959.7	22084.1
K 766.491	3990.63	3978.25	4004.75
Mg 279.078	7926.51	7928.43	7968.43
Mn 257.610	105.529	105.325	105.797
Mo 202.032	1.2753	3.1614	1.7877
Na 330.237	646251x	644648x	647421x
Ni 231.604	51.8392	54.0783	59.4701
Pb 220.353	7.7361	3.1876	3.1378
Sb 206.834	7.1036	1.1188	0.6507
Se 196.026	7.9012	5.1041	1.6947
Sn 189.925	8.0134	1.9742	2.7489
Sr 216.596	31.7588	32.1806	32.1180
Ti 334.941	9.9916	9.9971	10.0868
Tl 190.794	0.8092u	-1.0980u	-0.3655u
V 292.401	2.3412	2.2554	2.7672
Zn 206.200	2894.61	2889.24	2895.34

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.5327b	ppb	0.3594	67.5	-70.3856
Al 308.215	294.288b	ppb	1.1032	0.4	1928.96
As 188.980	-1.9427b	ppb	4.9511	254.9	0.8969
B 249.678	28.2428b	ppb	1.0024	3.5	596.876
Ba 389.178	11.5104b	ppb	0.3198	2.8	310.845
Be 313.042	-0.0007b	ppb	0.0046	678.0	-249.638
Ca 370.602	10659b	ppb	33.56	0.3	32582
Cd 226.502	-0.0159b	ppb	0.2271	1427.6	60.3172
Co 228.615	1.6010b	ppb	0.5107	31.9	31.7467
Cr 267.716	101.225b	ppb	0.6945	0.7	4256.16
Cu 324.754	82.5448b	ppb	0.1831	0.2	4099.53
Fe 271.441	22040.1b	ppb	69.7113	0.3	36942.4
K 766.491	3991.21b	ppb	13.2579	0.3	196109
Mg 279.078	7941.13b	ppb	23.6675	0.3	16198.2
Mn 257.610	105.550b	ppb	0.2371	0.2	24105.4
Mo 202.032	2.0748b	ppb	0.9753	47.0	27.6835
Na 330.237	646107xb	ppb	1392.26	0.2	32778.0
Ni 231.604	55.1292b	ppb	3.9225	7.1	131.677
Pb 220.353	4.6871b	ppb	2.6406	56.3	10.0243
Sb 206.834	2.9577b	ppb	3.5981	121.6	5.5235
Se 196.026	4.9000b	ppb	3.1083	63.4	2.4975
Sn 189.925	4.2455b	ppb	3.2860	77.4	4.2406
Sr 216.596	32.0191b	ppb	0.2276	0.7	320.018
Ti 334.941	10.0252b	ppb	0.0535	0.5	2514.85
Tl 190.794	-0.2181b	ppb	0.9621	441.1	-1.2539
V 292.401	2.4546b	ppb	0.2741	11.2	50.0193
Zn 206.200	2893.06b	ppb	3.3354	0.1	4292.27

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**200-15653-a-1-aPDS (Samp) 3/28/2013, 12:06:12 PM Rack 4, Tube 40****Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	56.7547	56.8863	56.5090
Al 308.215	3480.25	3489.17	3485.07
As 188.980	2439.39	2455.57	2476.18
B 249.678	1320.06	1332.96	1336.69
Ba 389.178	2119.48	2125.00	2119.60
Be 313.042	52.4389	52.6449	52.5577
Ca 370.602	54009	54176	54156
Cd 226.502	54.2599	53.8276	54.0972
Co 228.615	525.097	522.545	524.068
Cr 267.716	666.138	670.380	667.767
Cu 324.754	650.362	656.835	651.229
Fe 271.441	100696	100934	100721
K 766.491	35797.1	35789.3	35746.9
Mg 279.078	41561.9	41696.1	41685.2
Mn 257.610	1005.80	1007.92	1006.50
Mo 202.032	529.431	533.244	531.451
Na 330.237	2977902x	2973644x	2976963x
Ni 231.604	762.304	775.687	766.398
Pb 220.353	543.462	543.825	545.865
Sb 206.834	564.731	562.604	565.008
Se 196.026	2321.04	2337.04	2348.62
Sn 189.925	1063.34	1068.91	1069.75
Sr 216.596	681.177	683.683	682.625
Ti 334.941	1054.68	1060.88	1061.41
Tl 190.794	1977.03	1969.84	1982.13
V 292.401	528.300	528.497	528.245
Zn 206.200	13927.8	13914.9	13964.4

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	56.7167b	ppb	0.1915	0.3	3909.26
Al 308.215	3484.83b	ppb	4.4645	0.1	20257.5
As 188.980	2457.05b	ppb	18.4391	0.8	1335.41
B 249.678	1329.90b	ppb	8.7236	0.7	12446.8
Ba 389.178	2121.36b	ppb	3.1532	0.1	51005.1
Be 313.042	52.5471b	ppb	0.1034	0.2	101102
Ca 370.602	54114b	ppb	91.21	0.2	166557
Cd 226.502	54.0616b	ppb	0.2183	0.4	2156.47
Co 228.615	523.903b	ppb	1.2839	0.2	6013.10
Cr 267.716	668.095b	ppb	2.1401	0.3	28007.1
Cu 324.754	652.809b	ppb	3.5138	0.5	31664.6
Fe 271.441	100784b	ppb	130.568	0.1	169002
K 766.491	35777.8b	ppb	27.0516	0.1	1756160
Mg 279.078	41647.7b	ppb	74.5390	0.2	84849.7
Mn 257.610	1006.74b	ppb	1.0790	0.1	228841
Mo 202.032	531.375b	ppb	1.9074	0.4	3440.51
Na 330.237	2976170xb	ppb	2236.78	0.1	150988
Ni 231.604	768.130b	ppb	6.8578	0.9	1818.52
Pb 220.353	544.384b	ppb	1.2956	0.2	877.024
Sb 206.834	564.114b	ppb	1.3152	0.2	542.252
Se 196.026	2335.57b	ppb	13.8473	0.6	1071.14
Sn 189.925	1067.33b	ppb	3.4837	0.3	808.930
Sr 216.596	682.495b	ppb	1.2582	0.2	6451.34
Ti 334.941	1058.99b	ppb	3.7438	0.4	270013
Tl 190.794	1976.33b	ppb	6.1792	0.3	1300.07
V 292.401	528.347b	ppb	0.1322	0.0	14373.2
Zn 206.200	13935.7b	ppb	25.7146	0.2	21146.2

E03272013.wvq. All Data Report 3/28/2013, 2:04:12 PM

200-15653-a-2-a (Samp) 3/28/2013, 12:11:41 PM Rack 4, Tube 41

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	2.9044	2.7999	2.7380
Al 308.215	18110.4	18113.1	18150.8
As 188.980	20.0466	29.9024	24.7551
B 249.678	1259.88	1265.51	1275.55
Ba 389.178	372.125	372.289	372.271
Be 313.042	0.5058	0.5035	0.5037
Ca 370.602	88885	88990	89215
Cd 226.502	3.7465	3.9666	3.8919
Co 228.615	34.3568	35.0655	34.6223
Cr 267.716	1012.40	1014.03	1018.77
Cu 324.754	1369.31	1368.28	1367.63
Fe 271.441	190767	190372	190673
K 766.491	26946.4	26981.0	26994.6
Mg 279.078	29865.2	29903.1	29967.5
Mn 257.610	1658.47	1656.94	1660.72
Mo 202.032	46.1283	47.3478	45.9554
Na 330.237	2534598x	2513294x	2516989x
Ni 231.604	1054.72	1065.49	1065.20
Pb 220.353	107.815	108.522	114.026
Sb 206.834	25.2875	29.3030	37.7976
Se 196.026	14.7269	10.3675	10.4289
Sn 189.925	102.152	104.604	107.159
Sr 216.596	284.665	285.928	285.727
Ti 334.941	746.336	750.105	749.943
Tl 190.794	3.7797u	2.2499u	10.6214u
V 292.401	50.4447	49.6667	49.9912
Zn 206.200	47927.0x	47975.7x	48044.2x

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	2.8141b	ppb	0.0841	3.0	158.728
Al 308.215	18124.8b	ppb	22.6194	0.1	104022
As 188.980	24.9014b	ppb	4.9295	19.8	14.5254
B 249.678	1266.98b	ppb	7.9361	0.6	11788.2
Ba 389.178	372.228b	ppb	0.0898	0.0	9249.07
Be 313.042	0.5043b	ppb	0.0013	0.3	520.291
Ca 370.602	89030b	ppb	168.8	0.2	271784
Cd 226.502	3.8683b	ppb	0.1119	2.9	581.082
Co 228.615	34.6815b	ppb	0.3581	1.0	424.782
Cr 267.716	1015.07b	ppb	3.3069	0.3	42529.2
Cu 324.754	1368.41b	ppb	0.8440	0.1	66232.1
Fe 271.441	190604b	ppb	206.068	0.1	319464
K 766.491	26974.0b	ppb	24.8531	0.1	1324081
Mg 279.078	29911.9b	ppb	51.7245	0.2	60948.1
Mn 257.610	1658.71b	ppb	1.9020	0.1	376859
Mo 202.032	46.4772b	ppb	0.7589	1.6	306.727
Na 330.237	2521627xb	ppb	11384.0	0.5	127631
Ni 231.604	1061.80b	ppb	6.1385	0.6	2514.41
Pb 220.353	110.121b	ppb	3.4004	3.1	179.208
Sb 206.834	30.7960b	ppb	6.3873	20.7	43.8932
Se 196.026	11.8411b	ppb	2.4993	21.1	6.4938
Sn 189.925	104.639b	ppb	2.5039	2.4	80.7978
Sr 216.596	285.440b	ppb	0.6789	0.2	2758.04
Ti 334.941	748.795b	ppb	2.1310	0.3	190898
Tl 190.794	5.5503b	ppb	4.4578	80.3	-4.6668
V 292.401	50.0342b	ppb	0.3908	0.8	1289.96
Zn 206.200	47982.3xb	ppb	58.8775	0.1	72805.5

E03272013.vvq. All Data Report 3/28/2013, 2:04:12 PM

mb 680-270787/1-a (Samp) 3/28/2013, 12:17:09 PM Rack 4, Tube 42

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.3597u	-0.6848u	-0.3665u
Al 308.215	4.2979	5.6342	1.4600
As 188.980	-4.4729u	-9.6512u	-7.8163u
B 249.678	0.0865	-2.4182u	-4.8831u
Ba 389.178	-0.9928u	-0.8180u	0.0316
Be 313.042	-0.0388u	-0.0389u	-0.0374u
Ca 370.602	17.32	15.09	12.08
Cd 226.502	-0.0736u	-0.2698u	0.0620
Co 228.615	0.3642	-0.9389u	-0.2437u
Cr 267.716	0.3790	0.2384	-0.0244u
Cu 324.754	-0.1536u	0.1698	-0.1578u
Fe 271.441	16.8658	10.7852	12.1696
K 766.491	26.0311	26.5430	26.1235
Mg 279.078	8.5903	7.2157	3.8683
Mn 257.610	-0.0315u	0.0439	-0.0154u
Mo 202.032	-0.8535u	-0.8381u	-1.2047u
Na 330.237	7.4820	326.510	96.2532
Ni 231.604	0.7272	0.7148	0.7605
Pb 220.353	4.0709	-0.7553u	-1.5543u
Sb 206.834	-3.1287u	0.7131	-3.1581u
Se 196.026	1.8379	-5.6022u	-8.6882u
Sn 189.925	10.3412	12.3516	11.7577
Sr 216.596	-0.5455u	-0.4016u	-0.1143u
Ti 334.941	0.3009	0.3168	0.2651
Tl 190.794	7.2758	-0.9338u	-1.6067u
V 292.401	-0.2025u	-0.0288u	0.2502
Zn 206.200	0.5713	0.4965	0.9384

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.4703	ppb	0.1858	39.5	-64.8678
Al 308.215	3.7974	ppb	2.1316	56.1	265.340
As 188.980	-7.3135	ppb	2.6255	35.9	-1.8994
B 249.678	-2.4049	ppb	2.4848	103.3	336.349
Ba 389.178	-0.5931	ppb	0.5480	92.4	-32.5372
Be 313.042	-0.0384	ppb	0.0008	2.2	-246.841
Ca 370.602	14.83	ppb	2.633	17.8	43.06
Cd 226.502	-0.0938	ppb	0.1668	177.8	9.6920
Co 228.615	-0.2728	ppb	0.6520	239.0	10.5910
Cr 267.716	0.1977	ppb	0.2048	103.6	17.6696
Cu 324.754	-0.0472	ppb	0.1879	398.4	105.465
Fe 271.441	13.2735	ppb	3.1871	24.0	24.7113
K 766.491	26.2325	ppb	0.2728	1.0	1512.74
Mg 279.078	6.5581	ppb	2.4287	37.0	35.1623
Mn 257.610	-0.0010	ppb	0.0397	3929.8	71.5081
Mo 202.032	-0.9654	ppb	0.2074	21.5	9.0450
Na 330.237	143.415	ppb	164.660	114.8	3.4687
Ni 231.604	0.7342	ppb	0.0236	3.2	2.6855
Pb 220.353	0.5871	ppb	3.0434	518.4	3.4211
Sb 206.834	-1.8579	ppb	2.2266	119.8	-0.4684
Se 196.026	-4.1508	ppb	5.4111	130.4	-1.7350
Sn 189.925	11.4835	ppb	1.0329	9.0	9.4978
Sr 216.596	-0.3538	ppb	0.2195	62.0	7.1845
Ti 334.941	0.2943	ppb	0.0265	9.0	44.9835
Tl 190.794	1.5784	ppb	4.9455	313.3	0.7830
V 292.401	0.0063	ppb	0.2284	3622.7	-5.3414
Zn 206.200	0.6688	ppb	0.2365	35.4	2.7747

E03272013.wvq. All Data Report 3/28/2013, 2:04:12 PM

ics 680-270787/2-a (Samp) 3/28/2013, 12:22:38 PM Rack 4, Tube 43

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	57.6033	57.3151	57.0043
Al 308.215	5015.46	5042.03	5015.10
As 188.980	101.967	98.8372	99.5163
B 249.678	177.181	182.541	182.857
Ba 389.178	103.258	103.499	102.462
Be 313.042	51.3289	51.6531	51.4310
Ca 370.602	4949	4979	4954
Cd 226.502	52.0785	52.5365	52.0989
Co 228.615	51.6265	51.8637	51.9061
Cr 267.716	101.388	102.043	101.363
Cu 324.754	102.005	100.406	101.005
Fe 271.441	5089.81	5113.46	5070.04
K 766.491	5151.60	5169.89	5123.73
Mg 279.078	5095.57	5123.27	5107.92
Mn 257.610	525.815	529.065	525.960
Mo 202.032	97.1508	98.3151	98.2694
Na 330.237	4736.86	5167.18	4839.80
Ni 231.604	100.848	103.557	102.755
Pb 220.353	52.9713	49.9942	49.2759
Sb 206.834	50.0820	48.3192	50.3860
Se 196.026	99.2156	107.505	105.353
Sn 189.925	211.515	213.893	216.158
Sr 216.596	101.356	103.245	102.484
Ti 334.941	100.770	101.449	101.246
Tl 190.794	36.2719	42.5903	41.6701
V 292.401	100.694	101.867	101.225
Zn 206.200	102.687	101.048	102.489

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	57.3076	ppb	0.2996	0.5	3971.86
Al 308.215	5024.19	ppb	15.4468	0.3	29020.8
As 188.980	100.107	ppb	1.6462	1.6	56.3883
B 249.678	180.860	ppb	3.1898	1.8	2010.24
Ba 389.178	103.073	ppb	0.5425	0.5	2469.89
Be 313.042	51.4710	ppb	0.1657	0.3	99452.3
Ca 370.602	4961	ppb	16.33	0.3	15622
Cd 226.502	52.2380	ppb	0.2587	0.5	1884.47
Co 228.615	51.7987	ppb	0.1507	0.3	605.444
Cr 267.716	101.598	ppb	0.3854	0.4	4258.69
Cu 324.754	101.139	ppb	0.8076	0.8	4994.01
Fe 271.441	5091.10	ppb	21.7365	0.4	8544.11
K 766.491	5148.41	ppb	23.2420	0.5	252904
Mg 279.078	5108.92	ppb	13.8762	0.3	10418.8
Mn 257.610	526.946	ppb	1.8358	0.3	119602
Mo 202.032	97.9118	ppb	0.6595	0.7	647.011
Na 330.237	4914.62	ppb	224.705	4.6	242.727
Ni 231.604	102.387	ppb	1.3913	1.4	243.064
Pb 220.353	50.7472	ppb	1.9594	3.9	83.9437
Sb 206.834	49.5958	ppb	1.1159	2.3	48.8841
Se 196.026	104.024	ppb	4.3013	4.1	47.9795
Sn 189.925	213.856	ppb	2.3219	1.1	162.535
Sr 216.596	102.362	ppb	0.9505	0.9	972.267
Ti 334.941	101.155	ppb	0.3486	0.3	25789.0
Tl 190.794	40.1774	ppb	3.4134	8.5	25.6023
V 292.401	101.262	ppb	0.5870	0.6	2755.55
Zn 206.200	102.075	ppb	0.8943	0.8	157.374

E03272013.vvq. All Data Report 3/28/2013, 2:04:12 PM

ics 680-270787/3-a (Samp) 3/28/2013, 12:28:07 PM Rack 4, Tube 44

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	213.696	211.721	212.747
Al 308.215	2018.41	2031.97	2039.22
As 188.980	205.053	218.537	209.633
B 249.678	384.346	391.131	395.322
Ba 389.178	201.792	203.045	203.331
Be 313.042	205.721	207.103	207.883
Ca 370.602	19972	20135	20215
Cd 226.502	200.824	203.113	203.393
Co 228.615	203.764	204.233	205.873
Cr 267.716	201.995	203.397	204.713
Cu 324.754	206.741	205.779	206.025
Fe 271.441	21147.1	21323.5	21384.6
K 766.491	20095.4	20196.8	20180.7
Mg 279.078	20437.5	20570.0	20642.6
Mn 257.610	2104.91	2122.33	2129.94
Mo 202.032	199.128	202.839	204.846
Na 330.237	17920.6	17667.3	17976.6
Ni 231.604	202.425	201.799	206.231
Pb 220.353	203.705	206.779	205.599
Sb 206.834	194.074	195.246	191.050
Se 196.026	210.420	201.438	206.497
Sn 189.925	214.501	208.567	218.580
Sr 216.596	214.124	215.575	217.972
Ti 334.941	204.515	205.935	206.857
Tl 190.794	42.2960	53.5202	43.6755
V 292.401	204.309	205.431	205.665
Zn 206.200	195.046	196.075	197.912

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	212.721	ppb	0.9875	0.5	14836.7
Al 308.215	2029.86	ppb	10.5612	0.5	11888.8
As 188.980	211.074	ppb	6.8565	3.2	116.576
B 249.678	390.266	ppb	5.5386	1.4	3913.35
Ba 389.178	202.723	ppb	0.8186	0.4	4920.44
Be 313.042	206.902	ppb	1.0952	0.5	400335
Ca 370.602	20107	ppb	123.9	0.6	63233
Cd 226.502	202.443	ppb	1.4093	0.7	7269.40
Co 228.615	204.624	ppb	1.1074	0.5	2352.31
Cr 267.716	203.368	ppb	1.3593	0.7	8520.73
Cu 324.754	206.182	ppb	0.4997	0.2	10072.1
Fe 271.441	21285.0	ppb	123.351	0.6	35709.6
K 766.491	20157.6	ppb	54.4640	0.3	989540
Mg 279.078	20550.0	ppb	103.981	0.5	41847.9
Mn 257.610	2119.06	ppb	12.8310	0.6	480751
Mo 202.032	202.271	ppb	2.9010	1.4	1319.86
Na 330.237	17854.8	ppb	164.811	0.9	893.523
Ni 231.604	203.485	ppb	2.3986	1.2	482.339
Pb 220.353	205.361	ppb	1.5506	0.8	332.835
Sb 206.834	193.457	ppb	2.1651	1.1	187.423
Se 196.026	206.118	ppb	4.5027	2.2	95.1809
Sn 189.925	213.883	ppb	5.0351	2.4	162.565
Sr 216.596	215.890	ppb	1.9435	0.9	2043.91
Ti 334.941	205.769	ppb	1.1797	0.6	52532.7
Tl 190.794	46.4972	ppb	6.1211	13.2	27.7408
V 292.401	205.135	ppb	0.7249	0.4	5587.56
Zn 206.200	196.345	ppb	1.4519	0.7	309.221



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680-88580-a-24-d (Samp) 3/28/2013, 12:33:35 PM Rack 4, Tube 45

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.1761u	-1.3247u	-0.7369u
Al 308.215	69914.6	69970.9	70031.7
As 188.980	11.6811	17.3480	10.2842
B 249.678	-13.4253u	-14.3170u	-15.1900u
Ba 389.178	248.387	248.068	247.951
Be 313.042	0.9856	0.9735	0.9686
Ca 370.602	10099	10097	10121
Cd 226.502	0.0576	-0.0007	-0.1799
Co 228.615	4.5223	4.6415	4.5331
Cr 267.716	71.1892	71.2423	71.5666
Cu 324.754	57.9099	55.0146	57.7754
Fe 271.441	42351.9	42465.4	42443.0
K 766.491	2882.05	2867.51	2865.51
Mg 279.078	2063.06	2070.83	2062.86
Mn 257.610	391.446	392.064	392.493
Mo 202.032	2.3212	3.0551	2.9410
Na 330.237	299.366u	347.585u	217.941u
Ni 231.604	18.8677	18.9164	19.8967
Pb 220.353	291.672	298.132	294.423
Sb 206.834	-2.6813u	-0.7019	5.9047
Se 196.026	-7.4217u	-2.3431u	-8.1581u
Sn 189.925	71.5850	72.3186	70.4990
Sr 216.596	40.7763	42.1580	41.8955
Ti 334.941	544.865	543.568	545.147
Tl 190.794	2.1717u	-0.0277u	6.7878
V 292.401	133.216	133.613	133.139
Zn 206.200	150.130	152.280	150.610

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.7459	ppb	0.5743	77.0	-83.3289
Al 308.215	69972.4	ppb	58.5929	0.1	400867
As 188.980	13.1044	ppb	3.7408	28.5	8.8791
B 249.678	-14.3108	ppb	0.8824	6.2	188.378
Ba 389.178	248.135	ppb	0.2258	0.1	5987.20
Be 313.042	0.9759	ppb	0.0088	0.9	1720.56
Ca 370.602	10106	ppb	13.14	0.1	29213
Cd 226.502	-0.0410	ppb	0.1238	302.0	110.473
Co 228.615	4.5656	ppb	0.0659	1.4	78.5556
Cr 267.716	71.3327	ppb	0.2043	0.3	3002.05
Cu 324.754	56.8999	ppb	1.6342	2.9	2865.95
Fe 271.441	42420.1	ppb	60.1068	0.1	71100.9
K 766.491	2871.69	ppb	9.0251	0.3	141165
Mg 279.078	2065.58	ppb	4.5423	0.2	4210.20
Mn 257.610	392.001	ppb	0.5265	0.1	89086.3
Mo 202.032	2.7724	ppb	0.3949	14.2	31.0506
Na 330.237	288.297	ppb	65.5269	22.7	-7.0588
Ni 231.604	19.2269	ppb	0.5805	3.0	47.2173
Pb 220.353	294.742	ppb	3.2419	1.1	475.224
Sb 206.834	0.8405	ppb	4.4960	534.9	3.6824
Se 196.026	-5.9743	ppb	3.1662	53.0	-2.3653
Sn 189.925	71.4675	ppb	0.9155	1.3	54.8607
Sr 216.596	41.6099	ppb	0.7338	1.8	418.228
Ti 334.941	544.527	ppb	0.8421	0.2	138858
Tl 190.794	2.9773	ppb	3.4784	116.8	-0.0719
V 292.401	133.323	ppb	0.2540	0.2	3664.67
Zn 206.200	151.007	ppb	1.1286	0.7	221.737

E03272013.wvq. All Data Report 3/28/2013, 2:04:12 PM

680-88580-a-24-e ms (Samp) 3/28/2013, 12:39:04 PM Rack 4, Tube 46

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	10.3169	9.9418	9.5259
Al 308.215	84424.5	84301.4	84342.4
As 188.980	111.350	107.843	103.281
B 249.678	127.292	127.813	128.824
Ba 389.178	395.512	396.129	396.863
Be 313.042	51.3678	51.1735	51.1835
Ca 370.602	17907	17835	17866
Cd 226.502	50.9465	50.7732	51.1631
Co 228.615	55.7827	55.2876	55.6619
Cr 267.716	173.456	172.503	173.675
Cu 324.754	168.509	170.961	166.321
Fe 271.441	49691.3	49625.4	49646.7
K 766.491	7944.70	7934.99	7900.32
Mg 279.078	7564.71	7557.71	7562.61
Mn 257.610	933.779	932.538	932.958
Mo 202.032	95.8600	94.5662	95.4783
Na 330.237	4989.44	4675.83	5109.58
Ni 231.604	117.075	117.308	119.474
Pb 220.353	828.170	830.794	831.326
Sb 206.834	26.6508	24.0000	21.6160
Se 196.026	88.5795	99.9095	89.1629
Sn 189.925	276.839	281.791	276.771
Sr 216.596	148.351	147.976	146.631
Ti 334.941	555.012	551.297	550.846
Tl 190.794	47.5355	50.6164	42.0688
V 292.401	230.992	230.883	230.625
Zn 206.200	321.577	321.354	326.171

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	9.9282	ppb	0.3957	4.0	661.002
Al 308.215	84356.1	ppb	62.6908	0.1	483231
As 188.980	107.491	ppb	4.0464	3.8	60.0937
B 249.678	127.976	ppb	0.7788	0.6	1484.98
Ba 389.178	396.168	ppb	0.6764	0.2	9555.40
Be 313.042	51.2416	ppb	0.1094	0.2	99014.8
Ca 370.602	17869	ppb	36.16	0.2	53692
Cd 226.502	50.9609	ppb	0.1953	0.4	1942.94
Co 228.615	55.5774	ppb	0.2581	0.5	659.021
Cr 267.716	173.211	ppb	0.6234	0.4	7263.52
Cu 324.754	168.597	ppb	2.3215	1.4	8262.48
Fe 271.441	49654.5	ppb	33.6717	0.1	83234.4
K 766.491	7926.67	ppb	23.3287	0.3	389258
Mg 279.078	7561.68	ppb	3.5893	0.0	15393.2
Mn 257.610	933.092	ppb	0.6312	0.1	211832
Mo 202.032	95.3015	ppb	0.6648	0.7	627.941
Na 330.237	4924.95	ppb	223.947	4.5	224.923
Ni 231.604	117.952	ppb	1.3231	1.1	280.721
Pb 220.353	830.097	ppb	1.6896	0.2	1336.23
Sb 206.834	24.0890	ppb	2.5186	10.5	26.2127
Se 196.026	92.5506	ppb	6.3797	6.9	42.9353
Sn 189.925	278.467	ppb	2.8790	1.0	211.398
Sr 216.596	147.653	ppb	0.9040	0.6	1415.88
Ti 334.941	552.385	ppb	2.2866	0.4	140885
Tl 190.794	46.7403	ppb	4.3289	9.3	28.0689
V 292.401	230.833	ppb	0.1885	0.1	6322.11
Zn 206.200	323.034	ppb	2.7191	0.8	492.513

E03272013.vvq. All Data Report 3/28/2013, 2:04:12 PM

680-88580-a-24-f msd (Samp) 3/28/2013, 12:44:33 PM Rack 4, Tube 47

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	10.9035	10.9176	11.1854
Al 308.215	98408.9	99180.6	99389.4
As 188.980	109.488	108.851	109.429
B 249.678	123.337	125.322	125.598
Ba 389.178	397.810	400.636	399.053
Be 313.042	53.2730	53.6160	53.4597
Ca 370.602	14430	14544	14484
Cd 226.502	51.4736	52.0567	52.0798
Co 228.615	58.6570	59.4393	59.3436
Cr 267.716	181.878	182.328	181.614
Cu 324.754	178.888	182.411	176.906
Fe 271.441	52941.4	53315.0	53228.5
K 766.491	8172.21	8232.83	8190.72
Mg 279.078	7985.88	8045.55	8027.92
Mn 257.610	852.413	858.609	856.633
Mo 202.032	99.8438	99.3092	99.8195
Na 330.237	5031.65	5150.85	5262.97
Ni 231.604	122.088	125.133	121.768
Pb 220.353	387.214	387.282	390.294
Sb 206.834	33.2497	24.1356	32.0837
Se 196.026	92.3498	90.2870	90.5136
Sn 189.925	237.446	235.813	231.494
Sr 216.596	149.251	148.982	149.828
Ti 334.941	609.413	614.281	609.804
Tl 190.794	40.8625	35.7845	41.0252
V 292.401	261.259	262.845	261.743
Zn 206.200	232.947	232.835	232.858

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	11.0022	ppb	0.1589	1.4	735.934
Al 308.215	98993.0	ppb	516.477	0.5	567034
As 188.980	109.256	ppb	0.3521	0.3	60.9940
B 249.678	124.752	ppb	1.2336	1.0	1452.20
Ba 389.178	399.167	ppb	1.4163	0.4	9633.66
Be 313.042	53.4496	ppb	0.1717	0.3	103288
Ca 370.602	14486	ppb	57.28	0.4	42487
Cd 226.502	51.8700	ppb	0.3435	0.7	1983.54
Co 228.615	59.1466	ppb	0.4267	0.7	701.134
Cr 267.716	181.940	ppb	0.3610	0.2	7628.83
Cu 324.754	179.402	ppb	2.7883	1.6	8784.98
Fe 271.441	53161.6	ppb	195.584	0.4	89113.1
K 766.491	8198.59	ppb	31.0625	0.4	402603
Mg 279.078	8019.78	ppb	30.6549	0.4	16323.9
Mn 257.610	855.885	ppb	3.1649	0.4	194336
Mo 202.032	99.6575	ppb	0.3019	0.3	655.854
Na 330.237	5148.49	ppb	115.674	2.2	235.442
Ni 231.604	122.996	ppb	1.8577	1.5	292.714
Pb 220.353	388.263	ppb	1.7593	0.5	625.093
Sb 206.834	29.8230	ppb	4.9598	16.6	31.8047
Se 196.026	91.0501	ppb	1.1312	1.2	42.2396
Sn 189.925	234.918	ppb	3.0755	1.3	178.465
Sr 216.596	149.354	ppb	0.4320	0.3	1432.67
Ti 334.941	611.166	ppb	2.7049	0.4	155879
Tl 190.794	39.2241	ppb	2.9798	7.6	23.0721
V 292.401	261.949	ppb	0.8128	0.3	7177.53
Zn 206.200	232.880	ppb	0.0590	0.0	355.666

460-52563-c-1-g (Samp) 3/28/2013, 12:50:01 PM Rack 4, Tube 48

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	10.2545	10.3836	9.3027
Al 308.215	30613.4	30696.1	30683.8
As 188.980	5.0805	18.1016	7.3466
B 249.678	-9.8095u	-8.6938u	-8.8523u
Ba 389.178	1616.23	1620.58	1619.57
Be 313.042	1.0946	1.0918	1.0954
Ca 370.602	47640	47660	47600
Cd 226.502	3.4327	3.3707	3.5490
Co 228.615	13.0165	12.9903	13.4043
Cr 267.716	145.347	145.907	145.446
Cu 324.754	1072.41	1074.96	1093.45
Fe 271.441	90849.3	90993.7	91245.2
K 766.491	3258.52	3268.19	3270.31
Mg 279.078	11897.8	11903.8	11926.7
Mn 257.610	1632.91	1633.04	1636.02
Mo 202.032	27.8729	27.9929	27.6609
Na 330.237	1544.81	1237.75	1640.40
Ni 231.604	54.3588	55.2914	54.3739
Pb 220.353	263.782	261.022	264.837
Sb 206.834	2.8472	7.2802	8.7697
Se 196.026	9.0381	15.9069	4.3830
Sn 189.925	83.9708	82.4679	78.2621
Sr 216.596	363.368	363.109	363.133
Ti 334.941	260.633	261.079	259.354
Tl 190.794	10.0120	3.8106u	8.8181
V 292.401	40.6103	40.7698	40.3365
Zn 206.200	2743.47	2752.51	2756.47

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	9.9803	ppb	0.5904	5.9	657.000
Al 308.215	30664.4	ppb	44.6093	0.1	175815
As 188.980	10.1763	ppb	6.9564	68.4	7.1232
B 249.678	-9.1185	ppb	0.6036	6.6	191.271
Ba 389.178	1618.79	ppb	2.2807	0.1	38881.8
Be 313.042	1.0939	ppb	0.0019	0.2	1955.88
Ca 370.602	47633	ppb	30.22	0.1	146295
Cd 226.502	3.4508	ppb	0.0905	2.6	348.324
Co 228.615	13.1370	ppb	0.2318	1.8	166.999
Cr 267.716	145.567	ppb	0.2985	0.2	6119.99
Cu 324.754	1080.27	ppb	11.4840	1.1	52291.6
Fe 271.441	91029.4	ppb	200.357	0.2	152571
K 766.491	3265.67	ppb	6.2861	0.2	160501
Mg 279.078	11909.5	ppb	15.2637	0.1	24260.6
Mn 257.610	1633.99	ppb	1.7576	0.1	370902
Mo 202.032	27.8422	ppb	0.1681	0.6	190.879
Na 330.237	1474.32	ppb	210.377	14.3	21.7597
Ni 231.604	54.6747	ppb	0.5341	1.0	131.909
Pb 220.353	263.213	ppb	1.9699	0.7	425.565
Sb 206.834	6.2990	ppb	3.0808	48.9	10.3337
Se 196.026	9.7760	ppb	5.7973	59.3	5.2705
Sn 189.925	81.5669	ppb	2.9590	3.6	62.5113
Sr 216.596	363.203	ppb	0.1431	0.0	3466.77
Ti 334.941	260.355	ppb	0.8955	0.3	66428.3
Tl 190.794	7.5469	ppb	3.2903	43.6	0.0508
V 292.401	40.5722	ppb	0.2191	0.5	1099.80
Zn 206.200	2750.81	ppb	6.6636	0.2	4176.56

E03272013.wvq. All Data Report 3/28/2013, 2:04:12 PM

Cont Calib Verif (CCV)                      3/28/2013, 12:55:30 PM                      Rack 4, Tube 49  
 Weight: 1    Volume: 1    Dilution: 1

Label	Replicates Concentration		
Ag 328.068	515.169	509.938	509.399
Al 308.215	5101.33	5105.06	5117.17
As 188.980	488.053	489.172	484.354
B 249.678	2566.90	2580.67	2615.12
Ba 389.178	5044.40	5036.64	5050.52
Be 313.042	499.151	499.360	498.912
Ca 370.602	5040	5046	5054
Cd 226.502	502.036	502.768	505.580
Co 228.615	507.388	505.240	510.019
Cr 267.716	5006.24	4995.77	4991.29
Cu 324.754	5031.97	4974.72	5053.98
Fe 271.441	5075.66	5066.65	5097.79
K 766.491	9819.46	9820.73	9877.75
Mg 279.078	5063.01	5051.73	5053.96
Mn 257.610	5100.96	5100.11	5101.99
Mo 202.032	495.968	498.839	497.027
Na 330.237	7505.12	7635.21	7516.01
Ni 231.604	2536.10	2535.02	2536.03
Pb 220.353	503.791	500.635	502.915
Sb 206.834	945.902	934.541	945.659
Se 196.026	4997.75	4999.79	5020.30
Sn 189.925	5153.54	5124.00	5140.02
Sr 216.596	2505.63	2499.14	2492.31
Ti 334.941	504.688	504.948	503.874
Tl 190.794	5074.35	5034.90	5043.20
V 292.401	5018.56	5018.41	5034.60
Zn 206.200	2543.78	2525.30	2541.65

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	511.502	ppb	3.1869	0.6	35664.1	102.30042
Al 308.215	5107.85	ppb	8.2799	0.2	29465.0	102.15708
As 188.980	487.193	ppb	2.5215	0.5	266.450	97.43854
B 249.678	2587.56	ppb	24.8384	1.0	24053.5	103.50258
Ba 389.178	5043.85	ppb	6.9538	0.1	120704	100.87708
Be 313.042	499.141	ppb	0.2242	0.0	965854	99.82821
Ca 370.602	5047	ppb	7.130	0.1	16148	100.93519
Cd 226.502	503.461	ppb	1.8709	0.4	17947.2	100.69223
Co 228.615	507.549	ppb	2.3939	0.5	5827.28	101.50981
Cr 267.716	4997.76	ppb	7.6702	0.2	208913	99.95529
Cu 324.754	5020.22	ppb	40.9125	0.8	242458	100.40447
Fe 271.441	5080.03	ppb	16.0216	0.3	8640.11	101.60069
K 766.491	9839.31	ppb	33.2907	0.3	483128	98.39313
Mg 279.078	5056.23	ppb	5.9726	0.1	10240.8	101.12462
Mn 257.610	5101.02	ppb	0.9411	0.0	1156801	102.02033
Mo 202.032	497.278	ppb	1.4522	0.3	3217.09	99.45560
Na 330.237	7552.11	ppb	72.1725	1.0	355.746	100.69486
Ni 231.604	2535.72	ppb	0.6032	0.0	5994.88	101.42881
Pb 220.353	502.447	ppb	1.6289	0.3	810.728	100.48936
Sb 206.834	942.034	ppb	6.4903	0.7	946.554	94.20340
Se 196.026	5005.95	ppb	12.4728	0.2	2295.73	100.11894
Sn 189.925	5139.19	ppb	14.7843	0.3	3887.07	102.78375
Sr 216.596	2499.03	ppb	6.6592	0.3	23497.4	99.96101
Ti 334.941	504.503	ppb	0.5604	0.1	128655	100.90065
Tl 190.794	5050.82	ppb	20.7976	0.4	3330.26	101.01631
V 292.401	5023.86	ppb	9.3059	0.2	137780	100.47713
Zn 206.200	2536.91	ppb	10.1125	0.4	3827.17	101.47634

E03272013.vvq. All Data Report 3/28/2013, 2:04:12 PM

Cont Calib Blank (CCB) 3/28/2013, 1:00:59 PM Rack 4, Tube 50

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.5609u	-0.3321u	0.4206
Al 308.215	1.3835	0.0393	-0.3313u
As 188.980	-6.2394u	-4.3889u	-4.2622u
B 249.678	34.2992	28.0020	22.5720
Ba 389.178	0.3782	0.8135	0.3550
Be 313.042	-0.0339u	-0.0287u	-0.0351u
Ca 370.602	3.277	-4.735u	2.273
Cd 226.502	-0.1471u	0.0831	-0.0950u
Co 228.615	-0.1096u	-0.2265u	-0.2183u
Cr 267.716	-0.4601u	-0.2417u	-0.1755u
Cu 324.754	-0.7462u	-0.1053u	-0.6074u
Fe 271.441	-0.1051u	7.2589	-2.2733u
K 766.491	-0.5847u	-0.6861u	-0.6727u
Mg 279.078	3.1511	3.8517	-0.9967u
Mn 257.610	-0.1642u	-0.1583u	-0.1963u
Mo 202.032	0.1111	-0.2300u	0.0196
Na 330.237	-164.310u	82.6887	-102.275u
Ni 231.604	-1.3458u	-1.3245u	0.4111
Pb 220.353	1.3367	-0.6759u	-0.8640u
Sb 206.834	1.3648	5.3440	1.3444
Se 196.026	2.5041	3.4425	-5.9854u
Sn 189.925	-1.7049u	-1.0966u	-0.0762u
Sr 216.596	0.1175	0.6466	0.0283
Ti 334.941	-0.0102u	-0.1361u	-0.0496u
Tl 190.794	5.1777	3.6434	-0.3981u
V 292.401	0.0905	-0.1391u	0.0965
Zn 206.200	0.8010	-0.3223u	-0.0229u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	-0.1575	ppb	0.5135	326.2	-43.0089	-0.15746
Al 308.215	0.3638	ppb	0.9023	248.0	245.805	0.36384
As 188.980	-4.9635	ppb	1.1068	22.3	-0.6238	-4.96348
B 249.678	28.2911	ppb	5.8690	20.7	617.510	28.29107
Ba 389.178	0.5156	ppb	0.2583	50.1	-6.0356	0.51559
Be 313.042	-0.0326	ppb	0.0034	10.6	-235.706	-0.03258
Ca 370.602	0.2717	ppb	4.365	1606.7	-2.842	0.27166
Cd 226.502	-0.0530	ppb	0.1207	227.7	11.1117	-0.05302
Co 228.615	-0.1848	ppb	0.0653	35.3	11.5650	-0.18478
Cr 267.716	-0.2924	ppb	0.1489	50.9	-2.8268	-0.29244
Cu 324.754	-0.4863	ppb	0.3372	69.3	84.2856	-0.48627
Fe 271.441	1.6268	ppb	4.9965	307.1	5.2013	1.62681
K 766.491	-0.6478	ppb	0.0551	8.5	193.481	-0.64779
Mg 279.078	2.0020	ppb	2.6205	130.9	25.8839	2.00203
Mn 257.610	-0.1730	ppb	0.0205	11.8	32.4601	-0.17295
Mo 202.032	-0.0331	ppb	0.1765	533.1	15.0649	-0.03312
Na 330.237	-61.2986	ppb	128.496	209.6	-6.9156	-61.29865
Ni 231.604	-0.7531	ppb	1.0082	133.9	-0.8302	-0.75306
Pb 220.353	-0.0677	ppb	1.2200	1800.8	2.3666	-0.06774
Sb 206.834	2.6844	ppb	2.3033	85.8	3.8505	2.68441
Se 196.026	-0.0129	ppb	5.1936	40173.0	0.1614	-0.01293
Sn 189.925	-0.9592	ppb	0.8230	85.8	0.0886	-0.95921
Sr 216.596	0.2641	ppb	0.3342	126.5	12.9702	0.26411
Ti 334.941	-0.0653	ppb	0.0644	98.6	-46.7176	-0.06529
Tl 190.794	2.8077	ppb	2.8803	102.6	1.5948	2.80766
V 292.401	0.0160	ppb	0.1343	841.6	-5.2335	0.01596
Zn 206.200	0.1519	ppb	0.5817	382.8	2.9919	0.15195

E03272013.wvq. All Data Report 3/28/2013, 2:04:12 PM

460-52563-c-1-gSD^5 (Samp) 3/28/2013, 1:06:38 PM Rack 4, Tube 51

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	1.9127	1.0873	2.4308
Al 308.215	6498.62	6505.66	6486.68
As 188.980	-5.0731u	-0.3926u	-1.3374u
B 249.678	-8.9145u	-9.8513u	-11.5420u
Ba 389.178	344.706	345.442	344.189
Be 313.042	0.1887	0.1870	0.1941
Ca 370.602	10138	10141	10098
Cd 226.502	0.4497	0.6648	0.7509
Co 228.615	2.3667	2.4183	2.6419
Cr 267.716	31.3794	30.9310	30.5494
Cu 324.754	227.014	224.588	226.752
Fe 271.441	19512.2	19537.8	19488.1
K 766.491	679.059	681.726	680.804
Mg 279.078	2564.27	2575.19	2557.94
Mn 257.610	349.292	349.828	349.041
Mo 202.032	5.6496	5.3372	5.5277
Na 330.237	605.013	157.293u	335.765
Ni 231.604	11.8781	11.2438	13.2610
Pb 220.353	53.7172	55.8049	53.7760
Sb 206.834	-3.9655u	0.9295	0.4963
Se 196.026	14.8341	6.2925	-0.5553u
Sn 189.925	16.6596	16.2882	15.7235
Sr 216.596	78.2230	78.8110	76.7946
Ti 334.941	55.4952	55.3658	54.8771
Tl 190.794	3.3033	-0.5643u	0.0618u
V 292.401	8.5460	8.5404	8.5053
Zn 206.200	594.141	592.763	591.606

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	1.8103	ppb	0.6775	37.4	92.6928
Al 308.215	6496.99	ppb	9.5987	0.1	37442.6
As 188.980	-2.2677	ppb	2.4751	109.1	0.7380
B 249.678	-10.1026	ppb	1.3317	13.2	247.956
Ba 389.178	344.779	ppb	0.6300	0.2	8267.00
Be 313.042	0.1899	ppb	0.0037	2.0	197.411
Ca 370.602	10126	ppb	24.44	0.2	31084
Cd 226.502	0.6218	ppb	0.1551	24.9	80.6356
Co 228.615	2.4756	ppb	0.1463	5.9	42.6520
Cr 267.716	30.9533	ppb	0.4154	1.3	1308.79
Cu 324.754	226.118	ppb	1.3317	0.6	11030.8
Fe 271.441	19512.7	ppb	24.8801	0.1	32706.5
K 766.491	680.530	ppb	1.3542	0.2	33624.9
Mg 279.078	2565.80	ppb	8.7264	0.3	5243.91
Mn 257.610	349.387	ppb	0.4019	0.1	79364.2
Mo 202.032	5.5049	ppb	0.1574	2.9	49.9298
Na 330.237	366.024	ppb	225.388	61.6	4.1978
Ni 231.604	12.1276	ppb	1.0315	8.5	29.9853
Pb 220.353	54.4327	ppb	1.1887	2.2	89.9701
Sb 206.834	-0.8466	ppb	2.7097	320.1	1.1332
Se 196.026	6.8571	ppb	7.7102	112.4	3.4434
Sn 189.925	16.2237	ppb	0.4714	2.9	13.0858
Sr 216.596	77.9429	ppb	1.0370	1.3	752.184
Ti 334.941	55.2461	ppb	0.3260	0.6	14072.2
Tl 190.794	0.9336	ppb	2.0760	222.4	-0.6423
V 292.401	8.5306	ppb	0.0220	0.3	226.808
Zn 206.200	592.837	ppb	1.2688	0.2	592.270

E03272013.vvq. All Data Report 3/28/2013, 2:04:12 PM

**460-52563-c-1-gPDS (Samp)**      **3/28/2013, 1:12:08 PM**      **Rack 4, Tube 52****Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	59.5331	61.1423	61.6477
Al 308.215	32064.4	32047.0	32021.6
As 188.980	2170.34	2182.64	2163.76
B 249.678	1053.51	1057.50	1064.17
Ba 389.178	3599.04	3599.99	3599.47
Be 313.042	51.7067	51.7231	51.7003
Ca 370.602	51639	51627	51613
Cd 226.502	53.5400	53.7139	54.1729
Co 228.615	530.455	526.367	529.296
Cr 267.716	345.951	346.647	345.791
Cu 324.754	1334.88	1321.80	1329.54
Fe 271.441	89996.8	89999.0	89858.8
K 766.491	8648.22	8659.71	8663.92
Mg 279.078	16751.2	16751.0	16747.5
Mn 257.610	2124.16	2121.90	2121.56
Mo 202.032	539.706	541.039	540.047
Na 330.237	6337.03	6305.45	6579.37
Ni 231.604	561.604	559.873	563.291
Pb 220.353	760.994	764.297	763.821
Sb 206.834	510.850	510.447	504.524
Se 196.026	2061.87	2068.34	2078.80
Sn 189.925	1107.56	1101.53	1111.56
Sr 216.596	861.963	865.173	865.203
Ti 334.941	1265.77	1269.71	1267.16
Tl 190.794	2074.84	2045.63	2055.25
V 292.401	546.644	545.835	546.580
Zn 206.200	3194.72	3188.63	3189.98

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	60.7744	ppb	1.1043	1.8	4191.14
Al 308.215	32044.3	ppb	21.5324	0.1	183774
As 188.980	2172.25	ppb	9.5839	0.4	1180.86
B 249.678	1058.39	ppb	5.3889	0.5	9969.74
Ba 389.178	3599.50	ppb	0.4784	0.0	86290.6
Be 313.042	51.7100	ppb	0.0118	0.0	99842.8
Ca 370.602	51626	ppb	12.86	0.0	159479
Cd 226.502	53.8089	ppb	0.3270	0.6	2138.52
Co 228.615	528.706	ppb	2.1069	0.4	6072.29
Cr 267.716	346.130	ppb	0.4550	0.1	14503.2
Cu 324.754	1328.74	ppb	6.5767	0.5	64296.3
Fe 271.441	89951.5	ppb	80.2818	0.1	150848
K 766.491	8657.29	ppb	8.1288	0.1	425116
Mg 279.078	16749.9	ppb	2.0712	0.0	34111.3
Mn 257.610	2122.54	ppb	1.4124	0.1	481706
Mo 202.032	540.264	ppb	0.6923	0.1	3498.34
Na 330.237	6407.28	ppb	149.861	2.3	261.659
Ni 231.604	561.589	ppb	1.7093	0.3	1330.11
Pb 220.353	763.038	ppb	1.7854	0.2	1228.42
Sb 206.834	508.607	ppb	3.5417	0.7	485.879
Se 196.026	2069.67	ppb	8.5466	0.4	949.494
Sn 189.925	1106.88	ppb	5.0492	0.5	837.859
Sr 216.596	864.113	ppb	1.8622	0.2	8161.02
Ti 334.941	1267.55	ppb	2.0012	0.2	323314
Tl 190.794	2058.57	ppb	14.8904	0.7	1353.65
V 292.401	546.353	ppb	0.4496	0.1	14914.7
Zn 206.200	3191.11	ppb	3.1983	0.1	4844.07



X (Samp) 3/28/2013, 1:17:36 PM Rack 4, Tube 53  
Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.3723	-0.5485u	0.0946
Al 308.215	3.6075	0.8786	1.2571
As 188.980	-6.4581u	-3.0969u	-5.5424u
B 249.678	-3.0914u	-6.1152u	-8.3075u
Ba 389.178	-0.5915u	-0.4252u	-0.6984u
Be 313.042	-0.0365u	-0.0422u	-0.0518u
Ca 370.602	-0.1735u	1.257	-0.5777u
Cd 226.502	0.0895	-0.1949u	-0.1361u
Co 228.615	-0.3915u	0.3247	-0.0449u
Cr 267.716	0.0357	-0.0240u	-0.2986u
Cu 324.754	-1.0112u	0.6090	-0.9405u
Fe 271.441	2.4225	2.2693	14.2873
K 766.491	-0.3445u	-0.2763u	-1.5932u
Mg 279.078	-0.7811u	0.0933	-4.3284u
Mn 257.610	-0.1480u	-0.1578u	-0.2171u
Mo 202.032	-0.7986u	-0.7988u	-0.9918u
Na 330.237	200.202	152.920	71.8415
Ni 231.604	-0.1988u	-0.0659u	-0.3298u
Pb 220.353	-3.1076u	1.8102	-0.2196u
Sb 206.834	4.9807	1.6684	0.7655
Se 196.026	-0.1456u	-0.1550u	3.8715
Sn 189.925	-1.0609u	0.6642	-2.5480u
Sr 216.596	-0.6509u	0.0270	-0.5008u
Ti 334.941	0.2575	0.1043	0.1302
Tl 190.794	5.4756	7.8449	1.9732
V 292.401	-0.2985u	-0.0937u	0.1527
Zn 206.200	0.0571	-1.3870u	-0.8725u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0272	ppb	0.4724	1737.1	-33.8989
Al 308.215	1.9144	ppb	1.4785	77.2	254.580
As 188.980	-5.0325	ppb	1.7377	34.5	-0.6611
B 249.678	-5.8380	ppb	2.6191	44.9	304.917
Ba 389.178	-0.5717	ppb	0.1376	24.1	-32.0679
Be 313.042	-0.0435	ppb	0.0077	17.8	-256.722
Ca 370.602	0.1685	ppb	0.9639	572.0	-3.168
Cd 226.502	-0.0805	ppb	0.1501	186.4	10.1326
Co 228.615	-0.0372	ppb	0.3581	962.0	13.2877
Cr 267.716	-0.0957	ppb	0.1783	186.4	5.4055
Cu 324.754	-0.4476	ppb	0.9157	204.6	86.1346
Fe 271.441	6.3264	ppb	6.8948	109.0	13.1043
K 766.491	-0.7380	ppb	0.7414	100.5	189.053
Mg 279.078	-1.6721	ppb	2.3416	140.0	18.4002
Mn 257.610	-0.1743	ppb	0.0374	21.4	32.1259
Mo 202.032	-0.8630	ppb	0.1115	12.9	9.7070
Na 330.237	141.655	ppb	64.9178	45.8	3.3928
Ni 231.604	-0.1982	ppb	0.1319	66.6	0.4814
Pb 220.353	-0.5056	ppb	2.4714	488.7	1.6629
Sb 206.834	2.4715	ppb	2.2194	89.8	3.6579
Se 196.026	1.1903	ppb	2.3220	195.1	0.7129
Sn 189.925	-0.9816	ppb	1.6076	163.8	0.0717
Sr 216.596	-0.3749	ppb	0.3561	95.0	6.9870
Ti 334.941	0.1640	ppb	0.0820	50.0	11.7339
Tl 190.794	5.0979	ppb	2.9540	57.9	3.1067
V 292.401	-0.0798	ppb	0.2259	283.1	-7.7148
Zn 206.200	-0.7341	ppb	0.7319	99.7	15.6471

E03272013.wvq. All Data Report 3/28/2013, 2:04:12 PM

**CRI (Samp)** 3/28/2013, 1:23:05 PM **Rack 4, Tube 54**  
**Weight: 1** **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	11.2488	11.8826	9.6320
Al 308.215	222.869	221.031	221.789
As 188.980	15.4084	17.3505	18.0987
B 249.678	85.1077	86.7663	85.6088
Ba 389.178	11.1966	10.9468	10.2988
Be 313.042	4.3533	4.3082	4.2789
Ca 370.602	547.9	539.6	540.0
Cd 226.502	5.3929	5.3579	5.3243
Co 228.615	11.4557	11.3728	10.3010
Cr 267.716	10.2408	10.6267	10.2236
Cu 324.754	21.2950	21.0792	21.9147
Fe 271.441	59.1089	64.1031	57.0969
K 766.491	1060.34	1054.35	1052.55
Mg 279.078	559.207	550.824	539.690
Mn 257.610	11.5215	11.4273	11.4673
Mo 202.032	8.9915	10.0595	8.9097
Na 330.237	1289.18	1396.34	1273.02
Ni 231.604	45.5106	44.1474	44.2270
Pb 220.353	9.2846	9.6216	10.8223
Sb 206.834	20.2933	19.5642	24.5989
Se 196.026	22.7263	10.5022	13.4514
Sn 189.925	57.5786	50.2735	55.4259
Sr 216.596	9.7296	9.7206	11.2937
Ti 334.941	10.5333	10.3938	10.4310
Tl 190.794	22.1995	28.1989	28.2272
V 292.401	10.7911	11.0074	10.8716
Zn 206.200	25.9620	25.5805	25.4184

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	10.9211	ppb	1.1605	10.6	730.974
Al 308.215	221.896	ppb	0.9233	0.4	1515.21
As 188.980	16.9525	ppb	1.3886	8.2	11.2760
B 249.678	85.8276	ppb	0.8507	1.0	1144.44
Ba 389.178	10.8141	ppb	0.4634	4.3	242.012
Be 313.042	4.3135	ppb	0.0375	0.9	8175.98
Ca 370.602	542.5	ppb	4.709	0.9	1745
Cd 226.502	5.3583	ppb	0.0343	0.6	203.880
Co 228.615	11.0432	ppb	0.6441	5.8	139.937
Cr 267.716	10.3637	ppb	0.2279	2.2	442.608
Cu 324.754	21.4297	ppb	0.4337	2.0	1142.58
Fe 271.441	60.1030	ppb	3.6073	6.0	104.930
K 766.491	1055.75	ppb	4.0790	0.4	52040.2
Mg 279.078	549.907	ppb	9.7904	1.8	1141.61
Mn 257.610	11.4720	ppb	0.0473	0.4	2676.18
Mo 202.032	9.3203	ppb	0.6415	6.9	75.4306
Na 330.237	1319.51	ppb	67.0246	5.1	62.9180
Ni 231.604	44.6283	ppb	0.7651	1.7	106.442
Pb 220.353	9.9095	ppb	0.8083	8.2	18.3959
Sb 206.834	21.4855	ppb	2.7209	12.7	21.8322
Se 196.026	15.5600	ppb	6.3790	41.0	7.3018
Sn 189.925	54.4260	ppb	3.7538	6.9	41.9715
Sr 216.596	10.2480	ppb	0.9056	8.8	106.141
Ti 334.941	10.4527	ppb	0.0722	0.7	2637.86
Tl 190.794	26.2085	ppb	3.4720	13.2	17.0326
V 292.401	10.8900	ppb	0.1093	1.0	291.553
Zn 206.200	25.6537	ppb	0.2791	1.1	41.6589

E03272013.vvq. All Data Report 3/28/2013, 2:04:12 PM

CCV (Samp) 3/28/2013, 1:28:34 PM Rack 4, Tube 55

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	507.401	519.845	508.760
Al 308.215	5081.40	5154.74	5119.50
As 188.980	486.152	501.431	495.683
B 249.678	2560.97	2621.17	2627.27
Ba 389.178	5004.23	5067.10	5045.91
Be 313.042	496.413	502.909	499.856
Ca 370.602	5012	5066	5056
Cd 226.502	502.941	509.163	506.211
Co 228.615	503.731	511.584	506.790
Cr 267.716	4988.39	5049.47	5030.98
Cu 324.754	5014.96	5108.75	5080.18
Fe 271.441	5050.24	5100.86	5080.47
K 766.491	9868.72	10112.6	9786.10
Mg 279.078	5043.85	5115.76	5095.94
Mn 257.610	5088.39	5144.08	5116.05
Mo 202.032	492.292	498.959	500.676
Na 330.237	7432.31	7881.42	7690.13
Ni 231.604	2524.81	2552.54	2554.38
Pb 220.353	500.379	508.126	508.468
Sb 206.834	936.905	956.746	958.538
Se 196.026	5007.58	5052.17	5033.90
Sn 189.925	5074.03	5192.45	5117.28
Sr 216.596	2498.81	2525.36	2516.65
Ti 334.941	501.141	506.834	506.197
Tl 190.794	5036.17	5109.65	5066.83
V 292.401	4989.48	5055.07	5030.65
Zn 206.200	2527.58	2559.27	2548.55

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	512.002	ppb	6.8260	1.3	35698.8
Al 308.215	5118.55	ppb	36.6777	0.7	29526.1
As 188.980	494.422	ppb	7.7171	1.6	270.375
B 249.678	2603.14	ppb	36.6432	1.4	24196.1
Ba 389.178	5039.08	ppb	31.9870	0.6	120590
Be 313.042	499.726	ppb	3.2501	0.7	966986
Ca 370.602	5045	ppb	28.78	0.6	16142
Cd 226.502	506.105	ppb	3.1123	0.6	18041.3
Co 228.615	507.369	ppb	3.9584	0.8	5825.31
Cr 267.716	5022.95	ppb	31.3254	0.6	209966
Cu 324.754	5067.96	ppb	48.0748	0.9	244763
Fe 271.441	5077.19	ppb	25.4658	0.5	8635.55
K 766.491	9922.46	ppb	169.737	1.7	487209
Mg 279.078	5085.19	ppb	37.1407	0.7	10299.5
Mn 257.610	5116.17	ppb	27.8452	0.5	1160238
Mo 202.032	497.309	ppb	4.4287	0.9	3217.29
Na 330.237	7667.95	ppb	225.372	2.9	361.548
Ni 231.604	2543.91	ppb	16.5670	0.7	6014.23
Pb 220.353	505.658	ppb	4.5750	0.9	815.898
Sb 206.834	950.730	ppb	12.0061	1.3	955.033
Se 196.026	5031.22	ppb	22.4197	0.4	2307.32
Sn 189.925	5127.92	ppb	59.9244	1.2	3878.55
Sr 216.596	2513.61	ppb	13.5338	0.5	23634.6
Ti 334.941	504.724	ppb	3.1191	0.6	128712
Tl 190.794	5070.88	ppb	36.9085	0.7	3343.49
V 292.401	5025.06	ppb	33.1517	0.7	137812
Zn 206.200	2545.14	ppb	16.1209	0.6	3849.60

E03272013.wvq. All Data Report 3/28/2013, 2:04:12 PM

CCB (Samp) 3/28/2013, 1:34:02 PM Rack 4, Tube 56

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.4702u	-0.0139u	-0.8228u
Al 308.215	-0.2962u	1.7037	0.1706
As 188.980	-10.7677u	-3.8470u	-4.3004u
B 249.678	37.8309	31.6497	24.1835
Ba 389.178	0.2438	0.1232	0.3152
Be 313.042	-0.0306u	-0.0423u	-0.0405u
Ca 370.602	6.090	-7.420u	2.513
Cd 226.502	-0.0485u	-0.1141u	-0.1736u
Co 228.615	-0.2207u	0.1341	0.0351
Cr 267.716	-0.2549u	-0.1247u	-0.3542u
Cu 324.754	-0.4493u	0.0442	-0.3915u
Fe 271.441	-3.5792u	7.8217	-2.1157u
K 766.491	-0.2349u	-0.9738u	-0.5991u
Mg 279.078	1.2159	3.6450	5.7829
Mn 257.610	-0.1191u	-0.1099u	-0.1651u
Mo 202.032	0.1632	-0.3232u	-0.2707u
Na 330.237	50.7742	150.679	185.440
Ni 231.604	0.3223	-0.0938u	0.8067
Pb 220.353	2.2994	-2.4449u	-3.9579u
Sb 206.834	5.3554	9.5732	-2.2522u
Se 196.026	11.6562	-3.3106u	7.5187
Sn 189.925	4.2351	-3.2434u	-3.7478u
Sr 216.596	-0.1609u	-0.0533u	-0.3397u
Ti 334.941	0.1048	-0.0476u	-0.0534u
Tl 190.794	-1.6525u	-1.2303u	0.1947
V 292.401	0.5352	0.6229	0.4394
Zn 206.200	3.6511	3.6819	2.6767

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.4356	ppb	0.4056	93.1	-62.4305
Al 308.215	0.5260	ppb	1.0463	198.9	246.714
As 188.980	-6.3050	ppb	3.8715	61.4	-1.3521
B 249.678	31.2213	ppb	6.8338	21.9	644.352
Ba 389.178	0.2274	ppb	0.0971	42.7	-12.9314
Be 313.042	-0.0378	ppb	0.0063	16.7	-245.825
Ca 370.602	0.3945	ppb	7.000	1774.4	-2.204
Cd 226.502	-0.1120	ppb	0.0626	55.9	9.0038
Co 228.615	-0.0172	ppb	0.1831	1066.1	13.4874
Cr 267.716	-0.2446	ppb	0.1151	47.1	-0.8271
Cu 324.754	-0.2655	ppb	0.2698	101.6	94.9349
Fe 271.441	0.7089	ppb	6.2031	875.0	3.6451
K 766.491	-0.6026	ppb	0.3695	61.3	195.700
Mg 279.078	3.5479	ppb	2.2851	64.4	29.0313
Mn 257.610	-0.1313	ppb	0.0296	22.5	41.8933
Mo 202.032	-0.1436	ppb	0.2670	186.0	14.3512
Na 330.237	128.964	ppb	69.9098	54.2	2.7235
Ni 231.604	0.3451	ppb	0.4507	130.6	1.7655
Pb 220.353	-1.3678	ppb	3.2647	238.7	0.2752
Sb 206.834	4.2255	ppb	5.9931	141.8	5.3229
Se 196.026	5.2881	ppb	7.7287	146.2	2.5910
Sn 189.925	-0.9187	ppb	4.4704	486.6	0.1193
Sr 216.596	-0.1846	ppb	0.1447	78.4	8.7561
Ti 334.941	0.0012	ppb	0.0897	7192.3	-29.7587
Tl 190.794	-0.8960	ppb	0.9679	108.0	-0.8497
V 292.401	0.5325	ppb	0.0918	17.2	8.9928
Zn 206.200	3.3366	ppb	0.5717	17.1	57.58241



E03292013.vvq. All Data Report 3/30/2013, 8:54:32 AM

Blank (Blk)	3/29/2013, 9:40:05 AM		Rack S, Tube 1
Label	Replicates Concentration		
Ag 328.068	-0.3114	-0.1774	0.4888
Al 308.215	0.9887	0.2339	-1.2226
As 188.980	0.1436	1.4883	-1.6320
B 249.678	0.3788	0.1864	-0.5653
Ba 389.178	-0.0892	0.0509	0.0382
Be 313.042	-0.0092	-0.0041	0.0133
Ca 370.602	1.960	-4.383	2.423
Cd 226.502	0.0063	-0.0099	0.0037
Co 228.615	-0.4522	0.5643	-0.1121
Cr 267.716	-0.0485	-0.0089	0.0573
Cu 324.754	-0.1577	-0.5588	0.7165
Fe 271.441	-2.2191	3.6887	-1.4696
K 766.491	0.1960	0.2156	-0.4116
Mg 279.078	-2.3348	-3.9039	6.2388
Mn 257.610	-0.0084	-0.0175	0.0259
Mo 202.032	-0.0649	0.2665	-0.2016
Na 330.237	10.1401	16.7100	-26.8501
Ni 231.604	1.3021	-1.0133	-0.2888
Pb 220.353	-0.4645	-1.6177	2.0822
Sb 206.834	-4.3401	10.3104	-5.9703
Se 196.026	-2.2943	7.9353	-5.6411
Sn 189.925	0.7509	-3.0814	2.3304
Sr 216.596	0.0460	-0.2826	0.2366
Ti 334.941	0.0805	-0.0470	-0.0336
Tl 190.794	0.1445	0.4791	-0.6237
V 292.401	-0.0520	0.1104	-0.0584
Zn 206.200	-0.1770	0.0971	0.0798

Label	Sol'n Conc.	Units	SD(Int)	%RSD(Int)	Int. (c/s)
Ag 328.068	0.0000	ppb	30.494	53.9	-56.5944
Al 308.215	0.0000	ppb	6.493	2.4	266.404
As 188.980	0.0000	ppb	1.038	138.2	-0.7505
B 249.678	0.0000	ppb	4.673	2.7	170.641
Ba 389.178	0.0000	ppb	1.609	45.7	-3.5215
Be 313.042	0.0000	ppb	22.790	15.4	-148.410
Ca 370.602	0.0000	ppb	12.254	183.6	-6.674
Cd 226.502	0.0000	ppb	0.312	3.5	9.0128
Co 228.615	0.0000	ppb	5.911	37.9	15.5805
Cr 267.716	0.0000	ppb	2.232	68.9	3.2384
Cu 324.754	0.0000	ppb	31.857	35.3	90.2581
Fe 271.441	0.0000	ppb	5.413	161.8	3.3446
K 766.491	0.0000	ppb	17.108	7.4	231.850
Mg 279.078	0.0000	ppb	11.268	38.5	29.2344
Mn 257.610	0.0000	ppb	5.273	5.7	92.9207
Mo 202.032	0.0000	ppb	1.543	11.1	13.9341
Na 330.237	0.0000	ppb	1.209	30.7	-3.9320
Ni 231.604	0.0000	ppb	2.802	21355.5	-0.0131
Pb 220.353	0.0000	ppb	3.056	87.2	3.5065
Sb 206.834	0.0000	ppb	5.542	566.1	0.9790
Se 196.026	0.0000	ppb	2.297	1305.5	-0.1759
Sn 189.925	0.0000	ppb	2.083	509.8	0.4086
Sr 216.596	0.0000	ppb	2.452	22.3	10.9914
Ti 334.941	0.0000	ppb	17.740	28.8	-61.5679
Tl 190.794	0.0000	ppb	0.370	21.9	-1.6855
V 292.401	0.0000	ppb	2.621	47.5	5.5200
Zn 206.200	0.0000	ppb	0.237	13.2	1.8037

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**HIGH STD (Std)**                      **3/29/2013, 9:43:33 AM**                      **Rack S, Tube 2**

<b>Label</b>	<b>Replicates Concentration</b>		
Ag 328.068	1006.06	990.889	1003.05
Al 308.215	10016.6	10000.6	9982.85
As 188.980	1002.14	1007.33	990.522
B 249.678	4962.78	5005.83	5031.39
Ba 389.178	10002.5	9988.30	10009.2
Be 313.042	1001.17	1001.29	997.547
Ca 370.602	10026	10008	9966
Cd 226.502	1003.39	998.688	997.924
Co 228.615	1000.39	998.918	1000.69
Cr 267.716	10034.0	10009.7	9956.23
Cu 324.754	9936.35	10033.1	10030.6
Fe 271.441	10019.7	10003.2	9977.02
K 766.491	19998.5	20012.0	19989.4
Mg 279.078	10019.9	10009.5	9970.53
Mn 257.610	10028.1	10005.8	9966.10
Mo 202.032	1000.43	999.462	1000.11
Na 330.237	14780.0	15137.6	15082.4
Ni 231.604	5009.46	5002.36	4988.18
Pb 220.353	999.622	996.681	1003.70
Sb 206.834	5006.95	5016.29	4976.76
Se 196.026	9981.77	9955.73	10062.5
Sn 189.925	9914.62	10034.1	10051.3
Sr 216.596	5017.26	5007.56	4975.18
Ti 334.941	1001.24	1002.23	996.526
Tl 190.794	10008.2	10000.7	9991.13
V 292.401	10017.3	10003.6	9979.03
Zn 206.200	5020.08	4986.08	4993.84

<b>Label</b>	<b>Sol'n Conc.</b>	<b>Units</b>	<b>SD(Int)</b>	<b>%RSD(Int)</b>	<b>Int. (c/s)</b>
Ag 328.068	1000.00	ppb	571.569	0.8	71093.6
Al 308.215	10000.0	ppb	97.390	0.2	58027.6
As 188.980	1000.00	ppb	5.707	0.9	662.171
B 249.678	5000.00	ppb	324.807	0.7	47008.8
Ba 389.178	10000.0	ppb	221.594	0.1	207669
Be 313.042	1000.00	ppb	4108.549	0.2	1933003
Ca 370.602	10000	ppb	99.188	0.3	32217
Cd 226.502	1000.00	ppb	105.842	0.3	35785.1
Co 228.615	1000.00	ppb	10.833	0.1	11439.2
Cr 267.716	10000.0	ppb	1663.074	0.4	417797
Cu 324.754	10000.0	ppb	2693.839	0.6	488638
Fe 271.441	10000.0	ppb	36.259	0.2	16833.5
K 766.491	20000.0	ppb	544.859	0.1	959691
Mg 279.078	10000.0	ppb	53.757	0.3	20667.7
Mn 257.610	10000.0	ppb	7230.887	0.3	2301893
Mo 202.032	1000.00	ppb	3.154	0.0	6425.00
Na 330.237	15000.0	ppb	9.909	1.3	768.086
Ni 231.604	5000.00	ppb	25.626	0.2	11830.2
Pb 220.353	1000.00	ppb	5.689	0.4	1617.93
Sb 206.834	5000.00	ppb	12.769	0.4	3091.29
Se 196.026	10000.0	ppb	18.079	0.6	3247.38
Sn 189.925	10000.0	ppb	55.721	0.7	7485.65
Sr 216.596	5000.00	ppb	205.665	0.4	46686.3
Ti 334.941	1000.00	ppb	771.864	0.3	253080
Tl 190.794	10000.0	ppb	5.585	0.1	6539.09
V 292.401	10000.0	ppb	531.730	0.2	273962
Zn 206.200	5000.00	ppb	27.548	0.4	7733.42

**Ag 328.068 Calibration (ppb) 3/29/2013, 9:43:33 AM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-56.5944	0.0000	0.0000	-	-
HIGH STD		71093.6	1000.00	1000.00	0.0000	0.0

Curve Type: Linear Equation:  $y = 71.2 x + -56.6$

**Al 308.215 Calibration (ppb) 3/29/2013, 9:43:33 AM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		266.404	0.0000	0.0000	-	-
HIGH STD		58027.6	10000.0	10000.00	-0.0010	0.0

Curve Type: Linear Equation:  $y = 5.8 x + 266.4$

**As 188.980 Calibration (ppb) 3/29/2013, 9:43:33 AM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-0.7505	0.0000	0.0000	-	-
HIGH STD		662.171	1000.00	1000.00	0.0001	0.0

Curve Type: Linear Equation:  $y = 0.7 x + -0.8$

**B 249.678 Calibration (ppb) 3/29/2013, 9:43:33 AM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		170.641	0.0000	0.0000	-	-
HIGH STD		47008.8	5000.00	5000.00	0.0000	0.0

Curve Type: Linear Equation:  $y = 9.4 x + 170.6$

**Ba 389.178 Calibration (ppb) 3/29/2013, 9:43:33 AM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-3.5215	0.0000	0.0000	-	-
HIGH STD		207669	10000.0	10000.0	0.0010	0.0

Curve Type: Linear Equation:  $y = 20.8 x + -3.5$

**Be 313.042 Calibration (ppb) 3/29/2013, 9:43:33 AM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-148.410	0.0000	0.0000	-	-
HIGH STD		1933003	1000.00	1000.00	0.0001	0.0

Curve Type: Linear Equation:  $y = 1933.2 x + -148.4$

**Ca 370.602 Calibration (ppb) 3/29/2013, 9:43:33 AM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-6.674	0.0000	0.0000	-	-
HIGH STD		32217	10000	10000	-0.0010	0.0

Curve Type: Linear Equation:  $y = 3.2 x + -6.7$



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**Cd 226.502 Calibration (ppb) 3/29/2013, 9:43:33 AM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		9.0128	0.0000	0.0000	-	-
HIGH STD		35785.1	1000.00	1000.000	-0.0001	0.0

Curve Type: Linear Equation:  $y = 35.8 x + 9.0$ **Co 228.615 Calibration (ppb) 3/29/2013, 9:43:33 AM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		15.5805	0.0000	0.0000	-	-
HIGH STD		11439.2	1000.00	1000.00	0.0000	0.0

Curve Type: Linear Equation:  $y = 11.4 x + 15.6$ **Cr 267.716 Calibration (ppb) 3/29/2013, 9:43:33 AM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		3.2384	0.0000	0.0000	-	-
HIGH STD		417797	10000.0	10000.0	0.0010	0.0

Curve Type: Linear Equation:  $y = 41.8 x + 3.2$ **Cu 324.754 Calibration (ppb) 3/29/2013, 9:43:33 AM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		90.2581	0.0000	0.0000	-	-
HIGH STD		488638	10000.0	10000.0	0.0010	0.0

Curve Type: Linear Equation:  $y = 48.9 x + 90.3$ **Fe 271.441 Calibration (ppb) 3/29/2013, 9:43:33 AM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		3.3446	0.0000	0.0000	-	-
HIGH STD		16833.5	10000.0	10000.00	-0.0010	0.0

Curve Type: Linear Equation:  $y = 1.7 x + 3.3$ **K 766.491 Calibration (ppb) 3/29/2013, 9:43:33 AM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		231.850	0.0000	0.0000	-	-
HIGH STD		959691	20000.0	20000.0	0.0000	0.0

Curve Type: Linear Equation:  $y = 48.0 x + 231.9$ **Mg 279.078 Calibration (ppb) 3/29/2013, 9:43:33 AM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		29.2344	0.0000	0.0000	-	-
HIGH STD		20667.7	10000.0	10000.0	0.0000	0.0

Curve Type: Linear Equation:  $y = 2.1 x + 29.2$

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**Mn 257.610 Calibration (ppb) 3/29/2013, 9:43:33 AM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		92.9207	0.0000	0.0000	-	-
HIGH STD		2301893	10000.0	10000.0	0.0000	0.0

Curve Type: Linear Equation:  $y = 230.2 x + 92.9$ **Mo 202.032 Calibration (ppb) 3/29/2013, 9:43:33 AM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		13.9341	0.0000	0.0000	-	-
HIGH STD		6425.00	1000.00	1000.00	0.0000	0.0

Curve Type: Linear Equation:  $y = 6.4 x + 13.9$ **Na 330.237 Calibration (ppb) 3/29/2013, 9:43:33 AM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-3.9320	0.0000	0.0000	-	-
HIGH STD		768.086	15000.0	15000.0	0.0000	0.0

Curve Type: Linear Equation:  $y = 0.1 x + -3.9$ **Ni 231.604 Calibration (ppb) 3/29/2013, 9:43:33 AM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-0.0131	0.0000	0.0000	-	-
HIGH STD		11830.2	5000.00	5000.00	0.0005	0.0

Curve Type: Linear Equation:  $y = 2.4 x + 0.0$ **Pb 220.353 Calibration (ppb) 3/29/2013, 9:43:33 AM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		3.5065	0.0000	0.0000	-	-
HIGH STD		1617.93	1000.00	1000.00	0.0000	0.0

Curve Type: Linear Equation:  $y = 1.6 x + 3.5$ **Sb 206.834 Calibration (ppb) 3/29/2013, 9:43:33 AM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		0.9790	0.0000	0.0000	-	-
HIGH STD		3091.29	5000.00	5000.00	0.0000	0.0

Curve Type: Linear Equation:  $y = 0.6 x + 1.0$ **Se 196.026 Calibration (ppb) 3/29/2013, 9:43:33 AM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-0.1759	0.0000	0.0000	-	-
HIGH STD		3247.38	10000.0	10000.0	0.0000	0.0

Curve Type: Linear Equation:  $y = 0.3 x + -0.2$

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**Sn 189.925 Calibration (ppb) 3/29/2013, 9:43:33 AM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		0.4086	0.0000	0.0000	-	-
HIGH STD		7485.65	10000.0	10000.0	0.0010	0.0

Curve Type: Linear Equation:  $y = 0.7 x + 0.4$ **Sr 216.596 Calibration (ppb) 3/29/2013, 9:43:33 AM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		10.9914	0.0000	0.0000	-	-
HIGH STD		46686.3	5000.00	5000.00	-0.0005	0.0

Curve Type: Linear Equation:  $y = 9.3 x + 11.0$ **Ti 334.941 Calibration (ppb) 3/29/2013, 9:43:33 AM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-61.5679	0.0000	0.0000	-	-
HIGH STD		253080	1000.00	1000.00	0.0000	0.0

Curve Type: Linear Equation:  $y = 253.1 x + -61.6$ **Tl 190.794 Calibration (ppb) 3/29/2013, 9:43:33 AM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-1.6855	0.0000	0.0000	-	-
HIGH STD		6539.09	10000.0	10000.0	0.0000	0.0

Curve Type: Linear Equation:  $y = 0.7 x + -1.7$ **V 292.401 Calibration (ppb) 3/29/2013, 9:43:33 AM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		5.5200	0.0000	0.0000	-	-
HIGH STD		273962	10000.0	10000.0	0.0000	0.0

Curve Type: Linear Equation:  $y = 27.4 x + 5.5$ **Zn 206.200 Calibration (ppb) 3/29/2013, 9:43:33 AM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		1.8037	0.0000	0.0000	-	-
HIGH STD		7733.42	5000.00	5000.00	0.0000	0.0

Curve Type: Linear Equation:  $y = 1.5 x + 1.8$ **Lab Control Sample (LCS) 3/29/2013, 9:46:57 AM Rack S, Tube 2****Weight: 1 Volume: 1 Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	991.801	1001.90	984.504
Al 308.215	9991.04	9970.92	9963.63
As 188.980	998.140	991.228	1009.13
B 249.678	5200.43x	5202.22x	5232.50x
Ba 389.178	10004.1	10015.1	9990.19

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Label	Replicates Concentration		
Be 313.042	999.446	993.939	993.539
Ca 370.602	9938	9911	9922
Cd 226.502	997.625	997.891	997.693
Co 228.615	1000.41	995.295	996.314
Cr 267.716	9969.13	9918.81	9933.05
Cu 324.754	9967.17	9616.01	9763.83
Fe 271.441	9973.71	9967.53	9975.04
K 766.491	20052.3	19973.1	19876.5
Mg 279.078	9967.37	9945.64	9949.47
Mn 257.610	9997.65	9965.72	9982.64
Mo 202.032	1001.20	998.201	1000.79
Na 330.237	14815.6	15095.6	14717.4
Ni 231.604	4985.11	4974.76	4978.49
Pb 220.353	993.607	993.847	995.478
Sb 206.834	4997.64x	4971.16x	4955.82x
Se 196.026	9995.82	10028.8	9999.93
Sn 189.925	9975.50	10031.3	9840.28
Sr 216.596	4987.52	4957.50	4962.73
Ti 334.941	999.310	993.806	993.016
Tl 190.794	10042.3	9980.37	10005.1
V 292.401	10005.4	9961.90	9972.87
Zn 206.200	4995.44	4979.39	4984.94

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	992.734b	ppb	8.7336	0.9	70464.1	99.27339
Al 308.215	9975.20b	ppb	14.1994	0.1	57839.0	99.75196
As 188.980	999.499b	ppb	9.0285	0.9	661.533	99.94994
B 249.678	5211.72xb	ppb	18.0181	0.3	48982.6	104.23433
Ba 389.178	10003.1b	ppb	12.4893	0.1	207769	100.03136
Be 313.042	995.641b	ppb	3.3008	0.3	1924044	99.56413
Ca 370.602	9924b	ppb	13.93	0.1	31707	99.23653
Cd 226.502	997.736b	ppb	0.1383	0.0	35725.8	99.77364
Co 228.615	997.341b	ppb	2.7097	0.3	11426.0	99.73411
Cr 267.716	9940.33b	ppb	25.9403	0.3	415254	99.40329
Cu 324.754	9782.34b	ppb	176.311	1.8	477937	97.82339
Fe 271.441	9972.09b	ppb	4.0070	0.0	17030.3	99.72090
K 766.491	19967.3b	ppb	88.0272	0.4	958124	99.83663
Mg 279.078	9954.16b	ppb	11.5983	0.1	20415.4	99.54157
Mn 257.610	9982.00b	ppb	15.9759	0.2	2297836	99.82001
Mo 202.032	1000.06b	ppb	1.6247	0.2	6408.32	100.00626
Na 330.237	14876.2b	ppb	196.260	1.3	713.859	99.17464
Ni 231.604	4979.46b	ppb	5.2415	0.1	11781.8	99.58910
Pb 220.353	994.311b	ppb	1.0181	0.1	1608.52	99.43110
Sb 206.834	4974.87xb	ppb	21.1527	0.4	3133.94	99.49747
Se 196.026	10008.2b	ppb	17.9718	0.2	3251.70	100.08183
Sn 189.925	9949.04b	ppb	98.2356	1.0	7447.51	99.49035
Sr 216.596	4969.25b	ppb	16.0371	0.3	46299.0	99.38506
Ti 334.941	995.377b	ppb	3.4282	0.3	251950	99.53773
Tl 190.794	10009.3b	ppb	31.1860	0.3	6538.57	100.09274
V 292.401	9980.05b	ppb	22.6166	0.2	272623	99.80048
Zn 206.200	4986.59b	ppb	8.1515	0.2	7682.47	99.73178

Initial Calib Verif (ICV)

3/29/2013, 10:00:52 AM

Rack S, Tube 3

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	998.576	1003.44	990.041
Al 308.215	954.991	966.899	958.227

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Label	Replicates Concentration		
As 188.980	960.861	979.702	961.380
B 249.678	1078.50	1096.75	1089.83
Ba 389.178	1022.63	1027.87	1018.13
Be 313.042	1016.84x	1026.98x	1017.96x
Ca 370.602	978.5	998.6	997.3
Cd 226.502	1015.20x	1026.36x	1018.30x
Co 228.615	977.203	983.453	967.064
Cr 267.716	995.287	1005.01	999.484
Cu 324.754	995.346	998.746	983.872
Fe 271.441	991.272	1002.51	991.355
K 766.491	10348.7	10450.9	10335.3
Mg 279.078	1027.71	1034.79	1029.04
Mn 257.610	1026.96	1036.55	1028.27
Mo 202.032	1007.71x	1018.27x	1013.95x
Na 330.237	9791.94	9843.02	9516.06
Ni 231.604	1020.92	1034.10	1023.11
Pb 220.353	1018.54	1038.64	1033.72
Sb 206.834	964.725	965.860	962.212
Se 196.026	1012.73	996.491	1004.52
Sn 189.925	5063.13	5119.27	5047.57
Sr 216.596	4958.67	5008.74	4972.21
Ti 334.941	1002.54	1010.65	1003.05
Tl 190.794	1036.64	1022.28	1030.50
V 292.401	1015.17	1023.58	1015.48
Zn 206.200	999.807	1007.83	1010.62

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	997.354b	ppb	6.7845	0.7	70701.8	99.73537
Al 308.215	960.039b	ppb	6.1574	0.6	5928.77	96.00390
As 188.980	967.314b	ppb	10.7312	1.1	640.210	96.73142
B 249.678	1088.36b	ppb	9.2146	0.8	10365.0	108.83588Q
Ba 389.178	1022.88b	ppb	4.8765	0.5	21246.6	102.28770
Be 313.042	1020.59xb	ppb	5.5589	0.5	1972607	102.05903
Ca 370.602	991.4b	ppb	11.22	1.1	3326	99.14371
Cd 226.502	1019.95xb	ppb	5.7622	0.6	36501.3	101.99540
Co 228.615	975.907b	ppb	8.2710	0.8	11155.9	97.59067
Cr 267.716	999.928b	ppb	4.8774	0.5	41768.6	99.99278
Cu 324.754	992.655b	ppb	7.7933	0.8	48604.0	99.26547
Fe 271.441	995.046b	ppb	6.4641	0.6	1837.17	99.50455
K 766.491	10378.3b	ppb	63.2273	0.6	498111	103.78323
Mg 279.078	1030.52b	ppb	3.7654	0.4	2139.80	103.05150
Mn 257.610	1030.59b	ppb	5.1990	0.5	237324	103.05931
Mo 202.032	1013.31xb	ppb	5.3077	0.5	6508.59	101.33092
Na 330.237	9717.01b	ppb	175.889	1.8	480.531	97.17007
Ni 231.604	1026.04b	ppb	7.0617	0.7	2427.67	102.60415
Pb 220.353	1030.30b	ppb	10.4777	1.0	1664.90	103.03030
Sb 206.834	964.266b	ppb	1.8670	0.2	600.094	96.42657
Se 196.026	1004.58b	ppb	8.1193	0.8	326.239	100.45811
Sn 189.925	5076.66b	ppb	37.7117	0.7	3800.41	101.53313
Sr 216.596	4979.87b	ppb	25.8992	0.5	46452.0	99.59746
Ti 334.941	1005.41b	ppb	4.5417	0.5	254454	100.54146
Tl 190.794	1029.81b	ppb	7.2069	0.7	671.243	102.98055
V 292.401	1018.08b	ppb	4.7662	0.5	27652.3	101.80775
Zn 206.200	1006.09b	ppb	5.6129	0.6	1554.51	100.60857

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Initial Calib Blank (ICB) 3/29/2013, 10:06:16 AM Rack S, Tube 1

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.5310	-0.6707u	1.0510
Al 308.215	-2.7690u	-3.8921u	-1.9108u
As 188.980	6.3228	8.4929	-1.1612u
B 249.678	46.7711	41.8896	39.7699
Ba 389.178	0.8814	0.1321	-1.2385u
Be 313.042	0.0210	0.0121	0.0115
Ca 370.602	4.074	1.814	5.468
Cd 226.502	0.0674	0.1392	0.0416
Co 228.615	-0.2307u	-0.3830u	-0.1506u
Cr 267.716	0.3703	0.2770	0.0963
Cu 324.754	0.5702	0.4778	0.1030
Fe 271.441	5.7718	6.6659	-3.3554u
K 766.491	-0.5427u	0.0348	0.1784
Mg 279.078	-3.5844u	1.3716	3.7053
Mn 257.610	0.0934	0.0556	0.0583
Mo 202.032	2.5556	1.6778	1.6526
Na 330.237	226.059	-157.150u	264.648
Ni 231.604	-0.2278u	-0.7629u	1.1287
Pb 220.353	-1.3956u	-2.3809u	-2.5944u
Sb 206.834	8.6200	-9.8371u	3.5347
Se 196.026	-3.7589u	-5.7948u	8.5631
Sn 189.925	4.7453	-0.3484u	1.0749
Sr 216.596	-0.3946u	0.0420	0.5912
Ti 334.941	0.3712	0.3925	0.2888
Tl 190.794	6.5643	1.5584	0.9034
V 292.401	0.0409	0.3246	-0.0316u
Zn 206.200	-0.3657u	-0.2522u	0.2565

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.3038	ppb	0.8831	290.7	-34.9752	0.30376
Al 308.215	-2.8573	ppb	0.9936	34.8	250.168	-2.85730
As 188.980	4.5515	ppb	5.0649	111.3	2.2662	4.55152
B 249.678	42.8102	ppb	3.5903	8.4	571.668	42.81018
Ba 389.178	-0.0750	ppb	1.0750	1433.6	-5.0669	-0.07499
Be 313.042	0.0149	ppb	0.0053	35.5	-119.973	0.01488
Ca 370.602	3.785	ppb	1.844	48.7	5.323	3.78521
Cd 226.502	0.0827	ppb	0.0506	61.2	11.9792	0.08274
Co 228.615	-0.2548	ppb	0.1181	46.3	12.6094	-0.25481
Cr 267.716	0.2479	ppb	0.1393	56.2	13.5958	0.24786
Cu 324.754	0.3837	ppb	0.2474	64.5	109.056	0.38365
Fe 271.441	3.0274	ppb	5.5457	183.2	8.4283	3.02745
K 766.491	-0.1098	ppb	0.3817	347.5	226.580	-0.10985
Mg 279.078	0.4975	ppb	3.7227	748.3	30.2612	0.49750
Mn 257.610	0.0691	ppb	0.0211	30.5	108.841	0.06910
Mo 202.032	1.9620	ppb	0.5142	26.2	26.5123	1.96199
Na 330.237	111.186	ppb	233.185	209.7	1.7888	111.18568
Ni 231.604	0.0460	ppb	0.9751	2118.6	0.0958	0.04602
Pb 220.353	-2.1236	ppb	0.6395	30.1	0.0754	-2.12365
Sb 206.834	0.7725	ppb	9.5336	1234.1	1.4403	0.77251
Se 196.026	-0.3302	ppb	7.7688	2353.0	-0.2832	-0.33017
Sn 189.925	1.8239	ppb	2.6282	144.1	1.7739	1.82394
Sr 216.596	0.0796	ppb	0.4940	621.0	11.6692	0.07955
Ti 334.941	0.3509	ppb	0.0548	15.6	27.2470	0.35086
Tl 190.794	3.0087	ppb	3.0966	102.9	0.2817	3.00873
V 292.401	0.1113	ppb	0.1882	169.1	8.1722	0.11131
Zn 206.200	-0.1205	ppb	0.3314	322.1	5.156171	-0.12047

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**CRI (CRI)** **3/29/2013, 10:11:41 AM** **Rack S, Tube 4**  
**Weight: 1** **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	9.4517	9.1762	9.8895
Al 308.215	203.637	203.052	200.011
As 188.980	22.5666	21.6325	29.2100
B 249.678	118.593	115.592	118.506
Ba 389.178	10.3431	10.3908	10.5687
Be 313.042	4.2049	4.1619	4.1940
Ca 370.602	512.8	508.6	520.1
Cd 226.502	5.4039	5.2351	5.3488
Co 228.615	9.3408	9.7865	10.9840
Cr 267.716	10.3563	10.1978	10.1269
Cu 324.754	20.6526	20.6191	20.5527
Fe 271.441	53.8688	61.4904	52.4785
K 766.491	1075.61	1051.21	1064.46
Mg 279.078	525.985	521.911	532.139
Mn 257.610	10.5712	10.5915	10.5951
Mo 202.032	10.5199	9.3148	9.9788
Na 330.237	1184.87	946.751	1246.71
Ni 231.604	41.7841	40.3854	41.8546
Pb 220.353	9.6236	10.5187	10.4013
Sb 206.834	18.8499	17.1858	25.5052
Se 196.026	18.1258	27.1672	26.4228
Sn 189.925	51.1434	53.6989	54.3604
Sr 216.596	10.3847	9.4328	10.5695
Ti 334.941	10.2298	10.1789	10.1344
Tl 190.794	29.8586	22.4641	33.6106
V 292.401	10.1452	10.2718	10.3977
Zn 206.200	20.7345	20.5589	23.0408

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	9.5058	ppb	0.3597	3.8	619.420	95.05823
Al 308.215	202.234	ppb	1.9467	1.0	1435.68	101.11681
As 188.980	24.4697	ppb	4.1317	16.9	15.4721	122.34840R
B 249.678	117.564	ppb	1.7084	1.5	1271.88	117.56367
Ba 389.178	10.4342	ppb	0.1189	1.1	213.512	104.34175
Be 313.042	4.1869	ppb	0.0224	0.5	7943.57	104.67324
Ca 370.602	513.8	ppb	5.802	1.1	1647	102.76522
Cd 226.502	5.3293	ppb	0.0861	1.6	199.797	106.58559
Co 228.615	10.0371	ppb	0.8498	8.5	130.165	100.37101
Cr 267.716	10.2270	ppb	0.1174	1.1	430.475	102.26998
Cu 324.754	20.6081	ppb	0.0509	0.2	1097.25	103.04070
Fe 271.441	55.9459	ppb	4.8517	8.7	99.1626	111.89177
K 766.491	1063.76	ppb	12.2164	1.1	51263.5	106.37589
Mg 279.078	526.678	ppb	5.1495	1.0	1116.00	105.33566
Mn 257.610	10.5859	ppb	0.0129	0.1	2532.80	105.85924
Mo 202.032	9.9379	ppb	0.6036	6.1	77.6268	99.37852
Na 330.237	1126.11	ppb	158.380	14.1	53.7713	112.61123
Ni 231.604	41.3414	ppb	0.8287	2.0	97.8036	103.35342
Pb 220.353	10.1812	ppb	0.4864	4.8	19.9204	101.81209
Sb 206.834	20.5136	ppb	4.4022	21.5	13.6624	102.56805
Se 196.026	23.9053	ppb	5.0190	21.0	7.5894	119.52635
Sn 189.925	53.0676	ppb	1.6989	3.2	40.1315	106.13511
Sr 216.596	10.1290	ppb	0.6099	6.0	104.688	101.28996
Ti 334.941	10.1811	ppb	0.0477	0.5	2517.75	101.81056
Tl 190.794	28.6444	ppb	5.6716	19.8	17.0421	114.57764
V 292.401	10.2716	ppb	0.1262	1.2	284.498	102.71550
Zn 206.200	21.4447	ppb	1.3850	6.5	34.9336	107.22373

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**Interf Check A (ICSA)                      3/29/2013, 10:25:25 AM                      Rack S, Tube 5**  
**Weight: 1    Volume: 1    Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-2.1717u	-1.4370u	-0.8068u
Al 308.215	534694	534507	535521
As 188.980	-0.0930	-9.3725u	-0.7861
B 249.678	-22.5383u	-21.8149u	-21.0830u
Ba 389.178	2.1733	3.3123	2.7583
Be 313.042	-0.1734u	-0.1735u	-0.1761u
Ca 370.602	496486	497964	499065
Cd 226.502	1.6944	1.9555	2.0014
Co 228.615	-0.7029u	1.2299	-0.2266u
Cr 267.716	0.6455	0.8697	0.7445
Cu 324.754	-0.5705	-0.4151	-0.2860
Fe 271.441	198436	198269	198718
K 766.491	0.7441	-0.2023u	0.0682
Mg 279.078	546226	544995	548699
Mn 257.610	-0.5053	-0.6213	-0.4935
Mo 202.032	1.6329	2.3937	1.3172u
Na 330.237	-497.338u	-726.474u	-514.660u
Ni 231.604	0.1598	3.9989	3.8767
Pb 220.353	0.5477u	2.8526u	-3.1842u
Sb 206.834	7.9875	1.2224	7.0687
Se 196.026	2.0564	6.8729	10.3584
Sn 189.925	-1.5672u	-1.0367u	-5.5266u
Sr 216.596	1.0374	0.8687	0.7362
Ti 334.941	0.1476	-0.1064	-0.0233
Tl 190.794	11.3731	-9.8026u	-0.3326u
V 292.401	-3.1355u	-3.1479u	-2.9032u
Zn 206.200	22.0348	16.8032	20.1485

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	-1.4718	ppb	0.6831	46.4	-168.427	-1.47184
Al 308.215	534907	ppb	540.063	0.1	3089952	-
As 188.980	-3.4172	ppb	5.1691	151.3	-0.7266	-3.41722
B 249.678	-21.8121	ppb	0.7277	3.3	-219.451	-21.81206
Ba 389.178	2.7479	ppb	0.5696	20.7	435.396	2.74795
Be 313.042	-0.1743	ppb	0.0015	0.9	-281.943	-0.17433
Ca 370.602	497838	ppb	1294	0.3	1587833	-
Cd 226.502	1.8837	ppb	0.1656	8.8	511.485	1.88374
Co 228.615	0.1001	ppb	1.0070	1005.5	10.2163	0.10014
Cr 267.716	0.7533	ppb	0.1123	14.9	80.2157	0.75325
Cu 324.754	-0.4239	ppb	0.1425	33.6	127.134	-0.42388
Fe 271.441	198474	ppb	226.958	0.1	334038	-
K 766.491	0.2033	ppb	0.4874	239.7	241.605	0.20334
Mg 279.078	546640	ppb	1886.29	0.3	1128089	-
Mn 257.610	-0.5400	ppb	0.0706	13.1	3683.41	-0.54000
Mo 202.032	1.7813	ppb	0.5534	31.1	16.5469	1.78126
Na 330.237	-579.491	ppb	127.586	22.0	-93.6062	-579.49054
Ni 231.604	2.6785	ppb	2.1821	81.5	10.2203	2.67850
Pb 220.353	0.0721	ppb	3.0464	4226.9	-5.8351	0.07207
Sb 206.834	5.4262	ppb	3.6695	67.6	7.1303	5.42621
Se 196.026	6.4292	ppb	4.1687	64.8	2.6797	6.42924
Sn 189.925	-2.7101	ppb	2.4535	90.5	-1.4383	-2.71013
Sr 216.596	0.8808	ppb	0.1509	17.1	133.187	0.88076
Ti 334.941	0.0060	ppb	0.1295	2166.3	2213.01	0.00598
Tl 190.794	0.4127	ppb	10.6075	2570.5	-8.1101	0.41266
V 292.401	-3.0622	ppb	0.1378	4.5	-75.5624	-3.06221
Zn 206.200	19.6622	ppb	2.6495	13.5	32.2029	19.66215



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**Interf Check AB (ICSAB) 3/29/2013, 10:30:51 AM Rack S, Tube 6**  
**Weight: 1 Volume: 1 Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	219.153	220.744	221.455
Al 308.215	531065	531206	532220
As 188.980	109.103	111.673	115.730
B 249.678	-24.6211u	-23.5746u	-22.3688u
Ba 389.178	516.674	519.724	518.807
Be 313.042	498.131	498.083	498.733
Ca 370.602	495308	496360	493652
Cd 226.502	979.187	981.693	983.872
Co 228.615	482.816	483.595	488.256
Cr 267.716	500.497	499.862	500.833
Cu 324.754	534.621	544.762	538.883
Fe 271.441	197287	197569	197885
K 766.491	-0.3884u	0.7222	0.3016
Mg 279.078	546472	545902	548362
Mn 257.610	494.611	495.553	496.258
Mo 202.032	1083.27	1083.11	1089.44
Na 330.237	-58.6239u	1.6858u	-283.146u
Ni 231.604	963.045	971.054	966.562
Pb 220.353	46.7601	50.6506	49.2665
Sb 206.834	580.057	581.739	594.456
Se 196.026	45.9622	46.9220	28.8803
Sn 189.925	1053.86	1048.38	1054.24
Sr 216.596	1.2269	2.2519	1.8188
Ti 334.941	-6.3178	-6.3351	-6.3231
Tl 190.794	90.7053	92.7303	98.2195
V 292.401	501.572	501.706	502.098
Zn 206.200	960.552	962.316	968.850

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	220.451	ppb	1.1786	0.5	15626.5	110.22527
Al 308.215	531497	ppb	629.863	0.1	3070392	106.29942
As 188.980	112.169	ppb	3.3415	3.0	75.5784	112.16850
B 249.678	-23.5215	ppb	1.1271	4.8	-234.473	-
Ba 389.178	518.402	ppb	1.5645	0.3	11149.5	103.68034
Be 313.042	498.316	ppb	0.3621	0.1	963183	99.66310
Ca 370.602	495107	ppb	1365	0.3	1579136	99.02133
Cd 226.502	981.584	ppb	2.3442	0.2	35559.0	98.15842
Co 228.615	484.889	ppb	2.9422	0.6	5513.00	96.97780
Cr 267.716	500.397	ppb	0.4933	0.1	20944.3	100.07942
Cu 324.754	539.422	ppb	5.0920	0.9	26525.2	107.88442
Fe 271.441	197580	ppb	299.069	0.2	332613	98.79012
K 766.491	0.2118	ppb	0.5608	264.7	242.012	-
Mg 279.078	546912	ppb	1287.92	0.2	1128643	109.38236
Mn 257.610	495.474	ppb	0.8260	0.2	117855	99.09477
Mo 202.032	1085.27	ppb	3.6062	0.3	6962.10	108.52726
Na 330.237	-113.361	ppb	150.098	132.4	-76.2780	-
Ni 231.604	966.887	ppb	4.0144	0.4	2291.56	96.68867
Pb 220.353	48.8924	ppb	1.9720	4.0	71.5822	97.78481
Sb 206.834	585.417	ppb	7.8730	1.3	362.043	97.56954
Se 196.026	40.5882	ppb	10.1507	25.0	13.8495	81.17630
Sn 189.925	1052.16	ppb	3.2771	0.3	788.157	105.21606
Sr 216.596	1.7659	ppb	0.5146	29.1	92.6581	-
Ti 334.941	-6.3253	ppb	0.0089	0.1	611.326	-
Tl 190.794	93.8850	ppb	3.8879	4.1	52.6084	93.88505
V 292.401	501.792	ppb	0.2732	0.1	13512.3	100.35838
Zn 206.200	963.906	ppb	4.3718	0.5	1490.79	96.39059

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Cont Calib Verif (CCV) 3/29/2013, 10:36:16 AM Rack 1, Tube 1  
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	512.699	504.513	510.711
Al 308.215	5169.64	5143.02	5125.40
As 188.980	456.830	455.711	447.466
B 249.678	562.581	568.062	570.379
Ba 389.178	4828.53	4810.12	4806.27
Be 313.042	481.119	478.760	476.706
Ca 370.602	5002	4988	4979
Cd 226.502	478.608	477.150	476.791
Co 228.615	484.798	482.715	482.417
Cr 267.716	4803.12	4775.82	4753.43
Cu 324.754	4777.00	4659.54	4653.37
Fe 271.441	5150.79	5120.08	5118.96
K 766.491	10385.7	10382.8	10329.1
Mg 279.078	5083.71	5062.05	5032.62
Mn 257.610	4805.93	4784.34	4773.99
Mo 202.032	502.037	501.633	498.298
Na 330.237	7627.11	7526.98	7546.69
Ni 231.604	2437.21	2436.13	2424.86
Pb 220.353	504.316	511.403	506.024
Sb 206.834	1004.75	984.271	998.472
Se 196.026	5058.79	5047.36	5054.15
Sn 189.925	5158.39	5146.04	5123.04
Sr 216.596	2511.03	2499.39	2491.51
Ti 334.941	515.905	513.098	509.986
Tl 190.794	5167.16	5170.00	5170.70
V 292.401	5057.06	5033.51	5031.59
Zn 206.200	2395.02	2400.63	2390.82

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	509.308	ppb	4.2698	0.8	36124.6	101.86151
Al 308.215	5146.02	ppb	22.2699	0.4	29966.7	102.92042
As 188.980	453.336	ppb	5.1140	1.1	299.621	90.66716
B 249.678	567.007	ppb	4.0041	0.7	5477.30	22.68029Q
Ba 389.178	4814.97	ppb	11.8981	0.2	100008	96.29945
Be 313.042	478.862	ppb	2.2084	0.5	925296	95.77236
Ca 370.602	4989	ppb	11.69	0.2	15923	99.78819
Cd 226.502	477.516	ppb	0.9624	0.2	17103.9	95.50325
Co 228.615	483.310	ppb	1.2974	0.3	5544.87	96.66203
Cr 267.716	4777.46	ppb	24.8829	0.5	199577	95.54918
Cu 324.754	4696.64	ppb	69.6606	1.5	229509	93.93275
Fe 271.441	5129.95	ppb	18.0585	0.4	8756.90	102.59892
K 766.491	10365.9	ppb	31.8614	0.3	497513	103.65855
Mg 279.078	5059.46	ppb	25.6444	0.5	10395.4	101.18927
Mn 257.610	4788.09	ppb	16.2935	0.3	1102259	95.76175
Mo 202.032	500.656	ppb	2.0520	0.4	3215.04	100.13117
Na 330.237	7566.93	ppb	53.0443	0.7	362.201	100.89238
Ni 231.604	2432.73	ppb	6.8379	0.3	5756.05	97.30937
Pb 220.353	507.248	ppb	3.6986	0.7	822.266	101.44956
Sb 206.834	995.830	ppb	10.4905	1.1	644.194	99.58300
Se 196.026	5053.43	ppb	5.7501	0.1	1641.76	101.06868
Sn 189.925	5142.49	ppb	17.9451	0.3	3849.69	102.84982
Sr 216.596	2500.64	ppb	9.8239	0.4	23305.6	100.02570
Ti 334.941	512.996	ppb	2.9608	0.6	129820	102.59920
Tl 190.794	5169.29	ppb	1.8736	0.0	3376.33	103.38578
V 292.401	5040.72	ppb	14.1805	0.3	137717	100.81439
Zn 206.200	2395.49	ppb	4.9199	0.2	3691.54	95.81948

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Cont Calib Blank (CCB) 3/29/2013, 10:41:40 AM Rack 1, Tube 2

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.2222u	0.0397	-0.5590u
Al 308.215	-2.7691u	-1.8828u	-4.9994u
As 188.980	8.3903	1.6652	2.3063
B 249.678	5.4225	3.2551	3.2010
Ba 389.178	0.1406	0.8367	0.3658
Be 313.042	-0.0531u	-0.0412u	-0.0500u
Ca 370.602	2.230	6.333	0.4881
Cd 226.502	0.0011	-0.1630u	0.0369
Co 228.615	0.0302	-0.3100u	-0.3809u
Cr 267.716	-0.0016u	-0.1443u	-0.0947u
Cu 324.754	0.0158	-0.4482u	-0.1185u
Fe 271.441	6.8517	1.7925	-2.6905u
K 766.491	-0.5983u	-0.5524u	-0.1533u
Mg 279.078	1.1341	-0.7634u	0.8699
Mn 257.610	-0.2094u	-0.2641u	-0.2538u
Mo 202.032	-0.2935u	1.0600	0.2889
Na 330.237	160.214	122.118	51.5223
Ni 231.604	0.9143	-0.6881u	-0.3845u
Pb 220.353	1.2946	-3.3191u	-2.9772u
Sb 206.834	-0.8305u	-1.3877u	11.3093
Se 196.026	8.3714	-7.4643u	-13.9839u
Sn 189.925	2.3849	-2.6505u	-0.2482u
Sr 216.596	-0.2534u	-0.1046u	-0.1568u
Ti 334.941	0.0747	0.0567	0.0073
Tl 190.794	0.0078	-0.1835u	2.1775
V 292.401	-0.5143u	-0.1930u	0.1930
Zn 206.200	0.2729	1.3906	-0.6819u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	-0.2472	ppb	0.3002	121.4	-74.1585	-0.24717
Al 308.215	-3.2171	ppb	1.6059	49.9	247.885	-3.21708
As 188.980	4.1206	ppb	3.7115	90.1	1.9810	4.12058
B 249.678	3.9595	ppb	1.2672	32.0	207.730	3.95952
Ba 389.178	0.4477	ppb	0.3552	79.3	5.7799	0.44771
Be 313.042	-0.0481	ppb	0.0062	12.9	-241.484	-0.04810
Ca 370.602	3.017	ppb	3.001	99.5	2.818	3.01678
Cd 226.502	-0.0417	ppb	0.1065	255.6	7.5268	-0.04168
Co 228.615	-0.2202	ppb	0.2198	99.8	13.0513	-0.22021
Cr 267.716	-0.0802	ppb	0.0724	90.3	-0.1080	-0.08020
Cu 324.754	-0.1836	ppb	0.2387	130.0	81.3018	-0.18362
Fe 271.441	1.9846	ppb	4.7740	240.6	6.6922	1.98460
K 766.491	-0.4346	ppb	0.2448	56.3	210.999	-0.43464
Mg 279.078	0.4135	ppb	1.0278	248.5	30.0931	0.41354
Mn 257.610	-0.2424	ppb	0.0291	12.0	37.1287	-0.24242
Mo 202.032	0.3518	ppb	0.6789	193.0	16.1898	0.35182
Na 330.237	111.285	ppb	55.1496	49.6	1.7946	111.28481
Ni 231.604	-0.0528	ppb	0.8512	1612.9	-0.1379	-0.05278
Pb 220.353	-1.6672	ppb	2.5707	154.2	0.8143	-1.66723
Sb 206.834	3.0303	ppb	7.1752	236.8	2.8469	3.03035
Se 196.026	-4.3590	ppb	11.4966	263.7	-1.5916	-4.35896
Sn 189.925	-0.1713	ppb	2.5186	1470.5	0.2805	-0.17128
Sr 216.596	-0.1716	ppb	0.0755	44.0	9.3689	-0.17161
Ti 334.941	0.0462	ppb	0.0349	75.5	-49.8744	0.04623
Tl 190.794	0.6673	ppb	1.3114	196.5	-1.2491	0.66725
V 292.401	-0.1714	ppb	0.3542	206.6	0.7433	-0.17144
Zn 206.200	0.3272	ppb	1.0373	317.1	2.3100	0.32718

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**200-15653-a-1-a^100 (Samp)**      **3/29/2013, 10:47:04 AM**      **Rack 1, Tube 3**  
**Weight: 1**      **Volume: 1**      **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.2760	-0.9610u	0.0098
Al 308.215	15.5361	10.1768	12.1964
As 188.980	-2.4619u	-0.5652u	3.1553
B 249.678	-3.9155u	-3.2341u	-4.7372u
Ba 389.178	1.8110	0.8765	-0.1653u
Be 313.042	-0.0386u	-0.0423u	-0.0434u
Ca 370.602	604.3	603.1	580.4
Cd 226.502	0.0776	0.1650	-0.0931u
Co 228.615	0.2061	-1.0229u	-0.8232u
Cr 267.716	5.9169	5.6897	5.5160
Cu 324.754	4.2976	4.2114	4.8036
Fe 271.441	1252.73	1242.46	1197.75
K 766.491	172.681	170.776	166.280
Mg 279.078	458.231	451.637	436.238
Mn 257.610	5.7270	5.6421	5.4570
Mo 202.032	-0.1877u	-0.0186u	-0.2645u
Na 330.237	30717.4	30213.6	29594.0
Ni 231.604	2.8092	2.3398	4.4354
Pb 220.353	-1.5413u	0.6244	-0.9064u
Sb 206.834	0.2527	-9.4696u	-6.1822u
Se 196.026	9.7611	1.0176	-5.7787u
Sn 189.925	-0.3444u	-1.5879u	0.2275
Sr 216.596	2.5023	1.1769	1.6357
Ti 334.941	0.4189	0.4747	0.4721
Tl 190.794	-1.0980u	-1.5061u	0.1199
V 292.401	-0.2880u	0.2176	0.1079
Zn 206.200	156.439	153.808	148.136

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.2251	ppb	0.6511	289.3	-72.6541
Al 308.215	12.6364	ppb	2.7066	21.4	339.421
As 188.980	0.0427	ppb	2.8575	6685.2	-0.7303
B 249.678	-3.9622	ppb	0.7526	19.0	132.370
Ba 389.178	0.8407	ppb	0.9886	117.6	14.9564
Be 313.042	-0.0414	ppb	0.0025	6.0	-232.036
Ca 370.602	596.0	ppb	13.48	2.3	1812
Cd 226.502	0.0498	ppb	0.1313	263.4	13.2989
Co 228.615	-0.5467	ppb	0.6595	120.7	9.3169
Cr 267.716	5.7075	ppb	0.2011	3.5	242.448
Cu 324.754	4.4375	ppb	0.3199	7.2	307.417
Fe 271.441	1230.98	ppb	29.2328	2.4	2074.99
K 766.491	169.913	ppb	3.2867	1.9	8383.06
Mg 279.078	448.702	ppb	11.2860	2.5	955.414
Mn 257.610	5.6087	ppb	0.1381	2.5	1389.74
Mo 202.032	-0.1569	ppb	0.1258	80.2	12.8733
Na 330.237	30175.0	ppb	562.683	1.9	1547.59
Ni 231.604	3.1948	ppb	1.0997	34.4	7.5691
Pb 220.353	-0.6077	ppb	1.1133	183.2	2.5262
Sb 206.834	-5.1331	ppb	4.9453	96.3	-2.1439
Se 196.026	1.6667	ppb	7.7902	467.4	0.3710
Sn 189.925	-0.5683	ppb	0.9282	163.3	-0.0067
Sr 216.596	1.7716	ppb	0.6731	38.0	27.9598
Ti 334.941	0.4553	ppb	0.0315	6.9	53.4613
Tl 190.794	-0.8281	ppb	0.8460	102.2	-2.2744
V 292.401	0.0125	ppb	0.2660	2127.3	5.2435
Zn 206.200	152.794	ppb	4.2432	2.8	238.056

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**200-15653-a-2-a^100 (Samp)**      **3/29/2013, 10:52:28 AM**      **Rack 1, Tube 4**  
**Weight: 1**      **Volume: 1**      **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.1784	0.6189	-0.2578u
Al 308.215	191.802	189.469	183.912
As 188.980	3.2407	6.5098	-0.3857u
B 249.678	4.6482	4.2741	3.3522
Ba 389.178	4.7760	2.3895	3.4588
Be 313.042	-0.0471u	-0.0512u	-0.0507u
Ca 370.602	998.4	985.2	960.4
Cd 226.502	0.1391	-0.1342u	-0.0872
Co 228.615	-0.7473u	0.6650	-1.1757u
Cr 267.716	11.4206	11.3551	11.0504
Cu 324.754	14.3606	14.0484	13.6388
Fe 271.441	2198.91	2165.99	2125.82
K 766.491	168.987	167.393	163.065
Mg 279.078	349.106	340.091	329.847
Mn 257.610	19.0245	18.6562	18.1642
Mo 202.032	-0.2648u	0.2959	0.6808
Na 330.237	23878.3	23325.5	22527.7
Ni 231.604	12.5741	10.6785	10.7023
Pb 220.353	1.4176	-0.8652u	3.2658
Sb 206.834	-3.4087u	4.5402	-2.8580u
Se 196.026	10.9371	8.2472	8.8319
Sn 189.925	-0.0689u	-3.2792u	0.3884
Sr 216.596	2.6886	2.3196	2.6426
Ti 334.941	8.3333	8.2111	7.9714
Tl 190.794	-6.3780u	5.3664	3.1490
V 292.401	0.3072	-0.0306u	0.4395
Zn 206.200	536.146	529.669	513.314

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1798	ppb	0.4383	243.8	-43.8279
Al 308.215	188.394	ppb	4.0530	2.2	1354.63
As 188.980	3.1216	ppb	3.4493	110.5	1.3040
B 249.678	4.0915	ppb	0.6670	16.3	206.946
Ba 389.178	3.5414	ppb	1.1954	33.8	71.6034
Be 313.042	-0.0497	ppb	0.0022	4.5	-246.922
Ca 370.602	981.3	ppb	19.28	2.0	2979
Cd 226.502	-0.0274	ppb	0.1461	532.3	12.5754
Co 228.615	-0.4193	ppb	0.9631	229.7	10.9513
Cr 267.716	11.2753	ppb	0.1976	1.8	475.203
Cu 324.754	14.0159	ppb	0.3620	2.6	775.636
Fe 271.441	2163.57	ppb	36.6038	1.7	3644.62
K 766.491	166.482	ppb	3.0642	1.8	8218.47
Mg 279.078	339.681	ppb	9.6363	2.8	730.321
Mn 257.610	18.6150	ppb	0.4316	2.3	4385.47
Mo 202.032	0.2373	ppb	0.4755	200.4	15.3593
Na 330.237	23243.8	ppb	678.994	2.9	1187.73
Ni 231.604	11.3183	ppb	1.0876	9.6	26.8075
Pb 220.353	1.2727	ppb	2.0693	162.6	5.5574
Sb 206.834	-0.5755	ppb	4.4389	771.3	0.7196
Se 196.026	9.3387	ppb	1.4147	15.1	2.8682
Sn 189.925	-0.9866	ppb	1.9986	202.6	-0.3219
Sr 216.596	2.5503	ppb	0.2011	7.9	35.4696
Ti 334.941	8.1719	ppb	0.1841	2.3	2007.04
Tl 190.794	0.7125	ppb	6.2398	875.8	-1.3103
V 292.401	0.2387	ppb	0.2424	101.6	11.2544
Zn 206.200	526.376	ppb	11.7667	2.2	815.717

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**680-88685-a-3-a^100 (Samp) 3/29/2013, 10:57:53 AM Rack 1, Tube 5****Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.3867u	-0.1431u	-0.6121u
Al 308.215	94.3960	95.1986	95.4174
As 188.980	4.1569	3.1138	3.3304
B 249.678	-5.0393u	-4.9791u	-5.5986u
Ba 389.178	-0.5532u	-1.1242u	-0.9946u
Be 313.042	-0.0456u	-0.0395u	-0.0466u
Ca 370.602	175.2	179.1	177.1
Cd 226.502	510.570	509.440	514.872
Co 228.615	-0.2612u	-0.7997u	-0.8045u
Cr 267.716	71.0392	70.7014	71.3020
Cu 324.754	12.7188	12.9174	12.5594
Fe 271.441	43.5716	43.8761	42.0788
K 766.491	203.965	203.088	208.164
Mg 279.078	29.1411	28.6918	31.3180
Mn 257.610	3.9837	4.0274	3.9663
Mo 202.032	-0.1407u	-0.6180u	-0.8754u
Na 330.237	13927.2	14086.9	14117.9
Ni 231.604	78.1764	76.6386	76.8892
Pb 220.353	-1.9035u	-0.4970u	-4.6799u
Sb 206.834	3.1600	-2.4987u	7.4686
Se 196.026	10.1273	5.8208	-3.3507u
Sn 189.925	0.6272	-1.3690u	-1.1835u
Sr 216.596	0.2606	1.1384	1.3318
Ti 334.941	3.1994	3.1543	3.3379
Tl 190.794	4.5113	5.0447	3.3587
V 292.401	0.1246u	-0.0133u	0.0006u
Zn 206.200	3.4228	4.8075	4.2441

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.3806	ppb	0.2345	61.6	-83.6551
Al 308.215	95.0040	ppb	0.5378	0.6	815.106
As 188.980	3.5337	ppb	0.5505	15.6	1.5933
B 249.678	-5.2057	ppb	0.3416	6.6	121.832
Ba 389.178	-0.8907	ppb	0.2993	33.6	-21.9745
Be 313.042	-0.0439	ppb	0.0038	8.7	-234.866
Ca 370.602	177.1	ppb	1.924	1.1	560.8
Cd 226.502	511.627	ppb	2.8660	0.6	18313.0
Co 228.615	-0.6218	ppb	0.3123	50.2	8.7988
Cr 267.716	71.0142	ppb	0.3011	0.4	2966.15
Cu 324.754	12.7319	ppb	0.1793	1.4	712.275
Fe 271.441	43.1755	ppb	0.9619	2.2	76.1114
K 766.491	205.073	ppb	2.7133	1.3	10069.8
Mg 279.078	29.7169	ppb	1.4046	4.7	90.4838
Mn 257.610	3.9925	ppb	0.0315	0.8	1012.15
Mo 202.032	-0.5447	ppb	0.3728	68.4	10.4403
Na 330.237	14044.0	ppb	102.361	0.7	718.815
Ni 231.604	77.2347	ppb	0.8251	1.1	182.729
Pb 220.353	-2.3601	ppb	2.1285	90.2	-0.3057
Sb 206.834	2.7100	ppb	4.9989	184.5	3.0860
Se 196.026	4.1992	ppb	6.8838	163.9	1.1886
Sn 189.925	-0.6418	ppb	1.1028	171.8	-0.0671
Sr 216.596	0.9103	ppb	0.5709	62.7	18.3960
Ti 334.941	3.2305	ppb	0.0957	3.0	755.334
Tl 190.794	4.3049	ppb	0.8617	20.0	1.1248
V 292.401	0.0373	ppb	0.0759	203.5	2.2218
Zn 206.200	4.1581	ppb	0.6964	16.7	8.0193

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**680-88685-a-4-a^100 (Samp)**      **3/29/2013, 11:03:18 AM**      **Rack 1, Tube 6**  
**Weight: 1**      **Volume: 1**      **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.5690u	-0.1912u	-0.2279u
Al 308.215	70.5464	71.1411	69.5736
As 188.980	-1.4324u	2.9242	2.1453
B 249.678	-6.5834u	-7.6244u	-6.8634u
Ba 389.178	-0.0378u	0.2064	-0.9498u
Be 313.042	-0.0394u	-0.0444u	-0.0478u
Ca 370.602	173.1	171.5	170.7
Cd 226.502	424.883	431.001	430.877
Co 228.615	-0.6431u	-0.7980u	-0.5312u
Cr 267.716	39.6651	40.0131	40.0876
Cu 324.754	12.6373	13.6684	14.4813
Fe 271.441	40.1172	37.0578	32.7716
K 766.491	180.190	183.175	183.496
Mg 279.078	27.7481	32.6333	36.0057
Mn 257.610	3.4390	3.5313	3.4936
Mo 202.032	-0.7895u	0.3035	-0.0608u
Na 330.237	12349.9	12322.4	12106.9
Ni 231.604	66.7411	69.6919	67.4834
Pb 220.353	-1.4195u	-3.8028u	-3.0969u
Sb 206.834	0.3154	1.2098	0.5300
Se 196.026	2.7324	13.4884	2.5932
Sn 189.925	0.1614	-0.9306u	-0.2268u
Sr 216.596	0.3771	0.8316	-0.0364u
Ti 334.941	1.8029	1.7815	1.8134
Tl 190.794	6.4855	6.3836	2.6108
V 292.401	-0.3942u	-0.4827u	-0.0522u
Zn 206.200	4.1661	4.7231	2.9058

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.3294	ppb	0.2083	63.2	-80.0230
Al 308.215	70.4204	ppb	0.7913	1.1	673.175
As 188.980	1.2123	ppb	2.3233	191.6	0.0543
B 249.678	-7.0237	ppb	0.5387	7.7	104.810
Ba 389.178	-0.2604	ppb	0.6094	234.0	-8.8896
Be 313.042	-0.0439	ppb	0.0042	9.6	-234.626
Ca 370.602	171.7	ppb	1.227	0.7	544.0
Cd 226.502	428.921	ppb	3.4968	0.8	15354.1
Co 228.615	-0.6574	ppb	0.1340	20.4	8.2403
Cr 267.716	39.9219	ppb	0.2255	0.6	1667.79
Cu 324.754	13.5957	ppb	0.9242	6.8	754.490
Fe 271.441	36.6489	ppb	3.6898	10.1	64.9502
K 766.491	182.287	ppb	1.8231	1.0	8976.69
Mg 279.078	32.1290	ppb	4.1518	12.9	95.4753
Mn 257.610	3.4880	ppb	0.0464	1.3	896.011
Mo 202.032	-0.1823	ppb	0.5565	305.3	12.7645
Na 330.237	12259.8	ppb	133.106	1.1	627.000
Ni 231.604	67.9721	ppb	1.5349	2.3	160.813
Pb 220.353	-2.7731	ppb	1.2242	44.1	-0.9716
Sb 206.834	0.6851	ppb	0.4669	68.2	1.6439
Se 196.026	6.2713	ppb	6.2506	99.7	1.8614
Sn 189.925	-0.3320	ppb	0.5535	166.7	0.1642
Sr 216.596	0.3908	ppb	0.4341	111.1	13.6784
Ti 334.941	1.7993	ppb	0.0162	0.9	393.165
Tl 190.794	5.1600	ppb	2.2082	42.8	1.6844
V 292.401	-0.3097	ppb	0.2273	73.4	-5.4958
Zn 206.200	3.9317	ppb	0.9310	23.7	5757623

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680-88313-a-4-b^500 (Samp) 3/29/2013, 11:08:43 AM Rack 1, Tube 7  
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.5951u	0.5050	-0.3196u
Al 308.215	-2.8456u	-2.2656u	-2.8643u
As 188.980	2.9069	0.7078	-1.3600u
B 249.678	0.6653	0.3649	-0.1894u
Ba 389.178	0.7422	-0.5286u	0.1954
Be 313.042	-0.0443u	-0.0420u	-0.0363u
Ca 370.602	840.1	838.2	838.1
Cd 226.502	-0.1256u	0.1192	0.0350
Co 228.615	0.1355	-0.9234u	0.0636
Cr 267.716	-0.1912u	-0.0114u	-0.1935u
Cu 324.754	0.4884	-0.2099u	0.1049
Fe 271.441	-1.2316u	7.4762	4.3524
K 766.491	624.807	624.322	623.408
Mg 279.078	2184.20	2180.69	2176.61
Mn 257.610	3.2940	3.3108	3.3006
Mo 202.032	-0.7444u	-0.5327u	-0.2061u
Na 330.237	20353.5	20247.7	20059.6
Ni 231.604	0.8403	0.5781	0.6529
Pb 220.353	-3.5771u	-0.8867u	2.4072
Sb 206.834	-1.0846u	1.2932	0.9998
Se 196.026	3.2394	10.1772	11.7166
Sn 189.925	1.0495	1.6356	0.3825
Sr 216.596	8.6534	7.9951	7.2429
Ti 334.941	-0.1754u	-0.1597u	-0.1551u
Tl 190.794	0.3516	-2.4654u	-0.7719u
V 292.401	-0.1666u	-0.2182u	-0.1519u
Zn 206.200	0.6333	0.5828	0.2368

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1366	ppb	0.5724	419.2	-66.6482
Al 308.215	-2.6585	ppb	0.3404	12.8	250.980
As 188.980	0.7516	ppb	2.1338	283.9	-0.2446
B 249.678	0.2803	ppb	0.4336	154.7	173.263
Ba 389.178	0.1363	ppb	0.6375	467.7	0.3147
Be 313.042	-0.0409	ppb	0.0041	10.1	-229.628
Ca 370.602	838.8	ppb	1.111	0.1	2696
Cd 226.502	0.0095	ppb	0.1244	1305.0	9.2808
Co 228.615	-0.2414	ppb	0.5917	245.1	12.8345
Cr 267.716	-0.1320	ppb	0.1045	79.1	-1.9425
Cu 324.754	0.1278	ppb	0.3497	273.6	96.4910
Fe 271.441	3.5323	ppb	4.4114	124.9	9.2051
K 766.491	624.179	ppb	0.7107	0.1	30175.6
Mg 279.078	2180.50	ppb	3.7983	0.2	4529.40
Mn 257.610	3.3018	ppb	0.0085	0.3	865.499
Mo 202.032	-0.4944	ppb	0.2712	54.8	10.7646
Na 330.237	20220.3	ppb	148.840	0.7	1036.76
Ni 231.604	0.6904	ppb	0.1351	19.6	1.6206
Pb 220.353	-0.6855	ppb	2.9972	437.2	2.4015
Sb 206.834	0.4028	ppb	1.2964	321.9	1.2313
Se 196.026	8.3777	ppb	4.5160	53.9	2.5453
Sn 189.925	1.0225	ppb	0.6270	61.3	1.1810
Sr 216.596	7.9638	ppb	0.7058	8.9	85.4167
Ti 334.941	-0.1634	ppb	0.0107	6.5	-95.4786
Tl 190.794	-0.9619	ppb	1.4181	147.4	-2.3182
V 292.401	-0.1789	ppb	0.0348	19.5	0.5977
Zn 206.200	0.4843	ppb	0.2158	44.0	2.5532



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**680-88580-a-7-b^5 (Samp)**      **3/29/2013, 11:14:08 AM**      **Rack 1, Tube 8**  
**Weight: 1**      **Volume: 1**      **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-1.6151u	-2.0881u	-1.1375u
Al 308.215	37806.7	37794.0	37466.6
As 188.980	19.6643	14.6371	22.7068
B 249.678	-17.6837u	-18.5049u	-16.9353u
Ba 389.178	472.860	474.509	470.401
Be 313.042	1.9075	1.9062	1.8795
Ca 370.602	799.3u	797.8u	804.2u
Cd 226.502	0.1654	-0.3413	-0.2746
Co 228.615	97.2850	96.6698	97.2471
Cr 267.716	47.4137	47.5909	47.1376
Cu 324.754	47.0113	46.1402	48.0789
Fe 271.441	67237.2	67225.5	66757.5
K 766.491	643.151	642.722	637.560
Mg 279.078	418.089	412.612	414.316
Mn 257.610	9754.73	9745.04	9669.44
Mo 202.032	10.9276	10.9953	10.8161
Na 330.237	197.165u	-128.866u	69.8820u
Ni 231.604	20.1320	18.4298	19.6573
Pb 220.353	135.711	141.399	134.047
Sb 206.834	-2.0658u	3.3435	-6.7004u
Se 196.026	1.4222	3.5158	9.8479
Sn 189.925	0.8240	0.8670	-0.8025u
Sr 216.596	6.8088	7.3577	7.3202
Ti 334.941	353.946	354.305	351.367
Tl 190.794	43.5034	31.4763	39.0862
V 292.401	119.678	120.246	118.761
Zn 206.200	41.0122	39.3749	43.7407

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.6136	ppb	0.4753	29.5	-128.891
Al 308.215	37689.1	ppb	192.758	0.5	217962
As 188.980	19.0027	ppb	4.0753	21.4	11.1203
B 249.678	-17.7080	ppb	0.7851	4.4	-57.9119
Ba 389.178	472.590	ppb	2.0669	0.4	9855.33
Be 313.042	1.8977	ppb	0.0158	0.8	3513.92
Ca 370.602	800.4	ppb	3.379	0.4	-2611
Cd 226.502	-0.1501	ppb	0.2753	183.4	148.211
Co 228.615	97.0673	ppb	0.3447	0.4	1131.06
Cr 267.716	47.3807	ppb	0.2284	0.5	2033.04
Cu 324.754	47.0768	ppb	0.9710	2.1	2408.71
Fe 271.441	67073.4	ppb	273.608	0.4	112905
K 766.491	641.144	ppb	3.1115	0.5	30989.4
Mg 279.078	415.006	ppb	2.8032	0.7	734.094
Mn 257.610	9723.07	ppb	46.6943	0.5	2238334
Mo 202.032	10.9130	ppb	0.0905	0.8	80.7253
Na 330.237	46.0601	ppb	164.316	356.7	-24.7353
Ni 231.604	19.4064	ppb	0.8784	4.5	47.1698
Pb 220.353	137.052	ppb	3.8552	2.8	225.910
Sb 206.834	-1.8076	ppb	5.0269	278.1	1.0147
Se 196.026	4.9286	ppb	4.3870	89.0	3.2617
Sn 189.925	0.2962	ppb	0.9517	321.3	0.6293
Sr 216.596	7.1623	ppb	0.3067	4.3	101.135
Ti 334.941	353.206	ppb	1.6028	0.5	89359.4
Tl 190.794	38.0220	ppb	6.0838	16.0	11.6767
V 292.401	119.562	ppb	0.7496	0.6	3281.33
Zn 206.200	41.3759	ppb	2.2955	5.3	65.6396

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**mb 680-270945/1-a (Samp)**      **3/29/2013, 11:19:34 AM**      **Rack 1, Tube 9**  
**Weight: 1**      **Volume: 1**      **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.4285u	-0.0846u	-0.7182u
Al 308.215	1.8776	-0.3371u	5.0105
As 188.980	0.2399	-0.3874u	-3.5852u
B 249.678	-10.2603u	-12.6006u	-10.7444u
Ba 389.178	0.4952	-0.4179u	-0.1399u
Be 313.042	-0.0318u	-0.0357u	-0.0473u
Ca 370.602	-0.7441u	4.528	3.597
Cd 226.502	-0.0734u	-0.0416u	0.1401
Co 228.615	-0.3002u	0.0884	-0.3682u
Cr 267.716	-0.1829u	-0.0941u	-0.2195u
Cu 324.754	0.1574	0.5002	0.2756
Fe 271.441	3.9816	3.5145	15.4159
K 766.491	-0.5465u	0.5806	0.5266
Mg 279.078	2.5506	5.1449	1.7440
Mn 257.610	0.6387	0.6783	0.6888
Mo 202.032	-1.3198u	-0.6101u	-0.2192u
Na 330.237	189.444	-34.1427u	48.9379
Ni 231.604	1.6098	1.5685	2.5187
Pb 220.353	-0.5714u	1.4721	1.3461
Sb 206.834	3.6729	7.3182	-4.8776u
Se 196.026	-1.3394u	1.9838	5.1411
Sn 189.925	-1.8772u	1.1822	0.4680
Sr 216.596	-0.1885u	-0.4158u	-0.3486u
Ti 334.941	-0.0633u	-0.0542u	-0.0904u
Tl 190.794	0.8332	1.2601	6.2988
V 292.401	0.0658	-0.3731u	-0.4543u
Zn 206.200	-0.7408u	0.6215	1.1136

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.4104	ppb	0.3172	77.3	-85.7827
Al 308.215	2.1836	ppb	2.6869	123.0	278.958
As 188.980	-1.2442	ppb	2.0515	164.9	-1.5753
B 249.678	-11.2018	ppb	1.2354	11.0	65.6972
Ba 389.178	-0.0209	ppb	0.4680	2243.3	-3.9486
Be 313.042	-0.0382	ppb	0.0080	21.0	-222.274
Ca 370.602	2.460	ppb	2.814	114.4	0.3401
Cd 226.502	0.0084	ppb	0.1152	1373.1	9.3365
Co 228.615	-0.1933	ppb	0.2464	127.4	13.3832
Cr 267.716	-0.1655	ppb	0.0645	39.0	-3.6671
Cu 324.754	0.3111	ppb	0.1741	56.0	105.449
Fe 271.441	7.6373	ppb	6.7404	88.3	16.1399
K 766.491	0.1869	ppb	0.6357	340.1	240.817
Mg 279.078	3.1465	ppb	1.7771	56.5	35.7191
Mn 257.610	0.6686	ppb	0.0264	4.0	246.875
Mo 202.032	-0.7163	ppb	0.5579	77.9	9.3416
Na 330.237	68.0797	ppb	113.016	166.0	-0.4316
Ni 231.604	1.8990	ppb	0.5371	28.3	4.4802
Pb 220.353	0.7489	ppb	1.1452	152.9	4.7165
Sb 206.834	2.0379	ppb	6.2601	307.2	2.2420
Se 196.026	1.9285	ppb	3.2406	168.0	0.4505
Sn 189.925	-0.0756	ppb	1.6005	2115.8	0.3520
Sr 216.596	-0.3176	ppb	0.1168	36.8	8.0148
Ti 334.941	-0.0693	ppb	0.0188	27.2	-79.0925
Tl 190.794	2.7974	ppb	3.0398	108.7	0.1431
V 292.401	-0.2538	ppb	0.2798	110.2	-1.3338
Zn 206.200	0.3314	ppb	0.9606	289.8	2.3166

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ics 680-270945/2-a (Samp)      3/29/2013, 11:25:00 AM      Rack 1, Tube 10  
 Weight: 1      Volume: 1      Dilution: 1

Label	Replicates Concentration		
Ag 328.068	42.9299	43.2859	43.3350
Al 308.215	10065.3	9988.07	10070.8
As 188.980	220.661	211.234	214.377
B 249.678	404.342	405.250	412.901
Ba 389.178	207.081	204.332	206.900
Be 313.042	103.706	103.230	103.947
Ca 370.602	9877	9814	9909
Cd 226.502	105.309	104.836	105.146
Co 228.615	104.569	102.937	105.388
Cr 267.716	203.923	203.516	205.141
Cu 324.754	198.312	198.109	201.169
Fe 271.441	10309.3	10217.4	10265.2
K 766.491	10420.0	10530.6	10339.2
Mg 279.078	10337.8	10288.1	10359.4
Mn 257.610	1047.00	1041.54	1047.90
Mo 202.032	201.311	201.894	203.345
Na 330.237	9680.39	9932.46	9925.64
Ni 231.604	204.910	205.817	207.699
Pb 220.353	99.6877	103.769	103.409
Sb 206.834	89.1801	93.2698	103.167
Se 196.026	213.100	199.566	223.451
Sn 189.925	411.010	401.772	405.574
Sr 216.596	206.418	206.101	208.285
Ti 334.941	202.449	202.032	203.853
Tl 190.794	79.5738	85.7324	82.0377
V 292.401	204.541	202.959	204.266
Zn 206.200	208.905	206.179	206.795

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	43.1836	ppb	0.2211	0.5	3012.61
Al 308.215	10041.4	ppb	46.2610	0.5	58290.0
As 188.980	215.424	ppb	4.7998	2.2	141.978
B 249.678	407.498	ppb	4.7017	1.2	3978.35
Ba 389.178	206.104	ppb	1.5374	0.7	4289.51
Be 313.042	103.628	ppb	0.3651	0.4	200142
Ca 370.602	9867	ppb	48.46	0.5	31011
Cd 226.502	105.097	ppb	0.2404	0.2	3791.18
Co 228.615	104.298	ppb	1.2480	1.2	1205.59
Cr 267.716	204.193	ppb	0.8458	0.4	8538.37
Cu 324.754	199.197	ppb	1.7113	0.9	9828.41
Fe 271.441	10264.0	ppb	45.9591	0.4	17295.7
K 766.491	10429.9	ppb	96.0920	0.9	500586
Mg 279.078	10328.4	ppb	36.5592	0.4	21328.0
Mn 257.610	1045.48	ppb	3.4414	0.3	240829
Mo 202.032	202.183	ppb	1.0470	0.5	1309.35
Na 330.237	9846.16	ppb	143.602	1.5	496.627
Ni 231.604	206.142	ppb	1.4227	0.7	487.924
Pb 220.353	102.288	ppb	2.2594	2.2	168.283
Sb 206.834	95.2057	ppb	7.1917	7.6	60.0586
Se 196.026	212.039	ppb	11.9778	5.6	68.8943
Sn 189.925	406.119	ppb	4.6432	1.1	304.405
Sr 216.596	206.934	ppb	1.1800	0.6	1937.85
Ti 334.941	202.778	ppb	0.9544	0.5	51312.8
Tl 190.794	82.4480	ppb	3.0998	3.8	50.9388
V 292.401	203.922	ppb	0.8453	0.4	5543.12
Zn 206.200	207.293	ppb	1.4300	0.7	321.725

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ics 680-270945/3-a (Samp)      3/29/2013, 11:30:26 AM      Rack 1, Tube 11  
 Weight: 1      Volume: 1      Dilution: 1

Label	Replicates Concentration		
Ag 328.068	410.733	415.060	413.764
Al 308.215	3980.38	3982.53	3976.43
As 188.980	436.390	426.815	430.779
B 249.678	812.132	816.040	821.569
Ba 389.178	381.377	377.453	377.443
Be 313.042	394.613	394.897	394.798
Ca 370.602	39200	39181	39213
Cd 226.502	402.289	401.128	400.133
Co 228.615	404.195	403.224	399.547
Cr 267.716	398.415	399.513	400.398
Cu 324.754	398.152	400.288	398.731
Fe 271.441	41882.8	41871.0	41777.8
K 766.491	41832.5x	41695.1x	41577.9x
Mg 279.078	40548.2	40479.9	40509.3
Mn 257.610	3983.93	3979.85	3991.59
Mo 202.032	393.324	396.552	397.851
Na 330.237	36107.3	35697.2	35541.9
Ni 231.604	397.900	399.786	399.851
Pb 220.353	398.955	398.714	398.354
Sb 206.834	369.353	377.085	387.015
Se 196.026	414.132	428.110	415.866
Sn 189.925	398.766	398.731	402.476
Sr 216.596	422.754	425.572	425.001
Ti 334.941	394.107	395.251	396.435
Tl 190.794	93.5836	97.5831	99.2597
V 292.401	403.587	405.059	402.773
Zn 206.200	382.429	380.129	381.841

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	413.185b	ppb	2.2206	0.5	29342.2
Al 308.215	3979.78b	ppb	3.0905	0.1	23299.9
As 188.980	431.328b	ppb	4.8108	1.1	284.969
B 249.678	816.581b	ppb	4.7414	0.6	7780.97
Ba 389.178	378.757b	ppb	2.2685	0.6	7910.96
Be 313.042	394.769b	ppb	0.1444	0.0	762926
Ca 370.602	39198b	ppb	16.32	0.0	123042
Cd 226.502	401.183b	ppb	1.0791	0.3	14452.4
Co 228.615	402.322b	ppb	2.4516	0.6	4608.18
Cr 267.716	399.442b	ppb	0.9935	0.2	16709.9
Cu 324.754	399.057b	ppb	1.1048	0.3	19605.0
Fe 271.441	41843.9b	ppb	57.5136	0.1	70492.5
K 766.491	41701.8xb	ppb	127.457	0.3	2000793
Mg 279.078	40512.5b	ppb	34.2572	0.1	83584.5
Mn 257.610	3985.12b	ppb	5.9610	0.1	917738
Mo 202.032	395.909b	ppb	2.3308	0.6	2549.60
Na 330.237	35782.1b	ppb	292.094	0.8	1819.19
Ni 231.604	399.179b	ppb	1.1082	0.3	945.248
Pb 220.353	398.675b	ppb	0.3025	0.1	647.051
Sb 206.834	377.818b	ppb	8.8538	2.3	236.143
Se 196.026	419.369b	ppb	7.6189	1.8	136.825
Sn 189.925	399.991b	ppb	2.1520	0.5	299.837
Sr 216.596	424.442b	ppb	1.4895	0.4	3973.08
Ti 334.941	395.264b	ppb	1.1643	0.3	100163
Tl 190.794	96.8088b	ppb	2.9162	3.0	56.5624
V 292.401	403.807b	ppb	1.1587	0.3	10972.0
Zn 206.200	381.466b	ppb	1.1952	0.3	599.458

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lb2 680-270512/14-g (Samp) 3/29/2013, 11:35:53 AM Rack 1, Tube 12

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.4886	-0.6623u	-0.4655u
Al 308.215	-0.4967u	-0.8883u	0.3643
As 188.980	-1.7214u	7.2864	-5.2797u
B 249.678	21.2120	19.0444	17.8642
Ba 389.178	-0.1054u	0.0720	0.4855
Be 313.042	-0.0043u	-0.0097u	-0.0058u
Ca 370.602	63.08	61.18	66.61
Cd 226.502	0.1385	0.0080	-0.1677u
Co 228.615	0.0353	-0.2439u	0.3799
Cr 267.716	0.4952	0.4918	0.6261
Cu 324.754	0.6427	0.8514	0.6713
Fe 271.441	4.5461	5.4413	8.8824
K 766.491	76.2249	75.9577	75.1405
Mg 279.078	17.6861	16.6373	19.9299
Mn 257.610	0.2393	0.1882	0.2473
Mo 202.032	0.4589	0.4533	-0.1716u
Na 330.237	246.010	516.847	600.392
Ni 231.604	-0.4863u	1.8370	0.2697
Pb 220.353	2.1005	-1.8575u	-2.7969u
Sb 206.834	-2.1202u	-2.9402u	-4.1217u
Se 196.026	-2.0364u	1.1680	-8.4912u
Sn 189.925	0.7375	1.0711	1.9765
Sr 216.596	-0.8449u	0.6689	-0.1796u
Ti 334.941	0.0702	0.0593	0.0341
Tl 190.794	0.3281	3.9258	1.4423
V 292.401	-0.3773u	-0.1669u	0.1555
Zn 206.200	0.6554	1.2785	2.2671

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.2131	ppb	0.6156	288.9	-71.7350
Al 308.215	-0.3402	ppb	0.6408	188.3	264.494
As 188.980	0.0951	ppb	6.4770	6808.5	-0.6871
B 249.678	19.3736	ppb	1.6980	8.8	352.116
Ba 389.178	0.1507	ppb	0.3032	201.2	-0.3742
Be 313.042	-0.0066	ppb	0.0028	42.5	-161.288
Ca 370.602	63.62	ppb	2.760	4.3	197.5
Cd 226.502	-0.0071	ppb	0.1537	2171.0	8.7807
Co 228.615	0.0571	ppb	0.3125	547.0	16.2207
Cr 267.716	0.5377	ppb	0.0766	14.2	25.7144
Cu 324.754	0.7218	ppb	0.1131	15.7	125.536
Fe 271.441	6.2899	ppb	2.2893	36.4	13.8849
K 766.491	75.7743	ppb	0.5650	0.7	3866.97
Mg 279.078	18.0844	ppb	1.6820	9.3	66.5564
Mn 257.610	0.2250	ppb	0.0321	14.3	144.841
Mo 202.032	0.2469	ppb	0.3624	146.8	15.5165
Na 330.237	454.416	ppb	185.256	40.8	19.4448
Ni 231.604	0.5401	ppb	1.1850	219.4	1.2650
Pb 220.353	-0.8513	ppb	2.5991	305.3	2.1318
Sb 206.834	-3.0607	ppb	1.0062	32.9	-0.9135
Se 196.026	-3.1199	ppb	4.9199	157.7	-1.1891
Sn 189.925	1.2617	ppb	0.6411	50.8	1.3532
Sr 216.596	-0.1185	ppb	0.7587	640.1	9.8728
Ti 334.941	0.0545	ppb	0.0186	34.0	-47.7139
Tl 190.794	1.8987	ppb	1.8418	97.0	-0.4444
V 292.401	-0.1296	ppb	0.2683	207.1	1.8675
Zn 206.200	1.4003	ppb	0.8127	58.0	2.9679

E03292013.wvq. All Data Report 3/30/2013, 8:54:32 AM

Cont Calib Verif (CCV) 3/29/2013, 11:41:18 AM Rack 1, Tube 13  
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	488.344	479.517	486.528
Al 308.215	4996.18	4922.42	4961.72
As 188.980	509.550	503.693	506.794
B 249.678	553.544	552.358	557.265
Ba 389.178	4696.27	4645.46	4671.74
Be 313.042	464.817	457.513	460.871
Ca 370.602	4850	4753	4804
Cd 226.502	466.066	460.021	463.626
Co 228.615	472.170	466.003	468.758
Cr 267.716	4642.21	4562.53	4600.74
Cu 324.754	4588.57	4531.09	4472.90
Fe 271.441	4991.88	4919.50	4946.91
K 766.491	10101.0	9971.77	9969.88
Mg 279.078	4909.29	4843.73	4879.38
Mn 257.610	4655.54	4600.30	4639.43
Mo 202.032	480.312	476.053	479.279
Na 330.237	7067.57	7148.33	7490.50
Ni 231.604	2367.11	2332.38	2351.68
Pb 220.353	497.130	487.473	490.363
Sb 206.834	968.045	954.963	952.782
Se 196.026	4945.32	4931.52	4934.43
Sn 189.925	4969.09	4880.45	4892.65
Sr 216.596	2423.94	2382.32	2404.03
Ti 334.941	496.242	487.781	490.245
Tl 190.794	5030.08	4947.03	4976.65
V 292.401	4899.75	4840.25	4863.25
Zn 206.200	2335.79	2310.96	2326.31

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	484.796	ppb	4.6616	1.0	34382.0	96.95924
Al 308.215	4960.11	ppb	36.9053	0.7	28893.4	99.20218
As 188.980	506.679	ppb	2.9305	0.6	334.989	101.33580
B 249.678	554.389	ppb	2.5603	0.5	5359.27	22.17557Q
Ba 389.178	4671.16	ppb	25.4061	0.5	97020.9	93.42316
Be 313.042	461.067	ppb	3.6561	0.8	890905	92.21336
Ca 370.602	4803	ppb	48.51	1.0	15326	96.05141
Cd 226.502	463.238	ppb	3.0410	0.7	16592.7	92.64754
Co 228.615	468.977	ppb	3.0893	0.7	5380.92	93.79539
Cr 267.716	4601.83	ppb	39.8492	0.9	192240	92.03656
Cu 324.754	4530.85	ppb	57.8324	1.3	221411	90.61708
Fe 271.441	4952.76	ppb	36.5457	0.7	8454.72	99.05524
K 766.491	10014.2	ppb	75.1342	0.8	480643	100.14202
Mg 279.078	4877.47	ppb	32.8186	0.7	10022.3	97.54932
Mn 257.610	4631.76	ppb	28.4084	0.6	1066273	92.63515
Mo 202.032	478.548	ppb	2.2215	0.5	3073.59	95.70956
Na 330.237	7235.46	ppb	224.528	3.1	345.838	96.47285
Ni 231.604	2350.39	ppb	17.4017	0.7	5561.22	94.01563
Pb 220.353	491.655	ppb	4.9566	1.0	797.102	98.33108
Sb 206.834	958.597	ppb	8.2548	0.9	620.296	95.85966
Se 196.026	4937.09	ppb	7.2774	0.1	1603.95	98.74180
Sn 189.925	4914.06	ppb	48.0414	1.0	3678.70	98.28121
Sr 216.596	2403.43	ppb	20.8189	0.9	22399.7	96.13718
Ti 334.941	491.423	ppb	4.3518	0.9	124358	98.28456
Tl 190.794	4984.59	ppb	42.0902	0.8	3255.62	99.69172
V 292.401	4867.75	ppb	30.0036	0.6	132991	97.35501
Zn 206.200	2324.35	ppb	12.5308	0.5	3582.02	92.97412

E03292013.vvq. All Data Report 3/30/2013, 8:54:32 AM

Cont Calib Blank (CCB) 3/29/2013, 11:46:41 AM Rack 1, Tube 14

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.1541u	-0.8635u	0.0282
Al 308.215	-7.2144u	-5.2762u	-3.7899u
As 188.980	-0.9572u	9.7037	1.3066
B 249.678	5.2681	2.3800	3.2439
Ba 389.178	0.0871	-0.2887u	-0.5202u
Be 313.042	-0.0427u	-0.0504u	-0.0437u
Ca 370.602	-3.366u	0.2713	-1.004u
Cd 226.502	-0.1024u	-0.0429u	0.4200
Co 228.615	-0.1586u	-0.4154u	-0.6402u
Cr 267.716	-0.0106u	-0.1259u	-0.1123u
Cu 324.754	-0.4117u	-0.5911u	-0.4191u
Fe 271.441	2.1111	-1.2849u	-1.4519u
K 766.491	-0.6537u	-0.4241u	0.2080
Mg 279.078	-2.5436u	4.1912	2.0651
Mn 257.610	-0.2523u	-0.2767u	-0.2680u
Mo 202.032	0.4725	-0.1997u	-0.0007u
Na 330.237	105.816	-51.5711u	136.568
Ni 231.604	1.4976	1.6186	-1.0498u
Pb 220.353	-0.1847u	-1.5122u	-2.3481u
Sb 206.834	3.0110	8.5775	6.1897
Se 196.026	-8.9736u	-3.3386u	-0.9939u
Sn 189.925	-0.1238u	-0.1401u	0.3408
Sr 216.596	-0.7432u	-0.4867u	-0.2654u
Ti 334.941	0.1440	-0.0402u	0.0673
Tl 190.794	1.1145	9.7887	2.8596
V 292.401	-0.0643u	-0.1177u	0.0150
Zn 206.200	0.6843	0.1676	0.9159

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	-0.3298	ppb	0.4711	142.8	-80.0355	-0.32979
Al 308.215	-5.4268	ppb	1.7172	31.6	235.108	-5.42685
As 188.980	3.3510	ppb	5.6168	167.6	1.4708	3.35101
B 249.678	3.6307	ppb	1.4824	40.8	204.652	3.63068
Ba 389.178	-0.2406	ppb	0.3065	127.4	-8.5161	-0.24061
Be 313.042	-0.0456	ppb	0.0042	9.2	-236.625	-0.04560
Ca 370.602	-1.366	ppb	1.846	135.1	-11.09	-1.36633
Cd 226.502	0.0916	ppb	0.2860	312.3	12.2887	0.09157
Co 228.615	-0.4047	ppb	0.2409	59.5	10.9453	-0.40472
Cr 267.716	-0.0829	ppb	0.0630	75.9	-0.2268	-0.08294
Cu 324.754	-0.4740	ppb	0.1015	21.4	67.1132	-0.47396
Fe 271.441	-0.2086	ppb	2.0106	964.1	2.9629	-0.20855
K 766.491	-0.2900	ppb	0.4462	153.9	217.940	-0.28995
Mg 279.078	1.2376	ppb	3.4428	278.2	31.7944	1.23760
Mn 257.610	-0.2657	ppb	0.0124	4.7	31.7794	-0.26566
Mo 202.032	0.0907	ppb	0.3453	380.7	14.5156	0.09069
Na 330.237	63.6043	ppb	100.923	158.7	-0.6611	63.60430
Ni 231.604	0.6888	ppb	1.5069	218.8	1.6166	0.68882
Pb 220.353	-1.3483	ppb	1.0910	80.9	1.3294	-1.34831
Sb 206.834	5.9261	ppb	2.7926	47.1	4.6377	5.92608
Se 196.026	-4.4354	ppb	4.1014	92.5	-1.6164	-4.43538
Sn 189.925	0.0256	ppb	0.2731	1065.9	0.4278	0.02562
Sr 216.596	-0.4984	ppb	0.2391	48.0	6.3203	-0.49844
Ti 334.941	0.0570	ppb	0.0925	162.3	-47.1314	0.05703
Tl 190.794	4.5876	ppb	4.5880	100.0	1.3152	4.58760
V 292.401	-0.0556	ppb	0.0668	120.0	3.9327	-0.05564
Zn 206.200	0.5893	ppb	0.3831	65.0	2.7153	0.58927

E03292013.vvq. All Data Report 3/30/2013, 8:54:32 AM

660-53391-a-1-j (Samp) 3/29/2013, 11:52:05 AM Rack 1, Tube 15

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.4439u	0.4704	-0.2509u
Al 308.215	29.9080	26.8939	28.5491
As 188.980	-0.0708	4.6213	4.3538
B 249.678	3.2394	3.1345	2.4182
Ba 389.178	14.8899	13.4389	14.9153
Be 313.042	-0.0284u	-0.0228u	-0.0169u
Ca 370.602	34065	34045	33946
Cd 226.502	-0.0335u	0.3323	0.1635
Co 228.615	-0.2864u	-1.3617u	0.2787
Cr 267.716	0.1644	0.2438	0.2486
Cu 324.754	0.8992	0.6278	0.3199
Fe 271.441	17.8697	17.8517	18.7047
K 766.491	612.782	610.945	613.423
Mg 279.078	1595.23	1603.61	1596.63
Mn 257.610	52.0325	51.9860	52.0193
Mo 202.032	0.4680	-1.0556u	-0.9426u
Na 330.237	1318.66	1180.75	1356.44
Ni 231.604	1.4267	2.0353	0.7206
Pb 220.353	-0.7831u	0.8402	1.5586
Sb 206.834	-1.2579u	-1.6961u	1.4321
Se 196.026	2.2908	6.1265	8.6387
Sn 189.925	-0.9785u	-1.5199u	-0.9003u
Sr 216.596	200.517	199.710	199.040
Ti 334.941	0.0341	0.0912	0.0604
Tl 190.794	1.3186	-3.5943u	-0.4398u
V 292.401	-0.3163u	-0.5989u	-0.4208u
Zn 206.200	191.803	194.524	191.201

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0748	ppb	0.4819	644.3	-70.2797
Al 308.215	28.4503	ppb	1.5095	5.3	430.699
As 188.980	2.9681	ppb	2.6352	88.8	1.5225
B 249.678	2.9307	ppb	0.4469	15.3	198.080
Ba 389.178	14.4147	ppb	0.8452	5.9	296.576
Be 313.042	-0.0227	ppb	0.0057	25.1	-180.497
Ca 370.602	34019	ppb	63.67	0.2	109615
Cd 226.502	0.1541	ppb	0.1831	118.8	14.5753
Co 228.615	-0.4565	ppb	0.8333	182.5	10.3777
Cr 267.716	0.2189	ppb	0.0473	21.6	12.6036
Cu 324.754	0.6156	ppb	0.2899	47.1	120.334
Fe 271.441	18.1420	ppb	0.4874	2.7	33.7814
K 766.491	612.384	ppb	1.2863	0.2	29609.7
Mg 279.078	1598.49	ppb	4.4892	0.3	3327.45
Mn 257.610	52.0126	ppb	0.0240	0.0	12074.9
Mo 202.032	-0.5101	ppb	0.8489	166.4	10.6640
Na 330.237	1285.29	ppb	92.4811	7.2	60.7789
Ni 231.604	1.3942	ppb	0.6580	47.2	3.2860
Pb 220.353	0.5386	ppb	1.1997	222.7	4.3871
Sb 206.834	-0.5073	ppb	1.6938	333.9	0.6698
Se 196.026	5.6853	ppb	3.1969	56.2	1.6789
Sn 189.925	-1.1329	ppb	0.3374	29.8	-0.4262
Sr 216.596	199.756	ppb	0.7396	0.4	1878.71
Ti 334.941	0.0619	ppb	0.0286	46.1	-39.4648
Tl 190.794	-0.9051	ppb	2.4893	275.0	-2.3284
V 292.401	-0.4453	ppb	0.1429	32.1	-6.6163
Zn 206.200	192.509	ppb	1.7706	0.9	299.484



E03292013.vvq. All Data Report 3/30/2013, 8:54:32 AM

660-53391-a-1-k ms (Samp) 3/29/2013, 12:00:11 PM Rack 1, Tube 16

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	74.7214	74.9849	75.2492
Al 308.215	791.768	788.766	790.079
As 188.980	81.9423	84.0473	83.2539
B 249.678	158.042	159.370	160.515
Ba 389.178	86.7473	86.1488	86.8602
Be 313.042	79.0606	78.9959	78.9314
Ca 370.602	35459	35413	35407
Cd 226.502	79.9542	79.8695	79.8839
Co 228.615	78.8875	78.6324	79.0856
Cr 267.716	79.5826	79.6154	79.2226
Cu 324.754	78.2471	77.8012	79.5599
Fe 271.441	7945.64	7921.29	7909.71
K 766.491	8681.58	8681.68	8685.97
Mg 279.078	9210.27	9183.90	9180.32
Mn 257.610	853.741	851.430	851.188
Mo 202.032	78.3015	77.8481	77.1798
Na 330.237	8110.84	7779.39	7821.98
Ni 231.604	79.5236	80.4460	78.5776
Pb 220.353	80.1794	80.8530	78.3140
Sb 206.834	77.7437	66.9506	70.0453
Se 196.026	95.0701	76.1120	93.6422
Sn 189.925	74.0274	75.7839	80.0048
Sr 216.596	241.501	241.862	241.658
Ti 334.941	78.9316	78.9854	78.8174
Tl 190.794	20.7523	22.8525	25.3361
V 292.401	79.2020	79.1414	79.2243
Zn 206.200	234.460	236.398	235.627

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	74.9852	ppb	0.2639	0.4	5272.26
Al 308.215	790.204	ppb	1.5046	0.2	4839.71
As 188.980	83.0812	ppb	1.0631	1.3	54.5350
B 249.678	159.309	ppb	1.2378	0.8	1655.57
Ba 389.178	86.5854	ppb	0.3823	0.4	1804.57
Be 313.042	78.9960	ppb	0.0646	0.1	152558
Ca 370.602	35426	ppb	28.50	0.1	113534
Cd 226.502	79.9025	ppb	0.0453	0.1	2884.81
Co 228.615	78.8685	ppb	0.2272	0.3	915.915
Cr 267.716	79.4735	ppb	0.2179	0.3	3327.37
Cu 324.754	78.5361	ppb	0.9143	1.2	3930.76
Fe 271.441	7925.54	ppb	18.3411	0.2	13355.0
K 766.491	8683.07	ppb	2.5061	0.0	416785
Mg 279.078	9191.50	ppb	16.3524	0.2	18986.9
Mn 257.610	852.120	ppb	1.4091	0.2	196309
Mo 202.032	77.7764	ppb	0.5642	0.7	512.080
Na 330.237	7904.07	ppb	180.334	2.3	398.119
Ni 231.604	79.5157	ppb	0.9343	1.2	188.274
Pb 220.353	79.7821	ppb	1.3153	1.6	132.306
Sb 206.834	71.5798	ppb	5.5578	7.8	45.5486
Se 196.026	88.2748	ppb	10.5575	12.0	28.6608
Sn 189.925	76.6054	ppb	3.0722	4.0	57.7653
Sr 216.596	241.674	ppb	0.1810	0.1	2269.32
Ti 334.941	78.9115	ppb	0.0858	0.1	19951.9
Tl 190.794	22.9803	ppb	2.2946	10.0	12.2918
V 292.401	79.1893	ppb	0.0429	0.1	2156.11
Zn 206.200	235.495	ppb	0.9759	0.4	365.715

E03292013.wvq. All Data Report 3/30/2013, 8:54:32 AM

660-53391-a-1-1 msd (Samp)      3/29/2013, 12:05:35 PM      Rack 1, Tube 17  
 Weight: 1      Volume: 1      Dilution: 1

Label	Replicates Concentration		
Ag 328.068	74.4110	74.6623	73.6687
Al 308.215	781.890	780.241	777.164
As 188.980	85.6539	82.5458	82.7682
B 249.678	156.663	158.540	158.914
Ba 389.178	84.7986	85.1084	86.4576
Be 313.042	77.2757	77.3605	77.2680
Ca 370.602	35142	35112	35094
Cd 226.502	78.6767	78.4214	78.1281
Co 228.615	77.1167	76.9997	76.9938
Cr 267.716	77.3054	77.3927	77.1430
Cu 324.754	76.8296	77.3473	76.7442
Fe 271.441	7774.76	7779.17	7767.05
K 766.491	8486.83	8488.57	8509.24
Mg 279.078	9001.22	8992.64	8988.97
Mn 257.610	836.249	836.275	835.901
Mo 202.032	76.2655	76.9370	75.2059
Na 330.237	7448.16	7577.15	7744.27
Ni 231.604	78.9484	78.8263	77.1210
Pb 220.353	76.6812	76.0926	79.1553
Sb 206.834	77.9510	81.6984	68.0090
Se 196.026	60.9775	86.8013	77.5429
Sn 189.925	71.5630	76.6308	75.8703
Sr 216.596	239.148	238.096	237.777
Ti 334.941	76.9918	77.5010	77.4197
Tl 190.794	14.3953	17.4138	17.5307
V 292.401	77.4199	78.0235	77.6984
Zn 206.200	232.683	233.760	233.506

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	74.2473	ppb	0.5166	0.7	5219.74
Al 308.215	779.765	ppb	2.3986	0.3	4779.20
As 188.980	83.6559	ppb	1.7338	2.1	54.9161
B 249.678	158.039	ppb	1.2062	0.8	1643.82
Ba 389.178	85.4549	ppb	0.8821	1.0	1780.90
Be 313.042	77.3014	ppb	0.0513	0.1	149282
Ca 370.602	35116	ppb	24.19	0.1	112547
Cd 226.502	78.4087	ppb	0.2745	0.4	2831.03
Co 228.615	77.0367	ppb	0.0693	0.1	895.007
Cr 267.716	77.2803	ppb	0.1267	0.2	3235.67
Cu 324.754	76.9737	ppb	0.3263	0.4	3854.35
Fe 271.441	7773.66	ppb	6.1353	0.1	13099.1
K 766.491	8494.88	ppb	12.4641	0.1	407756
Mg 279.078	8994.28	ppb	6.2879	0.1	18580.1
Mn 257.610	836.142	ppb	0.2088	0.0	192630
Mo 202.032	76.1362	ppb	0.8728	1.1	501.574
Na 330.237	7589.86	ppb	148.465	2.0	382.023
Ni 231.604	78.2986	ppb	1.0216	1.3	185.391
Pb 220.353	77.3097	ppb	1.6252	2.1	128.315
Sb 206.834	75.8861	ppb	7.0744	9.3	48.2037
Se 196.026	75.1072	ppb	13.0831	17.4	24.3814
Sn 189.925	74.6880	ppb	2.7330	3.7	56.3300
Sr 216.596	238.340	ppb	0.7171	0.3	2238.21
Ti 334.941	77.3041	ppb	0.2736	0.4	19544.3
Tl 190.794	16.4466	ppb	1.7774	10.8	8.0386
V 292.401	77.7139	ppb	0.3021	0.4	2116.12
Zn 206.200	233.316	ppb	0.5629	0.2	362.351

E03292013.vvq. All Data Report 3/30/2013, 8:54:32 AM

680-88644-b-1-e (Samp) 3/29/2013, 12:11:00 PM Rack 1, Tube 18

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.7395u	0.1237	0.1259
Al 308.215	78.3351	76.7827	78.8451
As 188.980	-2.0123u	3.4570	4.9813
B 249.678	6.1152	6.2559	4.4709
Ba 389.178	69.6379	68.5245	69.2643
Be 313.042	0.2231	0.2234	0.2252
Ca 370.602	11476	11405	11518
Cd 226.502	0.3132	0.2189	0.0903
Co 228.615	2.7082	2.0088	2.4439
Cr 267.716	-0.0481u	0.0827	0.1108
Cu 324.754	0.9329	0.5341	0.7119
Fe 271.441	4.8431	13.4525	12.6401
K 766.491	196.113	195.610	196.947
Mg 279.078	2770.16	2754.43	2781.37
Mn 257.610	454.954	452.624	454.737
Mo 202.032	-0.8528u	-0.5377u	0.0652
Na 330.237	655.062	659.765	685.014
Ni 231.604	4.2453	2.9371	4.3901
Pb 220.353	-5.1407u	-2.8841u	3.6541
Sb 206.834	-4.0510u	-0.7720u	-6.2151u
Se 196.026	-8.1310u	3.4788	-2.5071u
Sn 189.925	-0.2305u	1.7024	-1.1358u
Sr 216.596	23.7427	23.4795	24.2573
Ti 334.941	-0.0917u	0.0233	-0.0767u
Tl 190.794	2.5440	11.8976	4.3408
V 292.401	-0.1358u	-0.3167u	-0.5287u
Zn 206.200	13.6653	13.8117	14.8846

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1633	ppb	0.4990	305.6	-67.3440
Al 308.215	77.9876	ppb	1.0742	1.4	716.847
As 188.980	2.1420	ppb	3.6776	171.7	0.7727
B 249.678	5.6140	ppb	0.9925	17.7	223.221
Ba 389.178	69.1423	ppb	0.5667	0.8	1433.65
Be 313.042	0.2239	ppb	0.0011	0.5	288.170
Ca 370.602	11467	ppb	56.89	0.5	36955
Cd 226.502	0.2075	ppb	0.1119	53.9	16.4902
Co 228.615	2.3870	ppb	0.3531	14.8	42.8529
Cr 267.716	0.0485	ppb	0.0848	174.9	6.9849
Cu 324.754	0.7263	ppb	0.1998	27.5	125.743
Fe 271.441	10.3119	ppb	4.7535	46.1	21.0213
K 766.491	196.223	ppb	0.6752	0.3	9645.26
Mg 279.078	2768.65	ppb	13.5375	0.5	5736.17
Mn 257.610	454.105	ppb	1.2867	0.3	104635
Mo 202.032	-0.4418	ppb	0.4664	105.6	11.1018
Na 330.237	666.614	ppb	16.1078	2.4	30.2688
Ni 231.604	3.8575	ppb	0.8004	20.7	9.1142
Pb 220.353	-1.4569	ppb	4.5678	313.5	1.2480
Sb 206.834	-3.6793	ppb	2.7405	74.5	-1.2922
Se 196.026	-2.3864	ppb	5.8059	243.3	-0.8772
Sn 189.925	0.1120	ppb	1.4498	1294.1	0.4970
Sr 216.596	23.8265	ppb	0.3956	1.7	234.365
Ti 334.941	-0.0484	ppb	0.0625	129.2	-62.5587
Tl 190.794	6.2608	ppb	4.9636	79.3	1.9745
V 292.401	-0.3270	ppb	0.1966	60.1	-3.3671
Zn 206.200	14.1205	ppb	0.6658	4.7	22.6388

E03292013.vvq. All Data Report 3/30/2013, 8:54:32 AM

680-88644-b-1-eSD^5 (Samp) 3/29/2013, 12:16:25 PM Rack 1, Tube 19

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.9440u	-0.3754u	-0.4139u
Al 308.215	13.5649	10.5312	10.2199
As 188.980	-1.7794u	1.9060	0.2779
B 249.678	-7.2096u	-8.5965u	-7.7911u
Ba 389.178	15.1176	13.8172	13.3142
Be 313.042	0.0078	-0.0076u	0.0063
Ca 370.602	2319	2343	2316
Cd 226.502	0.0816	-0.0152u	0.2351
Co 228.615	0.6856	-0.1883u	0.9618
Cr 267.716	-0.1589u	-0.0290u	-0.0786u
Cu 324.754	-0.0243u	-0.4299u	-0.3663u
Fe 271.441	-4.8407u	-2.2265u	3.2449
K 766.491	38.4678	38.1872	38.2873
Mg 279.078	558.147	559.467	557.259
Mn 257.610	92.7262	93.2990	92.6771
Mo 202.032	-0.4582u	0.1322	-0.5400u
Na 330.237	82.1192	195.787	115.393
Ni 231.604	1.4759	1.1836	2.0508
Pb 220.353	-1.1928u	-0.4868u	-4.1352u
Sb 206.834	0.2868	-3.7976u	0.6131
Se 196.026	3.3093	-4.7932u	-3.7634u
Sn 189.925	2.4389	-3.9147u	1.9059
Sr 216.596	5.4106	4.5084	4.0999
Ti 334.941	-0.0826u	-0.1745u	-0.1453u
Tl 190.794	5.8008	-3.5687u	0.6616
V 292.401	-0.5348u	0.1192	-0.7140u
Zn 206.200	2.4361	3.0021	2.7372

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.5778	ppb	0.3177	55.0	-97.5061
Al 308.215	11.4387	ppb	1.8479	16.2	332.416
As 188.980	0.1349	ppb	1.8469	1369.4	-0.6401
B 249.678	-7.8657	ppb	0.6965	8.9	96.9568
Ba 389.178	14.0830	ppb	0.9306	6.6	289.199
Be 313.042	0.0022	ppb	0.0085	388.0	-143.327
Ca 370.602	2326	ppb	15.00	0.6	7491
Cd 226.502	0.1005	ppb	0.1262	125.6	12.6168
Co 228.615	0.4863	ppb	0.6004	123.5	21.1500
Cr 267.716	-0.0888	ppb	0.0656	73.8	-0.1202
Cu 324.754	-0.2735	ppb	0.2181	79.7	76.8861
Fe 271.441	-1.2741	ppb	4.1261	323.8	1.2153
K 766.491	38.3141	ppb	0.1422	0.4	2069.89
Mg 279.078	558.291	ppb	1.1107	0.2	1180.00
Mn 257.610	92.9007	ppb	0.3457	0.4	21480.1
Mo 202.032	-0.2887	ppb	0.3668	127.1	12.0841
Na 330.237	131.100	ppb	58.4387	44.6	2.7954
Ni 231.604	1.5701	ppb	0.4412	28.1	3.7018
Pb 220.353	-1.9383	ppb	1.9351	99.8	0.3973
Sb 206.834	-0.9659	ppb	2.4577	254.5	0.3850
Se 196.026	-1.7491	ppb	4.4108	252.2	-0.7289
Sn 189.925	0.1433	ppb	3.5245	2459.0	0.5168
Sr 216.596	4.6729	ppb	0.6707	14.4	54.8021
Ti 334.941	-0.1341	ppb	0.0469	35.0	-93.2431
Tl 190.794	0.9646	ppb	4.6921	486.4	-1.1437
V 292.401	-0.3765	ppb	0.4386	116.5	-4.6840
Zn 206.200	2.7251	ppb	0.2832	10.4	6.0181

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**680-88644-b-1-ePDS (Samp)**      **3/29/2013, 12:21:50 PM**      **Rack 1, Tube 20****Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	50.8884	51.2336	49.9524
Al 308.215	2066.60	2046.45	2015.03
As 188.980	2212.05	2180.54	2154.38
B 249.678	1138.70	1136.03	1128.01
Ba 389.178	2166.19	2139.77	2102.73
Be 313.042	51.3840	51.0151	50.3138
Ca 370.602	16730	16772	16695
Cd 226.502	52.0892	52.2453	51.3224
Co 228.615	532.197	526.218	519.099
Cr 267.716	205.029	203.597	201.542
Cu 324.754	250.602	251.226	249.548
Fe 271.441	1045.03	1029.05	1011.68
K 766.491	5997.92	5923.15	5838.96
Mg 279.078	8309.94	8286.58	8218.06
Mn 257.610	975.845	973.801	965.790
Mo 202.032	546.093	546.240	539.960
Na 330.237	6193.37	5880.17	5902.22
Ni 231.604	522.644	516.255	510.051
Pb 220.353	518.189	515.487	511.245
Sb 206.834	481.109	480.518	489.219
Se 196.026	2098.88	2115.59	2049.16
Sn 189.925	1122.71	1101.20	1099.99
Sr 216.596	590.259	585.096	580.738
Ti 334.941	1087.86	1081.03	1069.32
Tl 190.794	2125.64	2133.61	2105.46
V 292.401	514.344	509.871	501.357
Zn 206.200	526.649	527.176	515.689

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	50.6915	ppb	0.6629	1.3	3532.01
Al 308.215	2042.69	ppb	25.9908	1.3	12128.9
As 188.980	2182.32	ppb	28.8782	1.3	1445.94
B 249.678	1134.25	ppb	5.5629	0.5	10794.8
Ba 389.178	2136.23	ppb	31.8780	1.5	44368.1
Be 313.042	50.9043	ppb	0.5436	1.1	98154.5
Ca 370.602	16733	ppb	38.55	0.2	54057
Cd 226.502	51.8856	ppb	0.4940	1.0	1867.69
Co 228.615	525.838	ppb	6.5572	1.2	6032.08
Cr 267.716	203.389	ppb	1.7527	0.9	8501.84
Cu 324.754	250.459	ppb	0.8483	0.3	12336.4
Fe 271.441	1028.58	ppb	16.6825	1.6	1819.28
K 766.491	5920.01	ppb	79.5258	1.3	284232
Mg 279.078	8271.53	ppb	47.7512	0.6	17084.7
Mn 257.610	971.812	ppb	5.3148	0.5	223836
Mo 202.032	544.098	ppb	3.5843	0.7	3501.29
Na 330.237	5991.92	ppb	174.811	2.9	291.830
Ni 231.604	516.317	ppb	6.2966	1.2	1221.64
Pb 220.353	514.974	ppb	3.5001	0.7	833.618
Sb 206.834	483.615	ppb	4.8619	1.0	296.925
Se 196.026	2087.87	ppb	34.5561	1.7	678.036
Sn 189.925	1107.97	ppb	12.7841	1.2	829.757
Sr 216.596	585.364	ppb	4.7661	0.8	5452.48
Ti 334.941	1079.41	ppb	9.3767	0.9	273214
Tl 190.794	2121.57	ppb	14.5069	0.7	1385.21
V 292.401	508.524	ppb	6.5975	1.3	13834.7
Zn 206.200	523.171	ppb	6.4857	1.2	819.178

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**lb 680-270828/3-c (Samp)**                      **3/29/2013, 12:27:15 PM**                      **Rack 1, Tube 21**  
**Weight: 1**    **Volume: 1**    **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.0725u	0.1801	0.1072
Al 308.215	-1.2032u	-3.2005u	-4.9484u
As 188.980	-1.7211u	3.8332	1.6486
B 249.678	54.9019	52.2967	50.9843
Ba 389.178	1.5462	1.2131	0.3830
Be 313.042	-0.0275u	-0.0303u	-0.0374u
Ca 370.602	358.3	361.3	354.4
Cd 226.502	-0.0732u	0.0340	0.1368
Co 228.615	-0.2146u	-0.2687u	-1.2068u
Cr 267.716	0.0373	0.0105	0.1309
Cu 324.754	0.1880	0.2445	0.0820
Fe 271.441	0.9441	3.9306	-0.4761u
K 766.491	94.0934	93.5226	92.4919
Mg 279.078	75.5499	68.7483	68.2883
Mn 257.610	-0.0779u	-0.0433u	-0.0127u
Mo 202.032	0.9906	0.4266	0.2457
Na 330.237	113920x	115077x	114114x
Ni 231.604	1.9129	1.0683	-0.7925u
Pb 220.353	0.5525	-1.7427u	-1.9732u
Sb 206.834	3.5055	-2.7119u	1.5422
Se 196.026	14.6606	12.3946	4.1728
Sn 189.925	-1.9213u	-3.6598u	-2.1248u
Sr 216.596	0.4385	1.0082	0.0705
Ti 334.941	0.2459	0.2497	0.1664
Tl 190.794	3.6141	-3.9618u	-1.8818u
V 292.401	-0.5378u	-0.2279u	-0.1121u
Zn 206.200	5.5461	5.0042	5.4335

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0716b	ppb	0.1300	181.6	-51.4975
Al 308.215	-3.1174b	ppb	1.8740	60.1	248.489
As 188.980	1.2536b	ppb	2.7982	223.2	0.0835
B 249.678	52.7276b	ppb	1.9941	3.8	664.570
Ba 389.178	1.0474b	ppb	0.5990	57.2	18.2683
Be 313.042	-0.0318b	ppb	0.0051	16.1	-223.679
Ca 370.602	358.0b	ppb	3.455	1.0	1146
Cd 226.502	0.0325b	ppb	0.1050	323.0	9.5602
Co 228.615	-0.5634b	ppb	0.5579	99.0	9.1272
Cr 267.716	0.0596b	ppb	0.0632	106.2	7.5449
Cu 324.754	0.1715b	ppb	0.0825	48.1	98.6599
Fe 271.441	1.4662b	ppb	2.2493	153.4	5.6677
K 766.491	93.3693b	ppb	0.8117	0.9	4711.05
Mg 279.078	70.8622b	ppb	4.0662	5.7	175.486
Mn 257.610	-0.0446b	ppb	0.0326	73.2	82.4492
Mo 202.032	0.5543b	ppb	0.3885	70.1	17.4882
Na 330.237	114370xb	ppb	619.429	0.5	5882.41
Ni 231.604	0.7296b	ppb	1.3842	189.7	1.7132
Pb 220.353	-1.0545b	ppb	1.3965	132.4	1.8036
Sb 206.834	0.7786b	ppb	3.1783	408.2	1.4549
Se 196.026	10.4093b	ppb	5.5185	53.0	3.2046
Sn 189.925	-2.5686b	ppb	0.9504	37.0	-1.4765
Sr 216.596	0.5057b	ppb	0.4725	93.4	15.7131
Ti 334.941	0.2206b	ppb	0.0470	21.3	-13.6729
Tl 190.794	-0.7432b	ppb	3.9142	526.7	-2.1723
V 292.401	-0.2926b	ppb	0.2201	75.2	-3.5439
Zn 206.200	5.3279b	ppb	0.2859	5.4	10.0423

E03292013.wvq. All Data Report 3/30/2013, 8:54:32 AM

680-88632-b-10-d^10 (Samp) 3/29/2013, 12:32:41 PM Rack 1, Tube 22

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.2927	0.5149	0.4624
Al 308.215	12028.5	11775.7	11687.1
As 188.980	53.0205	56.7656	52.7704
B 249.678	5.2849	3.8755	3.1735u
Ba 389.178	443.256	434.349	431.524
Be 313.042	1.3835	1.3529	1.3348
Ca 370.602	16363	15971	15912
Cd 226.502	1.8186	1.8116	1.5417
Co 228.615	11.5932	11.7985	11.5036
Cr 267.716	39.5484	38.0635	37.4577
Cu 324.754	95.3402	94.1743	92.7037
Fe 271.441	38105.6	37306.3	37101.6
K 766.491	1528.14	1497.25	1484.79
Mg 279.078	4158.12	4072.18	4051.88
Mn 257.610	982.838	960.936	956.026
Mo 202.032	5.8537	5.0171	4.9186
Na 330.237	486.068	602.608	422.683
Ni 231.604	25.6278	23.7980	23.7518
Pb 220.353	3505.85	3415.82	3396.66
Sb 206.834	11.6341	14.2462	-5.3199u
Se 196.026	3.6598	5.9486	-6.8844u
Sn 189.925	130.261	123.661	121.396
Sr 216.596	134.907	131.129	130.921
Ti 334.941	261.185	254.395	253.480
Tl 190.794	7.8767	3.8574	4.6432
V 292.401	46.4675	45.2570	45.0691
Zn 206.200	678.524	657.501	661.721

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.4233	ppb	0.1161	27.4	-27.8088
Al 308.215	11830.4	ppb	177.145	1.5	68600.2
As 188.980	54.1855	ppb	2.2379	4.1	34.9043
B 249.678	4.1113	ppb	1.0753	26.2	174.083
Ba 389.178	436.376	ppb	6.1234	1.4	9085.44
Be 313.042	1.3570	ppb	0.0246	1.8	2477.08
Ca 370.602	16082	ppb	245.2	1.5	48798
Cd 226.502	1.7240	ppb	0.1579	9.2	151.692
Co 228.615	11.6318	ppb	0.1512	1.3	153.645
Cr 267.716	38.3565	ppb	1.0757	2.8	1617.24
Cu 324.754	94.0728	ppb	1.3212	1.4	4696.72
Fe 271.441	37504.5	ppb	530.524	1.4	63126.3
K 766.491	1503.39	ppb	22.3143	1.5	72354.1
Mg 279.078	4094.06	ppb	56.3948	1.4	8466.75
Mn 257.610	966.600	ppb	14.2754	1.5	222711
Mo 202.032	5.2631	ppb	0.5138	9.8	45.9364
Na 330.237	503.786	ppb	91.2615	18.1	3.7713
Ni 231.604	24.3925	ppb	1.0700	4.4	58.4069
Pb 220.353	3439.44	ppb	58.3022	1.7	5556.08
Sb 206.834	6.8535	ppb	10.6231	155.0	5.9553
Se 196.026	0.9080	ppb	6.8448	753.8	0.4207
Sn 189.925	125.106	ppb	4.6060	3.7	94.0588
Sr 216.596	132.319	ppb	2.2440	1.7	1260.42
Ti 334.941	256.353	ppb	4.2092	1.6	64853.1
Tl 190.794	5.4591	ppb	2.1302	39.0	-0.2873
V 292.401	45.5979	ppb	0.7590	1.7	1255.34
Zn 206.200	665.915	ppb	11.1216	1.7	1031.41

E03292013.vvq. All Data Report 3/30/2013, 8:54:32 AM

680-88632-b-10-e ms (Samp) 3/29/2013, 12:38:07 PM Rack 1, Tube 23

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	2.2786	2.1641	3.8201
Al 308.215	12198.8	11918.9	11751.5
As 188.980	44.6614	44.5253	44.9917
B 249.678	22.3503	21.7934	21.9317
Ba 389.178	417.067	407.436	403.618
Be 313.042	7.3088	7.1583	7.0339
Ca 370.602	17754	17383	17113
Cd 226.502	7.7346	7.6100	7.3201
Co 228.615	18.5359	17.8207	17.6940
Cr 267.716	65.7740	63.9022	62.7635
Cu 324.754	106.407	103.496	103.324
Fe 271.441	43022.6	42063.6	41488.1
K 766.491	2050.14	2009.38	1981.51
Mg 279.078	5825.91	5696.20	5624.25
Mn 257.610	1110.51	1086.51	1070.81
Mo 202.032	15.0602	14.6619	13.8668
Na 330.237	930.888	1023.16	877.882
Ni 231.604	37.4975	35.7883	35.8853
Pb 220.353	301.593	294.481	293.515
Sb 206.834	-5.4236u	3.1968	-4.3844u
Se 196.026	2.5006	12.8806	2.9433
Sn 189.925	42.3172	39.5047	37.3166
Sr 216.596	140.064	135.933	134.544
Ti 334.941	254.044	249.186	243.938
Tl 190.794	15.9320	12.3822	13.4944
V 292.401	55.2148	53.9516	53.3259
Zn 206.200	665.775	651.999	645.456

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	2.7543	ppb	0.9248	33.6	138.397
Al 308.215	11956.4	ppb	225.991	1.9	69328.8
As 188.980	44.7261	ppb	0.2399	0.5	28.5914
B 249.678	22.0251	ppb	0.2900	1.3	337.494
Ba 389.178	409.373	ppb	6.9307	1.7	8528.56
Be 313.042	7.1670	ppb	0.1376	1.9	13707.9
Ca 370.602	17417	ppb	321.8	1.8	52714
Cd 226.502	7.5549	ppb	0.2127	2.8	370.418
Co 228.615	18.0168	ppb	0.4540	2.5	226.065
Cr 267.716	64.1466	ppb	1.5200	2.4	2696.04
Cu 324.754	104.409	ppb	1.7325	1.7	5203.25
Fe 271.441	42191.4	ppb	775.213	1.8	71015.5
K 766.491	2013.68	ppb	34.5147	1.7	96833.8
Mg 279.078	5715.45	ppb	102.201	1.8	11811.9
Mn 257.610	1089.27	ppb	19.9915	1.8	250971
Mo 202.032	14.5296	ppb	0.6076	4.2	105.122
Na 330.237	943.976	ppb	73.5177	7.8	25.1755
Ni 231.604	36.3904	ppb	0.9601	2.6	86.8825
Pb 220.353	296.530	ppb	4.4117	1.5	482.095
Sb 206.834	-2.2037	ppb	4.7058	213.5	0.5188
Se 196.026	6.1081	ppb	5.8693	96.1	2.1476
Sn 189.925	39.7128	ppb	2.5068	6.3	30.1406
Sr 216.596	136.847	ppb	2.8709	2.1	1304.01
Ti 334.941	249.056	ppb	5.0545	2.0	63012.9
Tl 190.794	13.9362	ppb	1.8157	13.0	4.9836
V 292.401	54.1641	ppb	0.9623	1.8	1486.51
Zn 206.200	654.410	ppb	10.3717	1.6	1013.54



E03292013.vvq. All Data Report 3/30/2013, 8:54:32 AM

**680-88632-b-10-f msd (Samp) 3/29/2013, 12:43:33 PM Rack 1, Tube 24****Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	1.5668	1.7738	2.0934
Al 308.215	11587.7	11358.8	11228.8
As 188.980	49.6375	42.0575	53.2351
B 249.678	22.2370	21.3504	20.1977
Ba 389.178	437.107	430.818	426.737
Be 313.042	7.0306	6.9086	6.8336
Ca 370.602	22095	21699	21440
Cd 226.502	7.3801	7.2737	7.2142
Co 228.615	17.9595	16.7989	16.6899
Cr 267.716	51.4706	50.6094	49.4783
Cu 324.754	107.874	104.260	104.157
Fe 271.441	39690.1	38945.1	38566.8
K 766.491	2137.04	2098.36	2080.88
Mg 279.078	7893.18	7739.33	7659.83
Mn 257.610	1099.81	1078.29	1067.70
Mo 202.032	13.4746	12.9440	13.1869
Na 330.237	1078.38	1245.05	750.769
Ni 231.604	36.6598	35.7907	33.5140
Pb 220.353	545.125	530.641	523.624
Sb 206.834	0.5237	6.3922	10.6199
Se 196.026	17.6132	7.5387	1.6292
Sn 189.925	36.6637	38.7184	35.8043
Sr 216.596	139.914	137.805	135.033
Ti 334.941	242.369	238.046	235.122
Tl 190.794	10.0245	11.8090	14.9272
V 292.401	53.0397	51.7972	50.8627
Zn 206.200	696.889	679.131	673.909

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	1.8113	ppb	0.2653	14.6	71.2012
Al 308.215	11391.8	ppb	181.686	1.6	66067.3
As 188.980	48.3100	ppb	5.7058	11.8	31.0401
B 249.678	21.2617	ppb	1.0225	4.8	333.254
Ba 389.178	431.554	ppb	5.2241	1.2	8988.08
Be 313.042	6.9243	ppb	0.0994	1.4	13240.2
Ca 370.602	21745	ppb	329.8	1.5	66915
Cd 226.502	7.2893	ppb	0.0841	1.2	354.230
Co 228.615	17.1494	ppb	0.7036	4.1	215.979
Cr 267.716	50.5194	ppb	0.9992	2.0	2126.03
Cu 324.754	105.430	ppb	2.1172	2.0	5252.21
Fe 271.441	39067.4	ppb	571.508	1.5	65757.4
K 766.491	2105.43	ppb	28.7409	1.4	101236
Mg 279.078	7764.11	ppb	118.631	1.5	16039.8
Mn 257.610	1081.93	ppb	16.3576	1.5	249285
Mo 202.032	13.2018	ppb	0.2656	2.0	96.7510
Na 330.237	1024.73	ppb	251.469	24.5	30.1312
Ni 231.604	35.3215	ppb	1.6245	4.6	84.2950
Pb 220.353	533.130	ppb	10.9645	2.1	864.084
Sb 206.834	5.8453	ppb	5.0703	86.7	5.3745
Se 196.026	8.9270	ppb	8.0819	90.5	3.0499
Sn 189.925	37.0621	ppb	1.4974	4.0	28.1582
Sr 216.596	137.584	ppb	2.4480	1.8	1310.21
Ti 334.941	238.512	ppb	3.6458	1.5	60351.9
Tl 190.794	12.2536	ppb	2.4814	20.3	3.9937
V 292.401	51.8999	ppb	1.0921	2.1	1425.41
Zn 206.200	683.310	ppb	12.0465	1.8	1058.27

E03292013.wvq. All Data Report 3/30/2013, 8:54:32 AM

Cont Calib Verif (CCV) 3/29/2013, 12:48:58 PM Rack 1, Tube 25  
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	486.465	492.259	489.789
Al 308.215	4969.18	4960.76	4989.69
As 188.980	505.959	509.096	506.095
B 249.678	546.433	550.926	557.872
Ba 389.178	4636.86	4637.62	4661.46
Be 313.042	462.428	462.189	464.685
Ca 370.602	4840	4833	4850
Cd 226.502	463.402	463.475	464.862
Co 228.615	467.907	467.156	469.379
Cr 267.716	4635.05	4628.32	4651.50
Cu 324.754	4574.34	4572.62	4611.15
Fe 271.441	4969.57	4937.99	4974.03
K 766.491	9977.75	9989.57	10054.9
Mg 279.078	4900.93	4889.28	4902.89
Mn 257.610	4632.19	4632.48	4658.56
Mo 202.032	483.958	483.748	485.776
Na 330.237	7194.62	7126.08	7227.99
Ni 231.604	2366.59	2370.63	2377.11
Pb 220.353	489.412	493.658	493.607
Sb 206.834	971.973	956.465	983.256
Se 196.026	4908.71	4895.49	4928.82
Sn 189.925	4951.17	4955.92	4926.26
Sr 216.596	2423.27	2418.92	2434.96
Ti 334.941	494.638	493.686	496.913
Tl 190.794	5014.63	4972.65	5010.63
V 292.401	4858.28	4861.73	4892.23
Zn 206.200	2334.28	2323.18	2333.07

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	489.504	ppb	2.9076	0.6	34717.4	97.90086
Al 308.215	4973.21	ppb	14.8792	0.3	28969.3	99.46415
As 188.980	507.050	ppb	1.7732	0.3	335.234	101.40993
B 249.678	551.743	ppb	5.7629	1.0	5334.48	22.06974Q
Ba 389.178	4645.31	ppb	13.9887	0.3	96484.2	92.90630
Be 313.042	463.101	ppb	1.3773	0.3	894837	92.62021
Ca 370.602	4841	ppb	8.450	0.2	15450	96.82512
Cd 226.502	463.913	ppb	0.8227	0.2	16616.8	92.78252
Co 228.615	468.147	ppb	1.1307	0.2	5371.40	93.62946
Cr 267.716	4638.29	ppb	11.9256	0.3	193763	92.76581
Cu 324.754	4586.04	ppb	21.7634	0.5	224107	91.72073
Fe 271.441	4960.53	ppb	19.6489	0.4	8468.04	99.21055
K 766.491	10007.4	ppb	41.5323	0.4	480316	100.07394
Mg 279.078	4897.70	ppb	7.3563	0.2	10063.9	97.95400
Mn 257.610	4641.07	ppb	15.1412	0.3	1068418	92.82147
Mo 202.032	484.494	ppb	1.1154	0.2	3111.71	96.89879
Na 330.237	7182.89	ppb	51.9591	0.7	343.114	95.77193
Ni 231.604	2371.44	ppb	5.3096	0.2	5611.03	94.85771
Pb 220.353	492.226	ppb	2.4368	0.5	798.022	98.44518
Sb 206.834	970.565	ppb	13.4508	1.4	627.747	97.05647
Se 196.026	4911.01	ppb	16.7836	0.3	1595.48	98.22017
Sn 189.925	4944.45	ppb	15.9342	0.3	3701.45	98.88896
Sr 216.596	2425.72	ppb	8.2977	0.3	22607.5	97.02866
Ti 334.941	495.079	ppb	1.6581	0.3	125283	99.01575
Tl 190.794	4999.30	ppb	23.1711	0.5	3265.24	99.98604
V 292.401	4870.75	ppb	18.6861	0.4	133072	97.41497
Zn 206.200	2330.18	ppb	6.0877	0.3	3590.99	93.20713

E03292013.vvq. All Data Report 3/30/2013, 8:54:32 AM

Cont Calib Blank (CCB)                      3/29/2013, 12:54:21 PM                      Rack 1, Tube 26  
 Weight: 1    Volume: 1    Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.7687u	0.3710	0.5563
Al 308.215	-5.1706u	-5.6413u	-3.9332u
As 188.980	0.5579	3.4082	1.2687
B 249.678	2.7403	0.9765	-0.1478u
Ba 389.178	0.2961	1.1001	-0.6915u
Be 313.042	-0.0457u	-0.0433u	-0.0461u
Ca 370.602	1.891	-3.614u	0.6861
Cd 226.502	0.0118	-0.0962u	-0.1028u
Co 228.615	-1.0244u	-0.3816u	-0.5721u
Cr 267.716	-0.0277u	-0.2762u	-0.1672u
Cu 324.754	0.5265	-0.9370u	-0.5370u
Fe 271.441	1.6085	5.9983	-1.3571u
K 766.491	-0.9498u	-1.6907u	-1.2042u
Mg 279.078	-0.7630u	0.2177	-7.0693u
Mn 257.610	-0.2230u	-0.2140u	-0.2233u
Mo 202.032	0.5043	0.1079	-0.2556u
Na 330.237	32.1733	6.0887	-6.7990u
Ni 231.604	1.0816	-1.5335u	-1.4320u
Pb 220.353	0.3198	-2.9313u	0.8170
Sb 206.834	-3.6527u	2.7968	6.6004
Se 196.026	16.6903	-2.3511u	2.9136
Sn 189.925	-1.0015u	1.2650	-2.7219u
Sr 216.596	-0.6778u	-0.8868u	-0.3310u
Ti 334.941	0.0805	0.0176	-0.0057u
Tl 190.794	-0.1642u	5.9838	4.4490
V 292.401	0.3077	-0.3534u	-0.2928u
Zn 206.200	-0.4108u	-0.7681u	0.6313

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.0529	ppb	0.7175	1357.6	-52.7881	0.05285
Al 308.215	-4.9151	ppb	0.8822	17.9	238.029	-4.91506
As 188.980	1.7449	ppb	1.4836	85.0	0.4062	1.74492
B 249.678	1.1897	ppb	1.4558	122.4	181.784	1.18969
Ba 389.178	0.2349	ppb	0.8974	382.0	1.3576	0.23492
Be 313.042	-0.0450	ppb	0.0015	3.3	-235.455	-0.04502
Ca 370.602	-0.3456	ppb	2.894	837.3	-7.977	-0.34559
Cd 226.502	-0.0624	ppb	0.0643	103.1	6.7845	-0.06241
Co 228.615	-0.6594	ppb	0.3302	50.1	8.0435	-0.65939
Cr 267.716	-0.1570	ppb	0.1246	79.3	-3.3202	-0.15702
Cu 324.754	-0.3158	ppb	0.7564	239.5	74.8336	-0.31581
Fe 271.441	2.0832	ppb	3.7006	177.6	6.7950	2.08323
K 766.491	-1.2816	ppb	0.3764	29.4	170.369	-1.28158
Mg 279.078	-2.5382	ppb	3.9546	155.8	24.0013	-2.53818
Mn 257.610	-0.2201	ppb	0.0053	2.4	42.2562	-0.22007
Mo 202.032	0.1189	ppb	0.3801	319.7	14.6963	0.11887
Na 330.237	10.4877	ppb	19.8550	189.3	-3.3918	10.48765
Ni 231.604	-0.6280	ppb	1.4814	235.9	-1.4989	-0.62797
Pb 220.353	-0.5982	ppb	2.0358	340.3	2.5408	-0.59820
Sb 206.834	1.9149	ppb	5.1832	270.7	2.1600	1.91486
Se 196.026	5.7509	ppb	9.8327	171.0	1.6917	5.75095
Sn 189.925	-0.8195	ppb	1.9997	244.0	-0.2048	-0.81947
Sr 216.596	-0.6319	ppb	0.2807	44.4	5.0750	-0.63189
Ti 334.941	0.0308	ppb	0.0446	144.9	-53.7820	0.03080
Tl 190.794	3.4228	ppb	3.1999	93.5	0.5532	3.42284
V 292.401	-0.1128	ppb	0.3654	323.9	2.4269	-0.11284
Zn 206.200	-0.1825	ppb	0.7271	398.3	5.15223	-0.18252

E03292013.vvq. All Data Report 3/30/2013, 8:54:32 AM

**mb 680-271056/1-a (Samp)**      **3/29/2013, 12:59:45 PM**      **Rack 1, Tube 27**  
**Weight: 1**      **Volume: 1**      **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.1227u	0.2693	0.2032
Al 308.215	5.7237	3.2736	4.6848
As 188.980	2.2533	-6.6787u	-6.9882u
B 249.678	-6.6458u	-7.2736u	-8.2585u
Ba 389.178	0.7969	0.1288	1.5615
Be 313.042	-0.0524u	-0.0422u	-0.0518u
Ca 370.602	19.37	20.07	24.03
Cd 226.502	0.1679	0.0462	0.1499
Co 228.615	-0.8064u	-0.3615u	-0.7622u
Cr 267.716	0.3267	0.1102	0.0506
Cu 324.754	-0.4537u	-0.4139u	0.6148
Fe 271.441	25.0156	20.6008	22.8095
K 766.491	10.7319	10.7978	9.7877
Mg 279.078	1.3111	4.2298	2.1265
Mn 257.610	0.2169	0.1943	0.2396
Mo 202.032	-0.6567u	-0.6100u	-0.0975u
Na 330.237	245.480	203.317	49.9150
Ni 231.604	0.3559	1.2972	1.7729
Pb 220.353	3.3929	-1.9705u	1.1327
Sb 206.834	5.4845	-9.8483u	-6.4783u
Se 196.026	5.4840	-3.0975u	3.7443
Sn 189.925	11.6046	13.6885	12.2772
Sr 216.596	-0.0626u	0.1921	-0.1199u
Ti 334.941	0.2517	0.1749	0.2136
Tl 190.794	4.6080	0.0852	1.9755
V 292.401	-0.1354u	-0.0088u	-0.3154u
Zn 206.200	0.5764	0.0006	1.1826

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1166	ppb	0.2098	180.0	-48.2700
Al 308.215	4.5607	ppb	1.2298	27.0	292.704
As 188.980	-3.8045	ppb	5.2485	138.0	-3.2726
B 249.678	-7.3926	ppb	0.8129	11.0	101.365
Ba 389.178	0.8291	ppb	0.7168	86.5	13.7125
Be 313.042	-0.0488	ppb	0.0057	11.7	-242.750
Ca 370.602	21.16	ppb	2.513	11.9	59.36
Cd 226.502	0.1213	ppb	0.0657	54.1	13.4104
Co 228.615	-0.6434	ppb	0.2451	38.1	8.2375
Cr 267.716	0.1625	ppb	0.1453	89.4	10.0376
Cu 324.754	-0.0842	ppb	0.6057	719.0	86.1424
Fe 271.441	22.8086	ppb	2.2074	9.7	41.6744
K 766.491	10.4391	ppb	0.5651	5.4	732.647
Mg 279.078	2.5558	ppb	1.5060	58.9	34.5091
Mn 257.610	0.2169	ppb	0.0227	10.4	142.945
Mo 202.032	-0.4547	ppb	0.3103	68.2	11.0179
Na 330.237	166.237	ppb	102.920	61.9	4.6112
Ni 231.604	1.1420	ppb	0.7211	63.1	2.6894
Pb 220.353	0.8517	ppb	2.6928	316.2	4.8820
Sb 206.834	-3.6140	ppb	8.0577	223.0	-1.2491
Se 196.026	2.0436	ppb	4.5365	222.0	0.4879
Sn 189.925	12.5235	ppb	1.0636	8.5	9.7828
Sr 216.596	0.0032	ppb	0.1661	5215.8	11.0202
Ti 334.941	0.2134	ppb	0.0384	18.0	-7.5487
Tl 190.794	2.2229	ppb	2.2715	102.2	-0.2327
V 292.401	-0.1532	ppb	0.1540	100.5	1.3817
Zn 206.200	0.5865	ppb	0.5911	100.8	2.7102

E03292013.vvq. All Data Report 3/30/2013, 8:54:32 AM

ics 680-271056/3-a (Samp)      3/29/2013, 1:05:09 PM      Rack 1, Tube 28  
 Weight: 1      Volume: 1      Dilution: 1

Label	Replicates Concentration		
Ag 328.068	211.261	210.897	210.936
Al 308.215	2008.82	2019.90	2007.40
As 188.980	218.206	205.633	213.724
B 249.678	393.414	396.942	399.852
Ba 389.178	192.274	191.914	191.794
Be 313.042	207.104	208.038	207.535
Ca 370.602	20156	20267	20191
Cd 226.502	201.693	202.207	201.460
Co 228.615	205.678	204.990	205.686
Cr 267.716	204.738	206.116	205.566
Cu 324.754	203.840	204.325	206.355
Fe 271.441	21239.3	21267.6	21201.1
K 766.491	19978.6	20004.5	19971.1
Mg 279.078	20439.3	20540.8	20462.4
Mn 257.610	2099.02	2105.48	2100.06
Mo 202.032	202.494	204.657	204.559
Na 330.237	17667.9	17277.3	17454.3
Ni 231.604	202.004	204.186	207.083
Pb 220.353	205.409	206.724	209.042
Sb 206.834	181.170	194.999	189.815
Se 196.026	214.509	200.125	201.118
Sn 189.925	219.286	220.024	215.051
Sr 216.596	217.720	219.251	219.309
Ti 334.941	205.426	206.423	206.326
Tl 190.794	36.3765	48.0691	51.9828
V 292.401	204.551	204.596	203.708
Zn 206.200	191.990	193.563	193.506

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	211.031	ppb	0.1999	0.1	14959.0
Al 308.215	2012.04	ppb	6.8442	0.3	11911.6
As 188.980	212.521	ppb	6.3722	3.0	140.025
B 249.678	396.736	ppb	3.2235	0.8	3867.22
Ba 389.178	191.994	ppb	0.2500	0.1	4008.39
Be 313.042	207.559	ppb	0.4676	0.2	401058
Ca 370.602	20205	ppb	56.69	0.3	63443
Cd 226.502	201.787	ppb	0.3824	0.2	7274.26
Co 228.615	205.451	ppb	0.3998	0.2	2360.90
Cr 267.716	205.474	ppb	0.6936	0.3	8597.35
Cu 324.754	204.840	ppb	1.3341	0.7	10107.3
Fe 271.441	21236.0	ppb	33.3559	0.2	35777.2
K 766.491	19984.7	ppb	17.5121	0.1	958959
Mg 279.078	20480.8	ppb	53.1991	0.3	42268.6
Mn 257.610	2101.52	ppb	3.4702	0.2	483998
Mo 202.032	203.904	ppb	1.2214	0.6	1319.89
Na 330.237	17466.5	ppb	195.616	1.1	885.603
Ni 231.604	204.424	ppb	2.5477	1.2	484.063
Pb 220.353	207.058	ppb	1.8392	0.9	337.756
Sb 206.834	188.661	ppb	6.9865	3.7	118.448
Se 196.026	205.251	ppb	8.0332	3.9	66.9040
Sn 189.925	218.120	ppb	2.6836	1.2	163.690
Sr 216.596	218.760	ppb	0.9010	0.4	2053.10
Ti 334.941	206.058	ppb	0.5500	0.3	52184.7
Tl 190.794	45.4761	ppb	8.1198	17.9	25.4060
V 292.401	204.285	ppb	0.5002	0.2	5553.01
Zn 206.200	193.020	ppb	0.8922	0.5	299.654

E03292013.wvq. All Data Report 3/30/2013, 8:54:32 AM

680-88638-a-1-e (Samp) 3/29/2013, 1:10:33 PM Rack 1, Tube 29

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-1.4163u	-0.4063u	-1.3379u
Al 308.215	72676.1	72901.4	72923.0
As 188.980	32.7022	38.1209	35.6441
B 249.678	40.3696	39.8740	40.7456
Ba 389.178	560.063	558.081	557.703
Be 313.042	8.7333	8.7675	8.7600
Ca 370.602	667024	670810	667822
Cd 226.502	0.2761	0.1160	0.0956
Co 228.615	12.5318	13.1623	11.8799
Cr 267.716	284.717	286.668	287.013
Cu 324.754	121.498	118.892	119.499
Fe 271.441	82110.4	82188.6	82066.2
K 766.491	15348.4	15309.0	15368.1
Mg 279.078	61028.2	61191.1	61261.8
Mn 257.610	2351.66	2354.98	2355.19
Mo 202.032	44.9678	46.0994	45.3031
Na 330.237	2579.46	2370.30	2448.10
Ni 231.604	107.462	107.554	106.677
Pb 220.353	55.6860	51.8909	53.4562
Sb 206.834	9.1615	4.8939	12.6468
Se 196.026	-5.5565u	-1.2526	7.4261
Sn 189.925	13.4408	17.8928	16.5124
Sr 216.596	886.295	890.721	895.200
Ti 334.941	3628.30	3645.68	3654.99
Tl 190.794	17.8675	9.5505	13.2906
V 292.401	103.454	103.920	103.830
Zn 206.200	437.069	440.984	436.156

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.0535	ppb	0.5619	53.3	-160.775
Al 308.215	72833.5	ppb	136.704	0.2	420965
As 188.980	35.4891	ppb	2.7127	7.6	27.8622
B 249.678	40.3298	ppb	0.4371	1.1	471.613
Ba 389.178	558.615	ppb	1.2675	0.2	11679.9
Be 313.042	8.7536	ppb	0.0180	0.2	16999.7
Ca 370.602	668552	ppb	1996	0.3	2148284
Cd 226.502	0.1626	ppb	0.0989	60.8	192.817
Co 228.615	12.5247	ppb	0.6412	5.1	248.614
Cr 267.716	286.133	ppb	1.2380	0.4	11989.3
Cu 324.754	119.963	ppb	1.3636	1.1	5975.01
Fe 271.441	82121.7	ppb	62.0076	0.1	138220
K 766.491	15341.9	ppb	30.1017	0.2	736226
Mg 279.078	61160.4	ppb	119.785	0.2	126211
Mn 257.610	2353.94	ppb	1.9803	0.1	542511
Mo 202.032	45.4567	ppb	0.5812	1.3	301.539
Na 330.237	2465.95	ppb	105.716	4.3	66.8681
Ni 231.604	107.231	ppb	0.4821	0.4	255.262
Pb 220.353	53.6777	ppb	1.9072	3.6	87.4009
Sb 206.834	8.9007	ppb	3.8830	43.6	9.0359
Se 196.026	0.2057	ppb	6.6130	3215.3	0.5901
Sn 189.925	15.9487	ppb	2.2789	14.3	12.5956
Sr 216.596	890.738	ppb	4.4525	0.5	8410.74
Ti 334.941	3642.99	ppb	13.5452	0.4	922390
Tl 190.794	13.5695	ppb	4.1655	30.7	2.1962
V 292.401	103.735	ppb	0.2472	0.2	2878.48
Zn 206.200	438.070	ppb	2.5650	0.6	678.334

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680-88638-a-2-d (Samp)                      3/29/2013, 1:15:58 PM                      Rack 1, Tube 30  
 Weight: 1                                      Volume: 1                                      Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-2.0643u	-0.9911u	-1.7016u
Al 308.215	60735.0	60858.5	60820.0
As 188.980	20.3615	14.4117	19.5308
B 249.678	-6.3782u	-7.3809u	-5.9488u
Ba 389.178	157.649	156.661	156.458
Be 313.042	4.5466	4.5632	4.5600
Ca 370.602	102925	103066	103216
Cd 226.502	0.6718	0.8400	0.7620
Co 228.615	8.8939	8.1298	8.7086
Cr 267.716	56.4795	57.2053	57.7226
Cu 324.754	44.5297	45.9023	45.1757
Fe 271.441	90409.2	90719.0	90478.8
K 766.491	6647.71	6637.85	6600.77
Mg 279.078	11441.5	11487.4	11484.2
Mn 257.610	1077.34	1081.51	1081.13
Mo 202.032	4.4613	4.0309	4.5282
Na 330.237	227.745u	57.6787u	258.585u
Ni 231.604	14.8810	16.1220	16.3434
Pb 220.353	70.1337	72.7964	69.5489
Sb 206.834	-0.2746	3.8474	-2.0511
Se 196.026	-3.3125u	-1.2721	11.5801
Sn 189.925	11.2682	16.3733	20.2428
Sr 216.596	107.176	106.915	107.915
Ti 334.941	1900.28	1904.87	1908.25
Tl 190.794	12.2226	4.7816u	4.7124u
V 292.401	171.157	171.149	170.738
Zn 206.200	166.894	168.681	170.300

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.5857	ppb	0.5459	34.4	-168.672
Al 308.215	60804.5	ppb	63.1771	0.1	351478
As 188.980	18.1013	ppb	3.2222	17.8	11.1867
B 249.678	-6.5693	ppb	0.7349	11.2	24.4091
Ba 389.178	156.923	ppb	0.6373	0.4	3320.46
Be 313.042	4.5566	ppb	0.0088	0.2	8692.85
Ca 370.602	103069	ppb	145.4	0.1	325037
Cd 226.502	0.7579	ppb	0.0842	11.1	231.650
Co 228.615	8.5774	ppb	0.3986	4.6	159.268
Cr 267.716	57.1358	ppb	0.6244	1.1	2415.28
Cu 324.754	45.2026	ppb	0.6867	1.5	2323.29
Fe 271.441	90535.6	ppb	162.553	0.2	152380
K 766.491	6628.78	ppb	24.7481	0.4	318234
Mg 279.078	11471.0	ppb	25.6606	0.2	23685.0
Mn 257.610	1080.00	ppb	2.3053	0.2	249001
Mo 202.032	4.3401	ppb	0.2699	6.2	37.4536
Na 330.237	181.336	ppb	108.195	59.7	-37.7632
Ni 231.604	15.7821	ppb	0.7882	5.0	39.0433
Pb 220.353	70.8263	ppb	1.7310	2.4	115.997
Sb 206.834	0.5072	ppb	3.0259	596.5	2.9051
Se 196.026	2.3318	ppb	8.0740	346.2	1.1060
Sn 189.925	15.9615	ppb	4.5014	28.2	12.3930
Sr 216.596	107.335	ppb	0.5185	0.5	1053.84
Ti 334.941	1904.47	ppb	4.0003	0.2	482096
Tl 190.794	7.2389	ppb	4.3162	59.6	-0.9743
V 292.401	171.015	ppb	0.2399	0.1	4715.84
Zn 206.200	168.625	ppb	1.7034	1.0	262.378

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680-88638-a-3-d (Samp)                      3/29/2013, 1:21:23 PM                      Rack 1, Tube 31  
 Weight: 1                                      Volume: 1                                      Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-1.6720u	-1.3988u	-0.4590u
Al 308.215	114529	114662	114735
As 188.980	23.7616	26.3020	32.3042
B 249.678	-5.8329u	-5.9952u	-5.5330u
Ba 389.178	519.280	521.856	522.400
Be 313.042	4.7222	4.7206	4.7372
Ca 370.602	229891	227906	229552
Cd 226.502	1.0106	0.7754	1.0378
Co 228.615	35.8247	35.3917	34.8413
Cr 267.716	128.037	127.206	127.669
Cu 324.754	81.4601	82.7497	86.3891
Fe 271.441	123882	123908	124291
K 766.491	10344.4	10329.3	10322.7
Mg 279.078	24831.4	24762.6	24826.2
Mn 257.610	2080.60	2075.95	2083.79
Mo 202.032	5.9915	7.3060	7.8068
Na 330.237	186.037u	30.9476u	191.714u
Ni 231.604	33.9148	31.4086	34.0561
Pb 220.353	100.991	101.171	104.031
Sb 206.834	12.1346	7.7399	6.1394
Se 196.026	-10.7618u	-16.2779u	4.0215
Sn 189.925	14.4093	9.6016	15.1975
Sr 216.596	237.054	236.207	235.990
Ti 334.941	3532.57	3518.30	3527.29
Tl 190.794	13.5663	16.3449	16.7971
V 292.401	232.968	233.130	234.118
Zn 206.200	304.198	301.915	301.328

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.1766	ppb	0.6363	54.1	-140.621
Al 308.215	114642	ppb	104.244	0.1	662447
As 188.980	27.4559	ppb	4.3867	16.0	18.1530
B 249.678	-5.7870	ppb	0.2345	4.1	0.4302
Ba 389.178	521.178	ppb	1.6667	0.3	10913.3
Be 313.042	4.7267	ppb	0.0092	0.2	9067.00
Ca 370.602	229116	ppb	1062	0.5	728778
Cd 226.502	0.9413	ppb	0.1442	15.3	310.601
Co 228.615	35.3525	ppb	0.4929	1.4	505.639
Cr 267.716	127.637	ppb	0.4164	0.3	5374.07
Cu 324.754	83.5329	ppb	2.5562	3.1	4205.05
Fe 271.441	124027	ppb	228.975	0.2	208751
K 766.491	10332.1	ppb	11.1614	0.1	495894
Mg 279.078	24806.8	ppb	38.2928	0.2	51182.4
Mn 257.610	2080.11	ppb	3.9414	0.2	479378
Mo 202.032	7.0348	ppb	0.9375	13.3	53.1380
Na 330.237	136.233	ppb	91.2240	67.0	-63.6677
Ni 231.604	33.1265	ppb	1.4894	4.5	80.7256
Pb 220.353	102.064	ppb	1.7052	1.7	164.826
Sb 206.834	8.6713	ppb	3.1042	35.8	8.8302
Se 196.026	-7.6727	ppb	10.4963	136.8	-1.8513
Sn 189.925	13.0694	ppb	3.0290	23.2	10.2746
Sr 216.596	236.417	ppb	0.5621	0.2	2281.40
Ti 334.941	3526.05	ppb	7.2178	0.2	892647
Tl 190.794	15.5694	ppb	1.7495	11.2	2.4186
V 292.401	233.405	ppb	0.6224	0.3	6445.47
Zn 206.200	302.480	ppb	1.5164	0.5	469.147



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680-88638-a-4-d (Samp)                      3/29/2013, 1:26:48 PM                      Rack 1, Tube 32  
 Weight: 1                                      Volume: 1                                      Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-1.2362u	-1.5960u	-1.7285u
Al 308.215	107665	107842	107809
As 188.980	32.1620	32.3339	31.5459
B 249.678	0.3924u	-0.1596u	1.4563u
Ba 389.178	493.707	494.905	496.855
Be 313.042	6.1209	6.1224	6.1366
Ca 370.602	305314	305521	304917
Cd 226.502	1.0653	0.9388	1.1162
Co 228.615	18.5526	18.3948	18.7139
Cr 267.716	127.402	128.005	127.632
Cu 324.754	81.5502	83.8672	85.2155
Fe 271.441	128401	128540	128664
K 766.491	11231.5	11184.8	11225.4
Mg 279.078	32035.9	32051.3	32046.7
Mn 257.610	1853.15	1854.21	1854.91
Mo 202.032	10.0583	9.5923	10.7531
Na 330.237	842.892u	790.445u	631.708u
Ni 231.604	39.3904	36.5674	36.2026
Pb 220.353	77.3147	73.2217	71.3328
Sb 206.834	-5.5228u	-8.8982u	1.5045
Se 196.026	-10.1588u	-21.1985u	-0.0271
Sn 189.925	20.9614	18.7150	17.1638
Sr 216.596	348.627	349.219	348.959
Ti 334.941	3275.84	3272.91	3265.94
Tl 190.794	14.6698	5.4810u	15.7716
V 292.401	253.747	254.484	254.846
Zn 206.200	279.281	283.525	284.926

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.5202	ppb	0.2547	16.8	-171.044
Al 308.215	107772	ppb	94.1022	0.1	622768
As 188.980	32.0139	ppb	0.4144	1.3	21.8021
B 249.678	0.5630	ppb	0.8213	145.9	55.7210
Ba 389.178	495.156	ppb	1.5890	0.3	10379.2
Be 313.042	6.1266	ppb	0.0087	0.1	11797.6
Ca 370.602	305251	ppb	307.1	0.1	973689
Cd 226.502	1.0401	ppb	0.0914	8.8	323.897
Co 228.615	18.5538	ppb	0.1595	0.9	307.112
Cr 267.716	127.680	ppb	0.3045	0.2	5375.26
Cu 324.754	83.5443	ppb	1.8538	2.2	4206.79
Fe 271.441	128535	ppb	131.675	0.1	216336
K 766.491	11213.9	ppb	25.4145	0.2	538195
Mg 279.078	32044.6	ppb	7.8945	0.0	66126.7
Mn 257.610	1854.09	ppb	0.8859	0.0	427407
Mo 202.032	10.1346	ppb	0.5841	5.8	72.7773
Na 330.237	755.015	ppb	109.960	14.6	-31.0954
Ni 231.604	37.3868	ppb	1.7447	4.7	90.8873
Pb 220.353	73.9564	ppb	3.0579	4.1	119.653
Sb 206.834	-4.3055	ppb	5.3071	123.3	0.8514
Se 196.026	-10.4615	ppb	10.5889	101.2	-2.7767
Sn 189.925	18.9467	ppb	1.9094	10.1	14.7023
Sr 216.596	348.935	ppb	0.2965	0.1	3339.82
Ti 334.941	3271.56	ppb	5.0876	0.2	828254
Tl 190.794	11.9741	ppb	5.6501	47.2	0.1344
V 292.401	254.359	ppb	0.5602	0.2	7015.14
Zn 206.200	282.578	ppb	2.9392	1.0	428.372

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**680-88638-a-4-dSD^5 (Samp)**      **3/29/2013, 1:32:13 PM**      **Rack 1, Tube 33****Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-1.2978u	-0.1723u	0.0607
Al 308.215	23591.8	23265.1	23045.3
As 188.980	8.7972	9.9922	10.8859
B 249.678	-8.5045u	-8.5395u	-8.3799u
Ba 389.178	107.736	104.612	105.505
Be 313.042	1.3117	1.2850	1.2683
Ca 370.602	67936	67069	66406
Cd 226.502	0.1436	0.1854	0.2339
Co 228.615	3.2168	3.4414	4.3268
Cr 267.716	28.3612	28.2509	28.1251
Cu 324.754	18.4375	18.3047	18.2018
Fe 271.441	29091.3	28714.4	28419.0
K 766.491	2208.80	2181.26	2164.33
Mg 279.078	7145.44	7061.86	6990.12
Mn 257.610	412.916	407.531	403.170
Mo 202.032	1.8624	1.9244	1.4768
Na 330.237	231.073u	169.690u	278.647u
Ni 231.604	10.0024	8.9202	9.8534
Pb 220.353	14.3100	15.1069	11.9464
Sb 206.834	3.4676	-0.8811	-4.3292u
Se 196.026	10.7716	-1.5019u	5.3973
Sn 189.925	2.9473	3.3519	4.0490
Sr 216.596	77.7540	77.1736	76.8017
Ti 334.941	742.607	733.151	725.779
Tl 190.794	6.0382	9.3134	6.0033
V 292.401	56.0674	55.8184	55.2605
Zn 206.200	84.2299	81.7227	76.8899

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.4698	ppb	0.7265	154.6	-91.4074
Al 308.215	23300.7	ppb	274.980	1.2	134853
As 188.980	9.8918	ppb	1.0480	10.6	6.0946
B 249.678	-8.4746	ppb	0.0838	1.0	64.3519
Ba 389.178	105.951	ppb	1.6093	1.5	2219.04
Be 313.042	1.2883	ppb	0.0219	1.7	2364.74
Ca 370.602	67137	ppb	767.6	1.1	214110
Cd 226.502	0.1876	ppb	0.0452	24.1	77.8722
Co 228.615	3.6617	ppb	0.5869	16.0	75.2302
Cr 267.716	28.2457	ppb	0.1181	0.4	1191.73
Cu 324.754	18.3147	ppb	0.1182	0.6	992.841
Fe 271.441	28741.5	ppb	336.972	1.2	48377.1
K 766.491	2184.80	ppb	22.4468	1.0	105043
Mg 279.078	7065.81	ppb	77.7314	1.1	14603.9
Mn 257.610	407.872	ppb	4.8821	1.2	94097.2
Mo 202.032	1.7545	ppb	0.2425	13.8	23.8127
Na 330.237	226.470	ppb	54.6237	24.1	-7.1790
Ni 231.604	9.5920	ppb	0.5866	6.1	23.2282
Pb 220.353	13.7878	ppb	1.6437	11.9	25.0530
Sb 206.834	-0.5809	ppb	3.9070	672.6	1.1907
Se 196.026	4.8890	ppb	6.1526	125.8	1.5889
Sn 189.925	3.4494	ppb	0.5573	16.2	3.0152
Sr 216.596	77.2431	ppb	0.4800	0.6	747.979
Ti 334.941	733.846	ppb	8.4356	1.1	185738
Tl 190.794	7.1183	ppb	1.9011	26.7	1.6312
V 292.401	55.7154	ppb	0.4132	0.7	1541.29
Zn 206.200	80.9475	ppb	3.7309	4.6	126.889

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680-88638-a-4-dPDS (Samp) 3/29/2013, 1:37:39 PM Rack 1, Tube 34

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	48.0852	48.8034	47.2080
Al 308.215	107773	107912	107901
As 188.980	2137.72	2131.06	2130.37
B 249.678	1030.97	1044.06	1054.53
Ba 389.178	2418.88	2420.87	2429.03
Be 313.042	54.1437	54.2339	54.2152
Ca 370.602	304790	304106	304791
Cd 226.502	48.0377	48.2064	48.4250
Co 228.615	498.720	499.733	494.935
Cr 267.716	317.262	317.557	316.985
Cu 324.754	331.729	330.582	328.881
Fe 271.441	126940	127188	127335
K 766.491	16774.9	16874.5	16874.3
Mg 279.078	36506.1	36505.6	36510.6
Mn 257.610	2311.15	2314.30	2315.56
Mo 202.032	504.490	504.125	503.404
Na 330.237	5766.36	5739.92	5734.00
Ni 231.604	505.436	505.308	511.002
Pb 220.353	546.748	542.968	545.131
Sb 206.834	467.899	464.008	468.869
Se 196.026	1976.93	1984.29	1976.51
Sn 189.925	1007.75	1012.71	1014.22
Sr 216.596	836.278	839.345	836.949
Ti 334.941	4172.99	4179.65	4175.37
Tl 190.794	1909.11	1924.19	1924.13
V 292.401	728.969	731.774	732.181
Zn 206.200	748.456	744.403	744.362

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	48.0322	ppb	0.7990	1.7	3338.77
Al 308.215	107862	ppb	77.5403	0.1	623343
As 188.980	2133.05	ppb	4.0621	0.2	1414.49
B 249.678	1043.19	ppb	11.8050	1.1	9823.80
Ba 389.178	2422.93	ppb	5.3756	0.2	50418.1
Be 313.042	54.1976	ppb	0.0476	0.1	104627
Ca 370.602	304563	ppb	395.0	0.1	971758
Cd 226.502	48.2231	ppb	0.1942	0.4	2009.28
Co 228.615	497.796	ppb	2.5294	0.5	5788.32
Cr 267.716	317.268	ppb	0.2857	0.1	13294.8
Cu 324.754	330.397	ppb	1.4329	0.4	16275.0
Fe 271.441	127154	ppb	199.821	0.2	214090
K 766.491	16841.2	ppb	57.4453	0.3	808155
Mg 279.078	36507.4	ppb	2.7360	0.0	75329.7
Mn 257.610	2313.67	ppb	2.2703	0.1	533217
Mo 202.032	504.006	ppb	0.5526	0.1	3238.28
Na 330.237	5746.76	ppb	17.2261	0.3	215.820
Ni 231.604	507.249	ppb	3.2512	0.6	1202.58
Pb 220.353	544.949	ppb	1.8967	0.3	878.873
Sb 206.834	466.925	ppb	2.5728	0.6	289.444
Se 196.026	1979.24	ppb	4.3751	0.2	643.460
Sn 189.925	1011.56	ppb	3.3873	0.3	757.698
Sr 216.596	837.524	ppb	1.6125	0.2	7877.94
Ti 334.941	4176.00	ppb	3.3776	0.1	1057224
Tl 190.794	1919.14	ppb	8.6872	0.5	1247.35
V 292.401	730.975	ppb	1.7487	0.2	19978.6
Zn 206.200	745.740	ppb	2.3519	0.3	5154.00

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**680-88638-a-4-e ms (Samp)**      **3/29/2013, 1:43:05 PM**      **Rack 1, Tube 35****Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	9.3797	8.5550	9.9864
Al 308.215	92453.8	92658.2	92676.3
As 188.980	135.640	140.036	132.703
B 249.678	203.554	203.214	202.315
Ba 389.178	473.162	474.225	476.090
Be 313.042	54.7849	54.8976	54.9150
Ca 370.602	284475	283963	284368
Cd 226.502	48.8111	49.1778	48.7552
Co 228.615	67.9888	67.5758	67.0600
Cr 267.716	204.797	205.664	206.072
Cu 324.754	164.865	162.275	164.085
Fe 271.441	126875	127029	127242
K 766.491	14650.2	14682.6	14728.5
Mg 279.078	37971.7	38032.1	37728.2
Mn 257.610	2195.59	2197.44	2202.68
Mo 202.032	102.122	101.593	103.900
Na 330.237	5599.55	5102.33	5341.07
Ni 231.604	126.932	128.573	122.845
Pb 220.353	114.722	114.616	114.408
Sb 206.834	14.6576	19.2027	4.7078
Se 196.026	87.6858	116.119	91.8842
Sn 189.925	207.375	199.692	202.936
Sr 216.596	416.994	418.224	418.303
Ti 334.941	2946.34	2955.39	2952.36
Tl 190.794	53.2280	54.9453	48.2245
V 292.401	320.747	322.327	323.103
Zn 206.200	354.614	354.110	347.646

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	9.3070	ppb	0.7184	7.7	598.399
Al 308.215	92596.1	ppb	123.529	0.1	535120
As 188.980	136.126	ppb	3.6908	2.7	90.6211
B 249.678	203.028	ppb	0.6402	0.3	1953.57
Ba 389.178	474.493	ppb	1.4822	0.3	9952.48
Be 313.042	54.8658	ppb	0.0706	0.1	105991
Ca 370.602	284269	ppb	270.2	0.1	906134
Cd 226.502	48.9147	ppb	0.2296	0.5	2033.87
Co 228.615	67.5415	ppb	0.4653	0.7	855.266
Cr 267.716	205.511	ppb	0.6509	0.3	8626.46
Cu 324.754	163.742	ppb	1.3286	0.8	8126.27
Fe 271.441	127048	ppb	184.492	0.1	213842
K 766.491	14687.1	ppb	39.3414	0.3	704816
Mg 279.078	37910.7	ppb	160.875	0.4	78232.1
Mn 257.610	2198.57	ppb	3.6780	0.2	506731
Mo 202.032	102.538	ppb	1.2089	1.2	665.131
Na 330.237	5347.65	ppb	248.674	4.7	207.747
Ni 231.604	126.117	ppb	2.9501	2.3	300.797
Pb 220.353	114.582	ppb	0.1597	0.1	185.624
Sb 206.834	12.8560	ppb	7.4135	57.7	11.3948
Se 196.026	98.5630	ppb	15.3483	15.6	32.6807
Sn 189.925	203.335	ppb	3.8572	1.9	152.715
Sr 216.596	417.840	ppb	0.7343	0.2	3976.55
Ti 334.941	2951.36	ppb	4.6086	0.2	747221
Tl 190.794	52.1326	ppb	3.4918	6.7	26.1265
V 292.401	322.059	ppb	1.2007	0.4	8842.05
Zn 206.200	352.123	ppb	3.8857	1.1	545.678

E03292013.wvq. All Data Report 3/30/2013, 8:54:32 AM

680-88638-a-4-f msd (Samp)      3/29/2013, 1:48:31 PM      Rack 1, Tube 36  
 Weight: 1      Volume: 1      Dilution: 1

Label	Replicates Concentration		
Ag 328.068	9.9009	8.8744	9.3704
Al 308.215	123809	118597	120899
As 188.980	149.572	136.506	139.927
B 249.678	203.117	195.922	199.768
Ba 389.178	660.454	634.118	647.722
Be 313.042	58.2101	55.6289	56.8198
Ca 370.602	367206	352963	360875
Cd 226.502	51.9982	49.3614	50.5217
Co 228.615	73.9004	70.5784	72.5338
Cr 267.716	230.790	220.354	224.730
Cu 324.754	186.143	176.901	182.109
Fe 271.441	132436	126474	129213
K 766.491	17645.2	16967.2	17289.7
Mg 279.078	44308.1	42306.7	43209.3
Mn 257.610	2836.76	2717.56	2774.18
Mo 202.032	112.498	106.718	108.317
Na 330.237	5838.92	5581.53	5743.92
Ni 231.604	139.425	131.679	137.049
Pb 220.353	137.127	130.867	133.320
Sb 206.834	11.7069	19.1324	24.1012
Se 196.026	91.4905	106.737	112.200
Sn 189.925	217.676	204.729	215.838
Sr 216.596	519.402	496.088	507.124
Ti 334.941	3828.68	3668.81	3747.33
Tl 190.794	54.8241	48.3034	47.7957
V 292.401	349.830	333.356	341.265
Zn 206.200	406.730	388.723	394.388

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	9.3819	ppb	0.5133	5.5	602.401
Al 308.215	121102	ppb	2612.20	2.2	699773
As 188.980	142.001	ppb	6.7755	4.8	95.1697
B 249.678	199.602	ppb	3.6007	1.8	1919.33
Ba 389.178	647.431	ppb	13.1707	2.0	13548.0
Be 313.042	56.8863	ppb	1.2919	2.3	109924
Ca 370.602	360348	ppb	7136	2.0	1151264
Cd 226.502	50.6271	ppb	1.3216	2.6	2100.17
Co 228.615	72.3375	ppb	1.6697	2.3	930.200
Cr 267.716	225.291	ppb	5.2406	2.3	9456.91
Cu 324.754	181.718	ppb	4.6336	2.5	9005.12
Fe 271.441	129374	ppb	2984.37	2.3	217758
K 766.491	17300.7	ppb	339.145	2.0	830198
Mg 279.078	43274.7	ppb	1002.31	2.3	89285.7
Mn 257.610	2776.17	ppb	59.6261	2.1	639720
Mo 202.032	109.177	ppb	2.9844	2.7	707.559
Na 330.237	5721.46	ppb	130.155	2.3	219.807
Ni 231.604	136.051	ppb	3.9680	2.9	324.354
Pb 220.353	133.771	ppb	3.1546	2.4	215.794
Sb 206.834	18.3135	ppb	6.2376	34.1	14.8770
Se 196.026	103.476	ppb	10.7328	10.4	34.3788
Sn 189.925	212.748	ppb	7.0045	3.3	159.789
Sr 216.596	507.538	ppb	11.6625	2.3	4821.01
Ti 334.941	3748.27	ppb	79.9419	2.1	948976
Tl 190.794	50.3077	ppb	3.9195	7.8	24.3084
V 292.401	341.484	ppb	8.2391	2.4	9384.01
Zn 206.200	396.614	ppb	9.2979	2.3	614.414

E03292013.vvq. All Data Report 3/30/2013, 8:54:32 AM

Cont Calib Verif (CCV) 3/29/2013, 1:53:56 PM Rack 1, Tube 37  
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	490.627	486.236	491.092
Al 308.215	4961.51	4966.92	4968.34
As 188.980	494.459	495.429	508.498
B 249.678	557.315	564.641	567.980
Ba 389.178	4618.29	4625.95	4616.37
Be 313.042	461.818	462.703	464.192
Ca 370.602	4816	4821	4825
Cd 226.502	464.156	465.415	465.492
Co 228.615	467.946	466.996	466.924
Cr 267.716	4637.21	4647.41	4658.95
Cu 324.754	4647.31	4478.99	4579.86
Fe 271.441	4961.27	4954.26	4951.48
K 766.491	9882.67	9894.09	9908.21
Mg 279.078	4902.54	4907.91	4903.95
Mn 257.610	4638.07	4647.12	4652.15
Mo 202.032	482.930	484.908	483.932
Na 330.237	7384.18	7210.05	7315.16
Ni 231.604	2361.60	2366.47	2375.85
Pb 220.353	488.501	492.886	497.174
Sb 206.834	962.627	975.870	973.412
Se 196.026	4883.18	4938.59	4886.47
Sn 189.925	4963.49	4970.83	4957.98
Sr 216.596	2427.60	2426.86	2440.27
Ti 334.941	494.937	495.770	496.800
Tl 190.794	4983.78	4999.49	5008.27
V 292.401	4846.45	4854.47	4851.18
Zn 206.200	2333.40	2332.17	2345.28

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	489.318	ppb	2.6792	0.5	34704.1	97.86366
Al 308.215	4965.59	ppb	3.6017	0.1	28925.5	99.31174
As 188.980	499.462	ppb	7.8406	1.6	330.205	99.89233
B 249.678	563.312	ppb	5.4553	1.0	5442.85	22.53250Q
Ba 389.178	4620.21	ppb	5.0690	0.1	95962.7	92.40412
Be 313.042	462.904	ppb	1.1997	0.3	894458	92.58089
Ca 370.602	4821	ppb	4.764	0.1	15384	96.41127
Cd 226.502	465.021	ppb	0.7501	0.2	16656.5	93.00424
Co 228.615	467.289	ppb	0.5703	0.1	5361.65	93.45777
Cr 267.716	4647.86	ppb	10.8744	0.2	194163	92.95711
Cu 324.754	4568.72	ppb	84.7140	1.9	223261	91.37438
Fe 271.441	4955.67	ppb	5.0439	0.1	8459.93	99.11342
K 766.491	9894.99	ppb	12.7918	0.1	474924	98.94991
Mg 279.078	4904.80	ppb	2.7860	0.1	10078.5	98.09602
Mn 257.610	4645.78	ppb	7.1369	0.2	1069501	92.91557
Mo 202.032	483.924	ppb	0.9891	0.2	3108.09	96.78471
Na 330.237	7303.13	ppb	87.6873	1.2	349.228	97.37511
Ni 231.604	2367.97	ppb	7.2463	0.3	5602.82	94.71899
Pb 220.353	492.854	ppb	4.3368	0.9	799.037	98.57076
Sb 206.834	970.637	ppb	7.0445	0.7	627.812	97.06365
Se 196.026	4902.75	ppb	31.0818	0.6	1592.79	98.05491
Sn 189.925	4964.10	ppb	6.4465	0.1	3716.16	99.28203
Sr 216.596	2431.58	ppb	7.5384	0.3	22662.3	97.26308
Ti 334.941	495.836	ppb	0.9330	0.2	125475	99.16713
Tl 190.794	4997.18	ppb	12.4104	0.2	3263.84	99.94360
V 292.401	4850.70	ppb	4.0301	0.1	132523	97.01402
Zn 206.200	2336.95	ppb	7.2363	0.3	3691.46	93.47802

E03292013.vvq. All Data Report 3/30/2013, 8:54:32 AM

Cont Calib Blank (CCB)                      3/29/2013, 1:59:20 PM                      Rack 1, Tube 38  
 Weight: 1    Volume: 1    Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.1242u	-0.2984u	-0.2002u
Al 308.215	-6.3435u	-4.2173u	-5.6877u
As 188.980	-0.8955u	-1.4257u	-4.7357u
B 249.678	5.2703	4.4920	1.8202
Ba 389.178	0.6129	0.3384	-0.4692u
Be 313.042	-0.0553u	-0.0380u	-0.0530u
Ca 370.602	5.440	-1.034u	6.558
Cd 226.502	0.0143	-0.2865u	0.2822
Co 228.615	-0.7642u	0.1533	-0.0502u
Cr 267.716	-0.1950u	-0.1587u	-0.1571u
Cu 324.754	-0.1353u	-0.2956u	-0.5471u
Fe 271.441	3.6616	0.5234	-0.0156u
K 766.491	-0.4388u	-0.5642u	-1.2967u
Mg 279.078	-2.9273u	-6.0006u	2.1307
Mn 257.610	-0.2878u	-0.2428u	-0.2150u
Mo 202.032	-0.1908u	-0.1418u	-0.1297u
Na 330.237	175.388	155.614	181.072
Ni 231.604	-0.6440u	0.4679	0.6929
Pb 220.353	0.3853	-3.7690u	1.5093
Sb 206.834	6.9028	-1.8422u	-2.0705u
Se 196.026	1.2637	6.0983	5.3741
Sn 189.925	1.4934	-0.4956u	-2.5100u
Sr 216.596	-0.1674u	-0.0953u	-0.2335u
Ti 334.941	0.2519	0.2897	0.2294
Tl 190.794	10.6601	2.5937	0.3235
V 292.401	0.0652	-0.1959u	-0.0203u
Zn 206.200	0.4434	0.5015	-0.5840u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	-0.2076	ppb	0.0873	42.1	-71.3341	-0.20759
Al 308.215	-5.4162	ppb	1.0888	20.1	235.097	-5.41617
As 188.980	-2.3523	ppb	2.0810	88.5	-2.3098	-2.35229
B 249.678	3.8608	ppb	1.8095	46.9	206.806	3.86085
Ba 389.178	0.1607	ppb	0.5625	350.0	-0.1841	0.16070
Be 313.042	-0.0488	ppb	0.0094	19.2	-242.650	-0.04876
Ca 370.602	3.655	ppb	4.099	112.2	4.900	3.65453
Cd 226.502	0.0033	ppb	0.2845	8562.6	9.1373	0.00332
Co 228.615	-0.2204	ppb	0.4818	218.7	13.0735	-0.22036
Cr 267.716	-0.1703	ppb	0.0214	12.6	-3.8738	-0.17029
Cu 324.754	-0.3260	ppb	0.2076	63.7	74.3281	-0.32600
Fe 271.441	1.3898	ppb	1.9858	142.9	5.6225	1.38980
K 766.491	-0.7666	ppb	0.4634	60.4	195.076	-0.76655
Mg 279.078	-2.2657	ppb	4.1058	181.2	24.5644	-2.26571
Mn 257.610	-0.2485	ppb	0.0367	14.8	35.7062	-0.24855
Mo 202.032	-0.1541	ppb	0.0324	21.0	12.9461	-0.15410
Na 330.237	170.691	ppb	13.3627	7.8	4.8505	170.69144
Ni 231.604	0.1723	ppb	0.7158	415.5	0.3945	0.17228
Pb 220.353	-0.6248	ppb	2.7803	445.0	2.4982	-0.62478
Sb 206.834	0.9967	ppb	5.1161	513.3	1.5962	0.99670
Se 196.026	4.2454	ppb	2.6075	61.4	1.2027	4.24537
Sn 189.925	-0.5041	ppb	2.0017	397.1	0.0314	-0.50409
Sr 216.596	-0.1654	ppb	0.0691	41.8	9.4543	-0.16541
Ti 334.941	0.2570	ppb	0.0305	11.9	3.4637	0.25696
Tl 190.794	4.5258	ppb	5.4324	120.0	1.2748	4.52580
V 292.401	-0.0503	ppb	0.1331	264.7	4.1855	-0.05030
Zn 206.200	0.1203	ppb	0.6106	507.5	1.9900	0.12031

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680-88650-a-1-a (Samp) 3/29/2013, 2:04:44 PM Rack 1, Tube 39

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.0150u	0.2064	0.4367
Al 308.215	4105.23	4104.12	4111.71
As 188.980	5.3912	-0.0657u	-6.5894u
B 249.678	-1.3222u	-1.8070u	-1.4816u
Ba 389.178	45.9581	45.9781	44.4113
Be 313.042	-0.0272u	-0.0255u	-0.0261u
Ca 370.602	2883	2875	2891
Cd 226.502	0.5092	0.3206	0.3395
Co 228.615	53.1836	54.2803	53.3859
Cr 267.716	1.9034	1.7660	2.0252
Cu 324.754	40.6129	40.9087	42.1148
Fe 271.441	8329.70	8325.82	8346.52
K 766.491	390.154	387.924	386.676
Mg 279.078	174.391	176.835	171.706
Mn 257.610	49.5712	49.5069	49.6373
Mo 202.032	0.6824	0.0851	-0.1907u
Na 330.237	681.793	713.967	329.169
Ni 231.604	6.1747	5.5543	7.1385
Pb 220.353	161.246	162.480	161.095
Sb 206.834	2.0912	7.7274	-5.8446u
Se 196.026	-3.5069u	6.6693	-1.6134u
Sn 189.925	20.6975	24.1114	23.2326
Sr 216.596	7.1216	7.5861	8.0499
Ti 334.941	671.181	669.472	672.184
Tl 190.794	-0.4632u	1.7043	-7.3745u
V 292.401	0.7975	0.5068	0.5148
Zn 206.200	597.290	591.763	593.778

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.2094	ppb	0.2259	107.9	-41.7747
Al 308.215	4107.02	ppb	4.0994	0.1	23989.1
As 188.980	-0.4213	ppb	5.9982	1423.8	-1.0950
B 249.678	-1.5369	ppb	0.2471	16.1	148.444
Ba 389.178	45.4492	ppb	0.8989	2.0	945.895
Be 313.042	-0.0263	ppb	0.0008	3.1	-198.099
Ca 370.602	2883	ppb	8.015	0.3	8723
Cd 226.502	0.3898	ppb	0.1038	26.6	40.9527
Co 228.615	53.6166	ppb	0.5836	1.1	644.939
Cr 267.716	1.8982	ppb	0.1297	6.8	85.5846
Cu 324.754	41.2122	ppb	0.7956	1.9	2106.09
Fe 271.441	8334.01	ppb	11.0025	0.1	14038.1
K 766.491	388.251	ppb	1.7621	0.5	18857.4
Mg 279.078	174.311	ppb	2.5655	1.5	388.486
Mn 257.610	49.5718	ppb	0.0652	0.1	11527.2
Mo 202.032	0.1923	ppb	0.4463	232.1	14.7951
Na 330.237	574.976	ppb	213.482	37.1	13.5288
Ni 231.604	6.2891	ppb	0.7983	12.7	15.0252
Pb 220.353	161.607	ppb	0.7595	0.5	263.978
Sb 206.834	1.3247	ppb	6.8184	514.7	1.9253
Se 196.026	0.5163	ppb	5.4121	1048.2	0.0319
Sn 189.925	22.6805	ppb	1.7726	7.8	17.3866
Sr 216.596	7.5858	ppb	0.4642	6.1	84.9387
Ti 334.941	670.946	ppb	1.3710	0.2	169784
Tl 190.794	-2.0445	ppb	4.7414	231.9	-3.3314
V 292.401	0.6064	ppb	0.1656	27.3	32.4367
Zn 206.200	594.277	ppb	2.7970	0.5	929.742



E03292013.vvq. All Data Report 3/30/2013, 8:54:32 AM

680-88650-a-2-a (Samp) 3/29/2013, 2:10:08 PM Rack 1, Tube 40

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	1.3949	1.7265	0.8210
Al 308.215	4917.93	4897.74	4906.32
As 188.980	-2.1045u	2.6331	3.4361
B 249.678	-4.6199u	-4.9024u	-5.3995u
Ba 389.178	88.6861	88.8484	89.1409
Be 313.042	-0.0174u	-0.0270u	-0.0371u
Ca 370.602	6886	6835	6854
Cd 226.502	0.4838	0.3895	0.4410
Co 228.615	51.8013	51.5181	51.1555
Cr 267.716	2.3682	2.3972	2.4712
Cu 324.754	50.8247	51.3547	51.3472
Fe 271.441	9711.88	9696.16	9724.51
K 766.491	467.025	465.022	464.185
Mg 279.078	270.834	271.894	270.045
Mn 257.610	65.6788	65.6074	65.7349
Mo 202.032	0.4494	-0.2886u	-0.1469u
Na 330.237	979.361	732.581	938.610
Ni 231.604	5.3510	4.8800	4.0508
Pb 220.353	170.258	167.866	169.855
Sb 206.834	-0.5791u	0.3619	-4.2835u
Se 196.026	5.5842	12.5270	2.3782
Sn 189.925	24.1780	20.7670	23.1397
Sr 216.596	15.2154	14.0923	15.2527
Ti 334.941	839.948	835.278	835.257
Tl 190.794	-2.5833u	-1.2519u	2.5189
V 292.401	1.1980	0.7156	0.9102
Zn 206.200	853.530	850.727	856.207

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	1.3141	ppb	0.4581	34.9	36.5531
Al 308.215	4907.33	ppb	10.1324	0.2	28611.6
As 188.980	1.3216	ppb	2.9941	226.6	0.0811
B 249.678	-4.9739	ppb	0.3947	7.9	114.957
Ba 389.178	88.8918	ppb	0.2305	0.3	1849.03
Be 313.042	-0.0271	ppb	0.0098	36.3	-198.318
Ca 370.602	6859	ppb	25.87	0.4	21451
Cd 226.502	0.4381	ppb	0.0472	10.8	45.6579
Co 228.615	51.4916	ppb	0.3237	0.6	624.873
Cr 267.716	2.4122	ppb	0.0531	2.2	107.679
Cu 324.754	51.1755	ppb	0.3039	0.6	2593.22
Fe 271.441	9710.85	ppb	14.2014	0.1	16355.1
K 766.491	465.411	ppb	1.4592	0.3	22559.0
Mg 279.078	270.924	ppb	0.9277	0.3	587.640
Mn 257.610	65.6737	ppb	0.0639	0.1	15237.9
Mo 202.032	0.0046	ppb	0.3916	8479.6	13.5302
Na 330.237	883.517	ppb	132.293	15.0	25.7923
Ni 231.604	4.7606	ppb	0.6583	13.8	11.4349
Pb 220.353	169.326	ppb	1.2805	0.8	276.345
Sb 206.834	-1.5002	ppb	2.4559	163.7	0.2078
Se 196.026	6.8298	ppb	5.1878	76.0	2.0902
Sn 189.925	22.6949	ppb	1.7484	7.7	17.3989
Sr 216.596	14.8535	ppb	0.6594	4.4	153.638
Ti 334.941	836.827	ppb	2.7022	0.3	211776
Tl 190.794	-0.4388	ppb	2.6466	603.2	-2.3432
V 292.401	0.9412	ppb	0.2427	25.8	44.2918
Zn 206.200	853.488	ppb	2.7404	0.3	1221.56

E03292013.wvq. All Data Report 3/30/2013, 8:54:32 AM

680-88650-a-3-a (Samp) 3/29/2013, 2:19:28 PM Rack 1, Tube 41

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	3.5423	3.2324	3.4211
Al 308.215	5376.30	5343.32	5338.26
As 188.980	0.9254	-3.0293u	7.5836
B 249.678	-4.6120u	-5.4171u	-5.6336u
Ba 389.178	75.6999	76.3865	75.4936
Be 313.042	-0.0156u	-0.0308u	-0.0292u
Ca 370.602	5368	5383	5389
Cd 226.502	0.3315	0.5620	0.4992
Co 228.615	64.8233	65.6832	64.2971
Cr 267.716	2.7251	2.6382	2.6932
Cu 324.754	53.3564	53.1334	54.1372
Fe 271.441	10783.9	10800.1	10774.6
K 766.491	485.749	485.142	484.477
Mg 279.078	267.470	264.629	267.824
Mn 257.610	64.9022	65.0444	65.2244
Mo 202.032	-1.1584u	0.2532	0.0383u
Na 330.237	823.905	814.417	800.413
Ni 231.604	7.1850	5.8283	6.4543
Pb 220.353	200.590	199.035	198.761
Sb 206.834	-4.7346u	1.6219	-7.7809u
Se 196.026	10.4383	-7.6659u	18.9267
Sn 189.925	23.9026	25.5386	28.0038
Sr 216.596	11.6781	12.0337	11.6315
Ti 334.941	894.106	896.874	900.435
Tl 190.794	-1.3380u	2.8185	1.2386
V 292.401	1.3566	0.7150	0.6540
Zn 206.200	980.351	982.912	979.816

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	3.3986	ppb	0.1562	4.6	184.999
Al 308.215	5352.63	ppb	20.6558	0.4	31183.7
As 188.980	1.8266	ppb	5.3636	293.6	0.3911
B 249.678	-5.2209	ppb	0.5383	10.3	111.643
Ba 389.178	75.8600	ppb	0.4675	0.6	1579.09
Be 313.042	-0.0252	ppb	0.0083	33.0	-195.054
Ca 370.602	5380	ppb	10.85	0.2	16610
Cd 226.502	0.4643	ppb	0.1192	25.7	48.9044
Co 228.615	64.9345	ppb	0.6997	1.1	780.019
Cr 267.716	2.6855	ppb	0.0440	1.6	119.422
Cu 324.754	53.5423	ppb	0.5271	1.0	2709.16
Fe 271.441	10786.2	ppb	12.9212	0.1	18167.1
K 766.491	485.123	ppb	0.6362	0.1	23504.6
Mg 279.078	266.641	ppb	1.7515	0.7	578.868
Mn 257.610	65.0570	ppb	0.1615	0.2	15098.8
Mo 202.032	-0.2890	ppb	0.7606	263.2	11.6004
Na 330.237	812.912	ppb	11.8181	1.5	20.3703
Ni 231.604	6.4892	ppb	0.6790	10.5	15.5452
Pb 220.353	199.462	ppb	0.9867	0.5	324.951
Sb 206.834	-3.6312	ppb	4.7975	132.1	-1.0908
Se 196.026	7.2330	ppb	13.5829	187.8	2.2252
Sn 189.925	25.8150	ppb	2.0645	8.0	19.7338
Sr 216.596	11.7811	ppb	0.2200	1.9	125.204
Ti 334.941	897.138	ppb	3.1727	0.4	227044
Tl 190.794	0.9064	ppb	2.0981	231.5	-1.4940
V 292.401	0.9085	ppb	0.3892	42.8	44.3805
Zn 206.200	981.026	ppb	1.6546	0.2	1518.78

E03292013.wvq. All Data Report 3/30/2013, 8:54:32 AM

680-88650-a-4-a (Samp)                      3/29/2013, 2:24:52 PM                      Rack 1, Tube 42  
 Weight: 1                                      Volume: 1                                      Dilution: 1

Label	Replicates Concentration		
Ag 328.068	5.2252	5.2216	4.9360
Al 308.215	9697.27	9699.76	9712.13
As 188.980	2.6153	2.5633	-0.6798u
B 249.678	56.5126	58.2021	59.3367
Ba 389.178	22370.2x	22455.1x	22410.1x
Be 313.042	0.0608	0.0680	0.0782
Ca 370.602	50704	50560	50699
Cd 226.502	2.0933	1.8793	2.1848
Co 228.615	429.986	432.427	430.394
Cr 267.716	2048.55	2038.48	2053.25
Cu 324.754	466.650	465.798	468.188
Fe 271.441	41590.4	41737.3	41720.7
K 766.491	1733.18	1730.15	1722.38
Mg 279.078	5809.71	5805.67	5813.72
Mn 257.610	475.466	474.922	475.939
Mo 202.032	70.1569	69.3359	70.1654
Na 330.237	2236.74	2199.44	2250.50
Ni 231.604	18.9867	14.2536	17.9119
Pb 220.353	16134.7	16074.8	16125.5
Sb 206.834	216.087	220.375	227.775
Se 196.026	2.9470	1.3961	12.6358
Sn 189.925	24.7801	21.2246	22.5146
Sr 216.596	308.703	306.492	308.986
Ti 334.941	784.322	780.245	783.762
Tl 190.794	4.6727	0.4304u	2.9342
V 292.401	9.1885	9.1352	9.3704
Zn 206.200	6571.80	6564.02	6584.29

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	5.1276b	ppb	0.1659	3.2	297.040
Al 308.215	9703.05b	ppb	7.9553	0.1	56321.5
As 188.980	1.4996b	ppb	1.8876	125.9	0.2231
B 249.678	58.0171b	ppb	1.4211	2.4	675.080
Ba 389.178	22411.8xb	ppb	42.4854	0.2	465458
Be 313.042	0.0690b	ppb	0.0088	12.7	-21.8307
Ca 370.602	50655b	ppb	82.00	0.2	159937
Cd 226.502	2.0525b	ppb	0.1568	7.6	172.814
Co 228.615	430.936b	ppb	1.3079	0.3	4961.21
Cr 267.716	2046.76b	ppb	7.5463	0.4	85527.3
Cu 324.754	466.878b	ppb	1.2112	0.3	22913.4
Fe 271.441	41682.8b	ppb	80.4457	0.2	70226.4
K 766.491	1728.57b	ppb	5.5726	0.3	83156.5
Mg 279.078	5809.70b	ppb	4.0254	0.1	12016.7
Mn 257.610	475.442b	ppb	0.5090	0.1	109679
Mo 202.032	69.8861b	ppb	0.4765	0.7	460.118
Na 330.237	2228.90b	ppb	26.4202	1.2	43.1522
Ni 231.604	17.0507b	ppb	2.4813	14.6	41.1211
Pb 220.353	16111.6b	ppb	32.2591	0.2	26013.9
Sb 206.834	221.412b	ppb	5.9129	2.7	150.174
Se 196.026	5.6596b	ppb	6.0911	107.6	1.8985
Sn 189.925	22.8398b	ppb	1.7999	7.9	17.5232
Sr 216.596	308.060b	ppb	1.3655	0.4	2903.59
Ti 334.941	782.776b	ppb	2.2100	0.3	198120
Tl 190.794	2.6791b	ppb	2.1326	79.6	-1.6613
V 292.401	9.2314b	ppb	0.1233	1.3	132.062
Zn 206.200	6573.37b	ppb	10.2335	0.2	51160.2

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680-88650-a-5-a (Samp) 3/29/2013, 2:30:17 PM Rack 1, Tube 43

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	5.1128	5.4926	5.6353
Al 308.215	10536.9	10543.6	10550.7
As 188.980	-2.9365u	-0.7633u	3.6363
B 249.678	82.0628	82.1646	83.0495
Ba 389.178	23025.2x	23165.3x	23182.2x
Be 313.042	0.0824	0.0794	0.0796
Ca 370.602	51249	51229	51162
Cd 226.502	2.1808	2.1527	1.8802
Co 228.615	475.411	478.322	482.282
Cr 267.716	2028.75	2026.31	2022.88
Cu 324.754	457.861	456.789	462.597
Fe 271.441	46884.5	47048.4	47048.0
K 766.491	1952.88	1955.97	1954.69
Mg 279.078	5783.35	5788.93	5785.52
Mn 257.610	519.958	519.959	520.501
Mo 202.032	81.0956	82.1133	81.4493
Na 330.237	2512.13	2680.33	2888.38
Ni 231.604	18.9204	19.9536	17.4653
Pb 220.353	15769.2	15791.9	15727.6
Sb 206.834	207.131	214.661	211.802
Se 196.026	-6.3641u	-10.8518u	-0.7329
Sn 189.925	25.8714	25.1581	20.2685
Sr 216.596	308.511	308.811	306.499
Ti 334.941	864.623	863.170	861.551
Tl 190.794	4.6488	6.6249	5.1794
V 292.401	9.2772	9.2612	9.3518
Zn 206.200	5561.04	5578.21	5565.38

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	5.4136b	ppb	0.2701	5.0	317.661
Al 308.215	10543.7b	ppb	6.9237	0.1	61179.0
As 188.980	-0.0211b	ppb	3.3487	15833.0	-0.8420
B 249.678	82.4256b	ppb	0.5426	0.7	898.741
Ba 389.178	23124.2xb	ppb	86.1628	0.4	480257
Be 313.042	0.0804b	ppb	0.0017	2.1	-1.6935
Ca 370.602	51213b	ppb	45.47	0.1	161314
Cd 226.502	2.0712b	ppb	0.1660	8.0	184.984
Co 228.615	478.671b	ppb	3.4487	0.7	5507.94
Cr 267.716	2025.98b	ppb	2.9499	0.1	84660.6
Cu 324.754	459.082b	ppb	3.0906	0.7	22534.4
Fe 271.441	46993.6b	ppb	94.5436	0.2	79172.1
K 766.491	1954.51b	ppb	1.5505	0.1	93995.7
Mg 279.078	5785.93b	ppb	2.8109	0.0	11967.6
Mn 257.610	520.139b	ppb	0.3132	0.1	119981
Mo 202.032	81.5527b	ppb	0.5167	0.6	534.677
Na 330.237	2693.61b	ppb	188.472	7.0	72.3698
Ni 231.604	18.7797b	ppb	1.2501	6.7	45.3112
Pb 220.353	15762.9b	ppb	32.6235	0.2	25450.7
Sb 206.834	211.198b	ppb	3.8011	1.8	143.699
Se 196.026	-5.9829b	ppb	5.0702	84.7	-1.8547
Sn 189.925	23.7660b	ppb	3.0499	12.8	18.2169
Sr 216.596	307.940b	ppb	1.2571	0.4	2904.03
Ti 334.941	863.114b	ppb	1.5369	0.2	218457
Tl 190.794	5.4844b	ppb	1.0227	18.6	-0.0349
V 292.401	9.2967b	ppb	0.0484	0.5	134.274
Zn 206.200	5568.21b	ppb	8.9271	0.2	8695.94

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680-88650-a-6-a (Samp)                      3/29/2013, 2:35:42 PM                      Rack 1, Tube 44  
 Weight: 1                                      Volume: 1                                      Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.9486	0.4706	-0.3117u
Al 308.215	673.314	674.488	670.370
As 188.980	-0.4301u	-3.4888u	5.2966
B 249.678	-8.0447u	-7.5507u	-9.0288u
Ba 389.178	234.793	237.301	237.322
Be 313.042	0.0067u	0.0126u	0.0025u
Ca 370.602	12985	12961	12899
Cd 226.502	0.2659	0.0676	-0.0562u
Co 228.615	129.360	126.678	129.407
Cr 267.716	3.4493	3.1616	3.2172
Cu 324.754	1.2644	1.3608	1.1559
Fe 271.441	452.647	441.448	443.480
K 766.491	286.984	285.834	286.411
Mg 279.078	3729.98	3729.12	3712.80
Mn 257.610	26.1256	26.1998	26.0302
Mo 202.032	194.244	194.010	191.858
Na 330.237	684.714u	602.688u	787.273u
Ni 231.604	2.5748	1.8557	1.9496
Pb 220.353	30.6119	29.6785	34.0880
Sb 206.834	2.1745u	-8.4694u	-3.7387u
Se 196.026	0.7125	4.5313	3.0026
Sn 189.925	33.1086	34.4520	32.8322
Sr 216.596	14.9376	15.7781	15.1050
Ti 334.941	6.2232	6.0688	5.9143
Tl 190.794	-0.8057u	1.2382	-2.2434u
V 292.401	-0.0744u	0.0141u	0.0301u
Zn 206.200	7695.92	7691.75	7682.28

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.3692	ppb	0.6363	172.3	-30.9323
Al 308.215	672.724	ppb	2.1218	0.3	4177.72
As 188.980	0.4592	ppb	4.4597	971.1	-0.3897
B 249.678	-8.2081	ppb	0.7525	9.2	93.3216
Ba 389.178	236.472	ppb	1.4540	0.6	4910.23
Be 313.042	0.0073	ppb	0.0051	69.9	-159.826
Ca 370.602	12948	ppb	44.46	0.3	41682
Cd 226.502	0.0924	ppb	0.1625	175.9	13.3618
Co 228.615	128.482	ppb	1.5618	1.2	1477.06
Cr 267.716	3.2760	ppb	0.1526	4.7	140.200
Cu 324.754	1.2604	ppb	0.1025	8.1	157.140
Fe 271.441	445.858	ppb	5.9662	1.3	773.585
K 766.491	286.410	ppb	0.5747	0.2	13971.8
Mg 279.078	3723.97	ppb	9.6825	0.3	7714.40
Mn 257.610	26.1185	ppb	0.0850	0.3	6127.89
Mo 202.032	193.370	ppb	1.3155	0.7	1253.63
Na 330.237	691.558	ppb	92.4824	13.4	-25.9186
Ni 231.604	2.1267	ppb	0.3909	18.4	5.0341
Pb 220.353	31.4594	ppb	2.3237	7.4	53.9962
Sb 206.834	-3.3445	ppb	5.3328	159.5	-2.6732
Se 196.026	2.7488	ppb	1.9220	69.9	0.7228
Sn 189.925	33.4643	ppb	0.8665	2.6	25.4620
Sr 216.596	15.2736	ppb	0.4449	2.9	148.813
Ti 334.941	6.0688	ppb	0.1545	2.5	1490.01
Tl 190.794	-0.6037	ppb	1.7496	289.8	-2.1312
V 292.401	-0.0101	ppb	0.0563	558.9	-32.3360
Zn 206.200	7689.98	ppb	6.9905	0.1	51893.0

E03292013.vvq. All Data Report 3/30/2013, 8:54:32 AM

680-88650-a-7-a (Samp) 3/29/2013, 2:41:08 PM Rack 1, Tube 45

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	1.7184	0.3477	0.8207
Al 308.215	13197.3	13188.0	13172.0
As 188.980	3.5415	1.6951	4.6743
B 249.678	-7.2187u	-6.3626u	-5.5474u
Ba 389.178	141.670	141.561	142.432
Be 313.042	0.0549	0.0551	0.0515
Ca 370.602	51573	51514	51535
Cd 226.502	15.0688	15.0361	15.1436
Co 228.615	22.3027	22.1629	22.1750
Cr 267.716	12.6825	12.6860	12.9113
Cu 324.754	8.0721	7.6616	7.6426
Fe 271.441	8679.57	8675.01	8655.11
K 766.491	1551.64	1556.51	1561.11
Mg 279.078	2609.55	2598.09	2600.45
Mn 257.610	342.506	342.438	341.752
Mo 202.032	0.8481	-0.1093u	-0.3194u
Na 330.237	7802.21u	8046.87u	8210.74u
Ni 231.604	7.4310	7.7729	7.0177
Pb 220.353	1864.29	1863.40	1856.37
Sb 206.834	6.6836	15.0003	8.2698
Se 196.026	9.1930	14.0485	-6.8746u
Sn 189.925	15.6936	21.3066	16.9306
Sr 216.596	99.3984	99.1308	99.7334
Ti 334.941	1213.25	1211.43	1213.24
Tl 190.794	0.9736	6.2578	-3.5446u
V 292.401	7.2427	6.7763	7.2314
Zn 206.200	66866.8x	66830.8x	66826.3x

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.9623b	ppb	0.6962	72.3	9.1684
Al 308.215	13185.8b	ppb	12.8045	0.1	76429.0
As 188.980	3.3036b	ppb	1.5037	45.5	1.8063
B 249.678	-6.3762b	ppb	0.8357	13.1	102.790
Ba 389.178	141.888b	ppb	0.4743	0.3	2950.01
Be 313.042	0.0538b	ppb	0.0020	3.7	-20.9614
Ca 370.602	51540b	ppb	30.01	0.1	165594
Cd 226.502	15.0828b	ppb	0.0551	0.4	567.450
Co 228.615	22.2135b	ppb	0.0774	0.3	300.017
Cr 267.716	12.7600b	ppb	0.1311	1.0	540.243
Cu 324.754	7.7921b	ppb	0.2427	3.1	473.382
Fe 271.441	8669.90b	ppb	13.0077	0.2	14598.9
K 766.491	1556.42b	ppb	4.7326	0.3	74898.0
Mg 279.078	2602.70b	ppb	6.0546	0.2	5393.12
Mn 257.610	342.232b	ppb	0.4169	0.1	78907.3
Mo 202.032	0.1398b	ppb	0.6223	445.1	14.4321
Na 330.237	8019.94b	ppb	205.594	2.6	-101.978
Ni 231.604	7.4072b	ppb	0.3782	5.1	17.7368
Pb 220.353	1861.35b	ppb	4.3386	0.2	3007.72
Sb 206.834	9.9846b	ppb	4.4155	44.2	7.3499
Se 196.026	5.4556b	ppb	10.9508	200.7	1.6849
Sn 189.925	17.9769b	ppb	2.9492	16.4	13.8818
Sr 216.596	99.4208b	ppb	0.3019	0.3	946.571
Ti 334.941	1212.64b	ppb	1.0463	0.1	306921
Tl 190.794	1.2289b	ppb	4.9062	399.2	-1.4909
V 292.401	7.0835b	ppb	0.2661	3.8	217.743
Zn 206.200	66841.3xb	ppb	22.1621	0.0	103360

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680-88650-a-8-a (Samp) 3/29/2013, 2:46:44 PM Rack 1, Tube 46

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	3.4117	3.7519	3.1827
Al 308.215	59771.7	59879.9	59714.5
As 188.980	23.0015	26.1583	22.3121
B 249.678	80.5010	82.0572	81.4898
Ba 389.178	593.204	595.185	592.606
Be 313.042	0.4986	0.5114	0.5060
Ca 370.602	204958	204431	203106
Cd 226.502	38.9953	39.3016	38.9018
Co 228.615	78.0683	78.3242	78.2007
Cr 267.716	38.8462	38.8854	38.8095
Cu 324.754	35.4015	35.1939	35.6158
Fe 271.441	44497.4	44659.1	44518.3
K 766.491	6172.21	6205.19	6204.96
Mg 279.078	43782.0	43899.9	43682.9
Mn 257.610	1762.39	1767.76	1760.52
Mo 202.032	1.4114	1.6325	1.4476
Na 330.237	21911.2u	21478.0u	21075.8u
Ni 231.604	28.3444	28.7652	28.7986
Pb 220.353	8221.27	8232.67	8191.38
Sb 206.834	50.1346	39.1809	46.5696
Se 196.026	-1.6048u	-4.2444u	-5.0777u
Sn 189.925	486.009	475.600	483.740
Sr 216.596	354.275	352.945	354.540
Ti 334.941	3786.35	3797.05	3786.67
Tl 190.794	9.6739	7.6540	9.9996
V 292.401	33.3373	33.7469	33.4524
Zn 206.200	204572x	205311x	204115x

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	3.4488b	ppb	0.2864	8.3	180.930
Al 308.215	59788.7b	ppb	84.0175	0.1	345613
As 188.980	23.8240b	ppb	2.0508	8.6	16.3835
B 249.678	81.3493b	ppb	0.7875	1.0	890.989
Ba 389.178	593.665b	ppb	1.3500	0.2	12374.8
Be 313.042	0.5054b	ppb	0.0064	1.3	915.727
Ca 370.602	204165b	ppb	953.9	0.5	654965
Cd 226.502	39.0662b	ppb	0.2092	0.5	1503.65
Co 228.615	78.1977b	ppb	0.1280	0.2	1003.84
Cr 267.716	38.8471b	ppb	0.0380	0.1	1644.76
Cu 324.754	35.4037b	ppb	0.2110	0.6	1832.50
Fe 271.441	44558.2b	ppb	87.9834	0.2	75009.4
K 766.491	6194.12b	ppb	18.9728	0.3	297382
Mg 279.078	43788.3b	ppb	108.627	0.2	90364.2
Mn 257.610	1763.56b	ppb	3.7588	0.2	406406
Mo 202.032	1.4972b	ppb	0.1186	7.9	21.4941
Na 330.237	21488.3b	ppb	417.838	1.9	-466.708
Ni 231.604	28.6360b	ppb	0.2531	0.9	68.7709
Pb 220.353	8215.11b	ppb	21.3226	0.3	13263.5
Sb 206.834	45.2950b	ppb	5.5870	12.3	29.8860
Se 196.026	-3.6423b	ppb	1.8130	49.8	-0.9002
Sn 189.925	481.783b	ppb	5.4736	1.1	361.102
Sr 216.596	353.920b	ppb	0.8548	0.2	3348.04
Ti 334.941	3790.02b	ppb	6.0858	0.2	959537
Tl 190.794	9.1092b	ppb	1.2707	13.9	1.1213
V 292.401	33.5122b	ppb	0.2112	0.6	980.584
Zn 206.200	204666xb	ppb	603.712	371.03	3156481

E03292013.vvq. All Data Report 3/30/2013, 8:54:32 AM

680-88650-a-9-a (Samp) 3/29/2013, 2:52:11 PM Rack 1, Tube 47

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	6.6990	6.8561	7.0465
Al 308.215	13424.4	13405.1	13430.5
As 188.980	4.8937	15.8922	13.5700
B 249.678	10.7343	9.8363	9.2567
Ba 389.178	5526.90	5529.37	5540.21
Be 313.042	0.2185	0.2380	0.2309
Ca 370.602	288317	289894	288081
Cd 226.502	14.1569	14.2889	14.4332
Co 228.615	506.402	504.412	503.156
Cr 267.716	19410.6x	19373.8x	19333.9x
Cu 324.754	249.818	250.292	250.462
Fe 271.441	46549.1	46614.1	46609.3
K 766.491	3124.32	3127.40	3126.57
Mg 279.078	8819.98	8821.18	8825.88
Mn 257.610	464.262	464.072	463.767
Mo 202.032	2139.19x	2142.45x	2141.54x
Na 330.237	8527.17	8425.22u	8706.79
Ni 231.604	266.584	263.617	264.508
Pb 220.353	90872.6x	90547.4x	90542.2x
Sb 206.834	3902.95	3921.35	3919.56
Se 196.026	-7.8115u	7.8949	-1.8261u
Sn 189.925	18.7427	27.5810	24.2789
Sr 216.596	257.432	258.808	256.371
Ti 334.941	909.483	908.140	907.171
Tl 190.794	9.0386	10.7538	6.0974
V 292.401	10.6794u	10.4081u	9.5711u
Zn 206.200	55507.3x	55617.5x	56157.9x

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	6.8672b	ppb	0.1740	2.5	422.266
Al 308.215	13420.0b	ppb	13.2705	0.1	78064.3
As 188.980	11.4520b	ppb	5.7971	50.6	8.3118
B 249.678	9.9424b	ppb	0.7445	7.5	220.112
Ba 389.178	5532.16b	ppb	7.0809	0.1	114928
Be 313.042	0.2291b	ppb	0.0099	4.3	39.5235
Ca 370.602	288764b	ppb	985.9	0.3	926828
Cd 226.502	14.2930b	ppb	0.1382	1.0	622.536
Co 228.615	504.657b	ppb	1.6368	0.3	5793.30
Cr 267.716	19372.7xb	ppb	38.3626	0.2	809397
Cu 324.754	250.191b	ppb	0.3338	0.1	12384.2
Fe 271.441	46590.8b	ppb	36.2081	0.1	78534.6
K 766.491	3126.09b	ppb	1.5937	0.1	150200
Mg 279.078	8822.34b	ppb	3.1179	0.0	18234.3
Mn 257.610	464.034b	ppb	0.2494	0.1	107087
Mo 202.032	2141.06xb	ppb	1.6788	0.1	13738.4
Na 330.237	8553.06b	ppb	142.559	1.7	-0.6261
Ni 231.604	264.903b	ppb	1.5227	0.6	627.698
Pb 220.353	90654.0xb	ppb	189.285	0.2	146354
Sb 206.834	3914.62b	ppb	10.1451	0.3	2519.47
Se 196.026	-0.5809b	ppb	7.9269	1364.7	-0.1096
Sn 189.925	23.5342b	ppb	4.4660	19.0	18.1305
Sr 216.596	257.537b	ppb	1.2219	0.5	2386.59
Ti 334.941	908.265b	ppb	1.1607	0.1	229899
Tl 190.794	8.6299b	ppb	2.3550	27.3	1.5060
V 292.401	10.2195b	ppb	0.5777	5.7	-1290.59
Zn 206.200	55760.9xb	ppb	348.209	0.6	86168.0



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680-88650-a-10-a (Samp)      3/29/2013, 2:57:37 PM      Rack 1, Tube 48  
 Weight: 1      Volume: 1      Dilution: 1

Label	Replicates Concentration		
Ag 328.068	2.0524	1.6229	1.6021
Al 308.215	26956.9	26965.6	26969.4
As 188.980	1.0382	-0.3267	3.5134
B 249.678	-4.3963u	-3.6490u	-4.6841u
Ba 389.178	274.306	274.360	272.396
Be 313.042	0.1521	0.1426	0.1480
Ca 370.602	87661	87800	87638
Cd 226.502	18.1899	18.4676	18.1557
Co 228.615	42.5406	42.5130	42.6157
Cr 267.716	10.3328	10.6179	10.2350
Cu 324.754	13.0527	13.5431	13.0320
Fe 271.441	18906.0	18908.9	18906.4
K 766.491	2660.11	2652.35	2664.04
Mg 279.078	4577.13	4564.97	4576.04
Mn 257.610	696.081	696.599	696.723
Mo 202.032	1.4650	1.5157	1.4142
Na 330.237	12304.3u	12261.2u	12568.6u
Ni 231.604	9.9695	10.3340	9.9369
Pb 220.353	4060.46	4061.05	4057.53
Sb 206.834	23.7988	24.2737	34.6449
Se 196.026	11.5867	-8.9053u	8.5382
Sn 189.925	18.9991	20.4960	21.6793
Sr 216.596	157.472	158.192	156.693
Ti 334.941	1892.84	1900.42	1896.60
Tl 190.794	2.4597	1.3626u	5.7102
V 292.401	12.8229	11.8811	12.1360
Zn 206.200	111560x	111622x	111485x

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	1.7591b	ppb	0.2541	14.4	64.9423
Al 308.215	26964.0b	ppb	6.4332	0.0	156013
As 188.980	1.4083b	ppb	1.9466	138.2	0.7622
B 249.678	-4.2431b	ppb	0.5343	12.6	113.189
Ba 389.178	273.687b	ppb	1.1186	0.4	5694.78
Be 313.042	0.1475b	ppb	0.0048	3.2	176.523
Ca 370.602	87700b	ppb	87.32	0.1	281405
Cd 226.502	18.2711b	ppb	0.1711	0.9	703.708
Co 228.615	42.5564b	ppb	0.0531	0.1	549.415
Cr 267.716	10.3952b	ppb	0.1990	1.9	445.307
Cu 324.754	13.2093b	ppb	0.2893	2.2	740.982
Fe 271.441	18907.1b	ppb	1.5590	0.0	31831.7
K 766.491	2658.84b	ppb	5.9487	0.2	127784
Mg 279.078	4572.72b	ppb	6.7266	0.1	9451.16
Mn 257.610	696.468b	ppb	0.3402	0.0	160485
Mo 202.032	1.4650b	ppb	0.0507	3.5	22.4637
Na 330.237	12378.0b	ppb	166.429	1.3	-219.994
Ni 231.604	10.0801b	ppb	0.2205	2.2	24.2959
Pb 220.353	4059.68b	ppb	1.8848	0.0	6556.23
Sb 206.834	27.5725b	ppb	6.1295	22.2	18.3431
Se 196.026	3.7398b	ppb	11.0566	295.6	1.2248
Sn 189.925	20.3915b	ppb	1.3432	6.6	15.7007
Sr 216.596	157.452b	ppb	0.7497	0.5	1495.02
Ti 334.941	1896.62b	ppb	3.7898	0.2	480075
Tl 190.794	3.1775b	ppb	2.2609	71.2	-0.8920
V 292.401	12.2800b	ppb	0.4872	4.0	370.652
Zn 206.200	111556xb	ppb	68.8766	0.1	172503

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Cont Calib Verif (CCV) 3/29/2013, 3:03:14 PM Rack 1, Tube 49  
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	494.323	492.605	494.301
Al 308.215	5018.79	4969.24	5009.50
As 188.980	516.915	513.201	517.975
B 249.678	588.802	587.119	596.188
Ba 389.178	4664.84	4608.26	4644.18
Be 313.042	472.161	466.993	469.916
Ca 370.602	4883	4836	4864
Cd 226.502	473.237	467.301	470.693
Co 228.615	472.425	465.218	470.380
Cr 267.716	4747.76	4702.52	4733.59
Cu 324.754	4548.06	4550.28	4608.94
Fe 271.441	5027.69	4961.63	4996.24
K 766.491	9938.09	9824.98	9914.74
Mg 279.078	4986.50	4935.92	4970.21
Mn 257.610	4724.43	4667.54	4701.82
Mo 202.032	492.970	490.106	494.514
Na 330.237	7326.59	7037.47	7276.03
Ni 231.604	2414.02	2384.25	2399.68
Pb 220.353	500.534	493.419	502.354
Sb 206.834	1008.04	970.462	996.915
Se 196.026	4927.81	4890.03	4913.26
Sn 189.925	5066.79	4992.55	5059.23
Sr 216.596	2483.37	2457.75	2473.99
Ti 334.941	500.609	495.625	499.556
Tl 190.794	5031.78	4997.99	5028.18
V 292.401	4918.79	4862.96	4905.77
Zn 206.200	2372.23	2340.23	2366.23

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	493.743	ppb	0.9859	0.2	35018.9	98.74858
Al 308.215	4999.18	ppb	26.3382	0.5	29119.4	99.98354
As 188.980	516.030	ppb	2.5071	0.5	341.187	103.20601
B 249.678	590.703	ppb	4.8242	0.8	5699.41	23.62813Q
Ba 389.178	4639.09	ppb	28.6274	0.6	96355.1	92.78185
Be 313.042	469.690	ppb	2.5914	0.6	907574	93.93803
Ca 370.602	4861	ppb	23.92	0.5	15514	97.21995
Cd 226.502	470.411	ppb	2.9783	0.6	16849.4	94.08211
Co 228.615	469.341	ppb	3.7139	0.8	5385.15	93.86821
Cr 267.716	4727.96	ppb	23.1430	0.5	197509	94.55914
Cu 324.754	4569.09	ppb	34.5244	0.8	223279	91.38184
Fe 271.441	4995.19	ppb	33.0390	0.7	8527.64	99.90378
K 766.491	9892.61	ppb	59.7162	0.6	474810	98.92606
Mg 279.078	4964.21	ppb	25.8185	0.5	10200.3	99.28418
Mn 257.610	4697.93	ppb	28.6442	0.6	1081505	93.95861
Mo 202.032	492.530	ppb	2.2367	0.5	3163.20	98.50596
Na 330.237	7213.36	ppb	154.412	2.1	344.399	96.17818
Ni 231.604	2399.32	ppb	14.8903	0.6	5676.98	95.97265
Pb 220.353	498.769	ppb	4.7217	0.9	808.589	99.75382
Sb 206.834	991.806	ppb	19.3031	1.9	641.211	99.18057
Se 196.026	4910.37	ppb	19.0521	0.4	1595.28	98.20734
Sn 189.925	5039.52	ppb	40.8557	0.8	3772.62	100.79048
Sr 216.596	2471.70	ppb	12.9666	0.5	23036.2	98.86809
Ti 334.941	498.597	ppb	2.6271	0.5	126174	99.71932
Tl 190.794	5019.31	ppb	18.5566	0.4	3278.28	100.38630
V 292.401	4895.84	ppb	29.2111	0.6	133756	97.91685
Zn 206.200	2359.56	ppb	17.0990	0.7	3636.26	94.38260

E03292013.vvq. All Data Report 3/30/2013, 8:54:32 AM

Cont Calib Blank (CCB)                      3/29/2013, 3:08:38 PM                      Rack 1, Tube 50  
 Weight: 1    Volume: 1    Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.6823u	-0.5265u	-0.9106u
Al 308.215	-4.6977u	-3.0997u	-2.9509u
As 188.980	8.7643	0.2209	-0.9502u
B 249.678	3.2600	1.7414	-0.3350u
Ba 389.178	0.7793	1.1272	0.2772
Be 313.042	-0.0510u	-0.0452u	-0.0459u
Ca 370.602	2.830	-2.146u	1.800
Cd 226.502	0.3137	0.0849	-0.0938u
Co 228.615	-0.9939u	-0.5112u	-0.1246u
Cr 267.716	-0.0836u	-0.1371u	-0.1999u
Cu 324.754	0.3853	-0.2935u	-0.2049u
Fe 271.441	-2.7934u	-4.5123u	-1.1117u
K 766.491	-1.0510u	-1.4892u	-0.9201u
Mg 279.078	0.0519	-3.4084u	-0.3086u
Mn 257.610	-0.2631u	-0.2302u	-0.2403u
Mo 202.032	-0.1888u	0.3850	0.2723
Na 330.237	148.950	72.9632	403.182
Ni 231.604	-0.1075u	0.0714	0.8176
Pb 220.353	-0.8187u	2.4243	-2.3605u
Sb 206.834	-8.9284u	-3.1540u	0.5326
Se 196.026	-4.4106u	0.1166	4.5129
Sn 189.925	2.3904	-0.0958u	-4.3034u
Sr 216.596	-0.5160u	-0.4668u	0.0597
Ti 334.941	0.1510	0.1394	0.1028
Tl 190.794	5.4885	4.6094	2.9942
V 292.401	-0.0831u	-0.1311u	-0.3600u
Zn 206.200	-0.2762u	-0.5257u	-1.1919u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	-0.7065	ppb	0.1932	27.3	-106.829	-0.70647
Al 308.215	-3.5828	ppb	0.9684	27.0	245.778	-3.58278
As 188.980	2.6783	ppb	5.3030	198.0	1.0248	2.67831
B 249.678	1.5555	ppb	1.8047	116.0	185.210	1.55546
Ba 389.178	0.7279	ppb	0.4273	58.7	11.5979	0.72790
Be 313.042	-0.0474	ppb	0.0032	6.7	-240.076	-0.04737
Ca 370.602	0.8281	ppb	2.626	317.1	-4.185	0.82815
Cd 226.502	0.1016	ppb	0.2043	201.1	12.6503	0.10157
Co 228.615	-0.5432	ppb	0.4355	80.2	9.3607	-0.54324
Cr 267.716	-0.1402	ppb	0.0582	41.5	-2.6156	-0.14020
Cu 324.754	-0.0377	ppb	0.3690	978.6	88.4319	-0.03770
Fe 271.441	-2.8058	ppb	1.7003	60.6	-1.4518	-2.80580
K 766.491	-1.1534	ppb	0.2981	25.8	176.516	-1.15344
Mg 279.078	-1.2217	ppb	1.9023	155.7	26.7183	-1.22171
Mn 257.610	-0.2445	ppb	0.0169	6.9	36.6392	-0.24451
Mo 202.032	0.1562	ppb	0.3040	194.7	14.9355	0.15616
Na 330.237	208.365	ppb	172.942	83.0	6.7967	208.36511
Ni 231.604	0.2605	ppb	0.4907	188.4	0.6032	0.26047
Pb 220.353	-0.2516	ppb	2.4423	970.6	3.0998	-0.25163
Sb 206.834	-3.8500	ppb	4.7687	123.9	-1.4061	-3.84996
Se 196.026	0.0730	ppb	4.4619	6114.9	-0.1523	0.07297
Sn 189.925	-0.6696	ppb	3.3836	505.3	-0.0925	-0.66960
Sr 216.596	-0.3077	ppb	0.3191	103.7	8.1067	-0.30769
Ti 334.941	0.1311	ppb	0.0252	19.2	-28.4076	0.13106
Tl 190.794	4.3641	ppb	1.2651	29.0	1.1687	4.36406
V 292.401	-0.1914	ppb	0.1479	77.3	0.1946	-0.19141
Zn 206.200	-0.6646	ppb	0.4734	71.2	0.7766	-0.66462

E03292013.wvq. All Data Report 3/30/2013, 8:54:32 AM

**680-88650-a-11-a (Samp)**                      **3/29/2013, 3:14:02 PM**                      **Rack 1, Tube 51**  
**Weight: 1**    **Volume: 1**    **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.0900u	-0.8274u	-0.2258u
Al 308.215	4576.43	4576.51	4589.93
As 188.980	-3.0068u	-0.5787u	-2.7274u
B 249.678	-6.5158u	-6.2962u	-6.8849u
Ba 389.178	47.2116	47.4743	47.0969
Be 313.042	-0.0249u	-0.0178u	-0.0183u
Ca 370.602	3587	3583	3601
Cd 226.502	0.1991	0.2720	0.3055
Co 228.615	1.4767	2.0438	0.7504
Cr 267.716	1.6793	1.8486	1.6529
Cu 324.754	1.8552	2.4712	1.8143
Fe 271.441	1691.99	1690.14	1690.34
K 766.491	645.980	642.331	642.108
Mg 279.078	850.182	848.605	846.922
Mn 257.610	16.5346	16.4912	16.5607
Mo 202.032	0.0532	0.4739	0.4233
Na 330.237	223.226	68.4861u	252.395
Ni 231.604	0.6357	1.2652	0.0315
Pb 220.353	15.7389	14.0406	18.5836
Sb 206.834	5.8979	9.0145	-3.6600u
Se 196.026	2.5638	3.5011	13.1012
Sn 189.925	18.6571	15.9293	19.5131
Sr 216.596	7.6452	7.6058	7.2389
Ti 334.941	321.780	322.642	321.883
Tl 190.794	5.0191	-1.1661u	2.3055
V 292.401	1.1477	0.9039	0.8616
Zn 206.200	251.179	255.239	253.370

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.3811	ppb	0.3924	103.0	-83.9387
Al 308.215	4580.96	ppb	7.7699	0.2	26726.6
As 188.980	-2.1043	ppb	1.3286	63.1	-2.1318
B 249.678	-6.5656	ppb	0.2975	4.5	107.554
Ba 389.178	47.2610	ppb	0.1935	0.4	979.466
Be 313.042	-0.0203	ppb	0.0040	19.7	-186.175
Ca 370.602	3590	ppb	9.796	0.3	11483
Cd 226.502	0.2589	ppb	0.0544	21.0	21.9390
Co 228.615	1.4236	ppb	0.6483	45.5	40.0229
Cr 267.716	1.7269	ppb	0.1062	6.1	76.3605
Cu 324.754	2.0469	ppb	0.3680	18.0	190.749
Fe 271.441	1690.82	ppb	1.0146	0.1	2849.43
K 766.491	643.473	ppb	2.1741	0.3	31101.2
Mg 279.078	848.570	ppb	1.6303	0.2	1779.25
Mn 257.610	16.5288	ppb	0.0351	0.2	3907.12
Mo 202.032	0.3168	ppb	0.2297	72.5	15.8880
Na 330.237	181.369	ppb	98.8414	54.5	0.5080
Ni 231.604	0.6441	ppb	0.6169	95.8	1.5443
Pb 220.353	16.1211	ppb	2.2955	14.2	29.2851
Sb 206.834	3.7508	ppb	6.6044	176.1	3.3296
Se 196.026	6.3887	ppb	5.8320	91.3	1.9080
Sn 189.925	18.0332	ppb	1.8716	10.4	13.9082
Sr 216.596	7.4966	ppb	0.2241	3.0	81.8493
Ti 334.941	322.102	ppb	0.4712	0.1	81479.5
Tl 190.794	2.0529	ppb	3.1003	151.0	-0.4144
V 292.401	0.9710	ppb	0.1544	15.9	36.9897
Zn 206.200	253.263	ppb	2.0325	0.8	393.425

E03292013.wvq. All Data Report 3/30/2013, 8:54:32 AM

680-88650-a-12-a (Samp) 3/29/2013, 3:19:26 PM Rack 1, Tube 52

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.2730u	-0.3666u	-0.6142u
Al 308.215	7401.19	7437.77	7408.19
As 188.980	-7.0000u	2.0654	-1.9893u
B 249.678	-9.2663u	-8.4402u	-10.0028u
Ba 389.178	76.2766	76.1193	78.0634
Be 313.042	0.0010	0.0040	0.0102
Ca 370.602	3672	3694	3669
Cd 226.502	0.4208	0.1768	0.3308
Co 228.615	2.3820	2.3150	1.8848
Cr 267.716	2.3931	2.1893	2.3509
Cu 324.754	2.9100	2.6935	2.6533
Fe 271.441	2740.90	2748.56	2746.83
K 766.491	909.374	915.528	909.154
Mg 279.078	1116.12	1112.23	1118.37
Mn 257.610	21.1907	21.3167	21.3326
Mo 202.032	-0.2021u	-0.3103u	0.2821
Na 330.237	546.562	465.032	231.421
Ni 231.604	3.2904	3.7450	1.1248
Pb 220.353	22.7926	22.4065	25.3763
Sb 206.834	-5.9334u	-4.4538u	6.4406
Se 196.026	10.5177	4.1664	6.6973
Sn 189.925	23.8414	26.5803	25.2699
Sr 216.596	11.1158	10.7061	9.8684
Ti 334.941	524.017	527.469	521.971
Tl 190.794	1.1831	5.1195	11.2285
V 292.401	1.9335	2.3517	1.8048
Zn 206.200	344.360	345.419	353.943

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.4179	ppb	0.1763	42.2	-86.6471
Al 308.215	7415.72	ppb	19.4153	0.3	43100.4
As 188.980	-2.3080	ppb	4.5411	196.8	-2.2775
B 249.678	-9.2364	ppb	0.7817	8.5	81.5449
Ba 389.178	76.8197	ppb	1.0799	1.4	1594.14
Be 313.042	0.0050	ppb	0.0047	92.8	-136.871
Ca 370.602	3678	ppb	13.54	0.4	11717
Cd 226.502	0.3095	ppb	0.1234	39.9	26.0351
Co 228.615	2.1939	ppb	0.2698	12.3	53.9410
Cr 267.716	2.3111	ppb	0.1075	4.7	101.353
Cu 324.754	2.7523	ppb	0.1380	5.0	225.493
Fe 271.441	2745.43	ppb	4.0198	0.1	4624.58
K 766.491	911.352	ppb	3.6180	0.4	43952.1
Mg 279.078	1115.57	ppb	3.1066	0.3	2329.59
Mn 257.610	21.2800	ppb	0.0777	0.4	5005.18
Mo 202.032	-0.0768	ppb	0.3154	410.8	13.3159
Na 330.237	414.338	ppb	163.572	39.5	9.9238
Ni 231.604	2.7201	ppb	1.4001	51.5	6.4770
Pb 220.353	23.5251	ppb	1.6148	6.9	41.0845
Sb 206.834	-1.3155	ppb	6.7577	513.7	0.2219
Se 196.026	7.1271	ppb	3.1974	44.9	2.1527
Sn 189.925	25.2305	ppb	1.3699	5.4	19.2957
Sr 216.596	10.5634	ppb	0.6358	6.0	110.868
Ti 334.941	524.486	ppb	2.7785	0.5	132713
Tl 190.794	5.8437	ppb	5.0617	86.6	2.0258
V 292.401	2.0300	ppb	0.2859	14.1	69.1876
Zn 206.200	347.908	ppb	5.2537	15.1	529.774

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680-88650-a-13-a (Samp)      3/29/2013, 3:24:51 PM      Rack 1, Tube 53  
 Weight: 1      Volume: 1      Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.3706	-0.1280u	-1.2623u
Al 308.215	4034.71	4028.76	4016.98
As 188.980	5.5808	0.0985	-4.4271u
B 249.678	-9.2180u	-9.4553u	-10.2275u
Ba 389.178	3.2792	3.2693	3.1641
Be 313.042	-0.0193u	-0.0189u	-0.0119u
Ca 370.602	7453	7441	7398
Cd 226.502	0.2024	0.2887	0.4234
Co 228.615	0.1213	0.4991	0.0704
Cr 267.716	3.1194	3.0305	3.0190
Cu 324.754	1.2091	1.5187	2.0396
Fe 271.441	301.204	301.301	300.508
K 766.491	71.2450	71.0887	70.0110
Mg 279.078	931.150	927.958	926.735
Mn 257.610	8.5066	8.5835	8.4973
Mo 202.032	-0.3483u	-0.4769u	-0.3853u
Na 330.237	-33.8513u	111.751	59.3197
Ni 231.604	0.9952	2.1933	2.6986
Pb 220.353	2.9921	3.5391	3.4220
Sb 206.834	-5.6826u	7.0338	0.7129
Se 196.026	9.2528	-0.2399u	-1.5457u
Sn 189.925	14.6935	11.3793	8.6508
Sr 216.596	17.8666	17.7366	17.5647
Ti 334.941	145.065	144.965	144.045
Tl 190.794	1.3204	5.2756	-2.5661u
V 292.401	2.5677	2.7755	2.6386
Zn 206.200	57.8011	58.3775	58.5675

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.3399	ppb	0.8368	246.2	-81.4702
Al 308.215	4026.81	ppb	9.0236	0.2	23525.6
As 188.980	0.4174	ppb	5.0116	1200.7	-0.4103
B 249.678	-9.6336	ppb	0.5278	5.5	80.1151
Ba 389.178	3.2376	ppb	0.0638	2.0	64.3426
Be 313.042	-0.0167	ppb	0.0041	24.7	-177.694
Ca 370.602	7431	ppb	29.10	0.4	23940
Cd 226.502	0.3049	ppb	0.1114	36.5	20.5826
Co 228.615	0.2303	ppb	0.2342	101.7	21.9008
Cr 267.716	3.0563	ppb	0.0549	1.8	131.271
Cu 324.754	1.5891	ppb	0.4197	26.4	167.942
Fe 271.441	301.004	ppb	0.4327	0.1	510.005
K 766.491	70.7816	ppb	0.6719	0.9	3627.45
Mg 279.078	928.614	ppb	2.2798	0.2	1944.49
Mn 257.610	8.5292	ppb	0.0473	0.6	2062.47
Mo 202.032	-0.4035	ppb	0.0662	16.4	11.3294
Na 330.237	45.7398	ppb	73.7449	161.2	-3.2110
Ni 231.604	1.9624	ppb	0.8749	44.6	4.6370
Pb 220.353	3.3177	ppb	0.2880	8.7	8.7186
Sb 206.834	0.6880	ppb	6.3582	924.2	1.4314
Se 196.026	2.4891	ppb	5.8938	236.8	0.6349
Sn 189.925	11.5745	ppb	3.0261	26.1	9.0752
Sr 216.596	17.7226	ppb	0.1514	0.9	177.178
Ti 334.941	144.692	ppb	0.5619	0.4	36569.8
Tl 190.794	1.3433	ppb	3.9209	291.9	-0.8241
V 292.401	2.6606	ppb	0.1056	4.0	80.5667
Zn 206.200	58.2487	ppb	0.3991	0.7	5158661

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680-88650-a-14-a (Samp) 3/29/2013, 3:30:15 PM Rack 1, Tube 54

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.3072u	-1.3990u	0.0757u
Al 308.215	1251.28	1246.86	1247.92
As 188.980	3.1135	-3.2842u	-5.2382u
B 249.678	-6.8275u	-7.2964u	-6.7923u
Ba 389.178	-3.2610u	-2.4678u	-2.8798u
Be 313.042	-0.0848u	-0.0837u	-0.0825u
Ca 370.602	152124	152861	151670
Cd 226.502	0.0875	0.0753	0.1847
Co 228.615	31.4662	32.0026	32.5490
Cr 267.716	1.1117	1.0342	0.8853
Cu 324.754	-0.6750u	-0.3652u	-0.5498u
Fe 271.441	334.675	341.895	336.993
K 766.491	149.629	149.369	149.416
Mg 279.078	1888.09	1876.70	1878.34
Mn 257.610	26.1277	26.1778	26.0644
Mo 202.032	-0.2945u	-0.8662u	-0.5578u
Na 330.237	1241.73	962.201	1265.84
Ni 231.604	2.2873	2.3903	2.5465
Pb 220.353	145.026	146.971	150.049
Sb 206.834	-2.0689u	1.3160	-1.2638u
Se 196.026	11.0170	1.5090	16.6828
Sn 189.925	8.5684	10.1519	9.6721
Sr 216.596	304.128	303.926	302.361
Ti 334.941	234.552	234.661	234.238
Tl 190.794	-2.1361u	4.4888	0.7998
V 292.401	-1.3540u	-1.3068u	-1.0731u
Zn 206.200	1538.26	1530.39	1533.85

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.5435	ppb	0.7652	140.8	-108.051
Al 308.215	1248.69	ppb	2.3069	0.2	7478.94
As 188.980	-1.8030	ppb	4.3684	242.3	-0.5861
B 249.678	-6.9721	ppb	0.2814	4.0	105.011
Ba 389.178	-2.8695	ppb	0.3967	13.8	-62.0279
Be 313.042	-0.0836	ppb	0.0011	1.3	-256.448
Ca 370.602	152218	ppb	601.5	0.4	490513
Cd 226.502	0.1158	ppb	0.0599	51.8	13.9132
Co 228.615	32.0059	ppb	0.5414	1.7	387.172
Cr 267.716	1.0104	ppb	0.1150	11.4	46.0161
Cu 324.754	-0.5300	ppb	0.1558	29.4	64.4653
Fe 271.441	337.854	ppb	3.6861	1.1	576.914
K 766.491	149.471	ppb	0.1386	0.1	7402.43
Mg 279.078	1881.04	ppb	6.1580	0.3	3910.70
Mn 257.610	26.1233	ppb	0.0568	0.2	6119.79
Mo 202.032	-0.5728	ppb	0.2861	50.0	10.2484
Na 330.237	1156.59	ppb	168.775	14.6	42.2277
Ni 231.604	2.4080	ppb	0.1305	5.4	5.6925
Pb 220.353	147.348	ppb	2.5329	1.7	241.241
Sb 206.834	-0.6722	ppb	1.7683	263.1	0.5787
Se 196.026	9.7363	ppb	7.6675	78.8	2.9915
Sn 189.925	9.4641	ppb	0.8120	8.6	7.5499
Sr 216.596	303.472	ppb	0.9671	0.3	2857.32
Ti 334.941	234.484	ppb	0.2199	0.1	59303.6
Tl 190.794	1.0508	ppb	3.3196	315.9	-1.0238
V 292.401	-1.2446	ppb	0.1504	12.1	-24.8897
Zn 206.200	1534.17	ppb	3.9485	0.3	2274.12

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680-88650-a-15-a (Samp)                      3/29/2013, 3:35:40 PM                      Rack 1, Tube 55  
 Weight: 1    Volume: 1    Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.2471	0.3244	0.6197
Al 308.215	2994.87	2989.56	2998.70
As 188.980	-7.8086u	8.9810	2.7748
B 249.678	-11.5205u	-13.2970u	-11.2299u
Ba 389.178	200.411	199.409	200.163
Be 313.042	-0.0077	-0.0085	-0.0209
Ca 370.602	133177	133093	133162
Cd 226.502	14.0339	14.1999	14.2029
Co 228.615	10.3790	10.4458	10.7269
Cr 267.716	40.8841	41.1677	41.0296
Cu 324.754	187.174	186.756	187.375
Fe 271.441	75226.3	75164.9	75463.1
K 766.491	227.342	227.292	228.645
Mg 279.078	5081.47	5072.20	5081.12
Mn 257.610	273.165	273.010	273.280
Mo 202.032	6.5649	7.3584	6.7278
Na 330.237	3107.07u	3109.38u	2954.72u
Ni 231.604	19.4156	20.2847	18.5746
Pb 220.353	14813.5	14812.6	14828.9
Sb 206.834	2.2165	2.5395	0.9550
Se 196.026	1.2608	5.4242	-2.4365u
Sn 189.925	27.8935	22.5373	22.3103
Sr 216.596	94.9133	96.0182	95.5204
Ti 334.941	1018.27	1019.80	1020.42
Tl 190.794	-0.3527u	3.6993u	2.9368u
V 292.401	8.2095	8.1882	8.2697
Zn 206.200	38733.5x	38735.4x	38678.8x

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.3971b	ppb	0.1966	49.5	-31.6634
Al 308.215	2994.38b	ppb	4.5899	0.2	17562.9
As 188.980	1.3157b	ppb	8.4893	645.2	0.4925
B 249.678	-12.0158b	ppb	1.1190	9.3	-12.3829
Ba 389.178	199.994b	ppb	0.5220	0.3	4201.69
Be 313.042	-0.0124b	ppb	0.0074	59.6	-128.818
Ca 370.602	133144b	ppb	44.60	0.0	423015
Cd 226.502	14.1456b	ppb	0.0967	0.7	677.936
Co 228.615	10.5172b	ppb	0.1846	1.8	159.079
Cr 267.716	41.0271b	ppb	0.1418	0.3	1734.72
Cu 324.754	187.102b	ppb	0.3156	0.2	9252.99
Fe 271.441	75284.8b	ppb	157.475	0.2	126711
K 766.491	227.759b	ppb	0.7671	0.3	11158.1
Mg 279.078	5078.26b	ppb	5.2549	0.1	10518.2
Mn 257.610	273.152b	ppb	0.1351	0.0	63203.9
Mo 202.032	6.8837b	ppb	0.4191	6.1	54.7089
Na 330.237	3057.06b	ppb	88.6367	2.9	-166.284
Ni 231.604	19.4249b	ppb	0.8551	4.4	47.3911
Pb 220.353	14818.3b	ppb	9.1808	0.1	23926.1
Sb 206.834	1.9037b	ppb	0.8373	44.0	3.4127
Se 196.026	1.4161b	ppb	3.9327	277.7	0.6188
Sn 189.925	24.2470b	ppb	3.1600	13.0	18.6048
Sr 216.596	95.4840b	ppb	0.5534	0.6	940.297
Ti 334.941	1019.50b	ppb	1.1113	0.1	258044
Tl 190.794	2.0945b	ppb	2.1533	102.8	-3.1064
V 292.401	8.2225b	ppb	0.0423	0.5	243.096
Zn 206.200	38715.9xb	ppb	32.1456	0.1	59869.0



E03292013.wvq. All Data Report 3/30/2013, 8:54:32 AM

**680-88650-a-16-a (Samp)**                      **3/29/2013, 3:41:05 PM**                      **Rack 1, Tube 56**  
**Weight: 1**    **Volume: 1**    **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	2.9280	2.2813	1.9393
Al 308.215	1984.70	1982.22	1984.52
As 188.980	4.9229	8.2741	1.2521
B 249.678	50.2622	51.1535	52.5519
Ba 389.178	5124.21	5128.84	5135.09
Be 313.042	0.2265	0.2448	0.2271
Ca 370.602	75801	75836	75869
Cd 226.502	0.5376	0.3476	0.4220
Co 228.615	340.929	340.635	344.361
Cr 267.716	16.4909	16.5185	16.7131
Cu 324.754	42.3137	40.1412	41.6790
Fe 271.441	52621.9	52764.3	52759.4
K 766.491	388.095	388.553	389.672
Mg 279.078	3438.73	3446.65	3440.56
Mn 257.610	344.316	344.704	345.133
Mo 202.032	2.3995	1.7569	1.4265
Na 330.237	-440.196u	-89.9791u	-340.793u
Ni 231.604	8.4380	6.9795	9.1183
Pb 220.353	181.959	183.338	182.832
Sb 206.834	0.4387	3.8168	-3.4956u
Se 196.026	5.5866	-0.9390u	2.4595
Sn 189.925	29.2770	28.0797	30.6354
Sr 216.596	125.148	125.944	126.087
Ti 334.941	128.794	128.654	129.114
Tl 190.794	1.7695u	-0.9245u	5.7362
V 292.401	13.2098	13.4499	13.2213
Zn 206.200	247.039	248.886	248.833

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	2.3829	ppb	0.5021	21.1	108.983
Al 308.215	1983.82	ppb	1.3844	0.1	11725.1
As 188.980	4.8164	ppb	3.5122	72.9	2.5462
B 249.678	51.3225	ppb	1.1542	2.2	602.018
Ba 389.178	5129.38	ppb	5.4616	0.1	106556
Be 313.042	0.2328	ppb	0.0104	4.5	324.446
Ca 370.602	75835	ppb	34.29	0.0	240041
Cd 226.502	0.4357	ppb	0.0957	22.0	138.581
Co 228.615	341.975	ppb	2.0714	0.6	3923.62
Cr 267.716	16.5742	ppb	0.1212	0.7	707.970
Cu 324.754	41.3780	ppb	1.1171	2.7	2126.98
Fe 271.441	52715.2	ppb	80.8286	0.2	88776.6
K 766.491	388.773	ppb	0.8111	0.2	18882.5
Mg 279.078	3441.98	ppb	4.1457	0.1	7136.32
Mn 257.610	344.718	ppb	0.4088	0.1	79605.2
Mo 202.032	1.8610	ppb	0.4947	26.6	23.4996
Na 330.237	-290.323	ppb	180.481	62.2	-37.5717
Ni 231.604	8.1786	ppb	1.0928	13.4	20.3269
Pb 220.353	182.710	ppb	0.6974	0.4	298.336
Sb 206.834	0.2533	ppb	3.6597	1444.8	1.9694
Se 196.026	2.3691	ppb	3.2637	137.8	0.8527
Sn 189.925	29.3307	ppb	1.2787	4.4	22.3906
Sr 216.596	125.726	ppb	0.5058	0.4	1209.88
Ti 334.941	128.854	ppb	0.2355	0.2	32576.4
Tl 190.794	2.1937	ppb	3.3505	152.7	-2.2345
V 292.401	13.2937	ppb	0.1354	1.0	370.434
Zn 206.200	248.253	ppb	1.0513	0.4	385.632

E03292013.wvq. All Data Report 3/30/2013, 8:54:32 AM

ics 680-271056/2-a (Samp)      3/29/2013, 3:46:31 PM      Rack 1, Tube 57  
 Weight: 1      Volume: 1      Dilution: 1

Label	Replicates Concentration		
Ag 328.068	16.4065	15.2867	15.2813
Al 308.215	5015.53	4981.28	5022.48
As 188.980	103.478	99.9479	113.446
B 249.678	193.587	191.349	197.017
Ba 389.178	102.704	101.746	103.678
Be 313.042	52.7952	52.3425	52.7836
Ca 370.602	5029	4994	5023
Cd 226.502	53.0583	52.5576	52.9716
Co 228.615	52.4445	51.1928	51.6785
Cr 267.716	105.425	105.799	105.893
Cu 324.754	100.604	102.162	100.744
Fe 271.441	5183.46	5143.33	5181.40
K 766.491	5013.74	4976.48	5013.61
Mg 279.078	5174.29	5129.58	5165.79
Mn 257.610	531.210	526.512	530.350
Mo 202.032	103.325	103.064	103.318
Na 330.237	4733.73	4827.35	4751.66
Ni 231.604	104.925	103.212	101.696
Pb 220.353	54.3061	51.5537	51.5844
Sb 206.834	40.2316	56.4716	52.7244
Se 196.026	105.456	100.824	116.996
Sn 189.925	217.601	217.567	223.166
Sr 216.596	106.977	104.592	106.492
Ti 334.941	103.614	103.068	103.987
Tl 190.794	41.2586	41.8845	39.7125
V 292.401	104.075	102.841	104.052
Zn 206.200	102.245	105.522	107.645

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	15.6582	ppb	0.6481	4.1	1055.93
Al 308.215	5006.43	ppb	22.0580	0.4	29195.8
As 188.980	105.624	ppb	7.0003	6.6	69.2294
B 249.678	193.984	ppb	2.8551	1.5	1982.98
Ba 389.178	102.710	ppb	0.9661	0.9	2135.91
Be 313.042	52.6404	ppb	0.2580	0.5	101595
Ca 370.602	5015	ppb	18.65	0.4	15762
Cd 226.502	52.8625	ppb	0.2676	0.5	1911.43
Co 228.615	51.7719	ppb	0.6311	1.2	606.282
Cr 267.716	105.706	ppb	0.2476	0.2	4421.61
Cu 324.754	101.170	ppb	0.8620	0.9	5036.14
Fe 271.441	5169.40	ppb	22.5996	0.4	8712.65
K 766.491	5001.28	ppb	21.4707	0.4	240158
Mg 279.078	5156.55	ppb	23.7395	0.5	10662.7
Mn 257.610	529.357	ppb	2.5011	0.5	121984
Mo 202.032	103.236	ppb	0.1484	0.1	675.383
Na 330.237	4770.91	ppb	49.6918	1.0	238.486
Ni 231.604	103.277	ppb	1.6156	1.6	244.444
Pb 220.353	52.4814	ppb	1.5804	3.0	88.0544
Sb 206.834	49.8092	ppb	8.5034	17.1	31.8975
Se 196.026	107.759	ppb	8.3285	7.7	34.9253
Sn 189.925	219.445	ppb	3.2230	1.5	164.672
Sr 216.596	106.020	ppb	1.2602	1.2	998.265
Ti 334.941	103.556	ppb	0.4626	0.4	26174.3
Tl 190.794	40.9519	ppb	1.1180	2.7	24.4408
V 292.401	103.656	ppb	0.7056	0.7	2820.60
Zn 206.200	105.137	ppb	2.7205	2.6	164.064

E03292013.wvq. All Data Report 3/30/2013, 8:54:32 AM

680-88663-a-1-h (Samp)                      3/29/2013, 3:51:57 PM                      Rack 1, Tube 58  
 Weight: 1                                      Volume: 1                                      Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.0567	-0.3799u	-0.1829u
Al 308.215	-2.9244u	-1.5548u	1.0392
As 188.980	-0.5828u	2.7882	2.2264
B 249.678	13.4690	14.9520	13.7201
Ba 389.178	23.6517	24.6657	25.5720
Be 313.042	-0.0452u	-0.0386u	-0.0354u
Ca 370.602	2877	2888	2910
Cd 226.502	-0.1608u	0.1028	-0.0624u
Co 228.615	-0.5428u	0.3590	0.0782
Cr 267.716	0.3828	0.3750	0.0338
Cu 324.754	0.0932	-0.0537u	0.3183
Fe 271.441	14.5369	26.0596	25.1992
K 766.491	75.3226	74.6822	75.5375
Mg 279.078	171.428	177.964	172.759
Mn 257.610	39.4294	39.4819	39.5608
Mo 202.032	-0.0310u	0.8205	-0.0322u
Na 330.237	2980.23	2724.98	3090.47
Ni 231.604	0.7257	-0.1731u	2.6432
Pb 220.353	-1.7504u	-3.5397u	-1.3935u
Sb 206.834	-0.3001u	-8.5573u	3.6709
Se 196.026	10.1917	-2.6196u	2.3977
Sn 189.925	-8.4233u	-1.4811u	-0.2625u
Sr 216.596	6.0306	6.9141	6.5717
Ti 334.941	0.0337	0.1626	0.0404
Tl 190.794	2.9014	0.8446	-4.0960u
V 292.401	-0.6870u	-0.1861u	-0.6429u
Zn 206.200	24.7705	23.8650	25.2680

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1687	ppb	0.2186	129.6	-68.7094
Al 308.215	-1.1467	ppb	2.0131	175.6	259.834
As 188.980	1.4773	ppb	1.8060	122.3	0.2544
B 249.678	14.0470	ppb	0.7937	5.7	302.208
Ba 389.178	24.6298	ppb	0.9606	3.9	508.066
Be 313.042	-0.0398	ppb	0.0050	12.5	-224.686
Ca 370.602	2892	ppb	16.94	0.6	9310
Cd 226.502	-0.0401	ppb	0.1332	332.0	7.6114
Co 228.615	-0.0352	ppb	0.4615	1310.6	15.1693
Cr 267.716	0.2638	ppb	0.1993	75.5	14.4663
Cu 324.754	0.1193	ppb	0.1874	157.1	96.1061
Fe 271.441	21.9319	ppb	6.4187	29.3	40.2588
K 766.491	75.1808	ppb	0.4450	0.6	3838.49
Mg 279.078	174.050	ppb	3.4542	2.0	387.832
Mn 257.610	39.4907	ppb	0.0661	0.2	9183.98
Mo 202.032	0.2524	ppb	0.4919	194.9	15.5524
Na 330.237	2931.89	ppb	187.475	6.4	146.775
Ni 231.604	1.0653	ppb	1.4385	135.0	2.5078
Pb 220.353	-2.2279	ppb	1.1500	51.6	-0.0823
Sb 206.834	-1.7289	ppb	6.2381	360.8	-0.0910
Se 196.026	3.3232	ppb	6.4556	194.3	0.9098
Sn 189.925	-3.3890	ppb	4.4022	129.9	-2.1260
Sr 216.596	6.5055	ppb	0.4455	6.8	71.9537
Ti 334.941	0.0789	ppb	0.0726	91.9	-41.0889
Tl 190.794	-0.1167	ppb	3.5964	3082.2	-1.8007
V 292.401	-0.5054	ppb	0.2774	54.9	-8.4225
Zn 206.200	24.6345	ppb	0.7113	2.9	39.8960

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680-88663-a-1-i ms (Samp) 3/29/2013, 3:57:23 PM Rack 1, Tube 59

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	70.0269	68.5967	70.6574
Al 308.215	683.745	690.171	690.240
As 188.980	68.0195	70.6347	73.8702
B 249.678	147.446	150.568	150.118
Ba 389.178	84.9195	83.0043	83.3073
Be 313.042	70.3096	70.4396	70.4262
Ca 370.602	8970	9027	9004
Cd 226.502	71.1779	71.1638	70.9579
Co 228.615	70.0604	69.9172	69.4256
Cr 267.716	70.7381	71.2843	70.9034
Cu 324.754	69.9392	68.2259	67.4045
Fe 271.441	7046.91	7046.38	7034.46
K 766.491	7084.94	7064.31	7049.14
Mg 279.078	7127.08	7159.35	7140.72
Mn 257.610	748.362	749.934	748.777
Mo 202.032	70.1478	69.2873	69.9134
Na 330.237	8296.80	8485.07	8363.91
Ni 231.604	70.7298	71.3340	71.7797
Pb 220.353	69.3375	70.0755	69.2408
Sb 206.834	64.8278	65.0973	59.4530
Se 196.026	77.8933	63.2214	74.2669
Sn 189.925	69.5689	67.4356	70.8217
Sr 216.596	76.6750	77.4114	76.2533
Ti 334.941	69.4440	69.8199	69.9124
Tl 190.794	22.6453	18.8090	21.4609
V 292.401	69.8894	70.3283	69.9959
Zn 206.200	88.3692	90.8701	87.9076

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	69.7603	ppb	1.0559	1.5	4907.21
Al 308.215	688.052	ppb	3.7301	0.5	4248.62
As 188.980	70.8415	ppb	2.9308	4.1	46.1962
B 249.678	149.378	ppb	1.6876	1.1	1563.37
Ba 389.178	83.7437	ppb	1.0295	1.2	1743.99
Be 313.042	70.3918	ppb	0.0715	0.1	135917
Ca 370.602	9001	ppb	28.51	0.3	28449
Cd 226.502	71.0999	ppb	0.1231	0.2	2567.95
Co 228.615	69.8011	ppb	0.3329	0.5	812.403
Cr 267.716	70.9753	ppb	0.2801	0.4	2971.89
Cu 324.754	68.5232	ppb	1.2932	1.9	3441.17
Fe 271.441	7042.58	ppb	7.0426	0.1	11867.5
K 766.491	7066.13	ppb	17.9697	0.3	339215
Mg 279.078	7142.38	ppb	16.1993	0.2	14759.3
Mn 257.610	749.024	ppb	0.8147	0.1	172564
Mo 202.032	69.7828	ppb	0.4449	0.6	460.887
Na 330.237	8381.93	ppb	95.4187	1.1	424.144
Ni 231.604	71.2812	ppb	0.5270	0.7	168.774
Pb 220.353	69.5513	ppb	0.4565	0.7	115.789
Sb 206.834	63.1260	ppb	3.1838	5.0	40.2902
Se 196.026	71.7939	ppb	7.6422	10.6	23.2885
Sn 189.925	69.2754	ppb	1.7120	2.5	52.2690
Sr 216.596	76.7799	ppb	0.5862	0.8	727.813
Ti 334.941	69.7254	ppb	0.2481	0.4	17618.2
Tl 190.794	20.9717	ppb	1.9644	9.4	11.1025
V 292.401	70.0712	ppb	0.2289	0.3	1908.46
Zn 206.200	89.0490	ppb	1.5940	1.8	129.289

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**680-88663-a-1-j msd (Samp) 3/29/2013, 4:02:49 PM Rack 1, Tube 60****Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	75.6372	73.7106	73.7699
Al 308.215	736.120	733.651	733.130
As 188.980	78.0035	78.1618	77.5059
B 249.678	160.798	162.304	163.357
Ba 389.178	88.8985	88.9278	88.9107
Be 313.042	75.0950	75.0557	75.0467
Ca 370.602	9542	9531	9531
Cd 226.502	75.9853	75.6501	75.7485
Co 228.615	73.4671	74.1905	74.1122
Cr 267.716	75.6091	75.7960	75.9527
Cu 324.754	73.8560	73.3961	73.7905
Fe 271.441	7493.65	7495.68	7503.35
K 766.491	7538.57	7535.68	7499.42
Mg 279.078	7613.39	7605.04	7608.82
Mn 257.610	797.296	797.156	797.374
Mo 202.032	74.5850	73.1774	75.8603
Na 330.237	8901.30	8713.79	9051.97
Ni 231.604	77.3016	74.0021	76.1194
Pb 220.353	76.6215	71.4679	72.1560
Sb 206.834	76.5308	77.6236	72.8407
Se 196.026	65.5354	90.9644	65.9624
Sn 189.925	71.3048	72.2563	70.8803
Sr 216.596	81.6447	81.1020	81.6540
Ti 334.941	74.1712	74.1078	74.3162
Tl 190.794	21.5548	28.2704	16.5282
V 292.401	74.8276	75.1069	74.6691
Zn 206.200	93.6625	95.6429	95.4072

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	74.3726	ppb	1.0956	1.5	5235.40
Al 308.215	734.300	ppb	1.5975	0.2	4516.31
As 188.980	77.8904	ppb	0.3423	0.4	50.8675
B 249.678	162.153	ppb	1.2864	0.8	1682.62
Ba 389.178	88.9123	ppb	0.0147	0.0	1851.87
Be 313.042	75.0658	ppb	0.0257	0.0	144952
Ca 370.602	9535	ppb	6.151	0.1	30135
Cd 226.502	75.7947	ppb	0.1723	0.2	2736.90
Co 228.615	73.9233	ppb	0.3970	0.5	859.447
Cr 267.716	75.7859	ppb	0.1720	0.2	3173.09
Cu 324.754	73.6809	ppb	0.2488	0.3	3693.36
Fe 271.441	7497.56	ppb	5.1193	0.1	12634.1
K 766.491	7524.55	ppb	21.8152	0.3	361207
Mg 279.078	7609.09	ppb	4.1817	0.1	15721.8
Mn 257.610	797.275	ppb	0.1107	0.0	183675
Mo 202.032	74.5409	ppb	1.3420	1.8	491.363
Na 330.237	8889.02	ppb	169.424	1.9	450.029
Ni 231.604	75.8077	ppb	1.6717	2.2	179.492
Pb 220.353	73.4151	ppb	2.7980	3.8	122.026
Sb 206.834	75.6650	ppb	2.5062	3.3	48.0579
Se 196.026	74.1541	ppb	14.5597	19.6	24.0646
Sn 189.925	71.4805	ppb	0.7047	1.0	53.9199
Sr 216.596	81.4669	ppb	0.3160	0.4	771.576
Ti 334.941	74.1984	ppb	0.1068	0.1	18752.4
Tl 190.794	22.1178	ppb	5.8913	26.6	11.7923
V 292.401	74.8679	ppb	0.2217	0.3	2038.70
Zn 206.200	94.9042	ppb	1.0817	1.1	148.328

E03292013.vvq. All Data Report 3/30/2013, 8:54:32 AM

Cont Calib Verif (CCV) 3/29/2013, 4:08:14 PM Rack 2, Tube 1  
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	503.044	490.888	487.729
Al 308.215	4942.59	4955.81	4963.84
As 188.980	517.722	512.989	516.827
B 249.678	550.503	557.858	562.433
Ba 389.178	4570.43	4604.84	4598.26
Be 313.042	464.988	467.316	467.301
Ca 370.602	4786	4788	4802
Cd 226.502	465.688	467.352	468.944
Co 228.615	464.734	468.011	469.150
Cr 267.716	4682.89	4681.68	4694.44
Cu 324.754	4539.12	4554.68	4514.28
Fe 271.441	4958.32	4970.94	4988.80
K 766.491	9761.34	9821.67	9793.55
Mg 279.078	4918.32	4919.79	4931.44
Mn 257.610	4630.17	4659.98	4668.23
Mo 202.032	484.743	485.508	486.290
Na 330.237	7201.21	7011.85	7508.97
Ni 231.604	2368.08	2365.80	2369.56
Pb 220.353	488.140	494.551	492.396
Sb 206.834	984.483	981.744	994.510
Se 196.026	4868.87	4889.07	4887.18
Sn 189.925	4980.01	4942.54	5033.02
Sr 216.596	2445.22	2444.96	2455.99
Ti 334.941	491.539	491.537	492.277
Tl 190.794	4966.12	4973.06	5014.83
V 292.401	4850.76	4879.76	4878.95
Zn 206.200	2338.09	2348.20	2351.30

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	493.887	ppb	8.0863	1.6	35029.8	98.77741
Al 308.215	4954.08	ppb	10.7304	0.2	28858.4	99.08165
As 188.980	515.846	ppb	2.5141	0.5	341.067	103.16924
B 249.678	556.931	ppb	6.0186	1.1	5383.07	22.27726Q
Ba 389.178	4591.18	ppb	18.2649	0.4	95359.9	91.82355
Be 313.042	466.535	ppb	1.3394	0.3	901477	93.30701
Ca 370.602	4792	ppb	8.890	0.2	15291	95.84210
Cd 226.502	467.328	ppb	1.6282	0.3	16739.0	93.46563
Co 228.615	467.298	ppb	2.2928	0.5	5361.85	93.45969
Cr 267.716	4686.33	ppb	7.0414	0.2	195770	93.72670
Cu 324.754	4536.03	ppb	20.3778	0.4	221664	90.72055
Fe 271.441	4972.69	ppb	15.3138	0.3	8488.95	99.45372
K 766.491	9792.18	ppb	30.1858	0.3	469992	97.92184
Mg 279.078	4923.18	ppb	7.1848	0.1	10116.3	98.46365
Mn 257.610	4652.79	ppb	20.0216	0.4	1071115	93.05583
Mo 202.032	485.514	ppb	0.7737	0.2	3118.26	97.10272
Na 330.237	7240.68	ppb	250.896	3.5	345.943	96.54237
Ni 231.604	2367.82	ppb	1.8974	0.1	5602.45	94.71264
Pb 220.353	491.696	ppb	3.2620	0.7	797.174	98.33913
Sb 206.834	986.912	ppb	6.7207	0.7	637.973	98.69124
Se 196.026	4881.71	ppb	11.1591	0.2	1585.96	97.63410
Sn 189.925	4985.19	ppb	45.4614	0.9	3731.94	99.70372
Sr 216.596	2448.72	ppb	6.2967	0.3	22822.4	97.94898
Ti 334.941	491.784	ppb	0.4263	0.1	124450	98.35687
Tl 190.794	4984.67	ppb	26.3503	0.5	3255.65	99.69336
V 292.401	4869.82	ppb	16.5144	0.3	133047	97.39648
Zn 206.200	2345.86	ppb	6.9046	0.3	3615.21	93.83455

E03292013.vvq. All Data Report 3/30/2013, 8:54:32 AM

Cont Calib Blank (CCB) 3/29/2013, 4:13:39 PM Rack 2, Tube 2

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.4968	-0.8584u	0.7181
Al 308.215	-4.1273u	-2.5584u	-2.3525u
As 188.980	1.9664	5.6011	0.3962
B 249.678	3.9486	1.9903	0.8887
Ba 389.178	-0.3494u	0.4396	-0.2057u
Be 313.042	-0.0521u	-0.0425u	-0.0509u
Ca 370.602	-1.203u	-0.1738u	2.701
Cd 226.502	0.0821	0.1174	-0.0890u
Co 228.615	-0.3797u	-0.2593u	-0.8663u
Cr 267.716	-0.0833u	-0.0902u	-0.1872u
Cu 324.754	-1.0448u	-0.1792u	-0.1031u
Fe 271.441	5.0186	0.3773	1.0906
K 766.491	-0.6578u	-0.3247u	-0.2444u
Mg 279.078	0.7834	-0.1322u	-2.9823u
Mn 257.610	0.6845	0.6164	0.6444
Mo 202.032	-0.2997u	0.0655	-0.4959u
Na 330.237	-50.9114u	196.545	219.011
Ni 231.604	0.2268	0.8649	0.4847
Pb 220.353	0.8574	-1.8667u	-2.8819u
Sb 206.834	4.8541	1.7730	4.4234
Se 196.026	3.1931	-5.6269u	6.2321
Sn 189.925	1.6124	-0.6573u	0.4766
Sr 216.596	-0.6390u	-0.6897u	-0.7055u
Ti 334.941	0.0318	0.0374	0.0899
Tl 190.794	1.0724	5.0343	-0.0387u
V 292.401	-0.3870u	-0.2632u	-0.2414u
Zn 206.200	-0.7098u	-0.1011u	1.0508

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.1188	ppb	0.8535	718.4	-48.0988	0.11881
Al 308.215	-3.0127	ppb	0.9707	32.2	248.988	-3.01273
As 188.980	2.6546	ppb	2.6699	100.6	1.0093	2.65456
B 249.678	2.2758	ppb	1.5498	68.1	191.960	2.27584
Ba 389.178	-0.0385	ppb	0.4202	1091.6	-4.3219	-0.03849
Be 313.042	-0.0485	ppb	0.0052	10.8	-242.178	-0.04851
Ca 370.602	0.4416	ppb	2.023	458.2	-5.281	0.44157
Cd 226.502	0.0368	ppb	0.1104	299.6	10.3316	0.03685
Co 228.615	-0.5018	ppb	0.3214	64.0	9.8523	-0.50180
Cr 267.716	-0.1202	ppb	0.0581	48.3	-1.7768	-0.12021
Cu 324.754	-0.4423	ppb	0.5231	118.3	68.6466	-0.44234
Fe 271.441	2.1622	ppb	2.4993	115.6	6.8734	2.16219
K 766.491	-0.4090	ppb	0.2192	53.6	212.232	-0.40895
Mg 279.078	-0.7770	ppb	1.9639	252.7	27.6215	-0.77703
Mn 257.610	0.6485	ppb	0.0342	5.3	242.181	0.64846
Mo 202.032	-0.2434	ppb	0.2849	117.1	12.3743	-0.24337
Na 330.237	121.548	ppb	149.776	123.2	2.3257	121.54821
Ni 231.604	0.5255	ppb	0.3210	61.1	1.2301	0.52546
Pb 220.353	-1.2971	ppb	1.9336	149.1	1.4131	-1.29707
Sb 206.834	3.6835	ppb	1.6685	45.3	3.2552	3.68348
Se 196.026	1.2661	ppb	6.1599	486.5	0.2353	1.26610
Sn 189.925	0.4772	ppb	1.1348	237.8	0.7659	0.47724
Sr 216.596	-0.6781	ppb	0.0347	5.1	4.6528	-0.67806
Ti 334.941	0.0531	ppb	0.0321	60.4	-48.1472	0.05306
Tl 190.794	2.0227	ppb	2.6667	131.8	-0.3635	2.02268
V 292.401	-0.2972	ppb	0.0785	26.4	-2.5805	-0.29719
Zn 206.200	0.0800	ppb	0.8942	1118.0	5.159281	0.07998

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**mb 680-271101/1-a (Samp)**      **3/29/2013, 4:19:04 PM**      **Rack 2, Tube 3**  
**Weight: 1**      **Volume: 1**      **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.2437u	-0.4207u	0.3294
Al 308.215	-2.2051u	0.0319	-2.5191u
As 188.980	0.3799	0.0906	-5.6761u
B 249.678	-6.2321u	-6.2588u	-6.3001u
Ba 389.178	-0.3294u	0.4423	-0.4484u
Be 313.042	-0.0509u	-0.0568u	-0.0580u
Ca 370.602	8.246	3.803	1.114
Cd 226.502	0.0746	-0.0721u	0.1381
Co 228.615	-0.8314u	-0.3248u	-0.3224u
Cr 267.716	-0.0548u	0.2076	-0.1848u
Cu 324.754	0.3011	0.2929	-0.1645u
Fe 271.441	6.4838	0.5687	-1.3302u
K 766.491	-0.2752u	-0.1167u	-0.6179u
Mg 279.078	0.4932	-7.6925u	-3.0622u
Mn 257.610	-0.2830u	-0.2379u	-0.2328u
Mo 202.032	-0.3597u	0.2212	-0.8887u
Na 330.237	-107.745u	-23.8477u	125.216
Ni 231.604	-0.6167u	-0.2398u	-1.0124u
Pb 220.353	-3.8903u	-3.0945u	1.3562
Sb 206.834	-6.4574u	0.1997	9.7121
Se 196.026	10.1220	-1.6013u	15.7637
Sn 189.925	-3.8228u	-1.1157u	0.1592
Sr 216.596	-0.1417u	-0.0384u	0.0276
Ti 334.941	-0.0150u	-0.0475u	-0.0373u
Tl 190.794	-1.7767u	0.6661	-5.2393u
V 292.401	0.0772	-0.5841u	-0.3956u
Zn 206.200	4.1336	1.6320	3.0074

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1117	ppb	0.3921	351.2	-64.5261
Al 308.215	-1.5641	ppb	1.3911	88.9	257.328
As 188.980	-1.7352	ppb	3.4160	196.9	-1.9006
B 249.678	-6.2637	ppb	0.0343	0.5	111.967
Ba 389.178	-0.1118	ppb	0.4835	432.4	-5.8483
Be 313.042	-0.0552	ppb	0.0038	6.8	-255.102
Ca 370.602	4.388	ppb	3.602	82.1	7.591
Cd 226.502	0.0469	ppb	0.1078	229.9	10.6859
Co 228.615	-0.4928	ppb	0.2932	59.5	9.9601
Cr 267.716	-0.0107	ppb	0.1999	1868.5	2.7932
Cu 324.754	0.1432	ppb	0.2665	186.1	97.2456
Fe 271.441	1.9074	ppb	4.0754	213.7	6.4704
K 766.491	-0.3366	ppb	0.2562	76.1	215.702
Mg 279.078	-3.4205	ppb	4.1046	120.0	22.1792
Mn 257.610	-0.2512	ppb	0.0276	11.0	35.0735
Mo 202.032	-0.3424	ppb	0.5551	162.1	11.7395
Na 330.237	-2.1254	ppb	117.990	5551.3	-4.0572
Ni 231.604	-0.6230	ppb	0.3863	62.0	-1.4871
Pb 220.353	-1.8762	ppb	2.8275	150.7	0.4782
Sb 206.834	1.1515	ppb	8.1266	705.8	1.6929
Se 196.026	8.0948	ppb	8.8582	109.4	2.4528
Sn 189.925	-1.5931	ppb	2.0335	127.6	-0.7838
Sr 216.596	-0.0508	ppb	0.0854	168.0	10.5202
Ti 334.941	-0.0333	ppb	0.0166	50.0	-70.0036
Tl 190.794	-2.1166	ppb	2.9674	140.2	-3.0698
V 292.401	-0.3008	ppb	0.3407	113.2	-2.6508
Zn 206.200	2.9243	ppb	1.2528	42.8	6.3258



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ics 680-271101/2-a (Samp)      3/29/2013, 4:24:29 PM      Rack 2, Tube 4  
 Weight: 1      Volume: 1      Dilution: 1

Label	Replicates Concentration		
Ag 328.068	17.5023	18.3424	18.5813
Al 308.215	9704.04	9657.16	9646.40
As 188.980	208.032	206.346	202.043
B 249.678	398.657	399.593	402.850
Ba 389.178	196.659	196.139	196.405
Be 313.042	102.792	102.298	102.280
Ca 370.602	9591	9545	9531
Cd 226.502	102.398	101.168	101.421
Co 228.615	100.944	99.8013	99.5548
Cr 267.716	203.267	202.346	201.173
Cu 324.754	194.253	194.705	196.123
Fe 271.441	10002.3	9969.79	9940.38
K 766.491	9883.57	9864.45	9852.85
Mg 279.078	10031.9	9990.02	9970.18
Mn 257.610	1026.12	1020.73	1018.73
Mo 202.032	201.921	200.974	201.755
Na 330.237	9521.81	9524.13	9359.53
Ni 231.604	200.781	198.109	202.390
Pb 220.353	96.9209	101.214	97.9505
Sb 206.834	96.6393	105.913	99.6475
Se 196.026	194.109	193.825	191.580
Sn 189.925	402.929	402.230	399.116
Sr 216.596	206.676	206.245	204.936
Ti 334.941	200.272	199.266	199.092
Tl 190.794	89.3219	78.8405	81.2877
V 292.401	199.877	199.216	198.198
Zn 206.200	197.402	195.869	199.797

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	18.1420	ppb	0.5667	3.1	1231.14
Al 308.215	9669.20	ppb	30.6466	0.3	56139.7
As 188.980	205.474	ppb	3.0884	1.5	135.383
B 249.678	400.367	ppb	2.2010	0.5	3911.81
Ba 389.178	196.401	ppb	0.2597	0.1	4087.64
Be 313.042	102.457	ppb	0.2904	0.3	197879
Ca 370.602	9556	ppb	31.31	0.3	30031
Cd 226.502	101.662	ppb	0.6495	0.6	3667.70
Co 228.615	100.100	ppb	0.7410	0.7	1157.63
Cr 267.716	202.262	ppb	1.0497	0.5	8457.58
Cu 324.754	195.027	ppb	0.9759	0.5	9624.57
Fe 271.441	9970.82	ppb	30.9610	0.3	16802.0
K 766.491	9866.96	ppb	15.5106	0.2	473579
Mg 279.078	9997.37	ppb	31.5252	0.3	20645.2
Mn 257.610	1021.86	ppb	3.8237	0.4	235390
Mo 202.032	201.550	ppb	0.5059	0.3	1305.31
Na 330.237	9468.49	ppb	94.3681	1.0	477.385
Ni 231.604	200.427	ppb	2.1621	1.1	474.396
Pb 220.353	98.6953	ppb	2.2415	2.3	162.493
Sb 206.834	100.733	ppb	4.7313	4.7	63.4655
Se 196.026	193.171	ppb	1.3854	0.7	62.7622
Sn 189.925	401.425	ppb	2.0298	0.5	300.891
Sr 216.596	205.952	ppb	0.9061	0.4	1928.79
Ti 334.941	199.543	ppb	0.6367	0.3	50492.7
Tl 190.794	83.1501	ppb	5.4833	6.6	51.4273
V 292.401	199.097	ppb	0.8460	0.4	5412.01
Zn 206.200	197.689	ppb	1.9793	1.0	306.890

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ics 680-271101/3-a (Samp)      3/29/2013, 4:29:53 PM      Rack 2, Tube 5  
 Weight: 1      Volume: 1      Dilution: 1

Label	Replicates Concentration		
Ag 328.068	410.975	411.685	414.977
Al 308.215	3940.00	3933.09	3930.71
As 188.980	428.556	426.284	431.986
B 249.678	813.390	818.080	825.144
Ba 389.178	365.749	366.363	367.268
Be 313.042	401.722	400.574	400.431
Ca 370.602	38764	38711	38717
Cd 226.502	398.076	397.550	397.642
Co 228.615	396.066	392.632	396.748
Cr 267.716	405.095	404.580	403.740
Cu 324.754	397.578	396.252	401.048
Fe 271.441	41617.1	41552.8	41549.7
K 766.491	39682.7x	39701.6x	39778.6x
Mg 279.078	40360.3	40313.1	40339.7
Mn 257.610	3991.55	3974.60	3985.52
Mo 202.032	405.399	404.793	402.312
Na 330.237	35094.9	34936.3	34794.6
Ni 231.604	396.505	396.531	395.815
Pb 220.353	400.797	395.607	389.484
Sb 206.834	376.792	380.907	384.670
Se 196.026	405.006	404.325	395.549
Sn 189.925	402.627	401.489	400.944
Sr 216.596	430.912	430.128	428.145
Ti 334.941	395.238	394.544	394.691
Tl 190.794	82.4186	95.1037	94.2241
V 292.401	401.071	401.090	400.176
Zn 206.200	378.783	374.733	373.684

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	412.546b	ppb	2.1354	0.5	29297.2
Al 308.215	3934.60b	ppb	4.8247	0.1	23038.8
As 188.980	428.942b	ppb	2.8707	0.7	283.385
B 249.678	818.871b	ppb	5.9172	0.7	7802.64
Ba 389.178	366.460b	ppb	0.7642	0.2	7655.37
Be 313.042	400.909b	ppb	0.7080	0.2	774796
Ca 370.602	38730b	ppb	29.11	0.1	121554
Cd 226.502	397.756b	ppb	0.2810	0.1	14329.3
Co 228.615	395.149b	ppb	2.2062	0.6	4526.18
Cr 267.716	404.471b	ppb	0.6838	0.2	16920.0
Cu 324.754	398.292b	ppb	2.4765	0.6	19567.6
Fe 271.441	41573.2b	ppb	38.0384	0.1	70037.1
K 766.491	39720.9xb	ppb	50.7870	0.1	1905763
Mg 279.078	40337.7b	ppb	23.6631	0.1	83223.7
Mn 257.610	3983.89b	ppb	8.5903	0.2	917453
Mo 202.032	404.168b	ppb	1.6356	0.4	2602.57
Na 330.237	34941.9b	ppb	150.226	0.4	1776.09
Ni 231.604	396.284b	ppb	0.4059	0.1	938.393
Pb 220.353	395.296b	ppb	5.6631	1.4	641.603
Sb 206.834	380.790b	ppb	3.9401	1.0	237.996
Se 196.026	401.627b	ppb	5.2745	1.3	131.063
Sn 189.925	401.686b	ppb	0.8586	0.2	301.106
Sr 216.596	429.728b	ppb	1.4264	0.3	4022.40
Ti 334.941	394.824b	ppb	0.3661	0.1	100051
Tl 190.794	90.5821b	ppb	7.0835	7.8	52.4912
V 292.401	400.779b	ppb	0.5219	0.1	10889.4
Zn 206.200	375.733b	ppb	2.6928	0.7	581.596

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**lb 680-270776/2-d (Samp)**                      **3/29/2013, 4:35:18 PM**                      **Rack 2, Tube 6**  
**Weight: 1**    **Volume: 1**    **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.0928u	-0.6530u	-0.0878u
Al 308.215	0.6694	0.9511	0.7614
As 188.980	-0.4266u	-4.5973u	-0.8210u
B 249.678	21.5486	19.0050	16.9289
Ba 389.178	0.5583	0.2411	-0.1066u
Be 313.042	-0.0491u	-0.0412u	-0.0326u
Ca 370.602	82.36	82.28	79.84
Cd 226.502	-0.2209u	0.3674	0.0486
Co 228.615	-0.7605u	-0.6298u	-0.4218u
Cr 267.716	-0.1263u	-0.1501u	0.1240
Cu 324.754	-0.0363u	0.2052	-0.0522u
Fe 271.441	6.9659	1.2821	-5.2472u
K 766.491	31.9233	31.2001	30.2677
Mg 279.078	12.6508	15.6736	18.4712
Mn 257.610	-0.1196u	-0.1374u	-0.1147u
Mo 202.032	-0.1469u	-0.2464u	0.1386
Na 330.237	113331x	113488x	112729x
Ni 231.604	0.8535	0.0180	0.5163
Pb 220.353	-0.9765u	-1.1610u	1.5690
Sb 206.834	4.8951	-3.0003u	6.0280
Se 196.026	9.0651	12.7414	-11.2130u
Sn 189.925	-2.0956u	-3.4892u	0.6482
Sr 216.596	0.3335	0.4964	0.5481
Ti 334.941	0.0366	0.0190u	0.0887
Tl 190.794	4.4282	4.9714	1.1982
V 292.401	-0.0185u	-0.3741u	-0.2906u
Zn 206.200	4.0235	3.6963	3.3543

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.2779b	ppb	0.3249	116.9	-76.3503
Al 308.215	0.7940b	ppb	0.1436	18.1	270.977
As 188.980	-1.9483b	ppb	2.3025	118.2	-2.0413
B 249.678	19.1608b	ppb	2.3138	12.1	350.128
Ba 389.178	0.2309b	ppb	0.3326	144.0	1.2847
Be 313.042	-0.0410b	ppb	0.0083	20.2	-241.321
Ca 370.602	81.49b	ppb	1.432	1.8	255.4
Cd 226.502	0.0650b	ppb	0.2945	452.8	10.7309
Co 228.615	-0.6040b	ppb	0.1708	28.3	8.6823
Cr 267.716	-0.0508b	ppb	0.1519	299.0	2.9154
Cu 324.754	0.0389b	ppb	0.1442	371.0	92.1584
Fe 271.441	1.0003b	ppb	6.1115	611.0	4.9037
K 766.491	31.1304b	ppb	0.8300	2.7	1725.27
Mg 279.078	15.5985b	ppb	2.9110	18.7	61.4301
Mn 257.610	-0.1239b	ppb	0.0119	9.6	63.8862
Mo 202.032	-0.0849b	ppb	0.1999	235.5	13.3902
Na 330.237	113183xb	ppb	400.608	0.4	5821.31
Ni 231.604	0.4626b	ppb	0.4204	90.9	1.0816
Pb 220.353	-0.1895b	ppb	1.5257	805.1	3.2010
Sb 206.834	2.6409b	ppb	4.9182	186.2	2.6118
Se 196.026	3.5312b	ppb	12.9005	365.3	0.9708
Sn 189.925	-1.6455b	ppb	2.1051	127.9	-0.7860
Sr 216.596	0.4594b	ppb	0.1120	24.4	15.2947
Ti 334.941	0.0481b	ppb	0.0363	75.4	-57.4895
Tl 190.794	3.5326b	ppb	2.0398	57.7	0.6247
V 292.401	-0.2277b	ppb	0.1859	81.6	-1.6042
Zn 206.200	3.6913b	ppb	0.3346	9.1	75.5119

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680-88640-a-1-j (Samp)                      3/29/2013, 4:40:43 PM                      Rack 2, Tube 7  
 Weight: 1                                      Volume: 1                                      Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.1805u	-0.3461u	-0.7811u
Al 308.215	7.9238	6.7321	4.8224
As 188.980	2.5329	-1.3781u	3.6211
B 249.678	1.2348	0.6654	0.0907
Ba 389.178	26.0400	25.8943	26.0466
Be 313.042	-0.0254u	-0.0302u	-0.0286u
Ca 370.602	26217	26212	26218
Cd 226.502	0.8401	0.7857	0.6918
Co 228.615	0.2330	0.8090	0.3097
Cr 267.716	-0.0925u	0.1799	0.2856
Cu 324.754	8.9558	8.5562	8.9270
Fe 271.441	44.3767	41.0798	47.5307
K 766.491	332.114	331.002	332.837
Mg 279.078	301.911	306.845	303.728
Mn 257.610	46.0447	45.9866	46.1050
Mo 202.032	0.2480	0.7128	0.9290
Na 330.237	117098x	117115x	117291x
Ni 231.604	0.7502	2.9870	-1.2460u
Pb 220.353	10.0201	9.4328	9.6300
Sb 206.834	3.4630	9.4839	-1.9901u
Se 196.026	15.4214	15.8191	-6.5872u
Sn 189.925	-2.1818u	-1.4955u	-1.5907u
Sr 216.596	48.6507	48.2001	48.3261
Ti 334.941	0.1634	0.1284	0.1417
Tl 190.794	-0.4932u	1.6185	-4.5657u
V 292.401	-0.4711u	-0.0519u	-0.5208u
Zn 206.200	88.5527	88.8818	87.7757

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.4359b	ppb	0.3102	71.2	-89.4657
Al 308.215	6.4928b	ppb	1.5645	24.1	303.977
As 188.980	1.5920b	ppb	2.6291	165.1	0.5402
B 249.678	0.6636b	ppb	0.5720	86.2	176.818
Ba 389.178	25.9936b	ppb	0.0861	0.3	536.465
Be 313.042	-0.0281b	ppb	0.0025	8.8	-207.765
Ca 370.602	26216b	ppb	3.004	0.0	84468
Cd 226.502	0.7725b	ppb	0.0750	9.7	36.1052
Co 228.615	0.4506b	ppb	0.3128	69.4	20.7106
Cr 267.716	0.1243b	ppb	0.1951	156.9	10.4718
Cu 324.754	8.8130b	ppb	0.2229	2.5	520.845
Fe 271.441	44.3291b	ppb	3.2257	7.3	77.8755
K 766.491	331.984b	ppb	0.9242	0.3	16158.1
Mg 279.078	304.161b	ppb	2.4958	0.8	656.259
Mn 257.610	46.0455b	ppb	0.0592	0.1	10693.2
Mo 202.032	0.6299b	ppb	0.3480	55.2	17.9711
Na 330.237	117168xb	ppb	106.952	0.1	6025.79
Ni 231.604	0.8304b	ppb	2.1176	255.0	1.9526
Pb 220.353	9.6943b	ppb	0.2989	3.1	19.1664
Sb 206.834	3.6523b	ppb	5.7394	157.1	3.2334
Se 196.026	8.2178b	ppb	12.8230	156.0	2.5005
Sn 189.925	-1.7560b	ppb	0.3718	21.2	-0.8575
Sr 216.596	48.3923b	ppb	0.2325	0.5	465.018
Ti 334.941	0.1445b	ppb	0.0177	12.2	-32.1857
Tl 190.794	-1.1468b	ppb	3.1435	274.1	-2.4817
V 292.401	-0.3479b	ppb	0.2576	74.0	-5.0572
Zn 206.200	88.4034b	ppb	0.5680	0.6	128.504

E03292013.vvq. All Data Report 3/30/2013, 8:54:32 AM

**680-88640-a-1-k ms (Samp)**      **3/29/2013, 4:46:19 PM**      **Rack 2, Tube 8**  
**Weight: 1**      **Volume: 1**      **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	59.5447	60.0640	60.4755
Al 308.215	781.208	784.314	788.337
As 188.980	88.3955	87.8172	83.6453
B 249.678	156.158	156.811	159.115
Ba 389.178	94.8110	93.7723	93.7386
Be 313.042	79.9489	80.0922	80.2018
Ca 370.602	28809	28845	28911
Cd 226.502	79.5258	79.7186	79.5032
Co 228.615	79.2459	78.7168	78.3440
Cr 267.716	79.3319	79.9569	80.1859
Cu 324.754	83.9937	86.1427	84.8635
Fe 271.441	7869.27	7872.85	7880.84
K 766.491	8474.24	8464.04	8464.19
Mg 279.078	8003.83	8026.39	8039.46
Mn 257.610	841.058	840.141	840.779
Mo 202.032	78.3016	79.6963	78.4563
Na 330.237	101825x	101503x	101688x
Ni 231.604	77.6680	78.6209	79.0491
Pb 220.353	86.5178	87.7730	85.5883
Sb 206.834	65.2145	68.4907	73.2864
Se 196.026	83.1327	95.0587	81.7267
Sn 189.925	79.4696	75.2139	77.2312
Sr 216.596	119.970	119.376	120.797
Ti 334.941	78.1444	78.5009	78.6950
Tl 190.794	21.4522	16.0675	15.6060
V 292.401	78.9919	78.8016	79.3727
Zn 206.200	149.894	149.724	148.649

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	60.0280b	ppb	0.4664	0.8	4213.39
Al 308.215	784.620b	ppb	3.5746	0.5	4807.37
As 188.980	86.6193b	ppb	2.5918	3.0	56.8232
B 249.678	157.361b	ppb	1.5537	1.0	1637.38
Ba 389.178	94.1073b	ppb	0.6097	0.6	1960.22
Be 313.042	80.0810b	ppb	0.1268	0.2	154642
Ca 370.602	28855b	ppb	51.75	0.2	92364
Cd 226.502	79.5825b	ppb	0.1183	0.1	2872.72
Co 228.615	78.7689b	ppb	0.4532	0.6	914.781
Cr 267.716	79.8249b	ppb	0.4420	0.6	3343.49
Cu 324.754	85.0000b	ppb	1.0810	1.3	4246.52
Fe 271.441	7874.32b	ppb	5.9244	0.1	13268.9
K 766.491	8467.49b	ppb	5.8487	0.1	406442
Mg 279.078	8023.23b	ppb	18.0237	0.2	16575.9
Mn 257.610	840.659b	ppb	0.4704	0.1	193664
Mo 202.032	78.8181b	ppb	0.7645	1.0	518.761
Na 330.237	101672xb	ppb	161.710	0.2	5224.80
Ni 231.604	78.4460b	ppb	0.7070	0.9	185.742
Pb 220.353	86.6264b	ppb	1.0964	1.3	143.355
Sb 206.834	68.9972b	ppb	4.0597	5.9	43.9592
Se 196.026	86.6394b	ppb	7.3252	8.5	28.1279
Sn 189.925	77.3049b	ppb	2.1288	2.8	58.3173
Sr 216.596	120.048b	ppb	0.7140	0.6	1133.39
Ti 334.941	78.4468b	ppb	0.2792	0.4	19822.9
Tl 190.794	17.7086b	ppb	3.2503	18.4	8.8554
V 292.401	79.0554b	ppb	0.2908	0.4	2151.80
Zn 206.200	149.422b	ppb	0.6751	0.5	232.619

E03292013.vvq. All Data Report 3/30/2013, 8:54:32 AM

680-88640-a-1-1 msd (Samp)      3/29/2013, 4:51:45 PM      Rack 2, Tube 9  
 Weight: 1      Volume: 1      Dilution: 1

Label	Replicates Concentration		
Ag 328.068	70.7267	69.6856	68.3991
Al 308.215	804.929	799.108	806.093
As 188.980	83.5409	84.2118	78.3403
B 249.678	161.494	163.851	164.725
Ba 389.178	97.0441	95.6841	94.9778
Be 313.042	82.3516	82.2029	82.2174
Ca 370.602	29104	29105	29119
Cd 226.502	81.7991	81.3718	82.2418
Co 228.615	80.1252	80.5669	78.8518
Cr 267.716	81.6784	82.1821	81.9180
Cu 324.754	88.4187	89.2032	85.9511
Fe 271.441	8118.80	8073.10	8079.43
K 766.491	8742.99	8686.45	8686.43
Mg 279.078	8248.94	8244.14	8244.35
Mn 257.610	863.123	862.197	861.278
Mo 202.032	81.1965	80.7866	80.1438
Na 330.237	102823x	102818x	102738x
Ni 231.604	82.9070	79.4315	81.0858
Pb 220.353	88.8226	88.9013	90.7571
Sb 206.834	74.3426	81.2998	81.1459
Se 196.026	86.6535	97.0426	84.7833
Sn 189.925	77.3987	73.8112	81.9643
Sr 216.596	120.795	122.414	121.511
Ti 334.941	80.1619	80.2147	80.2263
Tl 190.794	19.6757	20.8501	19.4395
V 292.401	81.5996	80.7341	81.4392
Zn 206.200	151.679	154.689	151.001

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	69.6038b	ppb	1.1660	1.7	4894.70
Al 308.215	803.377b	ppb	3.7424	0.5	4915.95
As 188.980	82.0310b	ppb	3.2138	3.9	53.7812
B 249.678	163.357b	ppb	1.6714	1.0	1693.34
Ba 389.178	95.9020b	ppb	1.0502	1.1	1997.75
Be 313.042	82.2573b	ppb	0.0820	0.1	158848
Ca 370.602	29109b	ppb	8.590	0.0	93167
Cd 226.502	81.8042b	ppb	0.4350	0.5	2952.66
Co 228.615	79.8480b	ppb	0.8905	1.1	927.092
Cr 267.716	81.9262b	ppb	0.2519	0.3	3431.39
Cu 324.754	87.8577b	ppb	1.6971	1.9	4386.23
Fe 271.441	8090.44b	ppb	24.7637	0.3	13632.9
K 766.491	8705.29b	ppb	32.6474	0.4	417850
Mg 279.078	8245.81b	ppb	2.7117	0.0	17035.0
Mn 257.610	862.199b	ppb	0.9225	0.1	198624
Mo 202.032	80.7089b	ppb	0.5306	0.7	530.870
Na 330.237	102793xb	ppb	47.5551	0.0	5282.42
Ni 231.604	81.1415b	ppb	1.7384	2.1	192.123
Pb 220.353	89.4937b	ppb	1.0949	1.2	147.983
Sb 206.834	78.9294b	ppb	3.9731	5.0	50.1077
Se 196.026	89.4931b	ppb	6.6046	7.4	29.0590
Sn 189.925	77.7247b	ppb	4.0863	5.3	58.6320
Sr 216.596	121.573b	ppb	0.8110	0.7	1147.64
Ti 334.941	80.2010b	ppb	0.0343	0.0	20267.8
Tl 190.794	19.9884b	ppb	0.7555	3.8	10.3194
V 292.401	81.2576b	ppb	0.4604	0.6	2211.62
Zn 206.200	152.456b	ppb	1.9632	1.3	227.304

E03292013.wvq. All Data Report 3/30/2013, 8:54:32 AM

lb2 680-270512/14-h (Samp) 3/29/2013, 4:57:11 PM Rack 2, Tube 10

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.0640u	-0.4020u	-0.6646u
Al 308.215	2.2423	3.4720	-0.3977u
As 188.980	-3.2193u	6.7390	-2.9672u
B 249.678	4.3897	4.2658	3.3202
Ba 389.178	-0.1039u	-0.6541u	-0.0020u
Be 313.042	-0.0534u	-0.0491u	-0.0560u
Ca 370.602	66.07	61.43	66.55
Cd 226.502	0.1096	-0.0576u	0.0159
Co 228.615	-0.6321u	-0.6907u	-0.7477u
Cr 267.716	-0.1940u	-0.0844u	0.0827
Cu 324.754	0.4936	-0.8076u	0.1773
Fe 271.441	-4.2812u	4.6300	2.2255
K 766.491	67.7546	67.9241	67.3247
Mg 279.078	10.9405	12.2847	12.2290
Mn 257.610	-0.1012u	-0.1311u	-0.1656u
Mo 202.032	-0.2840u	-0.6013u	-0.1623u
Na 330.237	685.716	568.029	438.194
Ni 231.604	-0.5814u	-1.4239u	0.4578
Pb 220.353	-4.1644u	0.0106	-1.1614u
Sb 206.834	-4.3090u	-2.4564u	1.4291
Se 196.026	6.2644	-9.5580u	-5.4303u
Sn 189.925	-0.3191u	-3.7937u	0.6745
Sr 216.596	0.3277	-0.5576u	0.0954
Ti 334.941	-0.0348u	-0.0756u	-0.0896u
Tl 190.794	3.5228	2.8310	0.0779
V 292.401	-0.0564u	-0.5134u	-0.2703u
Zn 206.200	1.4532	0.5900	0.7371

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.3769	ppb	0.3011	79.9	-83.4060
Al 308.215	1.7722	ppb	1.9772	111.6	276.597
As 188.980	0.1842	ppb	5.6780	3083.1	-0.6278
B 249.678	3.9919	ppb	0.5850	14.7	208.031
Ba 389.178	-0.2533	ppb	0.3508	138.5	-8.7751
Be 313.042	-0.0528	ppb	0.0035	6.6	-250.510
Ca 370.602	64.69	ppb	2.826	4.4	201.3
Cd 226.502	0.0226	ppb	0.0838	370.3	9.8321
Co 228.615	-0.6902	ppb	0.0578	8.4	7.7050
Cr 267.716	-0.0652	ppb	0.1394	213.7	0.5250
Cu 324.754	-0.0456	ppb	0.6786	1489.3	88.0267
Fe 271.441	0.8581	ppb	4.6103	537.3	4.6793
K 766.491	67.6678	ppb	0.3090	0.5	3478.08
Mg 279.078	11.8181	ppb	0.7605	6.4	53.6276
Mn 257.610	-0.1326	ppb	0.0322	24.3	62.4773
Mo 202.032	-0.3492	ppb	0.2267	64.9	11.6955
Na 330.237	563.980	ppb	123.811	22.0	25.0883
Ni 231.604	-0.5158	ppb	0.9426	182.7	-1.2335
Pb 220.353	-1.7718	ppb	2.1534	121.5	0.6469
Sb 206.834	-1.7788	ppb	2.9285	164.6	-0.1182
Se 196.026	-2.9080	ppb	8.2073	282.2	-1.1203
Sn 189.925	-1.1461	ppb	2.3461	204.7	-0.4490
Sr 216.596	-0.0449	ppb	0.4590	1023.4	10.5979
Ti 334.941	-0.0666	ppb	0.0285	42.8	-78.4268
Tl 190.794	2.1439	ppb	1.8223	85.0	-0.2836
V 292.401	-0.2800	ppb	0.2286	81.6	-2.0768
Zn 206.200	0.9267	ppb	0.4618	49.8	2.2371

E03292013.wvq. All Data Report 3/30/2013, 8:54:32 AM

660-53391-a-1-m (Samp) 3/29/2013, 5:02:37 PM Rack 2, Tube 11

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.9214u	-0.8371u	-0.5699u
Al 308.215	28.7533	29.6436	30.7061
As 188.980	-3.7729u	0.9723	6.2264
B 249.678	-1.8082u	-0.0052u	-0.4608u
Ba 389.178	12.1241	13.9077	13.0729
Be 313.042	-0.0535u	-0.0594u	-0.0469u
Ca 370.602	32216	32143	32111
Cd 226.502	0.1292	0.2680	0.1643
Co 228.615	-0.0891u	-0.8981u	0.2886
Cr 267.716	0.0874	-0.0694u	0.2221
Cu 324.754	-0.0921u	-0.1287u	-0.0871u
Fe 271.441	13.8288	10.3663	12.3622
K 766.491	505.773	505.943	502.937
Mg 279.078	1518.47	1519.73	1519.30
Mn 257.610	49.7256	49.7322	49.6741
Mo 202.032	-0.3136u	0.2614	-1.0828u
Na 330.237	1485.08	1300.02	1331.81
Ni 231.604	0.4741	1.1647	-0.9584u
Pb 220.353	-1.2397u	-0.2232u	3.4126
Sb 206.834	1.6031	-0.8124u	3.2422
Se 196.026	9.3133	-4.1064u	-10.1448u
Sn 189.925	-2.2650u	0.2456	-3.9468u
Sr 216.596	192.747	192.590	192.459
Ti 334.941	0.0310	-0.0177	0.0952
Tl 190.794	2.9210	-2.0642u	2.6083
V 292.401	0.0650	-0.5269u	-0.9173u
Zn 206.200	180.346	178.712	179.498

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.7761	ppb	0.1835	23.6	-119.716
Al 308.215	29.7010	ppb	0.9777	3.3	437.904
As 188.980	1.1420	ppb	5.0018	438.0	0.2967
B 249.678	-0.7581	ppb	0.9376	123.7	163.530
Ba 389.178	13.0349	ppb	0.8924	6.8	267.885
Be 313.042	-0.0533	ppb	0.0063	11.8	-240.135
Ca 370.602	32157	ppb	53.73	0.2	103614
Cd 226.502	0.1872	ppb	0.0722	38.6	15.7466
Co 228.615	-0.2329	ppb	0.6063	260.3	12.9358
Cr 267.716	0.0800	ppb	0.1459	182.3	6.7934
Cu 324.754	-0.1027	ppb	0.0227	22.1	85.2377
Fe 271.441	12.1858	ppb	1.7380	14.3	23.8354
K 766.491	504.884	ppb	1.6886	0.3	24452.6
Mg 279.078	1519.17	ppb	0.6429	0.0	3163.77
Mn 257.610	49.7106	ppb	0.0318	0.1	11544.6
Mo 202.032	-0.3783	ppb	0.6744	178.3	11.5088
Na 330.237	1372.30	ppb	98.9547	7.2	65.3474
Ni 231.604	0.2268	ppb	1.0829	477.5	0.5238
Pb 220.353	0.6499	ppb	2.4460	376.3	4.5664
Sb 206.834	1.3443	ppb	2.0397	151.7	1.8139
Se 196.026	-1.6460	ppb	9.9597	605.1	-0.7023
Sn 189.925	-1.9887	ppb	2.1098	106.1	-1.0674
Sr 216.596	192.598	ppb	0.1443	0.1	1811.75
Ti 334.941	0.0362	ppb	0.0566	156.4	-46.2792
Tl 190.794	1.1550	ppb	2.7923	241.8	-0.9783
V 292.401	-0.4597	ppb	0.4946	107.6	-6.9711
Zn 206.200	179.519	ppb	0.8171	0.5	579.398



E03292013.vvq. All Data Report 3/30/2013, 8:54:32 AM

660-53391-a-1-n ms (Samp) 3/29/2013, 5:08:04 PM Rack 2, Tube 12

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	69.2620	68.5832	69.6357
Al 308.215	775.156	780.100	781.092
As 188.980	78.2436	76.6835	84.2536
B 249.678	150.590	152.949	153.978
Ba 389.178	81.3823	82.1968	82.0585
Be 313.042	78.2203	78.2345	78.0321
Ca 370.602	33948	33916	33842
Cd 226.502	77.1061	77.3097	77.1980
Co 228.615	76.1132	76.4683	75.9135
Cr 267.716	78.1485	78.0139	78.0391
Cu 324.754	77.3926	77.4115	76.1035
Fe 271.441	7691.90	7695.64	7693.23
K 766.491	7927.93	7947.79	7914.51
Mg 279.078	8880.67	8903.48	8887.73
Mn 257.610	829.222	829.381	828.641
Mo 202.032	77.0587	75.7550	76.1533
Na 330.237	7666.36	7640.83	7607.42
Ni 231.604	77.2686	79.0110	76.1833
Pb 220.353	78.6081	74.5732	74.3123
Sb 206.834	70.7126	71.1807	75.3801
Se 196.026	79.8857	86.4625	86.3814
Sn 189.925	66.6723	74.6997	74.0204
Sr 216.596	237.008	235.870	236.001
Ti 334.941	76.6855	76.4590	76.2180
Tl 190.794	16.1561	21.7688	16.1317
V 292.401	77.0968	76.5795	76.6547
Zn 206.200	222.832	224.637	224.570

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	69.1603	ppb	0.5335	0.8	4858.21
Al 308.215	778.782	ppb	3.1798	0.4	4773.34
As 188.980	79.7269	ppb	3.9970	5.0	52.3032
B 249.678	152.506	ppb	1.7367	1.1	1592.07
Ba 389.178	81.8792	ppb	0.4359	0.5	1706.54
Be 313.042	78.1623	ppb	0.1130	0.1	150947
Ca 370.602	33902	ppb	54.22	0.2	108641
Cd 226.502	77.2046	ppb	0.1019	0.1	2787.78
Co 228.615	76.1650	ppb	0.2810	0.4	885.076
Cr 267.716	78.0672	ppb	0.0716	0.1	3268.52
Cu 324.754	76.9692	ppb	0.7498	1.0	3854.07
Fe 271.441	7693.59	ppb	1.8976	0.0	12964.3
K 766.491	7930.08	ppb	16.7435	0.2	380661
Mg 279.078	8890.63	ppb	11.6782	0.1	18366.2
Mn 257.610	829.081	ppb	0.3897	0.0	191004
Mo 202.032	76.3223	ppb	0.6681	0.9	502.772
Na 330.237	7638.21	ppb	29.5574	0.4	384.608
Ni 231.604	77.4876	ppb	1.4265	1.8	183.471
Pb 220.353	75.8312	ppb	2.4084	3.2	125.929
Sb 206.834	72.4244	ppb	2.5703	3.5	46.0746
Se 196.026	84.2432	ppb	3.7740	4.5	27.3471
Sn 189.925	71.7975	ppb	4.4515	6.2	54.1660
Sr 216.596	236.293	ppb	0.6225	0.3	2219.05
Ti 334.941	76.4542	ppb	0.2338	0.3	19328.8
Tl 190.794	18.0189	ppb	3.2476	18.0	9.0748
V 292.401	76.7770	ppb	0.2795	0.4	2090.76
Zn 206.200	224.013	ppb	1.0232	0.5	347.967

E03292013.vvq. All Data Report 3/30/2013, 8:54:32 AM

Cont Calib Verif (CCV)                      3/29/2013, 5:13:29 PM                      Rack 2, Tube 13  
 Weight: 1                                      Volume: 1                                      Dilution: 1

Label	Replicates Concentration		
Ag 328.068	492.461	492.713	492.106
Al 308.215	5006.01	4962.23	4991.14
As 188.980	514.865	516.093	520.893
B 249.678	559.592	557.129	566.861
Ba 389.178	4589.11	4561.58	4603.96
Be 313.042	474.323	470.187	473.064
Ca 370.602	4825	4798	4809
Cd 226.502	471.899	468.472	471.948
Co 228.615	470.356	467.266	471.118
Cr 267.716	4758.35	4716.57	4722.09
Cu 324.754	4547.41	4581.97	4594.46
Fe 271.441	5004.30	4978.27	5012.93
K 766.491	9805.04	9746.91	9811.54
Mg 279.078	4988.74	4938.79	4979.11
Mn 257.610	4702.12	4657.25	4685.89
Mo 202.032	492.193	485.849	489.484
Na 330.237	7159.43	7269.52	7556.57
Ni 231.604	2395.35	2373.83	2371.83
Pb 220.353	497.704	485.697	491.026
Sb 206.834	992.593	997.227	1003.31
Se 196.026	4887.94	4873.39	4937.71
Sn 189.925	5113.65	5006.78	4997.78
Sr 216.596	2479.18	2463.04	2462.10
Ti 334.941	497.151	493.499	494.244
Tl 190.794	5003.83	4955.40	4992.61
V 292.401	4912.00	4872.31	4908.09
Zn 206.200	2375.47	2349.42	2363.64

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	492.427	ppb	0.3046	0.1	34926.3	98.48531
Al 308.215	4986.46	ppb	22.2595	0.4	29045.1	99.72918
As 188.980	517.284	ppb	3.1857	0.6	342.019	103.45671
B 249.678	561.194	ppb	5.0601	0.9	5422.98	22.44775Q
Ba 389.178	4584.88	ppb	21.4994	0.5	95229.3	91.69762
Be 313.042	472.525	ppb	2.1204	0.4	913054	94.50494
Ca 370.602	4810	ppb	13.47	0.3	15350	96.20811
Cd 226.502	470.773	ppb	1.9932	0.4	16862.3	94.15462
Co 228.615	469.580	ppb	2.0401	0.4	5388.00	93.91595
Cr 267.716	4732.34	ppb	22.6980	0.5	197692	94.64674
Cu 324.754	4574.61	ppb	24.3687	0.5	223549	91.49223
Fe 271.441	4998.50	ppb	18.0440	0.4	8533.26	99.97000
K 766.491	9787.83	ppb	35.5850	0.4	469783	97.87827
Mg 279.078	4968.88	ppb	26.4963	0.5	10210.1	99.37759
Mn 257.610	4681.75	ppb	22.7174	0.5	1077781	93.63502
Mo 202.032	489.175	ppb	3.1830	0.7	3141.70	97.83508
Na 330.237	7328.51	ppb	205.038	2.8	350.309	97.71341
Ni 231.604	2380.34	ppb	13.0414	0.5	5632.07	95.21351
Pb 220.353	491.476	ppb	6.0161	1.2	796.821	98.29511
Sb 206.834	997.710	ppb	5.3749	0.5	644.824	99.77101
Se 196.026	4899.68	ppb	33.7324	0.7	1591.81	97.99359
Sn 189.925	5039.40	ppb	64.4573	1.3	3772.52	100.78799
Sr 216.596	2468.10	ppb	9.5993	0.4	23003.1	98.72419
Ti 334.941	494.965	ppb	1.9296	0.4	125255	98.99298
Tl 190.794	4983.95	ppb	25.3511	0.5	3255.16	99.67899
V 292.401	4897.47	ppb	21.8769	0.4	133802	97.94935
Zn 206.200	2362.84	ppb	13.0447	0.6	3641.38	94.51371

E03292013.wvq. All Data Report 3/30/2013, 8:54:32 AM

Cont Calib Blank (CCB)                      3/29/2013, 5:18:54 PM                      Rack 2, Tube 14  
 Weight: 1    Volume: 1    Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.6862u	-0.5141u	-0.3803u
Al 308.215	-1.5983u	-1.9222u	-3.8438u
As 188.980	-2.0884u	1.1227	5.7658
B 249.678	2.8077	2.6273	1.0412
Ba 389.178	-0.0005u	0.0632	0.6768
Be 313.042	-0.0518u	-0.0481u	-0.0446u
Ca 370.602	-2.751u	0.3093	8.273
Cd 226.502	0.0910	0.1709	-0.0080u
Co 228.615	-0.9291u	-0.3279u	-0.0210u
Cr 267.716	-0.0275u	-0.2314u	-0.0926u
Cu 324.754	-0.4349u	-0.4864u	-0.9395u
Fe 271.441	-5.4045u	1.5145	-6.6299u
K 766.491	-1.2083u	-0.8929u	-1.2938u
Mg 279.078	-3.3995u	-6.2411u	3.0699
Mn 257.610	-0.2532u	-0.2419u	-0.2377u
Mo 202.032	0.4151	-0.2107u	-0.1616u
Na 330.237	232.941	-28.8645u	70.6488
Ni 231.604	0.9868	-0.2589u	0.1004
Pb 220.353	-1.8720u	1.3908	2.5669
Sb 206.834	7.2864	1.5441	3.5247
Se 196.026	2.1765	7.3043	8.4701
Sn 189.925	-1.9304u	0.8013	-1.9910u
Sr 216.596	-0.2530u	-0.3028u	0.2314
Ti 334.941	0.0420	-0.0113u	0.0259
Tl 190.794	5.0587	-2.2677u	5.6320
V 292.401	-0.3594u	0.2337	-0.3264u
Zn 206.200	-0.2495u	0.0619	-1.8754u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	-0.5269	ppb	0.1533	29.1	-94.0533	-0.52689
Al 308.215	-2.4548	ppb	1.2138	49.4	252.256	-2.45478
As 188.980	1.6000	ppb	3.9488	246.8	0.3102	1.60005
B 249.678	2.1587	ppb	0.9720	45.0	190.865	2.15872
Ba 389.178	0.2465	ppb	0.3740	151.7	1.5965	0.24649
Be 313.042	-0.0482	ppb	0.0036	7.5	-241.624	-0.04820
Ca 370.602	1.944	ppb	5.690	292.8	-0.3228	1.94380
Cd 226.502	0.0846	ppb	0.0896	105.9	12.0379	0.08463
Co 228.615	-0.4260	ppb	0.4619	108.4	10.7070	-0.42600
Cr 267.716	-0.1171	ppb	0.1042	88.9	-1.6557	-0.11714
Cu 324.754	-0.6203	ppb	0.2776	44.8	59.9619	-0.62027
Fe 271.441	-3.5066	ppb	4.3914	125.2	-2.6460	-3.50663
K 766.491	-1.1317	ppb	0.2111	18.7	177.561	-1.13166
Mg 279.078	-2.1902	ppb	4.7718	217.9	24.7185	-2.19022
Mn 257.610	-0.2443	ppb	0.0080	3.3	36.6834	-0.24427
Mo 202.032	0.0143	ppb	0.3480	2438.1	14.0260	0.01427
Na 330.237	91.5751	ppb	132.151	144.3	0.7877	91.57513
Ni 231.604	0.2761	ppb	0.6412	232.2	0.6401	0.27608
Pb 220.353	0.6952	ppb	2.2997	330.8	4.6289	0.69525
Sb 206.834	4.1184	ppb	2.9168	70.8	3.5214	4.11838
Se 196.026	5.9836	ppb	3.3482	56.0	1.7672	5.98364
Sn 189.925	-1.0400	ppb	1.5949	153.4	-0.3699	-1.04004
Sr 216.596	-0.1081	ppb	0.2951	272.9	9.9840	-0.10812
Ti 334.941	0.0189	ppb	0.0274	145.0	-56.7987	0.01887
Tl 190.794	2.8077	ppb	4.4047	156.9	0.1509	2.80766
V 292.401	-0.1507	ppb	0.3333	221.2	1.3619	-0.15067
Zn 206.200	-0.6877	ppb	1.0403	151.3	0.57408	-0.68766

E03292013.vvq. All Data Report 3/30/2013, 8:54:32 AM

660-53391-a-1-o msd (Samp) 3/29/2013, 5:24:19 PM Rack 2, Tube 15

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	68.9378	67.8304	68.8632
Al 308.215	778.180	781.738	775.907
As 188.980	75.9552	82.5320	86.2456
B 249.678	155.218	157.804	155.940
Ba 389.178	80.9299	80.1390	82.5677
Be 313.042	77.9105	78.0071	77.8533
Ca 370.602	34247	34256	34137
Cd 226.502	77.1660	76.8310	76.7334
Co 228.615	76.8688	75.5441	76.7239
Cr 267.716	78.0499	78.2405	77.8860
Cu 324.754	75.7477	76.9152	75.6617
Fe 271.441	7659.37	7678.88	7657.84
K 766.491	7878.96	7906.55	7906.82
Mg 279.078	8888.14	8912.83	8868.48
Mn 257.610	826.571	827.360	824.159
Mo 202.032	77.0196	76.3328	76.3263
Na 330.237	7633.95	7629.51	7741.81
Ni 231.604	77.2374	77.1314	74.4369
Pb 220.353	76.5169	75.4227	76.8606
Sb 206.834	71.7638	79.3636	62.5802
Se 196.026	77.9256	80.3910	80.3694
Sn 189.925	70.4286	75.7708	75.5085
Sr 216.596	238.345	238.744	235.958
Ti 334.941	76.4230	76.4747	76.2834
Tl 190.794	30.5525	18.0782	21.8439
V 292.401	76.5082	76.6026	77.1756
Zn 206.200	221.569	226.775	226.653

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	68.5438	ppb	0.6190	0.9	4814.30
Al 308.215	778.608	ppb	2.9389	0.4	4772.36
As 188.980	81.5776	ppb	5.2112	6.4	53.5328
B 249.678	156.321	ppb	1.3344	0.9	1627.83
Ba 389.178	81.2122	ppb	1.2387	1.5	1692.68
Be 313.042	77.9237	ppb	0.0778	0.1	150485
Ca 370.602	34213	ppb	66.39	0.2	109646
Cd 226.502	76.9101	ppb	0.2269	0.3	2777.19
Co 228.615	76.3789	ppb	0.7266	1.0	887.510
Cr 267.716	78.0588	ppb	0.1774	0.2	3268.15
Cu 324.754	76.1082	ppb	0.7003	0.9	3812.01
Fe 271.441	7665.36	ppb	11.7349	0.2	12916.8
K 766.491	7897.44	ppb	16.0077	0.2	379096
Mg 279.078	8889.82	ppb	22.2216	0.2	18364.6
Mn 257.610	826.030	ppb	1.6678	0.2	190302
Mo 202.032	76.5596	ppb	0.3984	0.5	504.295
Na 330.237	7668.43	ppb	63.5933	0.8	386.163
Ni 231.604	76.2686	ppb	1.5871	2.1	180.586
Pb 220.353	76.2667	ppb	0.7509	1.0	126.632
Sb 206.834	71.2359	ppb	8.4041	11.8	45.3357
Se 196.026	79.5620	ppb	1.4172	1.8	25.8263
Sn 189.925	73.9026	ppb	3.0115	4.1	55.7418
Sr 216.596	237.682	ppb	1.5067	0.6	2232.03
Ti 334.941	76.3937	ppb	0.0990	0.1	19313.5
Tl 190.794	23.4915	ppb	6.3983	27.2	12.6580
V 292.401	76.7621	ppb	0.3612	0.5	2090.33
Zn 206.200	224.999	ppb	2.9708	1.3	349.492

E03292013.wvq. All Data Report 3/30/2013, 8:54:32 AM

680-88622-a-1-b (Samp)                      3/29/2013, 5:29:43 PM                      Rack 2, Tube 16  
 Weight: 1    Volume: 1    Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.0930u	-0.7588u	-0.7457u
Al 308.215	10.5382	10.1096	14.1316
As 188.980	-0.5028u	-0.7552u	-4.5180u
B 249.678	37.4407	36.1870	37.1731
Ba 389.178	2.9122	2.6177	3.4814
Be 313.042	-0.0567u	-0.0580u	-0.0581u
Ca 370.602	31789	31820	31814
Cd 226.502	0.1916	0.2168	0.1637
Co 228.615	-0.5879u	-0.3421u	0.6386
Cr 267.716	42.2620	42.3992	41.8937
Cu 324.754	-0.4756u	-0.4725u	-0.5231u
Fe 271.441	55.5560	50.8137	48.8484
K 766.491	743.711	743.767	745.924
Mg 279.078	295.261	294.603	293.756
Mn 257.610	5.6641	5.7262	5.6583
Mo 202.032	-0.1021u	0.1471	-0.1485u
Na 330.237	5621.49	5411.81	5611.71
Ni 231.604	1.4602	1.1764	-0.7444u
Pb 220.353	1.9506	3.2229	0.9946
Sb 206.834	-4.2719u	5.0269	5.4871
Se 196.026	6.6292	14.3880	-14.4543u
Sn 189.925	0.3095	-1.2398u	0.4095
Sr 216.596	120.631	120.630	119.636
Ti 334.941	0.0342	0.0720	0.0673
Tl 190.794	-1.0049u	3.1141	2.3128
V 292.401	-0.8564u	-0.7626u	-1.2023u
Zn 206.200	17525.5	17553.7	17543.1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.5325	ppb	0.3807	71.5	-99.4864
Al 308.215	11.5931	ppb	2.2088	19.1	333.354
As 188.980	-1.9253	ppb	2.2488	116.8	-1.7401
B 249.678	36.9336	ppb	0.6603	1.8	516.576
Ba 389.178	3.0038	ppb	0.4390	14.6	59.0247
Be 313.042	-0.0576	ppb	0.0008	1.3	-247.541
Ca 370.602	31808	ppb	16.66	0.1	102486
Cd 226.502	0.1907	ppb	0.0265	13.9	15.9364
Co 228.615	-0.0972	ppb	0.6489	667.9	14.6100
Cr 267.716	42.1850	ppb	0.2614	0.6	1765.51
Cu 324.754	-0.4904	ppb	0.0284	5.8	66.3177
Fe 271.441	51.7394	ppb	3.4483	6.7	90.4165
K 766.491	744.467	ppb	1.2617	0.2	35946.1
Mg 279.078	294.540	ppb	0.7547	0.3	637.036
Mn 257.610	5.6829	ppb	0.0377	0.7	1403.27
Mo 202.032	-0.0345	ppb	0.1590	460.8	13.7125
Na 330.237	5548.34	ppb	118.338	2.1	150.250
Ni 231.604	0.6307	ppb	1.1993	190.1	1.4953
Pb 220.353	2.0560	ppb	1.1179	54.4	6.8273
Sb 206.834	2.0807	ppb	5.5063	264.6	2.5199
Se 196.026	2.1876	ppb	14.9254	682.3	0.5356
Sn 189.925	-0.1736	ppb	0.9247	532.6	0.2913
Sr 216.596	120.299	ppb	0.5744	0.5	1136.81
Ti 334.941	0.0578	ppb	0.0206	35.6	-45.8548
Tl 190.794	1.4740	ppb	2.1839	148.2	-0.7290
V 292.401	-0.9405	ppb	0.2316	24.6	-22.7664
Zn 206.200	17540.8	ppb	14.2263	401.0	57125.4

E03292013.wvq. All Data Report 3/30/2013, 8:54:32 AM

680-88652-a-1-h (Samp)                      3/29/2013, 5:35:08 PM                      Rack 2, Tube 17  
 Weight: 1                                      Volume: 1                                      Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.8564u	-1.2693u	0.4337
Al 308.215	12.8279	10.8384	12.2447
As 188.980	-0.1591u	-0.0255u	3.6888
B 249.678	75.3470	74.9566	76.0918
Ba 389.178	13.8922	12.5843	14.5668
Be 313.042	-0.0650u	-0.0524u	-0.0561u
Ca 370.602	4931	4912	4918
Cd 226.502	-0.0130	0.0150	0.0336
Co 228.615	0.1388	-0.2661u	0.1747
Cr 267.716	4.0190	4.2180	3.6871
Cu 324.754	-1.0166u	0.0770	-0.5306u
Fe 271.441	3538.14	3539.27	3540.94
K 766.491	80.2312	80.9349	80.8224
Mg 279.078	219.317	227.699	229.722
Mn 257.610	20.8318	20.8003	20.8290
Mo 202.032	-0.6536u	-1.0103u	-0.7121u
Na 330.237	977.702	1003.31	993.227
Ni 231.604	7.4414	8.0542	7.6983
Pb 220.353	-1.1345u	-0.8559u	3.6289
Sb 206.834	-6.4341u	-1.2827u	2.9642
Se 196.026	10.6201	2.0008	-1.6904u
Sn 189.925	-2.1738u	-2.4073u	-0.5434u
Sr 216.596	4.7963	3.4921	3.0284
Ti 334.941	-0.1239u	-0.0630u	-0.0789u
Tl 190.794	2.5719	3.5605	-3.9007u
V 292.401	-0.0007u	-0.1431u	0.1764
Zn 206.200	5689.00	5683.83	5673.13

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.5640	ppb	0.8883	157.5	-96.7951
Al 308.215	11.9703	ppb	1.0227	8.5	335.431
As 188.980	1.1681	ppb	2.1841	187.0	0.0298
B 249.678	75.4652	ppb	0.5767	0.8	874.259
Ba 389.178	13.6811	ppb	1.0080	7.4	283.024
Be 313.042	-0.0578	ppb	0.0064	11.1	-257.985
Ca 370.602	4920	ppb	9.722	0.2	15557
Cd 226.502	0.0119	ppb	0.0234	197.1	17.0818
Co 228.615	0.0158	ppb	0.2448	1547.8	15.6794
Cr 267.716	3.9747	ppb	0.2682	6.7	170.016
Cu 324.754	-0.4901	ppb	0.5480	111.8	67.3187
Fe 271.441	3539.45	ppb	1.4129	0.0	5960.25
K 766.491	80.6628	ppb	0.3780	0.5	4101.49
Mg 279.078	225.579	ppb	5.5168	2.4	495.092
Mn 257.610	20.8204	ppb	0.0174	0.1	4896.40
Mo 202.032	-0.7920	ppb	0.1913	24.2	8.6997
Na 330.237	991.414	ppb	12.9016	1.3	3.4977
Ni 231.604	7.7313	ppb	0.3077	4.0	18.3506
Pb 220.353	0.5461	ppb	2.6734	489.5	4.3937
Sb 206.834	-1.5842	ppb	4.7064	297.1	0.0799
Se 196.026	3.6435	ppb	6.3175	173.4	1.0243
Sn 189.925	-1.7081	ppb	1.0155	59.4	-0.8682
Sr 216.596	3.7723	ppb	0.9167	24.3	47.8153
Ti 334.941	-0.0886	ppb	0.0316	35.7	-82.6898
Tl 190.794	0.7439	ppb	4.0526	544.8	-1.3379
V 292.401	0.0109	ppb	0.1601	1474.3	5.7530
Zn 206.200	5681.99	ppb	8.0952	0.1	8787.98

E03292013.vvq. All Data Report 3/30/2013, 8:54:32 AM

680-88652-a-6-g (Samp)                      3/29/2013, 5:40:33 PM                      Rack 2, Tube 18  
 Weight: 1                                      Volume: 1                                      Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.8004u	-0.4944u	-0.6114u
Al 308.215	420.056	419.595	420.441
As 188.980	-1.9548u	-0.4297u	-2.9961u
B 249.678	2.2457	2.1132	1.9455
Ba 389.178	48.7200	48.9085	49.6167
Be 313.042	-0.0104u	0.0160	0.0050
Ca 370.602	9506	9496	9473
Cd 226.502	0.2494	0.3432	-0.0582u
Co 228.615	3.6132	3.8530	3.2725
Cr 267.716	0.8799	0.7619	0.8601
Cu 324.754	5.9976	5.4692	5.7712
Fe 271.441	148.710	155.089	149.384
K 766.491	266.200	265.137	265.184
Mg 279.078	646.104	640.634	634.908
Mn 257.610	325.547	325.087	323.938
Mo 202.032	-0.4106u	-0.2995u	-0.6277u
Na 330.237	809.426	835.607	760.576
Ni 231.604	1.8222	3.4204	1.9570
Pb 220.353	-0.1617u	-1.1127u	1.7154
Sb 206.834	-5.0201u	11.1267	-12.5590u
Se 196.026	4.9986	14.7950	6.7182
Sn 189.925	-3.0301u	-6.1477u	-4.0914u
Sr 216.596	16.7740	16.9741	17.1386
Ti 334.941	0.5154	0.4482	0.4184
Tl 190.794	4.0152	-9.3298u	2.1198
V 292.401	-0.7872u	-0.2271u	-0.7082u
Zn 206.200	12.3257	12.9684	12.9897

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.6354	ppb	0.1544	24.3	-101.107
Al 308.215	420.031	ppb	0.4239	0.1	2692.46
As 188.980	-1.7936	ppb	1.2908	72.0	-1.8551
B 249.678	2.1015	ppb	0.1505	7.2	190.186
Ba 389.178	49.0818	ppb	0.4727	1.0	1016.16
Be 313.042	0.0035	ppb	0.0133	374.1	-138.252
Ca 370.602	9492	ppb	17.02	0.2	30576
Cd 226.502	0.1781	ppb	0.2100	117.9	15.7157
Co 228.615	3.5796	ppb	0.2917	8.1	56.5058
Cr 267.716	0.8340	ppb	0.0632	7.6	39.3564
Cu 324.754	5.7460	ppb	0.2651	4.6	371.008
Fe 271.441	151.061	ppb	3.5047	2.3	258.109
K 766.491	265.507	ppb	0.6007	0.2	12969.0
Mg 279.078	640.549	ppb	5.5984	0.9	1346.03
Mn 257.610	324.857	ppb	0.8288	0.3	74872.8
Mo 202.032	-0.4459	ppb	0.1669	37.4	11.0696
Na 330.237	801.870	ppb	38.0820	4.7	37.1963
Ni 231.604	2.3999	ppb	0.8863	36.9	5.6681
Pb 220.353	0.1470	ppb	1.4391	979.0	3.8043
Sb 206.834	-2.1508	ppb	12.1007	562.6	-0.3372
Se 196.026	8.8373	ppb	5.2307	59.2	2.7474
Sn 189.925	-4.4231	ppb	1.5850	35.8	-2.8983
Sr 216.596	16.9622	ppb	0.1826	1.1	170.218
Ti 334.941	0.4607	ppb	0.0497	10.8	57.6380
Tl 190.794	-1.0649	ppb	7.2201	678.0	-2.6981
V 292.401	-0.5742	ppb	0.3032	52.8	-10.1112
Zn 206.200	12.7613	ppb	0.3773	3.0	215343

E03292013.wvq. All Data Report 3/30/2013, 8:54:32 AM

680-88607-a-1-i (Samp)                      3/29/2013, 5:45:58 PM                      Rack 2, Tube 19  
 Weight: 1                                      Volume: 1                                      Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.3595	0.1693	-0.5093u
Al 308.215	127.682	125.022	127.470
As 188.980	1.4470	-1.3632u	-3.3337u
B 249.678	51.1619	52.0337	52.5862
Ba 389.178	11.0271	9.6842	10.2152
Be 313.042	-0.0411u	-0.0328u	-0.0296u
Ca 370.602	2215	2219	2221
Cd 226.502	0.8475	0.8154	0.9032
Co 228.615	1.2483	2.0848	1.5116
Cr 267.716	3.9055	3.7974	3.6089
Cu 324.754	143.644	143.044	145.261
Fe 271.441	6953.22	6987.58	6980.29
K 766.491	225.870	227.027	226.080
Mg 279.078	255.176	252.607	253.213
Mn 257.610	163.293	163.883	163.726
Mo 202.032	0.3537	-0.0423u	-0.5726u
Na 330.237	95965.9x	95781.2x	96145.1x
Ni 231.604	99.0001	100.321	102.744
Pb 220.353	45.2603	46.7718	47.6518
Sb 206.834	-2.6294u	-7.3464u	-1.8172u
Se 196.026	4.4863	0.1768	8.1933
Sn 189.925	-1.7430u	5.1208	2.7019
Sr 216.596	7.6652	7.8496	7.5120
Ti 334.941	1.6486	1.7135	1.6989
Tl 190.794	3.1736	2.1381	-1.0710u
V 292.401	-0.6156u	0.2354	0.2270
Zn 206.200	1162.20	1163.75	1165.28

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0065b	ppb	0.4567	7018.5	-55.7309
Al 308.215	126.725b	ppb	1.4781	1.2	998.376
As 188.980	-1.0833b	ppb	2.4026	221.8	-1.5246
B 249.678	51.9273b	ppb	0.7181	1.4	650.558
Ba 389.178	10.3088b	ppb	0.6764	6.6	215.260
Be 313.042	-0.0345b	ppb	0.0059	17.2	-226.117
Ca 370.602	2218b	ppb	3.051	0.1	6571
Cd 226.502	0.8554b	ppb	0.0444	5.2	54.1277
Co 228.615	1.6149b	ppb	0.4277	26.5	33.8470
Cr 267.716	3.7706b	ppb	0.1501	4.0	164.320
Cu 324.754	143.983b	ppb	1.1470	0.8	7126.53
Fe 271.441	6973.70b	ppb	18.1041	0.3	11740.4
K 766.491	226.326b	ppb	0.6166	0.3	11089.4
Mg 279.078	253.665b	ppb	1.3427	0.5	551.387
Mn 257.610	163.634b	ppb	0.3053	0.2	37778.2
Mo 202.032	-0.0871b	ppb	0.4648	533.8	13.0669
Na 330.237	95964.1xb	ppb	181.937	0.2	4924.31
Ni 231.604	100.688b	ppb	1.8986	1.9	238.351
Pb 220.353	46.5613b	ppb	1.2096	2.6	78.7073
Sb 206.834	-3.9310b	ppb	2.9856	76.0	-1.3305
Se 196.026	4.2855b	ppb	4.0120	93.6	1.2693
Sn 189.925	2.0266b	ppb	3.4814	171.8	1.9576
Sr 216.596	7.6756b	ppb	0.1691	2.2	83.8304
Ti 334.941	1.6870b	ppb	0.0340	2.0	360.347
Tl 190.794	1.4136b	ppb	2.2131	156.6	-1.1521
V 292.401	-0.0511b	ppb	0.4889	957.7	3.1590
Zn 206.200	1163.74b	ppb	1.5365	404.1	1891.31



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**lb 680-270828/3-d (Samp)**                      **3/29/2013, 5:51:23 PM**                      **Rack 2, Tube 20**  
**Weight: 1**    **Volume: 1**    **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-1.0713u	-0.5707u	-0.0446u
Al 308.215	0.5620	0.4387	-2.1646u
As 188.980	5.5802	-2.7283u	-2.2451u
B 249.678	33.8078	32.8365	33.4309
Ba 389.178	0.8191	0.5388	1.1560
Be 313.042	-0.0479u	-0.0413u	-0.0518u
Ca 370.602	370.4	377.6	373.6
Cd 226.502	0.1258	-0.1156u	0.0711
Co 228.615	-0.2320u	-0.6013u	-0.0991u
Cr 267.716	0.0110	0.1422	0.2302
Cu 324.754	0.3750	0.1122	0.1127
Fe 271.441	-0.6290u	5.9673	3.6243
K 766.491	92.0695	92.4486	91.4397
Mg 279.078	69.8579	72.7901	76.8385
Mn 257.610	-0.1802u	-0.1385u	-0.1378u
Mo 202.032	-0.7733u	0.0518	-0.7236u
Na 330.237	120227x	120379x	120426x
Ni 231.604	1.5074	0.2988	3.2624
Pb 220.353	0.7133	-0.9463u	2.4764
Sb 206.834	-10.6474u	3.9582	-1.5749u
Se 196.026	10.1759	11.1751	-1.2738u
Sn 189.925	0.9704	-0.6816u	-0.1818u
Sr 216.596	0.0120	0.8877	0.6548
Ti 334.941	-0.1576u	-0.1361u	-0.1386u
Tl 190.794	-5.8433u	-2.3179u	-4.8239u
V 292.401	-0.0024u	-0.7520u	-0.4689u
Zn 206.200	5.9876	7.6703	6.2323

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.5622b	ppb	0.5134	91.3	-96.6288
Al 308.215	-0.3879b	ppb	1.5398	396.9	264.097
As 188.980	0.2023b	ppb	4.6637	2305.7	-0.6129
B 249.678	33.3584b	ppb	0.4897	1.5	483.126
Ba 389.178	0.8380b	ppb	0.3090	36.9	13.9149
Be 313.042	-0.0470b	ppb	0.0053	11.2	-253.658
Ca 370.602	373.9b	ppb	3.619	1.0	1198
Cd 226.502	0.0271b	ppb	0.1266	467.1	9.3321
Co 228.615	-0.3108b	ppb	0.2602	83.7	12.0436
Cr 267.716	0.1278b	ppb	0.1103	86.3	10.4936
Cu 324.754	0.1999b	ppb	0.1516	75.8	100.017
Fe 271.441	2.9875b	ppb	3.3440	111.9	8.3269
K 766.491	91.9860b	ppb	0.5096	0.6	4644.69
Mg 279.078	73.1622b	ppb	3.5052	4.8	180.233
Mn 257.610	-0.1522b	ppb	0.0243	16.0	57.6725
Mo 202.032	-0.4817b	ppb	0.4627	96.0	10.8463
Na 330.237	120344xb	ppb	103.966	0.1	6189.88
Ni 231.604	1.6896b	ppb	1.4902	88.2	3.9845
Pb 220.353	0.7478b	ppb	1.7116	228.9	4.7147
Sb 206.834	-2.7547b	ppb	7.3739	267.7	-0.7183
Se 196.026	6.6924b	ppb	6.9170	103.4	1.9974
Sn 189.925	0.0357b	ppb	0.8472	2374.7	0.4750
Sr 216.596	0.5181b	ppb	0.4536	87.5	15.8666
Ti 334.941	-0.1441b	ppb	0.0118	8.2	-106.437
Tl 190.794	-4.3284b	ppb	1.8142	41.9	-4.5167
V 292.401	-0.4078b	ppb	0.3785	92.8	-6.5308
Zn 206.200	6.6301b	ppb	0.9991	13.7	12.0554

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680-88663-a-1-k (Samp)                      3/29/2013, 5:56:48 PM                      Rack 2, Tube 21  
 Weight: 1                                      Volume: 1                                      Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.7524u	-0.2671u	1.2954
Al 308.215	0.7838	-2.0376u	1.0416
As 188.980	-6.4908u	-4.5253u	2.9840
B 249.678	12.4564	13.1104	12.5641
Ba 389.178	25.3562	25.4674	24.7574
Be 313.042	-0.0211u	-0.0338u	-0.0292u
Ca 370.602	2974	2977	2952
Cd 226.502	0.0330	-0.1681u	0.0180
Co 228.615	-0.6965u	-0.3244u	-0.3667u
Cr 267.716	0.2509	-0.0485u	0.3150
Cu 324.754	0.8205	0.7593	0.5072
Fe 271.441	29.4494	27.7709	21.5713
K 766.491	75.5360	74.9607	74.5452
Mg 279.078	178.013	183.114	176.360
Mn 257.610	41.1507	41.2194	40.9738
Mo 202.032	0.3847	0.3482	0.9595
Na 330.237	2973.11	3212.12	3102.09
Ni 231.604	1.0055	1.1961	-0.1949u
Pb 220.353	0.7405	-1.4092u	0.8912
Sb 206.834	1.3901	1.3145	0.2978
Se 196.026	-0.0178	10.5818	4.8503
Sn 189.925	2.4343	-1.4413u	-0.0079u
Sr 216.596	6.8733	7.3741	5.9771
Ti 334.941	-0.0530u	-0.0392u	0.0044
Tl 190.794	-0.1929u	-6.3185u	-3.3366u
V 292.401	-0.3477u	-0.7378u	-0.0119u
Zn 206.200	25.7645	27.0305	23.9945

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0919	ppb	1.0701	1163.9	-50.1251
Al 308.215	-0.0708	ppb	1.7082	2414.0	266.066
As 188.980	-2.6774	ppb	5.0004	186.8	-2.4989
B 249.678	12.7103	ppb	0.3506	2.8	289.683
Ba 389.178	25.1937	ppb	0.3819	1.5	519.783
Be 313.042	-0.0280	ppb	0.0064	22.9	-202.021
Ca 370.602	2967	ppb	13.67	0.5	9555
Cd 226.502	-0.0390	ppb	0.1120	287.0	7.6573
Co 228.615	-0.4625	ppb	0.2037	44.0	10.2778
Cr 267.716	0.1725	ppb	0.1940	112.5	10.6573
Cu 324.754	0.6957	ppb	0.1660	23.9	124.269
Fe 271.441	26.2639	ppb	4.1496	15.8	47.4386
K 766.491	75.0140	ppb	0.4975	0.7	3830.49
Mg 279.078	179.163	ppb	3.5208	2.0	398.357
Mn 257.610	41.1147	ppb	0.1267	0.3	9557.83
Mo 202.032	0.5642	ppb	0.3429	60.8	17.5504
Na 330.237	3095.77	ppb	119.635	3.9	155.202
Ni 231.604	0.6689	ppb	0.7541	112.7	1.5701
Pb 220.353	0.0742	ppb	1.2868	1735.0	3.6346
Sb 206.834	1.0008	ppb	0.6100	61.0	1.5944
Se 196.026	5.1381	ppb	5.3057	103.3	1.4995
Sn 189.925	0.3284	ppb	1.9595	596.8	0.6566
Sr 216.596	6.7415	ppb	0.7078	10.5	74.1780
Ti 334.941	-0.0293	ppb	0.0300	102.3	-68.4644
Tl 190.794	-3.2827	ppb	3.0631	93.3	-3.8735
V 292.401	-0.3658	ppb	0.3633	99.3	-4.6249
Zn 206.200	25.5965	ppb	1.5249	6.0	41.3838

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680-88663-a-1-1 ms (Samp) 3/29/2013, 6:02:14 PM Rack 2, Tube 22

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	70.2741	70.7304	70.7009
Al 308.215	714.314	720.431	718.658
As 188.980	70.7661	68.8955	74.6702
B 249.678	154.436	158.439	157.655
Ba 389.178	85.1142	86.5796	85.4869
Be 313.042	74.1035	74.5052	74.2765
Ca 370.602	9184	9234	9205
Cd 226.502	73.4270	73.6701	73.5548
Co 228.615	72.4025	73.4802	73.3409
Cr 267.716	73.4472	74.1576	74.3129
Cu 324.754	72.7249	73.4771	70.4383
Fe 271.441	7270.53	7335.38	7309.28
K 766.491	7118.29	7151.93	7105.03
Mg 279.078	7405.43	7438.64	7425.57
Mn 257.610	773.396	778.583	777.368
Mo 202.032	72.4725	72.2797	71.8212
Na 330.237	8680.55	8623.44	8710.68
Ni 231.604	73.2474	73.4737	74.6040
Pb 220.353	72.7344	73.2381	71.5943
Sb 206.834	68.1204	60.4582	68.2398
Se 196.026	77.7932	71.3474	79.8701
Sn 189.925	73.9867	70.9534	66.9899
Sr 216.596	78.4575	78.1000	79.8624
Ti 334.941	71.8140	71.9500	71.8395
Tl 190.794	15.1160	21.0495	18.0438
V 292.401	72.5201	72.7355	73.2572
Zn 206.200	89.9060	91.3490	90.3024

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	70.5684	ppb	0.2553	0.4	4964.75
Al 308.215	717.801	ppb	3.1474	0.4	4420.64
As 188.980	71.4439	ppb	2.9464	4.1	46.5947
B 249.678	156.843	ppb	2.1214	1.4	1633.06
Ba 389.178	85.7269	ppb	0.7616	0.9	1785.49
Be 313.042	74.2951	ppb	0.2015	0.3	143463
Ca 370.602	9208	ppb	24.76	0.3	29097
Cd 226.502	73.5506	ppb	0.1216	0.2	2656.18
Co 228.615	73.0745	ppb	0.5862	0.8	849.790
Cr 267.716	73.9726	ppb	0.4616	0.6	3097.24
Cu 324.754	72.2134	ppb	1.5827	2.2	3621.55
Fe 271.441	7305.06	ppb	32.6320	0.4	12309.8
K 766.491	7125.08	ppb	24.1791	0.3	342043
Mg 279.078	7423.21	ppb	16.7276	0.2	15338.5
Mn 257.610	776.449	ppb	2.7128	0.3	178879
Mo 202.032	72.1911	ppb	0.3346	0.5	476.311
Na 330.237	8671.56	ppb	44.3068	0.5	438.946
Ni 231.604	73.7750	ppb	0.7268	1.0	174.679
Pb 220.353	72.5222	ppb	0.8422	1.2	120.586
Sb 206.834	65.6061	ppb	4.4586	6.8	41.8469
Se 196.026	76.3369	ppb	4.4441	5.8	24.7694
Sn 189.925	70.6433	ppb	3.5087	5.0	53.2931
Sr 216.596	78.8066	ppb	0.9316	1.2	746.759
Ti 334.941	71.8678	ppb	0.0723	0.1	18161.7
Tl 190.794	18.0698	ppb	2.9668	16.4	9.1704
V 292.401	72.8376	ppb	0.3790	0.5	1983.76
Zn 206.200	90.5191	ppb	0.7455	0.8	141.554

E03292013.wvq. All Data Report 3/30/2013, 8:54:32 AM

**680-88663-a-1-m msd (Samp) 3/29/2013, 6:07:40 PM Rack 2, Tube 23****Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	74.6240	76.0615	75.0497
Al 308.215	761.103	762.382	764.548
As 188.980	84.6426	82.5645	77.6224
B 249.678	168.921	170.375	173.607
Ba 389.178	92.1411	90.5143	91.9461
Be 313.042	79.3583	79.5172	79.6253
Ca 370.602	9817	9832	9859
Cd 226.502	78.0778	78.1241	78.4066
Co 228.615	77.0491	77.2187	77.8086
Cr 267.716	79.1667	79.1369	79.3808
Cu 324.754	76.6091	77.1914	76.8134
Fe 271.441	7806.45	7828.31	7851.25
K 766.491	7519.79	7533.34	7535.93
Mg 279.078	7897.13	7902.77	7927.70
Mn 257.610	830.700	832.953	835.527
Mo 202.032	77.8101	78.3933	77.0236
Na 330.237	9109.21	8966.50	9160.37
Ni 231.604	74.6079	77.0137	76.9496
Pb 220.353	77.5990	74.4268	76.6280
Sb 206.834	81.1685	76.7557	71.7493
Se 196.026	69.4555	92.0834	81.3622
Sn 189.925	78.6639	74.5249	75.3576
Sr 216.596	84.4521	83.5509	82.9208
Ti 334.941	77.3254	77.3507	77.3791
Tl 190.794	16.8121	21.3591	19.4819
V 292.401	78.1723	78.8862	78.3971
Zn 206.200	96.6711	96.4476	98.4264

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	75.2450	ppb	0.7384	1.0	5297.53
Al 308.215	762.677	ppb	1.7412	0.2	4680.46
As 188.980	81.6099	ppb	3.6061	4.4	53.3325
B 249.678	170.968	ppb	2.3988	1.4	1764.88
Ba 389.178	91.5338	ppb	0.8883	1.0	1906.69
Be 313.042	79.5003	ppb	0.1343	0.2	153524
Ca 370.602	9836	ppb	21.24	0.2	31081
Cd 226.502	78.2028	ppb	0.1780	0.2	2823.76
Co 228.615	77.3588	ppb	0.3987	0.5	898.696
Cr 267.716	79.2281	ppb	0.1330	0.2	3317.07
Cu 324.754	76.8713	ppb	0.2954	0.4	3849.35
Fe 271.441	7828.67	ppb	22.3998	0.3	13191.9
K 766.491	7529.68	ppb	8.6684	0.1	361453
Mg 279.078	7909.20	ppb	16.2701	0.2	16340.7
Mn 257.610	833.060	ppb	2.4155	0.3	191914
Mo 202.032	77.7424	ppb	0.6874	0.9	511.868
Na 330.237	9078.69	ppb	100.475	1.1	459.648
Ni 231.604	76.1904	ppb	1.3709	1.8	180.404
Pb 220.353	76.2179	ppb	1.6254	2.1	126.552
Sb 206.834	76.5578	ppb	4.7127	6.2	48.6361
Se 196.026	80.9670	ppb	11.3192	14.0	26.2843
Sn 189.925	76.1821	ppb	2.1892	2.9	57.4394
Sr 216.596	83.6413	ppb	0.7697	0.9	791.911
Ti 334.941	77.3518	ppb	0.0269	0.0	19552.0
Tl 190.794	19.2177	ppb	2.2850	11.9	9.8512
V 292.401	78.4852	ppb	0.3650	0.5	2137.21
Zn 206.200	97.1817	ppb	1.0838	1.1	151.841

E03292013.vvq. All Data Report 3/30/2013, 8:54:32 AM

**680-88656-a-1-c (Samp)**                      **3/29/2013, 6:13:06 PM**                      **Rack 2, Tube 24**  
**Weight: 1**    **Volume: 1**    **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.5536	0.0445	0.2487
Al 308.215	11.1215	8.6979	7.2997
As 188.980	0.8633	2.5761	0.4722
B 249.678	56.8372	55.6530	55.3893
Ba 389.178	2.5736	2.0360	4.2221
Be 313.042	-0.0374u	-0.0467u	-0.0573u
Ca 370.602	2772	2766	2777
Cd 226.502	-0.2470u	-0.1853u	-0.0010
Co 228.615	1.6605	1.4924	0.8823
Cr 267.716	3.8891	4.1099	4.1304
Cu 324.754	11.0367	10.4818	11.1736
Fe 271.441	453.799	460.292	471.787
K 766.491	54653.8x	54716.3x	55050.7x
Mg 279.078	726.420	729.992	734.654
Mn 257.610	10.8711	10.8435	10.9609
Mo 202.032	1.6868	0.9525	0.9027
Na 330.237	111402x	111511x	112034x
Ni 231.604	1.9869	2.1136	1.6748
Pb 220.353	0.3048	-2.2046u	0.0598
Sb 206.834	-3.9229u	0.6390	-5.0529u
Se 196.026	-16.0981u	5.0147	3.8013
Sn 189.925	-4.3276u	1.0813	1.3933
Sr 216.596	30.6480	30.2549	30.2383
Ti 334.941	1.6712	1.5048	1.5513
Tl 190.794	-2.0971u	-4.9697u	-0.2609u
V 292.401	0.2745	0.7082	0.8418
Zn 206.200	243.548	240.305	243.550

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.2823b	ppb	0.2563	90.8	-37.7454
Al 308.215	9.0397b	ppb	1.9337	21.4	318.779
As 188.980	1.3039b	ppb	1.1190	85.8	0.1335
B 249.678	55.9599b	ppb	0.7712	1.4	694.507
Ba 389.178	2.9439b	ppb	1.1391	38.7	58.2660
Be 313.042	-0.0471b	ppb	0.0099	21.1	-255.202
Ca 370.602	2772b	ppb	5.295	0.2	8888
Cd 226.502	-0.1444b	ppb	0.1280	88.6	4.2463
Co 228.615	1.3451b	ppb	0.4095	30.4	30.9803
Cr 267.716	4.0431b	ppb	0.1338	3.3	174.063
Cu 324.754	10.8974b	ppb	0.3663	3.4	622.813
Fe 271.441	461.960b	ppb	9.1089	2.0	780.999
K 766.491	54806.9xb	ppb	213.378	0.4	2629482
Mg 279.078	730.355b	ppb	4.1291	0.6	1536.48
Mn 257.610	10.8918b	ppb	0.0614	0.6	2604.94
Mo 202.032	1.1807b	ppb	0.4391	37.2	21.4818
Na 330.237	111649xb	ppb	337.436	0.3	5740.44
Ni 231.604	1.9251b	ppb	0.2258	11.7	4.5506
Pb 220.353	-0.6133b	ppb	1.3835	225.6	2.5156
Sb 206.834	-2.7790b	ppb	3.0134	108.4	-0.7178
Se 196.026	-2.4274b	ppb	11.8547	488.4	-0.9607
Sn 189.925	-0.6177b	ppb	3.2167	520.8	-0.0161
Sr 216.596	30.3804b	ppb	0.2319	0.8	294.957
Ti 334.941	1.5758b	ppb	0.0859	5.4	332.314
Tl 190.794	-2.4426b	ppb	2.3734	97.2	-3.3091
V 292.401	0.6082b	ppb	0.2966	48.8	20.7978
Zn 206.200	242.468b	ppb	1.8731	0.8	376.724

E03292013.wvq. All Data Report 3/30/2013, 8:54:32 AM

Cont Calib Verif (CCV) 3/29/2013, 6:18:32 PM Rack 2, Tube 25  
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	492.708	505.563	494.341
Al 308.215	4976.12	5011.71	4987.49
As 188.980	525.688	539.054	529.768
B 249.678	561.495	569.796	571.016
Ba 389.178	4568.32	4601.94	4582.43
Be 313.042	474.832	477.849	474.765
Ca 370.602	4776	4817	4786
Cd 226.502	471.853	473.534	471.606
Co 228.615	469.407	471.295	471.085
Cr 267.716	4723.70	4756.43	4723.00
Cu 324.754	4583.82	4644.59	4551.60
Fe 271.441	5011.35	5063.98	5013.15
K 766.491	9769.26	9842.13	9809.41
Mg 279.078	4985.09	5012.26	4974.22
Mn 257.610	4683.72	4710.72	4682.76
Mo 202.032	485.615	489.885	487.715
Na 330.237	7522.72	7616.36	7355.43
Ni 231.604	2363.87	2379.54	2378.02
Pb 220.353	488.156	493.962	492.052
Sb 206.834	988.237	993.085	1004.16
Se 196.026	4945.62	4978.48	4941.42
Sn 189.925	4989.56	5029.29	5008.33
Sr 216.596	2456.06	2472.47	2457.19
Ti 334.941	491.160	495.556	492.145
Tl 190.794	4945.01	4984.15	4956.80
V 292.401	4898.91	4928.48	4903.57
Zn 206.200	2376.44	2370.58	2368.33

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	497.537	ppb	6.9981	1.4	35290.0	99.50745
Al 308.215	4991.77	ppb	18.1739	0.4	29075.6	99.83549
As 188.980	531.503	ppb	6.8497	1.3	351.446	106.30067
B 249.678	567.435	ppb	5.1807	0.9	5481.42	22.69741Q
Ba 389.178	4584.23	ppb	16.8850	0.4	95215.8	91.68462
Be 313.042	475.815	ppb	1.7617	0.4	919415	95.16309
Ca 370.602	4793	ppb	21.66	0.5	15292	95.85923
Cd 226.502	472.331	ppb	1.0492	0.2	16918.1	94.46623
Co 228.615	470.596	ppb	1.0349	0.2	5399.63	94.11911
Cr 267.716	4734.38	ppb	19.1010	0.4	197778	94.68761
Cu 324.754	4593.34	ppb	47.2167	1.0	224463	91.86672
Fe 271.441	5029.49	ppb	29.8798	0.6	8585.83	100.58987
K 766.491	9806.94	ppb	36.4981	0.4	470700	98.06937
Mg 279.078	4990.52	ppb	19.5962	0.4	10254.6	99.81049
Mn 257.610	4692.40	ppb	15.8715	0.3	1080233	93.84801
Mo 202.032	487.738	ppb	2.1353	0.4	3132.46	97.54763
Na 330.237	7498.17	ppb	132.186	1.8	358.945	99.97559
Ni 231.604	2373.81	ppb	8.6374	0.4	5616.63	94.95236
Pb 220.353	491.390	ppb	2.9594	0.6	796.684	98.27802
Sb 206.834	995.160	ppb	8.1599	0.8	643.326	99.51598
Se 196.026	4955.17	ppb	20.2937	0.4	1609.83	99.10349
Sn 189.925	5009.06	ppb	19.8737	0.4	3749.81	100.18121
Sr 216.596	2461.91	ppb	9.1654	0.4	22945.2	98.47633
Ti 334.941	492.954	ppb	2.3069	0.5	124746	98.59077
Tl 190.794	4961.98	ppb	20.0780	0.4	3240.79	99.23968
V 292.401	4910.32	ppb	15.9018	0.3	134154	98.20634
Zn 206.200	2371.78	ppb	4.1899	0.2	3655.17	94.87130

E03292013.vvq. All Data Report 3/30/2013, 8:54:32 AM

Cont Calib Blank (CCB)                      3/29/2013, 6:23:57 PM                      Rack 2, Tube 26  
 Weight: 1    Volume: 1    Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.1661u	-0.8312u	-0.2290u
Al 308.215	-1.2486u	-3.1622u	-2.7971u
As 188.980	1.9452	2.5717	0.6591
B 249.678	1.5022	1.5428	0.3735
Ba 389.178	-0.3127u	1.4506	0.1361
Be 313.042	-0.0536u	-0.0641u	-0.0533u
Ca 370.602	-5.959u	-3.362u	1.683
Cd 226.502	-0.1350u	0.0585	-0.1566u
Co 228.615	-0.9784u	-0.2390u	0.3109
Cr 267.716	-0.0814u	-0.2722u	0.2038
Cu 324.754	-0.5688u	-0.3202u	0.0630
Fe 271.441	1.8380	-1.2881u	-1.3328u
K 766.491	-0.9605u	-1.0895u	-0.8739u
Mg 279.078	-3.0851u	-0.2966u	2.3440
Mn 257.610	-0.2157u	-0.2578u	-0.2922u
Mo 202.032	0.3447	-0.9808u	0.0377
Na 330.237	210.450	48.7278	0.5115
Ni 231.604	0.3018	-1.1272u	-0.2232u
Pb 220.353	-4.8684u	-0.6841u	-3.4146u
Sb 206.834	3.6837	3.5010	3.0129
Se 196.026	-9.7440u	-6.5499u	-2.5195u
Sn 189.925	-4.1850u	0.2552	0.8517
Sr 216.596	-0.0336u	-0.2490u	-0.1610u
Ti 334.941	0.0496	-0.0232u	0.0533
Tl 190.794	-2.9816u	6.1400	8.8730
V 292.401	-0.4462u	-0.3655u	-0.5777u
Zn 206.200	1.1572	0.9583	0.5544

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	-0.4088	ppb	0.3672	89.8	-85.6612	-0.40875
Al 308.215	-2.4027	ppb	1.0160	42.3	252.526	-2.40268
As 188.980	1.7253	ppb	0.9751	56.5	0.3933	1.72532
B 249.678	1.1395	ppb	0.6637	58.2	181.316	1.13951
Ba 389.178	0.4247	ppb	0.9164	215.8	5.2964	0.42466
Be 313.042	-0.0570	ppb	0.0061	10.8	-258.507	-0.05697
Ca 370.602	-2.546	ppb	3.886	152.6	-14.92	-2.54603
Cd 226.502	-0.0777	ppb	0.1185	152.5	6.2341	-0.07768
Co 228.615	-0.3021	ppb	0.6470	214.1	12.1310	-0.30214
Cr 267.716	-0.0500	ppb	0.2396	479.6	1.1555	-0.04995
Cu 324.754	-0.2753	ppb	0.3183	115.6	76.8101	-0.27533
Fe 271.441	-0.2610	ppb	1.8179	696.6	2.8521	-0.26095
K 766.491	-0.9746	ppb	0.1085	11.1	185.095	-0.97461
Mg 279.078	-0.3459	ppb	2.7148	784.9	28.5252	-0.34589
Mn 257.610	-0.2552	ppb	0.0383	15.0	34.1728	-0.25523
Mo 202.032	-0.1995	ppb	0.6938	347.8	12.6560	-0.19950
Na 330.237	86.5632	ppb	109.965	127.0	0.5170	86.56323
Ni 231.604	-0.3496	ppb	0.7228	206.8	-0.8402	-0.34956
Pb 220.353	-2.9890	ppb	2.1244	71.1	-1.3188	-2.98900
Sb 206.834	3.3992	ppb	0.3468	10.2	3.0789	3.39920
Se 196.026	-6.2712	ppb	3.6203	57.7	-2.2126	-6.27116
Sn 189.925	-1.0260	ppb	2.7520	268.2	-0.3594	-1.02604
Sr 216.596	-0.1479	ppb	0.1083	73.2	9.6165	-0.14789
Ti 334.941	0.0266	ppb	0.0432	162.5	-54.8442	0.02657
Tl 190.794	4.0105	ppb	6.2076	154.8	0.9376	4.01050
V 292.401	-0.4631	ppb	0.1071	23.1	-7.1425	-0.46312
Zn 206.200	0.8900	ppb	0.3071	34.5	2.1805	0.88998

E03292013.vvq. All Data Report 3/30/2013, 8:54:32 AM

680-88656-a-1-cSD^5 (Samp) 3/29/2013, 6:29:22 PM Rack 2, Tube 27

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.0232	-0.2093u	-0.4514u
Al 308.215	-0.9279u	1.4991	0.0472
As 188.980	3.3206	-4.0155u	-3.9757u
B 249.678	3.7430	3.8876	3.8923
Ba 389.178	0.8781	0.9227	0.1270
Be 313.042	-0.0569u	-0.0571u	-0.0578u
Ca 370.602	557.9	562.1	550.2
Cd 226.502	0.0662	0.1376	-0.0753u
Co 228.615	-0.4945u	0.8793	-0.3192u
Cr 267.716	0.8022	0.4906	0.8229
Cu 324.754	2.2461	1.4161	1.0754
Fe 271.441	96.5793	94.0791	99.2656
K 766.491	10358.0	10777.2	10709.7
Mg 279.078	146.963	147.553	141.679
Mn 257.610	2.0519	2.0911	2.0493
Mo 202.032	-0.9492u	-0.0082u	-0.5298u
Na 330.237	21094.9	21123.1	21264.9
Ni 231.604	1.0491	-0.5174u	-0.5400u
Pb 220.353	0.9396	-1.6168u	-2.5737u
Sb 206.834	-1.1952u	-0.1172u	-1.6732u
Se 196.026	12.9504	3.4311	5.3557
Sn 189.925	-1.6522u	-1.3904u	-3.8191u
Sr 216.596	5.8271	6.0921	5.3815
Ti 334.941	0.2431	0.1660	0.2946
Tl 190.794	-0.3751u	3.9068	5.9690
V 292.401	-0.4472u	0.3292	-0.3022u
Zn 206.200	47.7266	49.7248	47.3217

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.2125	ppb	0.2373	111.7	-71.9470
Al 308.215	0.2061	ppb	1.2213	592.5	267.528
As 188.980	-1.5568	ppb	4.2241	271.3	-1.7785
B 249.678	3.8410	ppb	0.0849	2.2	206.548
Ba 389.178	0.6426	ppb	0.4471	69.6	9.9527
Be 313.042	-0.0573	ppb	0.0005	0.9	-261.936
Ca 370.602	556.7	ppb	6.007	1.1	1779
Cd 226.502	0.0428	ppb	0.1084	253.0	10.6419
Co 228.615	0.0219	ppb	0.7477	3418.1	15.8580
Cr 267.716	0.7052	ppb	0.1862	26.4	33.0666
Cu 324.754	1.5792	ppb	0.6021	38.1	167.426
Fe 271.441	96.6413	ppb	2.5938	2.7	166.027
K 766.491	10615.0	ppb	225.071	2.1	509464
Mg 279.078	145.398	ppb	3.2346	2.2	329.299
Mn 257.610	2.0641	ppb	0.0234	1.1	569.032
Mo 202.032	-0.4957	ppb	0.4714	95.1	10.7518
Na 330.237	21161.0	ppb	91.1029	0.4	1084.79
Ni 231.604	-0.0028	ppb	0.9110	32603.2	-0.0179
Pb 220.353	-1.0836	ppb	1.8163	167.6	1.7580
Sb 206.834	-0.9952	ppb	0.7970	80.1	0.3733
Se 196.026	7.2457	ppb	5.0333	69.5	2.1779
Sn 189.925	-2.2873	ppb	1.3331	58.3	-1.2963
Sr 216.596	5.7669	ppb	0.3591	6.2	64.9308
Ti 334.941	0.2345	ppb	0.0647	27.6	-3.1171
Tl 190.794	3.1669	ppb	3.2361	102.2	0.3808
V 292.401	-0.1401	ppb	0.4128	294.8	1.5800
Zn 206.200	48.2577	ppb	1.2866	2.7	5754237



E03292013.wvq. All Data Report 3/30/2013, 8:54:32 AM

**680-88656-a-1-cPDS (Samp)**      **3/29/2013, 6:34:47 PM**      **Rack 2, Tube 28****Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	53.1374	52.9391	52.2988
Al 308.215	2078.08	2076.96	2072.45
As 188.980	2315.24	2326.83	2314.85
B 249.678	1218.75	1227.70	1235.39
Ba 389.178	2113.17	2111.81	2109.23
Be 313.042	55.3042	55.3323	55.2757
Ca 370.602	7963	7958	7932
Cd 226.502	55.0612	54.8211	54.7467
Co 228.615	549.007	549.412	547.404
Cr 267.716	222.220	222.493	222.268
Cu 324.754	277.819	279.139	276.369
Fe 271.441	1534.93	1535.35	1529.23
K 766.491	59205.5x	59224.9x	59218.0x
Mg 279.078	6210.97	6204.02	6199.04
Mn 257.610	560.862	560.363	559.936
Mo 202.032	551.948	550.850	546.282
Na 330.237	115599x	115486x	115559x
Ni 231.604	538.187	545.392	536.300
Pb 220.353	531.960	529.743	532.125
Sb 206.834	515.118	510.102	511.339
Se 196.026	2164.57	2181.84	2183.22
Sn 189.925	1110.43	1115.56	1118.47
Sr 216.596	592.340	593.526	593.185
Ti 334.941	1071.45	1073.19	1071.52
Tl 190.794	2186.74	2170.06	2173.57
V 292.401	540.904	540.777	539.251
Zn 206.200	786.871	787.250	785.508

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	52.7918b	ppb	0.4383	0.8	3680.47
Al 308.215	2075.83b	ppb	2.9828	0.1	12319.0
As 188.980	2318.97b	ppb	6.8063	0.3	1536.45
B 249.678	1227.28b	ppb	8.3246	0.7	11665.9
Ba 389.178	2111.40b	ppb	2.0038	0.1	43851.9
Be 313.042	55.3041b	ppb	0.0283	0.1	106641
Ca 370.602	7951b	ppb	16.38	0.2	25705
Cd 226.502	54.8764b	ppb	0.1644	0.3	1975.16
Co 228.615	548.608b	ppb	1.0621	0.2	6292.15
Cr 267.716	222.327b	ppb	0.1456	0.1	9293.05
Cu 324.754	277.775b	ppb	1.3857	0.5	13670.7
Fe 271.441	1533.17b	ppb	3.4192	0.2	2674.24
K 766.491	59216.1xb	ppb	9.7881	0.0	2841005
Mg 279.078	6204.68b	ppb	5.9922	0.1	12825.6
Mn 257.610	560.387b	ppb	0.4635	0.1	129123
Mo 202.032	549.693b	ppb	3.0049	0.5	3537.09
Na 330.237	115548xb	ppb	57.2992	0.0	5928.41
Ni 231.604	539.959b	ppb	4.7980	0.9	1277.59
Pb 220.353	531.276b	ppb	1.3301	0.3	859.853
Sb 206.834	512.186b	ppb	2.6134	0.5	314.755
Se 196.026	2176.54b	ppb	10.3912	0.5	706.766
Sn 189.925	1114.82b	ppb	4.0684	0.4	834.919
Sr 216.596	593.017b	ppb	0.6105	0.1	5523.15
Ti 334.941	1072.05b	ppb	0.9846	0.1	271337
Tl 190.794	2176.79b	ppb	8.7928	0.4	1421.73
V 292.401	540.311b	ppb	0.9201	0.2	14704.5
Zn 206.200	786.543b	ppb	0.9161	0.1	1217.39

mb 680-270542/1-a (Samp) 3/29/2013, 6:40:13 PM Rack 2, Tube 29  
Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.4815	-0.7366u	0.5166
Al 308.215	8.3761	9.3135	6.6906
As 188.980	-7.9085u	-0.7747u	-1.8809u
B 249.678	17.6983	14.3700	11.1893
Ba 389.178	0.3393	-0.7367u	0.2571
Be 313.042	-0.0631u	-0.0462u	-0.0577u
Ca 370.602	20.97	16.01	17.62
Cd 226.502	0.0787	0.0581	0.1479
Co 228.615	-0.4853u	-1.0931u	-0.6429u
Cr 267.716	0.2547	0.3266	0.5808
Cu 324.754	-0.0169u	-0.7335u	-0.2495u
Fe 271.441	33.5311	33.7773	41.6831
K 766.491	11.4248	10.8543	10.6147
Mg 279.078	8.6105	5.7428	8.2077
Mn 257.610	0.0080	-0.0033u	-0.0210u
Mo 202.032	-0.0729u	-0.1678u	0.2341
Na 330.237	331.095	40.1911	-122.334u
Ni 231.604	2.9051	0.4035	4.0268
Pb 220.353	4.3549	0.1671	-2.7520u
Sb 206.834	-2.1080u	-8.4863u	-5.1401u
Se 196.026	-5.9515u	6.2077	-11.1337u
Sn 189.925	12.6007	15.4916	13.1266
Sr 216.596	-0.1973u	-0.0913u	0.3836
Ti 334.941	0.5940	0.6016	0.5680
Tl 190.794	-5.1580u	0.6926	1.7598
V 292.401	-0.2152u	-0.2952u	-0.3730u
Zn 206.200	1.1675	0.5840	2.8285

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0872	ppb	0.7136	818.8	-50.3796
Al 308.215	8.1268	ppb	1.3291	16.4	313.357
As 188.980	-3.5214	ppb	3.8394	109.0	-3.0851
B 249.678	14.4192	ppb	3.2548	22.6	305.678
Ba 389.178	-0.0467	ppb	0.5989	1281.5	-4.4629
Be 313.042	-0.0556	ppb	0.0086	15.5	-255.948
Ca 370.602	18.20	ppb	2.531	13.9	48.81
Cd 226.502	0.0949	ppb	0.0470	49.6	12.4931
Co 228.615	-0.7404	ppb	0.3154	42.6	7.1251
Cr 267.716	0.3874	ppb	0.1713	44.2	19.4341
Cu 324.754	-0.3333	ppb	0.3656	109.7	73.9913
Fe 271.441	36.3305	ppb	4.6372	12.8	64.3938
K 766.491	10.9646	ppb	0.4162	3.8	757.853
Mg 279.078	7.5203	ppb	1.5525	20.6	44.7599
Mn 257.610	-0.0054	ppb	0.0147	270.5	91.8266
Mo 202.032	-0.0022	ppb	0.2101	9645.4	13.9189
Na 330.237	82.9839	ppb	229.723	276.8	0.3127
Ni 231.604	2.4451	ppb	1.8549	75.9	5.7729
Pb 220.353	0.5900	ppb	3.5722	605.5	4.4587
Sb 206.834	-5.2448	ppb	3.1905	60.8	-2.2591
Se 196.026	-3.6258	ppb	8.9015	245.5	-1.3533
Sn 189.925	13.7396	ppb	1.5398	11.2	10.6931
Sr 216.596	0.0317	ppb	0.3094	975.8	11.2628
Ti 334.941	0.5879	ppb	0.0176	3.0	87.2762
Tl 190.794	-0.9018	ppb	3.7244	413.0	-2.2770
V 292.401	-0.2945	ppb	0.0789	26.8	-2.5689
Zn 206.200	1.5267	ppb	1.1645	76.3	4.1634

E03292013.vvq. All Data Report 3/30/2013, 8:54:32 AM

Ics 680-270542/2-a (Samp) 3/29/2013, 6:45:38 PM Rack 2, Tube 30

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	8.9893	8.7836	8.3356
Al 308.215	5088.11	5026.23	4592.53
As 188.980	104.931	102.727	104.300
B 249.678	206.463	205.860	190.355
Ba 389.178	103.307	101.540	92.8855
Be 313.042	53.9087	53.4941	48.3370
Ca 370.602	5012	4964	4574
Cd 226.502	53.9250	53.5379	48.6022
Co 228.615	52.4732	52.2267	47.2915
Cr 267.716	107.495	106.871	97.2237
Cu 324.754	101.267	102.097	88.6507
Fe 271.441	5258.70	5210.63	4764.53
K 766.491	5038.44	4984.57	4661.52
Mg 279.078	5283.35	5215.27	4783.48
Mn 257.610	536.506	530.735	479.545
Mo 202.032	104.403	103.268	93.2181
Na 330.237	4792.38	4903.03	4696.87
Ni 231.604	104.061	105.643	96.4203
Pb 220.353	50.7139	53.9907	48.5768
Sb 206.834	42.3794	42.2642	35.9052
Se 196.026	89.8357	105.541	104.327
Sn 189.925	223.722	219.775	201.905
Sr 216.596	107.236	106.077	96.6664
Ti 334.941	103.136	102.533	93.7676
Tl 190.794	42.9111	46.2297	45.1434
V 292.401	104.878	103.992	95.4426
Zn 206.200	107.307	105.270	96.2252

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	8.7028	ppb	0.3342	3.8	561.090
Al 308.215	4902.29	ppb	270.040	5.5	28593.9
As 188.980	103.986	ppb	1.1352	1.1	68.1446
B 249.678	200.893	ppb	9.1310	4.5	2047.78
Ba 389.178	99.2441	ppb	5.5772	5.6	2063.84
Be 313.042	51.9133	ppb	3.1041	6.0	100189
Ca 370.602	4850	ppb	239.8	4.9	15237
Cd 226.502	52.0217	ppb	2.9677	5.7	1881.14
Co 228.615	50.6638	ppb	2.9231	5.8	593.649
Cr 267.716	103.863	ppb	5.7584	5.5	4344.57
Cu 324.754	97.3384	ppb	7.5352	7.7	4848.85
Fe 271.441	5077.95	ppb	272.492	5.4	8558.61
K 766.491	4894.84	ppb	203.853	4.2	235052
Mg 279.078	5094.03	ppb	271.094	5.3	10533.9
Mn 257.610	515.595	ppb	31.3535	6.1	118816
Mo 202.032	100.296	ppb	6.1559	6.1	656.545
Na 330.237	4797.43	ppb	103.175	2.2	239.914
Ni 231.604	102.041	ppb	4.9318	4.8	241.518
Pb 220.353	51.0938	ppb	2.7269	5.3	85.8182
Sb 206.834	40.1830	ppb	3.7051	9.2	25.9561
Se 196.026	99.9012	ppb	8.7381	8.7	32.3711
Sn 189.925	215.134	ppb	11.6255	5.4	161.445
Sr 216.596	103.327	ppb	5.7971	5.6	973.177
Ti 334.941	99.8121	ppb	5.2434	5.3	25226.3
Tl 190.794	44.7614	ppb	1.6919	3.8	26.9485
V 292.401	101.437	ppb	5.2105	5.1	2760.44
Zn 206.200	102.934	ppb	5.8987	5.7	169.662

E03292013.wvq. All Data Report 3/30/2013, 8:54:32 AM

ics 680-270542/3-a (Samp)      3/29/2013, 6:51:03 PM      Rack 2, Tube 31  
 Weight: 1      Volume: 1      Dilution: 1

Label	Replicates Concentration		
Ag 328.068	211.787	213.815	213.795
Al 308.215	2180.84	2179.76	2181.46
As 188.980	224.146	230.039	222.799
B 249.678	424.395	426.138	431.401
Ba 389.178	193.992	192.608	192.870
Be 313.042	215.865	216.123	216.399
Ca 370.602	20210	20245	20244
Cd 226.502	209.574	208.474	208.581
Co 228.615	207.977	204.391	206.631
Cr 267.716	212.909	213.344	212.884
Cu 324.754	205.746	210.583	208.234
Fe 271.441	21807.3	21800.1	21856.7
K 766.491	20025.1	20026.3	20060.6
Mg 279.078	21235.3	21210.1	21244.7
Mn 257.610	2145.67	2146.37	2147.91
Mo 202.032	208.380	211.068	209.655
Na 330.237	18168.2	18143.4	18069.8
Ni 231.604	212.942	214.925	209.362
Pb 220.353	206.212	206.760	207.024
Sb 206.834	205.716	202.689	199.745
Se 196.026	207.721	214.740	207.616
Sn 189.925	224.328	224.565	231.045
Sr 216.596	226.615	225.761	225.770
Ti 334.941	208.407	208.836	209.131
Tl 190.794	47.6609	54.4493	49.2362
V 292.401	209.413	210.075	210.518
Zn 206.200	205.844	205.443	202.860

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	213.133	ppb	1.1651	0.5	15108.6
Al 308.215	2180.68	ppb	0.8628	0.0	12886.0
As 188.980	225.661	ppb	3.8505	1.7	148.732
B 249.678	427.312	ppb	3.6476	0.9	4153.15
Ba 389.178	193.157	ppb	0.7354	0.4	4033.31
Be 313.042	216.129	ppb	0.2669	0.1	417624
Ca 370.602	20233	ppb	19.49	0.1	63493
Cd 226.502	208.876	ppb	0.6065	0.3	7529.03
Co 228.615	206.333	ppb	1.8116	0.9	2370.98
Cr 267.716	213.046	ppb	0.2588	0.1	8913.91
Cu 324.754	208.188	ppb	2.4191	1.2	10271.1
Fe 271.441	21821.4	ppb	30.8498	0.1	36763.4
K 766.491	20037.3	ppb	20.1870	0.1	961482
Mg 279.078	21230.0	ppb	17.8992	0.1	43814.2
Mn 257.610	2146.65	ppb	1.1483	0.1	494392
Mo 202.032	209.701	ppb	1.3445	0.6	1357.02
Na 330.237	18127.1	ppb	51.1942	0.3	919.328
Ni 231.604	212.410	ppb	2.8196	1.3	502.967
Pb 220.353	206.665	ppb	0.4139	0.2	337.121
Sb 206.834	202.716	ppb	2.9856	1.5	127.198
Se 196.026	210.026	ppb	4.0829	1.9	68.4646
Sn 189.925	226.646	ppb	3.8116	1.7	170.072
Sr 216.596	226.048	ppb	0.4906	0.2	2121.09
Ti 334.941	208.792	ppb	0.3642	0.2	52880.3
Tl 190.794	50.4488	ppb	3.5530	7.0	28.5974
V 292.401	210.002	ppb	0.5560	0.3	5708.82
Zn 206.200	204.715	ppb	1.6197	0.8	317.721

E03292013.wvq. All Data Report 3/30/2013, 8:54:32 AM

680-88499-a-1-b (Samp)                      3/29/2013, 6:56:28 PM                      Rack 2, Tube 32  
 Weight: 1                                      Volume: 1                                      Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-1.2547u	-2.2517u	-1.8929u
Al 308.215	49652.0	49714.6	49681.7
As 188.980	194.189	180.068	190.273
B 249.678	18.6319	18.3509	17.3139
Ba 389.178	784.784	781.515	783.749
Be 313.042	2.7767	2.7651	2.7571
Ca 370.602	230494	231411	230292
Cd 226.502	0.0337	-0.0187	0.1251
Co 228.615	39.2476	38.0218	38.7177
Cr 267.716	97.0819	97.0068	97.2898
Cu 324.754	106.172	108.954	106.992
Fe 271.441	127111	126934	126738
K 766.491	10096.9	10073.8	10064.3
Mg 279.078	39921.6	40051.9	40011.8
Mn 257.610	1972.10	1974.55	1972.24
Mo 202.032	8.4415	9.1218	9.9053
Na 330.237	5464.07	5359.72	5488.99
Ni 231.604	79.1489	79.8967	77.5227
Pb 220.353	67.7063	67.7283	69.5710
Sb 206.834	-2.8163	0.6943	4.8418
Se 196.026	1.8878	-8.3486u	-20.7462u
Sn 189.925	17.9797	13.3938	18.2375
Sr 216.596	883.201	886.032	881.093
Ti 334.941	2660.09	2673.41	2662.90
Tl 190.794	14.3945	11.3673	6.9358u
V 292.401	233.038	232.397	232.186
Zn 206.200	286.985	286.280	284.879

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.7997	ppb	0.5050	28.1	-212.884
Al 308.215	49682.8	ppb	31.3130	0.1	287237
As 188.980	188.177	ppb	7.2903	3.9	124.706
B 249.678	18.0989	ppb	0.6942	3.8	221.825
Ba 389.178	783.349	ppb	1.6708	0.2	16366.6
Be 313.042	2.7663	ppb	0.0098	0.4	5270.61
Ca 370.602	230732	ppb	596.2	0.3	733618
Cd 226.502	0.0467	ppb	0.0728	155.8	284.195
Co 228.615	38.6624	ppb	0.6148	1.6	521.660
Cr 267.716	97.1262	ppb	0.1466	0.2	4097.60
Cu 324.754	107.372	ppb	1.4296	1.3	5370.53
Fe 271.441	126928	ppb	186.836	0.1	213634
K 766.491	10078.3	ppb	16.7747	0.2	483719
Mg 279.078	39995.1	ppb	66.7670	0.2	82549.8
Mn 257.610	1972.96	ppb	1.3734	0.1	454811
Mo 202.032	9.1562	ppb	0.7325	8.0	66.6297
Na 330.237	5437.59	ppb	68.5814	1.3	215.041
Ni 231.604	78.8561	ppb	1.2138	1.5	188.949
Pb 220.353	68.3352	ppb	1.0703	1.6	111.931
Sb 206.834	0.9066	ppb	3.8334	422.8	3.8488
Se 196.026	-9.0690	ppb	11.3342	125.0	-2.3122
Sn 189.925	16.5370	ppb	2.7251	16.5	12.8734
Sr 216.596	883.442	ppb	2.4784	0.3	8321.91
Ti 334.941	2665.46	ppb	7.0206	0.3	674857
Tl 190.794	10.8992	ppb	3.7513	34.4	-0.6200
V 292.401	232.540	ppb	0.4438	0.2	6410.66
Zn 206.200	286.048	ppb	1.0719	0.4	443.832

E03292013.wvq. All Data Report 3/30/2013, 8:54:32 AM

680-88499-a-2-b (Samp)                      3/29/2013, 7:01:53 PM                      Rack 2, Tube 33  
 Weight: 1                                      Volume: 1                                      Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-1.7066u	-3.5400u	-2.0662u
Al 308.215	46177.2	46146.2	46143.9
As 188.980	195.968	192.357	197.637
B 249.678	39.9944	40.1110	37.3206
Ba 389.178	650.405	644.462	644.289
Be 313.042	4.3211	4.3114	4.3317
Ca 370.602	1051629x	1053510x	1050891x
Cd 226.502	0.0223	-0.0269	0.0389
Co 228.615	32.7259	33.1279	34.2291
Cr 267.716	114.870	114.760	115.644
Cu 324.754	54.1660	51.2332	50.9983
Fe 271.441	127205	126909	126996
K 766.491	16133.0	16064.2	16076.4
Mg 279.078	32291.9	32309.3	32323.2
Mn 257.610	2287.42	2285.29	2286.11
Mo 202.032	11.9074	12.2048	13.0987
Na 330.237	4691.25	4935.86	4741.47
Ni 231.604	92.0793	92.7256	92.4284
Pb 220.353	76.9101	69.9788	69.1526
Sb 206.834	-3.8774	-0.5803	0.1026
Se 196.026	4.2956	-16.1757u	-15.6883u
Sn 189.925	13.9755	9.6158	10.0677
Sr 216.596	2102.56	2107.61	2114.42
Ti 334.941	741.601	744.163	744.834
Tl 190.794	18.5649	12.8064	7.4448u
V 292.401	176.306	176.471	176.117
Zn 206.200	237.145	235.770	236.772

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-2.4376b	ppb	0.9715	39.9	-309.902
Al 308.215	46155.8b	ppb	18.5661	0.0	266866
As 188.980	195.321b	ppb	2.6988	1.4	136.881
B 249.678	39.1420b	ppb	1.5785	4.0	418.808
Ba 389.178	646.386b	ppb	3.4824	0.5	13518.7
Be 313.042	4.3214b	ppb	0.0102	0.2	8570.49
Ca 370.602	1052010xb	ppb	1351	0.1	3379711
Cd 226.502	0.0115b	ppb	0.0342	298.6	283.190
Co 228.615	33.3610b	ppb	0.7782	2.3	411.522
Cr 267.716	115.091b	ppb	0.4815	0.4	4846.60
Cu 324.754	52.1325b	ppb	1.7650	3.4	2672.49
Fe 271.441	127037b	ppb	151.778	0.1	213815
K 766.491	16091.2b	ppb	36.7282	0.2	772176
Mg 279.078	32308.1b	ppb	15.7042	0.0	66681.3
Mn 257.610	2286.27b	ppb	1.0769	0.0	526895
Mo 202.032	12.4036b	ppb	0.6200	5.0	87.5378
Na 330.237	4789.53b	ppb	129.192	2.7	196.966
Ni 231.604	92.4111b	ppb	0.3235	0.4	221.023
Pb 220.353	72.0138b	ppb	4.2604	5.9	119.009
Sb 206.834	-1.4517b	ppb	2.1283	146.6	2.4813
Se 196.026	-9.1895b	ppb	11.6810	127.1	-2.2998
Sn 189.925	11.2197b	ppb	2.3972	21.4	9.2035
Sr 216.596	2108.20b	ppb	5.9543	0.3	19827.4
Ti 334.941	743.533b	ppb	1.7066	0.2	188305
Tl 190.794	12.9387b	ppb	5.5612	43.0	0.3845
V 292.401	176.298b	ppb	0.1771	0.1	4837.73
Zn 206.200	236.562b	ppb	0.7110	0.3	367.258

E03292013.vvq. All Data Report 3/30/2013, 8:54:32 AM

680-88499-a-3-b (Samp) 3/29/2013, 7:07:19 PM Rack 2, Tube 34

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.9934u	-2.7884u	-2.2814u
Al 308.215	42293.8	42325.2	42351.6
As 188.980	178.785	177.412	182.486
B 249.678	15.8596	15.8848	15.1456
Ba 389.178	650.365	648.542	645.313
Be 313.042	2.8944	2.8968	2.8924
Ca 370.602	228241	227440	229278
Cd 226.502	-0.1021	-0.0186	-0.1859
Co 228.615	42.7506	41.9388	41.9590
Cr 267.716	205.735	206.433	207.068
Cu 324.754	72.3226	72.2178	75.0140
Fe 271.441	125267	125135	125081
K 766.491	10384.8	10331.8	10296.3
Mg 279.078	31303.6	31359.9	31433.7
Mn 257.610	1695.95	1698.69	1697.18
Mo 202.032	25.3761	25.5550	24.8999
Na 330.237	4561.05	4503.57	4583.93
Ni 231.604	155.993	157.900	157.136
Pb 220.353	74.4393	71.2135	66.9471
Sb 206.834	-5.0092u	5.4678	-0.4408
Se 196.026	5.4857	-22.0819u	-2.7644u
Sn 189.925	17.0300	10.1063	11.5295
Sr 216.596	846.492	849.708	856.028
Ti 334.941	2029.11	2033.99	2036.49
Tl 190.794	17.7053	8.7254u	11.2438
V 292.401	216.797	216.283	216.179
Zn 206.200	282.239	284.652	286.826

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-2.0210	ppb	0.9254	45.8	-228.447
Al 308.215	42323.5	ppb	28.9118	0.1	244731
As 188.980	179.561	ppb	2.6244	1.5	118.991
B 249.678	15.6300	ppb	0.4197	2.7	200.221
Ba 389.178	648.073	ppb	2.5583	0.4	13552.3
Be 313.042	2.8945	ppb	0.0022	0.1	5515.80
Ca 370.602	228320	ppb	921.4	0.4	725852
Cd 226.502	-0.1022	ppb	0.0837	81.8	275.253
Co 228.615	42.2161	ppb	0.4629	1.1	545.954
Cr 267.716	206.412	ppb	0.6668	0.3	8661.15
Cu 324.754	73.1848	ppb	1.5850	2.2	3700.43
Fe 271.441	125161	ppb	95.7968	0.1	210661
K 766.491	10337.6	ppb	44.5613	0.4	496159
Mg 279.078	31365.7	ppb	65.2593	0.2	64746.3
Mn 257.610	1697.27	ppb	1.3708	0.1	391298
Mo 202.032	25.2770	ppb	0.3387	1.3	170.081
Na 330.237	4549.52	ppb	41.4010	0.9	174.715
Ni 231.604	157.010	ppb	0.9598	0.6	373.832
Pb 220.353	70.8666	ppb	3.7582	5.3	116.400
Sb 206.834	0.0059	ppb	5.2528	88802.1	3.7909
Se 196.026	-6.4535	ppb	14.1492	219.2	-1.5140
Sn 189.925	12.8886	ppb	3.6565	28.4	10.1415
Sr 216.596	850.743	ppb	4.8512	0.6	8014.29
Ti 334.941	2033.20	ppb	3.7533	0.2	514769
Tl 190.794	12.5581	ppb	4.6320	36.9	0.7756
V 292.401	216.420	ppb	0.3310	0.2	5949.31
Zn 206.200	284.572	ppb	2.2945	0.8	441.222

E03292013.wvq. All Data Report 3/30/2013, 8:54:32 AM

680-88499-a-4-b (Samp)                      3/29/2013, 7:12:45 PM                      Rack 2, Tube 35  
 Weight: 1                                      Volume: 1                                      Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.2415u	-1.9754u	-2.8600u
Al 308.215	43376.2	43343.7	43496.6
As 188.980	136.232	133.294	136.561
B 249.678	36.0191	35.9025	36.6950
Ba 389.178	580.953	581.268	583.939
Be 313.042	3.9764	3.9856	4.0032
Ca 370.602	1143422x	1140105x	1146291x
Cd 226.502	0.8725	0.6685	0.5700
Co 228.615	39.8701	38.0464	39.4301
Cr 267.716	224.842	224.743	225.858
Cu 324.754	59.2017	57.2731	58.8736
Fe 271.441	124214	124516	124533
K 766.491	13989.7	13949.4	13928.2
Mg 279.078	27882.2	27834.4	27933.4
Mn 257.610	1816.34	1818.33	1821.41
Mo 202.032	30.0704	31.0707	30.6773
Na 330.237	4400.48	4618.69	4423.00
Ni 231.604	168.686	164.800	165.715
Pb 220.353	70.2117	64.7017	71.6442
Sb 206.834	-3.4924	-4.7129u	-4.3530
Se 196.026	-5.5737u	-6.3929u	-22.3284u
Sn 189.925	17.2094	14.5041	13.0196
Sr 216.596	1777.12	1769.17	1781.24
Ti 334.941	534.290	533.110	534.824
Tl 190.794	12.9865	10.9590	11.3813
V 292.401	177.194	177.539	177.115
Zn 206.200	223.527	225.933	225.414

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.6923b	ppb	1.3320	78.7	-245.601
Al 308.215	43405.5b	ppb	80.5423	0.2	250982
As 188.980	135.362b	ppb	1.7990	1.3	97.9946
B 249.678	36.2055b	ppb	0.4279	1.2	393.729
Ba 389.178	582.053b	ppb	1.6404	0.3	12179.1
Be 313.042	3.9884b	ppb	0.0136	0.3	7957.09
Ca 370.602	1143273xb	ppb	3096	0.3	3673955
Cd 226.502	0.7037b	ppb	0.1543	21.9	302.293
Co 228.615	39.1155b	ppb	0.9517	2.4	471.699
Cr 267.716	225.147b	ppb	0.6174	0.3	9442.00
Cu 324.754	58.4495b	ppb	1.0319	1.8	2980.83
Fe 271.441	124421b	ppb	179.416	0.1	209413
K 766.491	13955.8b	ppb	31.2493	0.2	669731
Mg 279.078	27883.3b	ppb	49.5541	0.2	57556.8
Mn 257.610	1818.70b	ppb	2.5516	0.1	419237
Mo 202.032	30.6061b	ppb	0.5040	1.6	204.350
Na 330.237	4480.72b	ppb	120.011	2.7	183.575
Ni 231.604	166.400b	ppb	2.0319	1.2	396.035
Pb 220.353	68.8526b	ppb	3.6654	5.3	113.942
Sb 206.834	-4.1861b	ppb	0.6272	15.0	1.2637
Se 196.026	-11.4316b	ppb	9.4457	82.6	-3.1141
Sn 189.925	14.9111b	ppb	2.1244	14.2	12.0015
Sr 216.596	1775.84b	ppb	6.1344	0.3	16730.4
Ti 334.941	534.075b	ppb	0.8773	0.2	135264
Tl 190.794	11.7756b	ppb	1.0697	9.1	0.1575
V 292.401	177.283b	ppb	0.2252	0.1	4851.20
Zn 206.200	224.958b	ppb	1.2665	0.6	348.984



E03292013.wvq. All Data Report 3/30/2013, 8:54:32 AM

680-88499-a-5-b (Samp)                      3/29/2013, 7:18:11 PM                      Rack 2, Tube 36  
 Weight: 1                                      Volume: 1                                      Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-1.1133u	-2.3230u	-2.6506u
Al 308.215	28893.2	28970.3	26063.3
As 188.980	104.492	100.288	94.6395
B 249.678	24.5153	24.3329	21.0932
Ba 389.178	465.797	469.621	423.583
Be 313.042	3.1977	3.2082	2.8892
Ca 370.602	658497	658261	596899
Cd 226.502	0.5463	0.3664	-0.3781
Co 228.615	27.2682	26.1035	23.6461
Cr 267.716	114.877	114.560	103.297
Cu 324.754	43.6536	45.8357	35.7765
Fe 271.441	101685	101899	90998.0
K 766.491	9924.81	9927.05	9072.76
Mg 279.078	18095.5	18091.7	16367.5
Mn 257.610	1641.25	1644.17	1488.14
Mo 202.032	15.9403	15.5737	14.0118
Na 330.237	3614.68	3736.39	3558.74
Ni 231.604	86.2664	84.4540	76.4763
Pb 220.353	61.4805	63.6827	59.4464
Sb 206.834	12.8764	2.0580	7.8292
Se 196.026	5.4325	0.7959	-10.0995u
Sn 189.925	16.8126	11.8196	10.7939
Sr 216.596	1099.16	1095.79	997.712
Ti 334.941	644.086	643.227	579.060
Tl 190.794	3.5023u	8.1622	3.5813u
V 292.401	152.314	151.678	137.747
Zn 206.200	184.789	184.245	166.673

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-2.0290	ppb	0.8097	39.9	-239.497
Al 308.215	27975.6	ppb	1656.53	5.9	161856
As 188.980	99.8067	ppb	4.9441	5.0	70.1321
B 249.678	23.3138	ppb	1.9252	8.3	297.422
Ba 389.178	453.000	ppb	25.5478	5.6	9476.86
Be 313.042	3.0984	ppb	0.1812	5.8	6059.83
Ca 370.602	637886	ppb	35496	5.6	2047579
Cd 226.502	0.1782	ppb	0.4901	275.1	226.939
Co 228.615	25.6726	ppb	1.8491	7.2	321.417
Cr 267.716	110.911	ppb	6.5958	5.9	4663.30
Cu 324.754	41.7553	ppb	5.2915	12.7	2157.54
Fe 271.441	98194.0	ppb	6232.86	6.3	165271
K 766.491	9641.54	ppb	492.578	5.1	462765
Mg 279.078	17518.2	ppb	996.565	5.7	36168.3
Mn 257.610	1591.19	ppb	89.2563	5.6	366730
Mo 202.032	15.1753	ppb	1.0242	6.7	106.631
Na 330.237	3636.61	ppb	90.8290	2.5	147.644
Ni 231.604	82.3989	ppb	5.2085	6.3	196.789
Pb 220.353	61.5365	ppb	2.1187	3.4	102.335
Sb 206.834	7.5878	ppb	5.4132	71.3	7.6082
Se 196.026	-1.2904	ppb	7.9734	617.9	0.0415
Sn 189.925	13.1420	ppb	3.2199	24.5	10.4865
Sr 216.596	1064.22	ppb	57.6206	5.4	10035.2
Ti 334.941	622.124	ppb	37.2972	6.0	157507
Tl 190.794	5.0820	ppb	2.6679	52.5	-3.1321
V 292.401	147.246	ppb	8.2326	5.6	4039.63
Zn 206.200	178.569	ppb	10.3954	5.8	275.595

E03292013.wvq. All Data Report 3/30/2013, 8:54:32 AM

Cont Calib Verif (CCV) 3/29/2013, 7:23:37 PM Rack 2, Tube 37  
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	501.347	492.543	497.454
Al 308.215	5051.03	5015.93	5048.99
As 188.980	523.259	522.648	533.919
B 249.678	569.611	571.314	581.820
Ba 389.178	4606.32	4595.66	4632.12
Be 313.042	483.256	479.113	480.935
Ca 370.602	4840	4786	4819
Cd 226.502	476.982	473.437	478.352
Co 228.615	475.710	471.999	476.723
Cr 267.716	4779.89	4723.62	4756.89
Cu 324.754	4565.67	4574.46	4623.57
Fe 271.441	5096.05	5059.74	5095.45
K 766.491	9900.93	9831.42	9888.80
Mg 279.078	5071.77	5017.55	5054.29
Mn 257.610	4745.80	4699.14	4747.66
Mo 202.032	492.561	483.612	489.769
Na 330.237	7539.55	7209.31	7613.31
Ni 231.604	2394.78	2373.74	2391.76
Pb 220.353	499.247	491.757	495.129
Sb 206.834	1003.23	968.999	978.507
Se 196.026	5029.61	5020.99	5071.27
Sn 189.925	5072.24	5007.78	5010.24
Sr 216.596	2482.60	2449.28	2462.00
Ti 334.941	497.933	492.130	494.229
Tl 190.794	5031.87	4940.11	4997.62
V 292.401	4960.61	4925.51	4959.39
Zn 206.200	2413.72	2386.69	2408.21

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	497.115	ppb	4.4117	0.9	35259.5	99.42296
Al 308.215	5038.65	ppb	19.7043	0.4	29346.0	100.77296
As 188.980	526.609	ppb	6.3383	1.2	348.200	105.32179
B 249.678	574.249	ppb	6.6125	1.2	5545.19	22.96994Q
Ba 389.178	4611.37	ppb	18.7448	0.4	95779.5	92.22736
Be 313.042	481.102	ppb	2.0765	0.4	929633	96.22032
Ca 370.602	4815	ppb	27.41	0.6	15360	96.29748
Cd 226.502	476.257	ppb	2.5363	0.5	17058.7	95.25137
Co 228.615	474.811	ppb	2.4867	0.5	5447.90	94.96212
Cr 267.716	4753.46	ppb	28.2935	0.6	198575	95.06930
Cu 324.754	4587.90	ppb	31.2028	0.7	224198	91.75803
Fe 271.441	5083.74	ppb	20.7934	0.4	8678.00	101.67485
K 766.491	9873.71	ppb	37.1297	0.4	473903	98.73715
Mg 279.078	5047.87	ppb	27.6748	0.5	10372.4	100.95742
Mn 257.610	4730.87	ppb	27.4947	0.6	1089088	94.61733
Mo 202.032	488.647	ppb	4.5791	0.9	3138.22	97.72948
Na 330.237	7454.05	ppb	215.141	2.9	356.387	99.38739
Ni 231.604	2386.76	ppb	11.3767	0.5	5647.27	95.47041
Pb 220.353	495.378	ppb	3.7511	0.8	803.122	99.07553
Sb 206.834	983.579	ppb	17.6699	1.8	636.424	98.35786
Se 196.026	5040.62	ppb	26.8887	0.5	1637.58	100.81239
Sn 189.925	5030.08	ppb	36.5252	0.7	3765.55	100.60169
Sr 216.596	2464.63	ppb	16.8163	0.7	22970.2	98.58503
Ti 334.941	494.764	ppb	2.9384	0.6	125204	98.95283
Tl 190.794	4989.87	ppb	46.3704	0.9	3259.00	99.79730
V 292.401	4948.50	ppb	19.9208	0.4	135197	98.97010
Zn 206.200	2402.87	ppb	14.2832	0.6	3793.13	96.11496

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Cont Calib Blank (CCB) 3/29/2013, 7:29:03 PM Rack 2, Tube 38

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.0530u	-0.8829u	-0.4338u
Al 308.215	-0.3224u	0.2319	-0.8159u
As 188.980	-0.8105u	3.6206	6.8422
B 249.678	2.7918	0.9617	0.7630
Ba 389.178	-0.1718u	-0.1138u	0.4606
Be 313.042	-0.0523u	-0.0485u	-0.0572u
Ca 370.602	3.874	-0.1340u	-1.712u
Cd 226.502	0.0367	0.0709	0.2051
Co 228.615	-0.3439u	-0.8189u	-0.6701u
Cr 267.716	0.2812	-0.3545u	-0.1052u
Cu 324.754	-1.1230u	-0.4658u	-0.1361u
Fe 271.441	-7.5702u	-4.2810u	2.2933
K 766.491	-0.3293u	0.4752	-1.3388u
Mg 279.078	-1.8431u	-0.1735u	-0.6501u
Mn 257.610	-0.2379u	-0.2886u	-0.2119u
Mo 202.032	-0.2452u	0.5003	0.5173
Na 330.237	31.8132	90.1339	-108.647u
Ni 231.604	-0.6177u	2.9454	-0.0166u
Pb 220.353	0.8719	1.2594	-3.3634u
Sb 206.834	-4.1524u	12.5930	0.4480
Se 196.026	3.1631	16.0714	8.6910
Sn 189.925	-0.8721u	0.8704	-1.6502u
Sr 216.596	0.7114	0.1351	0.2707
Ti 334.941	0.2059	0.0695	0.0586
Tl 190.794	1.8709	8.0419	6.0677
V 292.401	-0.0749u	-0.1250u	0.2656
Zn 206.200	-0.1015u	-0.5142u	0.7862

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	-0.4566	ppb	0.4154	91.0	-89.0502	-0.45657
Al 308.215	-0.3022	ppb	0.5242	173.5	264.711	-0.30217
As 188.980	3.2174	ppb	3.8422	119.4	1.3822	3.21744
B 249.678	1.5055	ppb	1.1184	74.3	184.741	1.50548
Ba 389.178	0.0583	ppb	0.3496	599.4	-2.3064	0.05832
Be 313.042	-0.0527	ppb	0.0044	8.3	-250.315	-0.05268
Ca 370.602	0.6760	ppb	2.880	426.0	-4.760	0.67601
Cd 226.502	0.1042	ppb	0.0890	85.4	12.7497	0.10425
Co 228.615	-0.6110	ppb	0.2430	39.8	8.5893	-0.61097
Cr 267.716	-0.0595	ppb	0.3203	538.2	0.7499	-0.05951
Cu 324.754	-0.5750	ppb	0.5024	87.4	62.1791	-0.57497
Fe 271.441	-3.1859	ppb	5.0221	157.6	-2.1152	-3.18594
K 766.491	-0.3977	ppb	0.9089	228.6	212.773	-0.39766
Mg 279.078	-0.8889	ppb	0.8601	96.8	27.4044	-0.88888
Mn 257.610	-0.2461	ppb	0.0390	15.8	36.2765	-0.24612
Mo 202.032	0.2574	ppb	0.4354	169.1	15.5844	0.25744
Na 330.237	4.4333	ppb	102.180	2304.8	-3.7061	4.43331
Ni 231.604	0.7704	ppb	1.9075	247.6	1.8097	0.77038
Pb 220.353	-0.4107	ppb	2.5644	624.4	2.8431	-0.41070
Sb 206.834	2.9629	ppb	8.6513	292.0	2.8051	2.96288
Se 196.026	9.3085	ppb	6.4763	69.6	2.8470	9.30851
Sn 189.925	-0.5506	ppb	1.2907	234.4	-0.0035	-0.55065
Sr 216.596	0.3724	ppb	0.3013	80.9	14.4378	0.37241
Ti 334.941	0.1113	ppb	0.0821	73.7	-33.3881	0.11131
Tl 190.794	5.3268	ppb	3.1515	59.2	1.7985	5.32684
V 292.401	0.0219	ppb	0.2126	970.1	6.0605	0.02191
Zn 206.200	0.0568	ppb	0.645	1136.2	5.158923	0.05683

E03292013.vvq. All Data Report 3/30/2013, 8:54:32 AM

680-88516-a-1-c (Samp) 3/29/2013, 7:34:29 PM Rack 2, Tube 39

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.8063u	0.3150	0.0848u
Al 308.215	62249.3	62190.2	62177.0
As 188.980	1316.14	1306.47	1308.73
B 249.678	12.6242	10.8354u	12.0003
Ba 389.178	1098.91	1099.45	1103.53
Be 313.042	3.7080	3.7375	3.7117
Ca 370.602	23651	23630	23645
Cd 226.502	0.7855	0.7803	0.7387
Co 228.615	27.8286	27.3567	27.4914
Cr 267.716	106.391	106.266	106.321
Cu 324.754	241.316	242.501	242.392
Fe 271.441	116867	116721	117112
K 766.491	3844.20	3842.35	3853.78
Mg 279.078	3225.34	3216.03	3207.15
Mn 257.610	693.346	692.217	693.201
Mo 202.032	10.7167	10.7318	10.7242
Na 330.237	440.601u	269.141u	346.722u
Ni 231.604	79.7526	80.2294	80.5168
Pb 220.353	299.090	294.472	297.218
Sb 206.834	-8.2400u	11.7097	9.7495
Se 196.026	-6.8822u	5.1745	1.5537
Sn 189.925	51.8993	45.6986	45.4114
Sr 216.596	585.422	584.843	583.714
Ti 334.941	1915.67	1914.87	1914.88
Tl 190.794	9.0637	14.2929	-0.6977u
V 292.401	216.710	216.964	217.050
Zn 206.200	346.612	343.538	347.205

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1355	ppb	0.5922	437.0	-86.5648
Al 308.215	62205.5	ppb	38.4762	0.1	359570
As 188.980	1310.45	ppb	5.0584	0.4	866.914
B 249.678	11.8200	ppb	0.9079	7.7	172.228
Ba 389.178	1100.63	ppb	2.5258	0.2	22932.1
Be 313.042	3.7191	ppb	0.0160	0.4	7042.89
Ca 370.602	23642	ppb	10.90	0.0	66933
Cd 226.502	0.7682	ppb	0.0257	3.3	288.295
Co 228.615	27.5589	ppb	0.2431	0.9	375.687
Cr 267.716	106.326	ppb	0.0628	0.1	4474.01
Cu 324.754	242.070	ppb	0.6548	0.3	11948.5
Fe 271.441	116900	ppb	197.653	0.2	196755
K 766.491	3846.78	ppb	6.1376	0.2	184773
Mg 279.078	3216.17	ppb	9.0962	0.3	6658.43
Mn 257.610	692.922	ppb	0.6140	0.1	159927
Mo 202.032	10.7242	ppb	0.0076	0.1	77.1472
Na 330.237	352.155	ppb	85.8588	24.4	-38.3103
Ni 231.604	80.1663	ppb	0.3860	0.5	191.869
Pb 220.353	296.927	ppb	2.3229	0.8	480.882
Sb 206.834	4.4064	ppb	10.9959	249.5	5.9254
Se 196.026	-0.0513	ppb	6.1865	12057.0	0.3698
Sn 189.925	47.6698	ppb	3.6657	7.7	36.0973
Sr 216.596	584.660	ppb	0.8687	0.1	5510.94
Ti 334.941	1915.14	ppb	0.4596	0.0	484768
Tl 190.794	7.5530	ppb	7.6086	100.7	-1.2564
V 292.401	216.908	ppb	0.1767	0.1	5969.20
Zn 206.200	345.785	ppb	1.9683	0.6	526.177

680-88516-a-2-c (Samp) 3/29/2013, 7:39:54 PM Rack 2, Tube 40

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.6947	0.3048	0.1774
Al 308.215	24602.7	24678.5	24666.1
As 188.980	214.736	214.732	219.888
B 249.678	6.2364u	5.7040u	5.4051u
Ba 389.178	733.323	735.748	736.171
Be 313.042	3.0110	3.0155	3.0133
Ca 370.602	26629	26690	26697
Cd 226.502	0.5215	0.8854	0.6913
Co 228.615	30.4444	30.4510	30.4730
Cr 267.716	62.3572	62.3876	63.1340
Cu 324.754	684.565	678.411	681.829
Fe 271.441	103323	103790	103679
K 766.491	2869.05	2883.32	2885.07
Mg 279.078	2635.90	2643.06	2643.46
Mn 257.610	892.306	894.820	893.008
Mo 202.032	8.0608	9.4182	9.1815
Na 330.237	493.319u	373.756u	622.235u
Ni 231.604	59.0644	62.2290	60.4649
Pb 220.353	906.453	902.809	907.813
Sb 206.834	29.4089	17.9750	18.2082
Se 196.026	4.1008	-4.7014u	5.4436
Sn 189.925	218.676	211.203	212.548
Sr 216.596	379.483	380.397	380.465
Ti 334.941	1325.72	1328.22	1330.23
Tl 190.794	8.0289	9.2365	-2.3165u
V 292.401	106.625	106.889	107.683
Zn 206.200	378.657	383.333	381.599

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.3923	ppb	0.2695	68.7	-40.4446
Al 308.215	24649.1	ppb	40.6780	0.2	142642
As 188.980	216.452	ppb	2.9752	1.4	141.853
B 249.678	5.7818	ppb	0.4211	7.3	128.122
Ba 389.178	735.080	ppb	1.5370	0.2	15331.5
Be 313.042	3.0133	ppb	0.0022	0.1	5680.57
Ca 370.602	26672	ppb	37.33	0.1	77691
Cd 226.502	0.6994	ppb	0.1821	26.0	257.099
Co 228.615	30.4561	ppb	0.0150	0.0	394.020
Cr 267.716	62.6263	ppb	0.4400	0.7	2645.89
Cu 324.754	681.602	ppb	3.0831	0.5	33418.9
Fe 271.441	103597	ppb	243.940	0.2	174365
K 766.491	2879.15	ppb	8.7908	0.3	138353
Mg 279.078	2640.81	ppb	4.2557	0.2	5476.50
Mn 257.610	893.378	ppb	1.2975	0.1	206029
Mo 202.032	8.8869	ppb	0.7251	8.2	66.1424
Na 330.237	496.437	ppb	124.269	25.0	-22.6227
Ni 231.604	60.5861	ppb	1.5858	2.6	145.279
Pb 220.353	905.692	ppb	2.5874	0.3	1464.71
Sb 206.834	21.8640	ppb	6.5351	29.9	16.2963
Se 196.026	1.6144	ppb	5.5107	341.4	0.8920
Sn 189.925	214.142	ppb	3.9831	1.9	160.707
Sr 216.596	380.115	ppb	0.5479	0.1	3597.34
Ti 334.941	1328.06	ppb	2.2589	0.2	336148
Tl 190.794	4.9830	ppb	6.3503	127.4	-2.7170
V 292.401	107.066	ppb	0.5509	0.5	2954.03
Zn 206.200	381.196	ppb	2.3640	0.6	591.066

E03292013.wvq. All Data Report 3/30/2013, 8:54:32 AM

680-88516-a-3-c (Samp)                      3/29/2013, 7:45:20 PM                      Rack 2, Tube 41  
 Weight: 1                                      Volume: 1                                      Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-1.1291u	-1.8323u	-0.4101u
Al 308.215	81277.1	81220.0	81099.0
As 188.980	31.7611	28.7321	27.3745
B 249.678	-44.0553u	-42.9550u	-44.3213u
Ba 389.178	75.2940	76.3788	74.7351
Be 313.042	1.2019	1.2152	1.1901
Ca 370.602	11584u	11601u	11607u
Cd 226.502	-4.4889	-3.7057	-4.6393
Co 228.615	0.4118	0.4591	-1.8419u
Cr 267.716	486.105	485.201	484.457
Cu 324.754	119.944	119.212	118.410
Fe 271.441	575258	575892	573915
K 766.491	1097.77	1104.22	1099.11
Mg 279.078	983.823	985.592	978.238
Mn 257.610	449.756	450.298	449.566
Mo 202.032	8.4329	8.1579	7.6068
Na 330.237	-294.191u	-64.1001u	-110.976u
Ni 231.604	1.3693	0.6230	2.1632
Pb 220.353	85.9743	84.5004	85.6495
Sb 206.834	-7.0390	-2.6273	-11.1388
Se 196.026	-37.1103u	-21.7869u	-12.2932u
Sn 189.925	19.5695	27.0466	18.1820
Sr 216.596	67.3800	65.9316	67.0801
Ti 334.941	1261.24	1261.56	1259.15
Tl 190.794	21.1340u	6.1693u	14.1532u
V 292.401	786.872	788.529	786.120
Zn 206.200	58.3407	52.3846	53.9557

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.1238	ppb	0.7111	63.3	-134.641
Al 308.215	81198.7	ppb	90.9614	0.1	469266
As 188.980	29.2893	ppb	2.2458	7.7	12.5032
B 249.678	-43.7772	ppb	0.7244	1.7	-776.256
Ba 389.178	75.4693	ppb	0.8358	1.1	1942.87
Be 313.042	1.2024	ppb	0.0126	1.0	2147.61
Ca 370.602	11598	ppb	12.01	0.1	-9713
Cd 226.502	-4.2779	ppb	0.5013	11.7	1094.21
Co 228.615	-0.3237	ppb	1.3151	406.3	26.2468
Cr 267.716	485.254	ppb	0.8252	0.2	20392.9
Cu 324.754	119.189	ppb	0.7670	0.6	6071.97
Fe 271.441	575022	ppb	1009.39	0.2	967781
K 766.491	1100.37	ppb	3.4020	0.3	53019.7
Mg 279.078	982.551	ppb	3.8383	0.4	2127.90
Mn 257.610	449.874	ppb	0.3799	0.1	105218
Mo 202.032	8.0658	ppb	0.4207	5.2	38.8683
Na 330.237	-156.422	ppb	121.592	77.7	-194.533
Ni 231.604	1.3852	ppb	0.7702	55.6	14.0316
Pb 220.353	85.3747	ppb	0.7744	0.9	139.320
Sb 206.834	-6.9350	ppb	4.2567	61.4	7.6478
Se 196.026	-23.7301	ppb	12.5222	52.8	-5.5971
Sn 189.925	21.5994	ppb	4.7682	22.1	16.5689
Sr 216.596	66.7973	ppb	0.7645	1.1	839.418
Ti 334.941	1260.65	ppb	1.3096	0.1	319128
Tl 190.794	13.8188	ppb	7.4880	54.2	-12.1284
V 292.401	787.174	ppb	1.2325	0.2	21559.3
Zn 206.200	54.8937	ppb	3.0868	5.6	85.2226

E03292013.wvq. All Data Report 3/30/2013, 8:54:32 AM

680-88516-a-4-c (Samp) 3/29/2013, 7:50:45 PM Rack 2, Tube 42

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-1.0950u	-0.7940u	-1.2375u
Al 308.215	52129.3	51723.9	52142.0
As 188.980	18.1652	15.1603	19.7578
B 249.678	-26.0448u	-26.2935u	-27.3013u
Ba 389.178	50.0895	48.6794	49.2739
Be 313.042	0.7993	0.8107	0.8026
Ca 370.602	2850u	2911u	2873u
Cd 226.502	-1.9031	-1.9007	-1.6510
Co 228.615	1.6450	1.6677	1.6298
Cr 267.716	269.559	267.291	269.396
Cu 324.754	56.7193	56.2267	56.5737
Fe 271.441	206585	204895	206885
K 766.491	883.991	876.919	887.014
Mg 279.078	1019.72	993.367	1013.45
Mn 257.610	199.029	197.263	199.031
Mo 202.032	3.7050	5.1507	5.3083
Na 330.237	298.969u	284.970u	-149.579u
Ni 231.604	8.7203	8.5146	6.8238
Pb 220.353	46.0772	46.6653	44.1709
Sb 206.834	3.3009	10.8363	4.9997
Se 196.026	10.3309	0.7868	-15.2518u
Sn 189.925	15.5398	17.9125	16.3599
Sr 216.596	17.1944	17.4508	16.7416
Ti 334.941	1098.50	1089.29	1098.58
Tl 190.794	7.1901u	-0.8178u	7.4458u
V 292.401	615.964	611.502	617.990
Zn 206.200	37.9544	35.6433	36.3523

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.0422	ppb	0.2264	21.7	-127.557
Al 308.215	51998.4	ppb	237.792	0.5	300605
As 188.980	17.6944	ppb	2.3346	13.2	8.7590
B 249.678	-26.5465	ppb	0.6654	2.5	-270.531
Ba 389.178	49.3476	ppb	0.7079	1.4	1158.20
Be 313.042	0.8042	ppb	0.0059	0.7	1385.36
Ca 370.602	2878	ppb	30.65	1.1	-7490
Cd 226.502	-1.8183	ppb	0.1449	8.0	387.993
Co 228.615	1.6475	ppb	0.0191	1.2	56.3482
Cr 267.716	268.748	ppb	1.2648	0.5	11271.6
Cu 324.754	56.5066	ppb	0.2531	0.4	2904.59
Fe 271.441	206122	ppb	1073.24	0.5	346915
K 766.491	882.641	ppb	5.1813	0.6	42574.8
Mg 279.078	1008.85	ppb	13.7662	1.4	2129.43
Mn 257.610	198.441	ppb	1.0202	0.5	46338.0
Mo 202.032	4.7213	ppb	0.8837	18.7	34.0455
Na 330.237	144.787	ppb	255.024	176.1	-67.0681
Ni 231.604	8.0196	ppb	1.0406	13.0	22.8304
Pb 220.353	45.6378	ppb	1.3040	2.9	75.7209
Sb 206.834	6.3790	ppb	3.9525	62.0	9.4078
Se 196.026	-1.3780	ppb	12.9280	938.1	0.2021
Sn 189.925	16.6041	ppb	1.2051	7.3	12.8341
Sr 216.596	17.1289	ppb	0.3591	2.1	244.089
Ti 334.941	1095.46	ppb	5.3411	0.5	277271
Tl 190.794	4.6060	ppb	4.6989	102.0	-5.5846
V 292.401	615.152	ppb	3.3191	0.5	16857.9
Zn 206.200	36.6500	ppb	1.1840	3.2	5756670

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680-88516-a-5-c (Samp) 3/29/2013, 7:56:21 PM Rack 2, Tube 43

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.4414	-0.8464u	0.2031u
Al 308.215	23303.0	23262.1	23257.7
As 188.980	106.672	115.295	109.208
B 249.678	-0.7100u	1.9599u	0.8777u
Ba 389.178	649.949	650.676	650.942
Be 313.042	2.7542	2.7384	2.7536
Ca 370.602	14494	14486	14480
Cd 226.502	-0.0143	-0.0346	-0.3777
Co 228.615	36.1678	36.2845	35.8288
Cr 267.716	48.8243	48.7018	48.5827
Cu 324.754	582.026	597.650	593.627
Fe 271.441	117348	117255	117185
K 766.491	2750.63	2757.57	2762.12
Mg 279.078	2031.15	2026.76	2016.80
Mn 257.610	803.889	802.506	801.432
Mo 202.032	7.2309	7.7794	6.8211
Na 330.237	494.895u	146.606u	395.665u
Ni 231.604	69.3778	64.4502	67.0653
Pb 220.353	481.033	480.631	481.996
Sb 206.834	12.2285	9.0836	-0.4107
Se 196.026	-10.6380u	4.8391	-9.8716u
Sn 189.925	81.6356	78.1715	76.1318
Sr 216.596	433.622	432.678	432.259
Ti 334.941	1316.87	1316.52	1317.22
Tl 190.794	1.0429u	11.0888	6.2923u
V 292.401	81.0871	81.4895	81.3342
Zn 206.200	172.733	174.847	172.836

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0673	ppb	0.6852	1018.2	-75.9213
Al 308.215	23274.3	ppb	25.0024	0.1	134701
As 188.980	110.392	ppb	4.4315	4.0	71.2841
B 249.678	0.7092	ppb	1.3429	189.4	67.8512
Ba 389.178	650.522	ppb	0.5137	0.1	13584.0
Be 313.042	2.7487	ppb	0.0089	0.3	5165.83
Ca 370.602	14487	ppb	7.348	0.1	37295
Cd 226.502	-0.1422	ppb	0.2042	143.6	256.391
Co 228.615	36.0937	ppb	0.2367	0.7	457.785
Cr 267.716	48.7029	ppb	0.1208	0.2	2066.84
Cu 324.754	591.101	ppb	8.1125	1.4	29001.7
Fe 271.441	117263	ppb	81.9824	0.1	197365
K 766.491	2756.77	ppb	5.7850	0.2	132482
Mg 279.078	2024.90	ppb	7.3509	0.4	4209.62
Mn 257.610	802.609	ppb	1.2316	0.2	185169
Mo 202.032	7.2771	ppb	0.4808	6.6	55.2603
Na 330.237	345.722	ppb	179.435	51.9	-32.8310
Ni 231.604	66.9644	ppb	2.4654	3.7	160.625
Pb 220.353	481.220	ppb	0.7018	0.1	779.441
Sb 206.834	6.9671	ppb	6.5800	94.4	7.1921
Se 196.026	-5.2235	ppb	8.7229	167.0	-1.2908
Sn 189.925	78.6463	ppb	2.7824	3.5	59.2805
Sr 216.596	432.853	ppb	0.6984	0.2	4093.40
Ti 334.941	1316.87	ppb	0.3488	0.0	333314
Tl 190.794	6.1413	ppb	5.0246	81.8	-2.3367
V 292.401	81.3036	ppb	0.2029	0.2	2249.27
Zn 206.200	173.472	ppb	1.1916	0.7	269.899



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Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-1.7579u	-1.3493u	-1.3435u
Al 308.215	82145.5	83177.9	83314.4
As 188.980	24.9957	26.1264	14.7349
B 249.678	-11.8444u	-11.8553u	-11.0603u
Ba 389.178	252.283	257.791	257.350
Be 313.042	1.3135	1.3487	1.3431
Ca 370.602	5722	5774	5767
Cd 226.502	-0.9277	-0.6203	-0.6596
Co 228.615	5.5612	5.8531	5.6720
Cr 267.716	126.060	126.958	126.787
Cu 324.754	237.393	239.963	241.167
Fe 271.441	98112.7	99326.4	99582.7
K 766.491	2045.82	2078.13	2087.04
Mg 279.078	1626.71	1650.91	1646.60
Mn 257.610	263.301	266.310	266.769
Mo 202.032	2.6893	1.8092	2.5255
Na 330.237	114.704u	208.039u	-130.151u
Ni 231.604	21.8193	20.6575	19.6351
Pb 220.353	126.035	130.314	127.541
Sb 206.834	-2.7333	3.7086	-0.3950
Se 196.026	-2.5059u	-4.3867u	-3.3397u
Sn 189.925	19.9268	22.4588	27.4590
Sr 216.596	96.2224	98.5116	97.5192
Ti 334.941	877.615	886.510	888.195
Tl 190.794	1.9168u	8.7884	1.6587u
V 292.401	417.534	422.848	423.861
Zn 206.200	75.6408	76.3802	74.9969

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.4836	ppb	0.2376	16.0	-162.549
Al 308.215	82879.2	ppb	639.125	0.8	478979
As 188.980	21.9523	ppb	6.2760	28.6	12.7753
B 249.678	-11.5867	ppb	0.4559	3.9	-30.3531
Ba 389.178	255.808	ppb	3.0606	1.2	5375.44
Be 313.042	1.3351	ppb	0.0189	1.4	2424.92
Ca 370.602	5754	ppb	28.52	0.5	10561
Cd 226.502	-0.7359	ppb	0.1673	22.7	195.976
Co 228.615	5.6954	ppb	0.1473	2.6	100.360
Cr 267.716	126.602	ppb	0.4771	0.4	5312.59
Cu 324.754	239.507	ppb	1.9277	0.8	11815.9
Fe 271.441	99007.3	ppb	785.240	0.8	166639
K 766.491	2070.33	ppb	21.6882	1.0	99551.7
Mg 279.078	1641.41	ppb	12.9072	0.8	3405.85
Mn 257.610	265.460	ppb	1.8837	0.7	61476.0
Mo 202.032	2.3413	ppb	0.4680	20.0	23.8554
Na 330.237	64.1975	ppb	174.661	272.1	-37.7432
Ni 231.604	20.7040	ppb	1.0928	5.3	50.8513
Pb 220.353	127.963	ppb	2.1703	1.7	208.205
Sb 206.834	0.1934	ppb	3.2610	1685.7	3.2418
Se 196.026	-3.4108	ppb	0.9424	27.6	-0.8594
Sn 189.925	23.2816	ppb	3.8329	16.5	17.8356
Sr 216.596	97.4177	ppb	1.1480	1.2	955.691
Ti 334.941	884.107	ppb	5.6849	0.6	223763
Tl 190.794	4.1213	ppb	4.0439	98.1	-2.4300
V 292.401	421.415	ppb	3.3986	0.8	11555.8
Zn 206.200	75.6726	ppb	0.6922	0.9	518.438

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680-88516-a-7-c (Samp) 3/29/2013, 8:07:13 PM Rack 2, Tube 45

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-2.0515u	-0.3582u	-0.6188u
Al 308.215	88442.5	88532.6	88021.9
As 188.980	10.8372	12.9564	9.6411
B 249.678	-14.1039u	-15.2639u	-16.6168u
Ba 389.178	121.224	120.713	122.540
Be 313.042	1.4617	1.4565	1.4519
Ca 370.602	4878	4893	4863
Cd 226.502	-0.8857	-1.2484	-1.2669
Co 228.615	4.8777	5.8625	5.2123
Cr 267.716	158.697	159.445	158.830
Cu 324.754	78.9654	80.2849	79.6627
Fe 271.441	133475	133552	133005
K 766.491	2247.46	2248.69	2243.63
Mg 279.078	1765.57	1770.56	1750.24
Mn 257.610	159.142	159.215	158.644
Mo 202.032	4.1127	3.3423	4.2086
Na 330.237	218.610u	-43.5601u	-1.3677u
Ni 231.604	16.7278	16.3480	14.9910
Pb 220.353	82.1753	82.5050	76.1875
Sb 206.834	-2.4588	-0.7564	0.8109
Se 196.026	-15.5637u	-18.1750u	-10.0146u
Sn 189.925	17.9228	19.8832	23.9024
Sr 216.596	38.1834	38.6663	38.1250
Ti 334.941	1083.36	1082.58	1079.10
Tl 190.794	0.9441u	6.5756u	8.1640
V 292.401	636.815	637.668	635.623
Zn 206.200	60.8740	65.3403	62.1522

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.0095	ppb	0.9118	90.3	-125.719
Al 308.215	88332.4	ppb	272.583	0.3	510473
As 188.980	11.1449	ppb	1.6790	15.1	5.2285
B 249.678	-15.3282	ppb	1.2577	8.2	-97.4742
Ba 389.178	121.492	ppb	0.9428	0.8	2609.09
Be 313.042	1.4567	ppb	0.0049	0.3	2651.60
Ca 370.602	4878	ppb	14.82	0.3	4945
Cd 226.502	-1.1337	ppb	0.2150	19.0	255.725
Co 228.615	5.3175	ppb	0.5007	9.4	100.062
Cr 267.716	158.991	ppb	0.3994	0.3	6671.03
Cu 324.754	79.6377	ppb	0.6601	0.8	4013.37
Fe 271.441	133344	ppb	296.332	0.2	224429
K 766.491	2246.59	ppb	2.6406	0.1	108008
Mg 279.078	1762.13	ppb	10.5900	0.6	3661.14
Mn 257.610	159.000	ppb	0.3110	0.2	37065.4
Mo 202.032	3.8879	ppb	0.4749	12.2	31.8898
Na 330.237	57.8940	ppb	140.774	243.2	-49.8082
Ni 231.604	16.0223	ppb	0.9131	5.7	40.4177
Pb 220.353	80.2893	ppb	3.5561	4.4	131.014
Sb 206.834	-0.8014	ppb	1.6353	204.0	3.2985
Se 196.026	-14.5844	ppb	4.1674	28.6	-4.3733
Sn 189.925	20.5695	ppb	3.0483	14.8	15.8045
Sr 216.596	38.3249	ppb	0.2971	0.8	416.199
Ti 334.941	1081.68	ppb	2.2715	0.2	273781
Tl 190.794	5.2279	ppb	3.7939	72.6	-2.6870
V 292.401	636.702	ppb	1.0269	0.2	17454.6
Zn 206.200	62.7888	ppb	2.3002	3.7	98.4168

E03292013.wvq. All Data Report 3/30/2013, 8:54:32 AM

680-88516-a-8-c (Samp) 3/29/2013, 8:12:38 PM Rack 2, Tube 46

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.2207u	0.3347	-0.0196u
Al 308.215	20980.3	20938.5	20926.1
As 188.980	302.263	312.110	310.786
B 249.678	15.4199	15.4623	15.5884
Ba 389.178	726.269	723.158	723.226
Be 313.042	3.0043	2.9982	2.9956
Ca 370.602	22544	22546	22517
Cd 226.502	3.2515	3.0542	2.8784
Co 228.615	24.6095	24.2415	25.7121
Cr 267.716	104.763	104.268	104.387
Cu 324.754	382.325	382.241	378.817
Fe 271.441	110029	109859	109819
K 766.491	4985.38	4996.74	5002.15
Mg 279.078	5080.44	5082.37	5068.81
Mn 257.610	1101.16	1099.58	1099.55
Mo 202.032	9.8905	10.3074	9.9274
Na 330.237	459.530u	377.345u	126.904u
Ni 231.604	60.3182	60.9429	59.5524
Pb 220.353	793.554	790.363	788.774
Sb 206.834	26.1765	13.1099	18.4090
Se 196.026	11.4871	3.1617	-5.9370u
Sn 189.925	138.493	135.207	134.846
Sr 216.596	366.465	365.324	366.084
Ti 334.941	1246.67	1249.40	1248.25
Tl 190.794	4.5405u	-0.2108u	3.5239u
V 292.401	93.3496	93.6803	93.1944
Zn 206.200	824.772	827.489	826.918

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0315	ppb	0.2812	893.8	-64.6657
Al 308.215	20948.3	ppb	28.4239	0.1	121266
As 188.980	308.387	ppb	5.3442	1.7	202.691
B 249.678	15.4902	ppb	0.0876	0.6	213.107
Ba 389.178	724.218	ppb	1.7771	0.2	15111.2
Be 313.042	2.9993	ppb	0.0045	0.1	5651.81
Ca 370.602	22536	ppb	16.46	0.1	63826
Cd 226.502	3.0613	ppb	0.1867	6.1	355.383
Co 228.615	24.8544	ppb	0.7653	3.1	327.839
Cr 267.716	104.473	ppb	0.2582	0.2	4396.22
Cu 324.754	381.128	ppb	2.0013	0.5	18741.3
Fe 271.441	109902	ppb	111.732	0.1	184975
K 766.491	4994.76	ppb	8.5583	0.2	239845
Mg 279.078	5077.21	ppb	7.3318	0.1	10503.8
Mn 257.610	1100.09	ppb	0.9188	0.1	253642
Mo 202.032	10.0418	ppb	0.2308	2.3	73.2867
Na 330.237	321.260	ppb	173.260	53.9	-36.2411
Ni 231.604	60.2712	ppb	0.6964	1.2	144.653
Pb 220.353	790.897	ppb	2.4343	0.3	1279.53
Sb 206.834	19.2318	ppb	6.5721	34.2	14.9917
Se 196.026	2.9039	ppb	8.7149	300.1	1.3691
Sn 189.925	136.182	ppb	2.0094	1.5	102.350
Sr 216.596	365.958	ppb	0.5809	0.2	3467.08
Ti 334.941	1248.11	ppb	1.3691	0.1	315919
Tl 190.794	2.6179	ppb	2.5019	95.6	-4.6841
V 292.401	93.4081	ppb	0.2482	0.3	2575.90
Zn 206.200	826.393	ppb	1.4325	0.2	1279.36

E03292013.wvq. All Data Report 3/30/2013, 8:54:32 AM

680-88516-a-9-c (Samp) 3/29/2013, 8:18:04 PM Rack 2, Tube 47

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.3050	0.6519	-0.4116u
Al 308.215	28872.6	28935.4	29171.3
As 188.980	84.5986	83.5486	86.1892
B 249.678	-2.5142u	-0.8943u	-1.0705u
Ba 389.178	668.364	672.328	675.208
Be 313.042	2.7622	2.7600	2.7921
Ca 370.602	13388	13428	13499
Cd 226.502	0.8606	0.9325	1.0008
Co 228.615	21.6168	21.1095	21.1484
Cr 267.716	46.9649	47.0120	46.7645
Cu 324.754	418.883	421.566	425.305
Fe 271.441	99620.5	99895.0	100566
K 766.491	3494.21	3513.46	3536.97
Mg 279.078	2907.42	2912.64	2935.15
Mn 257.610	1298.07	1302.00	1309.34
Mo 202.032	6.1471	6.0221	5.2650
Na 330.237	201.473u	493.648u	257.242u
Ni 231.604	41.1343	42.0742	42.9125
Pb 220.353	1364.11	1368.98	1383.14
Sb 206.834	5.0098	19.2537	1.0328
Se 196.026	-15.2772u	30.4596	-7.3820u
Sn 189.925	83.7416	84.4603	85.1800
Sr 216.596	297.259	296.334	298.204
Ti 334.941	1250.45	1253.65	1258.37
Tl 190.794	5.8107u	7.4107	4.3527u
V 292.401	108.672	109.386	110.046
Zn 206.200	732.140	734.415	732.157

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1818	ppb	0.5424	298.4	-50.0227
Al 308.215	28993.1	ppb	157.491	0.5	167733
As 188.980	84.7788	ppb	1.3295	1.6	54.4834
B 249.678	-1.4930	ppb	0.8888	59.5	63.3097
Ba 389.178	671.966	ppb	3.4364	0.5	14018.5
Be 313.042	2.7714	ppb	0.0179	0.6	5208.96
Ca 370.602	13438	ppb	56.19	0.4	35338
Cd 226.502	0.9313	ppb	0.0701	7.5	257.716
Co 228.615	21.2916	ppb	0.2823	1.3	287.746
Cr 267.716	46.9138	ppb	0.1314	0.3	1990.13
Cu 324.754	421.918	ppb	3.2255	0.8	20731.0
Fe 271.441	100027	ppb	486.706	0.5	168356
K 766.491	3514.88	ppb	21.4199	0.6	168851
Mg 279.078	2918.40	ppb	14.7341	0.5	6041.06
Mn 257.610	1303.14	ppb	5.7219	0.4	300339
Mo 202.032	5.8114	ppb	0.4773	8.2	46.5799
Na 330.237	317.454	ppb	155.115	48.9	-32.8442
Ni 231.604	42.0403	ppb	0.8896	2.1	101.334
Pb 220.353	1372.08	ppb	9.8839	0.7	2217.71
Sb 206.834	8.4321	ppb	9.5804	113.6	7.8574
Se 196.026	2.6001	ppb	24.4478	940.3	1.2651
Sn 189.925	84.4606	ppb	0.7192	0.9	63.6325
Sr 216.596	297.266	ppb	0.9346	0.3	2821.87
Ti 334.941	1254.16	ppb	3.9827	0.3	317441
Tl 190.794	5.8580	ppb	1.5295	26.1	-2.4200
V 292.401	109.368	ppb	0.6867	0.6	3017.52
Zn 206.200	732.904	ppb	1.3990	0.2	5134.97

E03292013.wvq. All Data Report 3/30/2013, 8:54:32 AM

680-88516-a-10-c (Samp) 3/29/2013, 8:23:31 PM Rack 2, Tube 48

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.1316u	-1.3264u	-0.6184u
Al 308.215	43973.0	43909.1	43954.2
As 188.980	33.0687	25.1027	32.2517
B 249.678	-4.0073u	-3.9573u	-4.3628u
Ba 389.178	309.817	308.657	308.318
Be 313.042	2.1894	2.1857	2.1798
Ca 370.602	14328	14266	14310
Cd 226.502	2.2560	2.1292	1.8759
Co 228.615	23.3668	22.6132	23.7018
Cr 267.716	84.6665	84.6974	84.7576
Cu 324.754	118.215	118.004	119.109
Fe 271.441	77610.3	77613.3	77747.0
K 766.491	4045.12	4045.78	4061.29
Mg 279.078	9011.78	8976.45	9009.29
Mn 257.610	1145.73	1145.26	1146.85
Mo 202.032	2.7672	2.6202	2.5253
Na 330.237	565.318u	454.156u	581.027u
Ni 231.604	27.9416	31.2941	30.4043
Pb 220.353	944.884	942.599	947.812
Sb 206.834	-2.3216	9.0342	10.4720
Se 196.026	2.4281	-6.8470u	14.7782
Sn 189.925	46.3173	43.5806	46.4918
Sr 216.596	66.4060	66.0915	65.4211
Ti 334.941	1209.05	1207.38	1210.91
Tl 190.794	14.9398	17.3932	1.6258u
V 292.401	135.440	136.310	135.408
Zn 206.200	2933.32	2916.20	2938.79

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.6921	ppb	0.6008	86.8	-103.026
Al 308.215	43945.4	ppb	32.8554	0.1	254098
As 188.980	30.1410	ppb	4.3824	14.5	18.5150
B 249.678	-4.1091	ppb	0.2211	5.4	59.6792
Ba 389.178	308.931	ppb	0.7863	0.3	6467.47
Be 313.042	2.1850	ppb	0.0048	0.2	4077.18
Ca 370.602	14301	ppb	31.84	0.2	39947
Cd 226.502	2.0870	ppb	0.1936	9.3	250.980
Co 228.615	23.2273	ppb	0.5575	2.4	309.687
Cr 267.716	84.7072	ppb	0.0463	0.1	3563.72
Cu 324.754	118.442	ppb	0.5869	0.5	5897.92
Fe 271.441	77656.9	ppb	78.0647	0.1	130706
K 766.491	4050.73	ppb	9.1524	0.2	194557
Mg 279.078	8999.17	ppb	19.7155	0.2	18584.9
Mn 257.610	1145.95	ppb	0.8188	0.1	264131
Mo 202.032	2.6375	ppb	0.1219	4.6	27.1784
Na 330.237	533.500	ppb	69.1614	13.0	-31.1404
Ni 231.604	29.8800	ppb	1.7367	5.8	72.1517
Pb 220.353	945.098	ppb	2.6131	0.3	1528.11
Sb 206.834	5.7282	ppb	7.0083	122.3	6.1170
Se 196.026	3.4531	ppb	10.8489	314.2	1.4306
Sn 189.925	45.4633	ppb	1.6327	3.6	34.4428
Sr 216.596	65.9728	ppb	0.5031	0.8	655.144
Ti 334.941	1209.11	ppb	1.7691	0.1	306062
Tl 190.794	11.3196	ppb	8.4842	75.0	2.0637
V 292.401	135.720	ppb	0.5117	0.4	3736.98
Zn 206.200	2929.44	ppb	11.7854	0.4	4531.40

E03292013.vvq. All Data Report 3/30/2013, 8:54:32 AM

Cont Calib Verif (CCV)                      3/29/2013, 8:28:57 PM                      Rack 2, Tube 49  
 Weight: 1                                      Volume: 1                                      Dilution: 1

Label	Replicates Concentration		
Ag 328.068	491.910	492.572	494.339
Al 308.215	5057.76	5083.46	5066.67
As 188.980	534.309	525.475	535.514
B 249.678	574.962	582.160	585.743
Ba 389.178	4584.56	4600.60	4599.06
Be 313.042	483.836	487.069	485.959
Ca 370.602	4799	4828	4815
Cd 226.502	477.551	480.982	478.535
Co 228.615	474.159	478.337	477.667
Cr 267.716	4769.12	4789.74	4775.36
Cu 324.754	4583.14	4571.43	4625.47
Fe 271.441	5094.16	5116.25	5119.88
K 766.491	9839.01	9878.80	9874.18
Mg 279.078	5083.28	5123.70	5096.58
Mn 257.610	4749.13	4762.38	4758.04
Mo 202.032	486.983	492.003	490.419
Na 330.237	7349.90	7620.71	7654.35
Ni 231.604	2388.00	2407.24	2397.88
Pb 220.353	497.153	500.737	490.439
Sb 206.834	993.240	1005.31	993.117
Se 196.026	5067.65	5094.41	5106.12
Sn 189.925	5006.84	5103.96	5073.74
Sr 216.596	2467.53	2481.22	2467.21
Ti 334.941	493.408	495.989	494.924
Tl 190.794	4985.86	5018.47	4986.92
V 292.401	4953.04	4971.89	4973.50
Zn 206.200	2424.68	2433.49	2429.35

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	492.941	ppb	1.2554	0.3	34962.3	98.58811
Al 308.215	5069.30	ppb	13.0520	0.3	29522.8	101.38599
As 188.980	531.766	ppb	5.4818	1.0	351.619	106.35323
B 249.678	580.955	ppb	5.4907	0.9	5607.99	23.23821Q
Ba 389.178	4594.74	ppb	8.8493	0.2	95434.3	91.89484
Be 313.042	485.621	ppb	1.6429	0.3	938369	97.12428
Ca 370.602	4814	ppb	14.19	0.3	15356	96.28130
Cd 226.502	479.023	ppb	1.7667	0.4	17157.7	95.80458
Co 228.615	476.721	ppb	2.2437	0.5	5469.77	95.34417
Cr 267.716	4778.07	ppb	10.5710	0.2	199603	95.56146
Cu 324.754	4593.35	ppb	28.4329	0.6	224463	91.86692
Fe 271.441	5110.09	ppb	13.9225	0.3	8723.15	102.20190
K 766.491	9864.00	ppb	21.7629	0.2	473437	98.63996
Mg 279.078	5101.19	ppb	20.6036	0.4	10482.0	102.02372
Mn 257.610	4756.52	ppb	6.7543	0.1	1094992	95.13035
Mo 202.032	489.802	ppb	2.5663	0.5	3145.59	97.96031
Na 330.237	7541.66	ppb	166.914	2.2	360.687	100.55542
Ni 231.604	2397.71	ppb	9.6200	0.4	5673.18	95.90834
Pb 220.353	496.110	ppb	5.2274	1.1	804.307	99.22192
Sb 206.834	997.221	ppb	7.0025	0.7	645.022	99.72215
Se 196.026	5089.39	ppb	19.7169	0.4	1653.43	101.78785
Sn 189.925	5061.51	ppb	49.7032	1.0	3789.08	101.23027
Sr 216.596	2471.98	ppb	7.9971	0.3	23038.7	98.87937
Ti 334.941	494.773	ppb	1.2968	0.3	125207	98.95470
Tl 190.794	4997.08	ppb	18.5283	0.4	3263.70	99.94166
V 292.401	4966.15	ppb	11.3742	0.2	135679	99.32291
Zn 206.200	2429.18	ppb	4.4049	0.2	3743.73	97.16703

Cont Calib Blank (CCB) 3/29/2013, 8:34:22 PM Rack 2, Tube 50  
Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.5309	-0.8797u	-0.3535u
Al 308.215	-4.0432u	-2.4303u	-0.7479u
As 188.980	-3.7702u	7.1520	0.1785
B 249.678	2.7030	0.7680	2.2475
Ba 389.178	1.0356	-0.6966u	0.8483
Be 313.042	-0.0425u	-0.0558u	-0.0573u
Ca 370.602	-1.726u	-0.9680u	0.8366
Cd 226.502	-0.1603u	-0.0045u	0.4654
Co 228.615	0.2013	-0.2969u	-0.9699u
Cr 267.716	0.0247	0.1076	-0.2203u
Cu 324.754	0.1096	-0.6406u	0.1851
Fe 271.441	-1.5472u	2.0237	3.5189
K 766.491	-0.1944u	-1.0779u	-0.5372u
Mg 279.078	-2.8976u	0.1677	-2.1635u
Mn 257.610	-0.1962u	-0.2067u	-0.2394u
Mo 202.032	-0.5142u	-0.0778u	0.9973
Na 330.237	96.2189	189.151	240.558
Ni 231.604	-0.2525u	0.1987	1.0230
Pb 220.353	-3.8949u	-2.1968u	-1.1224u
Sb 206.834	-7.0975u	-2.7744u	6.8454
Se 196.026	15.8216	15.8155	0.4910
Sn 189.925	-0.2976u	-1.9615u	-6.4640u
Sr 216.596	-0.6955u	-0.6741u	-0.8920u
Ti 334.941	0.0419	0.1926	0.1351
Tl 190.794	-2.1721u	-0.2315u	5.6090
V 292.401	0.3793	-0.1872u	0.2943
Zn 206.200	0.1080	0.3257	-0.7114u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	-0.2341	ppb	0.7129	304.5	-73.2080	-0.23412
Al 308.215	-2.4072	ppb	1.6478	68.5	252.508	-2.40717
As 188.980	1.1868	ppb	5.5305	466.0	0.0362	1.18679
B 249.678	1.9062	ppb	1.0116	53.1	188.495	1.90618
Ba 389.178	0.3958	ppb	0.9506	240.2	4.6991	0.39576
Be 313.042	-0.0519	ppb	0.0081	15.7	-248.739	-0.05188
Ca 370.602	-0.6190	ppb	1.316	212.6	-8.880	-0.61904
Cd 226.502	0.1002	ppb	0.3257	325.2	12.6015	0.10018
Co 228.615	-0.3552	ppb	0.5878	165.5	11.5233	-0.35515
Cr 267.716	-0.0293	ppb	0.1705	581.4	2.0140	-0.02933
Cu 324.754	-0.1153	ppb	0.4565	396.0	84.6286	-0.11527
Fe 271.441	1.3318	ppb	2.6029	195.4	5.4804	1.33181
K 766.491	-0.6032	ppb	0.4454	73.8	202.914	-0.60317
Mg 279.078	-1.6311	ppb	1.6005	98.1	25.8725	-1.63113
Mn 257.610	-0.2141	ppb	0.0225	10.5	43.6309	-0.21413
Mo 202.032	0.1351	ppb	0.7779	575.7	14.8001	0.13512
Na 330.237	175.309	ppb	73.1582	41.7	5.0902	175.30928
Ni 231.604	0.3231	ppb	0.6468	200.2	0.7513	0.32307
Pb 220.353	-2.4047	ppb	1.3979	58.1	-0.3756	-2.40470
Sb 206.834	-1.0089	ppb	7.1372	707.4	0.3537	-1.00888
Se 196.026	10.7094	ppb	8.8494	82.6	3.3020	10.70937Z
Sn 189.925	-2.9077	ppb	3.1902	109.7	-1.7678	-2.90774
Sr 216.596	-0.7539	ppb	0.1201	15.9	3.9351	-0.75385
Ti 334.941	0.1232	ppb	0.0760	61.7	-30.3964	0.12321
Tl 190.794	1.0684	ppb	4.0501	379.1	-0.9868	1.06844
V 292.401	0.1621	ppb	0.3055	188.4	9.9533	0.16214
Zn 206.200	-0.0926	ppb	0.5469	590.7	5.156609	-0.09257

E03292013.vvq. All Data Report 3/30/2013, 8:54:32 AM

**680-88516-a-11-c (Samp)**                      **3/29/2013, 8:39:48 PM**                      **Rack 2, Tube 51**  
**Weight: 1**    **Volume: 1**    **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-1.1209u	0.5165	-1.7872u
Al 308.215	27969.1	28202.5	27966.4
As 188.980	89.7378	91.1967	86.6306
B 249.678	-2.1276u	-1.9976u	-4.2150u
Ba 389.178	534.914	538.607	534.928
Be 313.042	2.2113	2.2356	2.2107
Ca 370.602	2279	2289	2286
Cd 226.502	-0.1860	-0.3169	-0.2856
Co 228.615	10.0055	10.4509	9.6133
Cr 267.716	45.0986	45.2063	44.7780
Cu 324.754	260.097	265.604	259.575
Fe 271.441	76796.6	77515.3	76947.0
K 766.491	1608.62	1627.19	1617.35
Mg 279.078	674.053	678.541	670.665
Mn 257.610	120.597	121.705	120.683
Mo 202.032	7.1431	7.2828	7.3560
Na 330.237	192.199u	52.0935u	264.016u
Ni 231.604	26.6745	28.2460	26.5457
Pb 220.353	528.861	541.380	526.786
Sb 206.834	-4.1053u	-3.3080u	9.3294
Se 196.026	12.0805	26.4717	-0.3539
Sn 189.925	97.5377	99.2008	98.3136
Sr 216.596	117.945	119.844	117.612
Ti 334.941	815.108	825.622	817.383
Tl 190.794	5.4305	6.4836	1.7614u
V 292.401	117.029	118.134	116.731
Zn 206.200	97.8367	98.7032	95.9598

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.7972	ppb	1.1855	148.7	-117.182
Al 308.215	28046.0	ppb	135.523	0.5	162262
As 188.980	89.1884	ppb	2.3321	2.6	57.5541
B 249.678	-2.7801	ppb	1.2444	44.8	72.6545
Ba 389.178	536.150	ppb	2.1281	0.4	11181.9
Be 313.042	2.2192	ppb	0.0142	0.6	4138.03
Ca 370.602	2285	ppb	5.033	0.2	1170
Cd 226.502	-0.2628	ppb	0.0684	26.0	165.582
Co 228.615	10.0232	ppb	0.4191	4.2	148.450
Cr 267.716	45.0276	ppb	0.2228	0.5	1901.38
Cu 324.754	261.759	ppb	3.3403	1.3	12899.7
Fe 271.441	77086.3	ppb	379.036	0.5	129743
K 766.491	1617.72	ppb	9.2937	0.6	77838.6
Mg 279.078	674.420	ppb	3.9508	0.6	1424.61
Mn 257.610	120.995	ppb	0.6161	0.5	28157.6
Mo 202.032	7.2606	ppb	0.1082	1.5	56.8735
Na 330.237	169.436	ppb	107.780	63.6	-25.4188
Ni 231.604	27.1554	ppb	0.9467	3.5	65.6868
Pb 220.353	532.342	ppb	7.8954	1.5	862.016
Sb 206.834	0.6387	ppb	7.5369	1180.0	2.6933
Se 196.026	12.7328	ppb	13.4247	105.4	4.2752
Sn 189.925	98.3507	ppb	0.8322	0.8	74.0258
Sr 216.596	118.467	ppb	1.2041	1.0	1143.84
Ti 334.941	819.371	ppb	5.5319	0.7	207367
Tl 190.794	4.5585	ppb	2.4789	54.4	-1.3670
V 292.401	117.298	ppb	0.7392	0.6	3227.66
Zn 206.200	97.4999	ppb	1.4024	1.4	152.434



E03292013.vvq. All Data Report 3/30/2013, 8:54:32 AM

680-88516-a-12-c (Samp) 3/29/2013, 8:45:13 PM Rack 2, Tube 52

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.9084u	-0.0627u	-0.1709u
Al 308.215	58438.9	58336.0	58464.9
As 188.980	28.2978	24.9831	32.4602
B 249.678	-11.6674u	-11.2250u	-11.4302u
Ba 389.178	263.530	262.536	264.555
Be 313.042	1.1405	1.1499	1.1449
Ca 370.602	3825	3820	3813
Cd 226.502	-0.8277	-0.9784	-1.2422
Co 228.615	5.1658	7.2714	7.8455
Cr 267.716	133.033	132.894	133.869
Cu 324.754	123.942	123.314	123.276
Fe 271.441	146418	146322	146906
K 766.491	1801.57	1798.12	1806.98
Mg 279.078	1144.11	1151.10	1153.25
Mn 257.610	347.401	347.538	348.469
Mo 202.032	3.6177	3.0268	3.6399
Na 330.237	-28.8633u	-80.5715u	289.294u
Ni 231.604	17.1962	18.8640	19.2185
Pb 220.353	254.234	253.883	255.873
Sb 206.834	-18.7608u	-2.2500	-8.7682u
Se 196.026	6.4225	-6.2667u	1.9058
Sn 189.925	32.8466	32.3615	33.4148
Sr 216.596	113.298	113.795	114.634
Ti 334.941	1016.51	1016.14	1020.62
Tl 190.794	3.4519u	8.6127	-5.5193u
V 292.401	447.063	446.451	447.785
Zn 206.200	98.7095	98.6605	97.6209

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.3807	ppb	0.4602	120.9	-84.5709
Al 308.215	58413.3	ppb	68.1747	0.1	337661
As 188.980	28.5803	ppb	3.7465	13.1	16.6351
B 249.678	-11.4409	ppb	0.2214	1.9	-73.2527
Ba 389.178	263.540	ppb	1.0095	0.4	5566.94
Be 313.042	1.1451	ppb	0.0047	0.4	2052.50
Ca 370.602	3819	ppb	5.989	0.2	450.2
Cd 226.502	-1.0161	ppb	0.2098	20.6	288.050
Co 228.615	6.7609	ppb	1.4109	20.9	114.551
Cr 267.716	133.266	ppb	0.5273	0.4	5600.87
Cu 324.754	123.511	ppb	0.3740	0.3	6162.42
Fe 271.441	146549	ppb	313.217	0.2	246652
K 766.491	1802.22	ppb	4.4628	0.2	86689.9
Mg 279.078	1149.48	ppb	4.7765	0.4	2404.85
Mn 257.610	347.803	ppb	0.5813	0.2	80556.0
Mo 202.032	3.4281	ppb	0.3477	10.1	28.6804
Na 330.237	59.9533	ppb	200.291	334.1	-53.4421
Ni 231.604	18.4262	ppb	1.0799	5.9	46.3394
Pb 220.353	254.663	ppb	1.0619	0.4	413.128
Sb 206.834	-9.9263	ppb	8.3161	83.8	-2.3123
Se 196.026	0.6872	ppb	6.4318	936.0	0.6672
Sn 189.925	32.8743	ppb	0.5272	1.6	25.0144
Sr 216.596	113.909	ppb	0.6756	0.6	1126.30
Ti 334.941	1017.76	ppb	2.4880	0.2	257597
Tl 190.794	2.1818	ppb	7.1511	327.8	-5.3610
V 292.401	447.100	ppb	0.6680	0.1	12261.2
Zn 206.200	98.3303	ppb	0.6149	0.6	575.452

E03292013.wvq. All Data Report 3/30/2013, 8:54:32 AM

680-88516-a-13-c (Samp) 3/29/2013, 8:50:49 PM Rack 2, Tube 53

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.1059u	-0.3869u	-0.5035u
Al 308.215	72708.7	72896.9	72814.0
As 188.980	24.9064	16.0054	20.1697
B 249.678	-26.8318u	-29.0097u	-27.4790u
Ba 389.178	105.526	105.980	106.068
Be 313.042	0.9761	0.9805	0.9921
Ca 370.602	4980u	4944u	4967u
Cd 226.502	-2.6230	-2.6294	-2.2327
Co 228.615	1.9393	2.0792	2.0592
Cr 267.716	314.389	316.688	315.893
Cu 324.754	84.2953	85.0354	85.1453
Fe 271.441	295390	296589	295352
K 766.491	2222.10	2227.13	2223.65
Mg 279.078	1287.13	1287.88	1284.91
Mn 257.610	227.998	228.458	227.792
Mo 202.032	5.3104	5.2541	6.8325
Na 330.237	184.492u	325.347u	333.542u
Ni 231.604	8.5125	12.6224	13.8938
Pb 220.353	62.1762	60.2369	64.3691
Sb 206.834	-3.9264	9.4484	1.0142
Se 196.026	3.2212	-28.4403u	-26.7918u
Sn 189.925	21.0744	23.7134	17.3956
Sr 216.596	122.272	124.385	123.146
Ti 334.941	1598.58	1608.90	1602.47
Tl 190.794	12.8835u	11.0733u	-2.2474u
V 292.401	975.183	978.850	975.928
Zn 206.200	55.3544	53.0222	54.3193

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.3321	ppb	0.2044	61.5	-79.4626
Al 308.215	72806.5	ppb	94.3461	0.1	420789
As 188.980	20.3605	ppb	4.4536	21.9	9.5699
B 249.678	-27.7735	ppb	1.1184	4.0	-365.588
Ba 389.178	105.858	ppb	0.2906	0.3	2391.32
Be 313.042	0.9829	ppb	0.0083	0.8	1718.45
Ca 370.602	4964	ppb	18.39	0.4	-8035
Cd 226.502	-2.4951	ppb	0.2272	9.1	556.539
Co 228.615	2.0259	ppb	0.0757	3.7	71.0977
Cr 267.716	315.657	ppb	1.1675	0.4	13248.0
Cu 324.754	84.8253	ppb	0.4623	0.5	4310.48
Fe 271.441	295777	ppb	703.435	0.2	497809
K 766.491	2224.30	ppb	2.5762	0.1	106938
Mg 279.078	1286.64	ppb	1.5439	0.1	2711.98
Mn 257.610	228.083	ppb	0.3408	0.1	53406.4
Mo 202.032	5.7990	ppb	0.8955	15.4	36.3876
Na 330.237	281.127	ppb	83.7885	29.8	-91.0355
Ni 231.604	11.6762	ppb	2.8126	24.1	33.1612
Pb 220.353	62.2607	ppb	2.0674	3.3	101.917
Sb 206.834	2.1787	ppb	6.7630	310.4	8.3452
Se 196.026	-17.3370	ppb	17.8229	102.8	-4.6315
Sn 189.925	20.7278	ppb	3.1731	15.3	15.9199
Sr 216.596	123.267	ppb	1.0617	0.9	1266.79
Ti 334.941	1603.31	ppb	5.2139	0.3	405843
Tl 190.794	7.2365	ppb	8.2630	114.2	-6.7794
V 292.401	976.654	ppb	1.9380	0.2	26766.4
Zn 206.200	54.2320	ppb	1.1686	2.2	847123

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680-88516-a-14-g (Samp) 3/29/2013, 8:56:15 PM Rack 2, Tube 54

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.5114u	-1.9343u	-0.5278u
Al 308.215	60713.6	60765.3	60334.6
As 188.980	777.765	772.570	767.444
B 249.678	13.7384	13.2956	13.9291
Ba 389.178	765.685	761.783	755.414
Be 313.042	3.9159	3.9115	3.8998
Ca 370.602	21597	21618	21556
Cd 226.502	1.1079	0.8980	1.2166
Co 228.615	22.6346	23.8956	23.6138
Cr 267.716	96.5016	96.2616	95.9826
Cu 324.754	206.145	205.144	202.058
Fe 271.441	102864	102375	101892
K 766.491	2844.03	2835.22	2828.13
Mg 279.078	2899.89	2881.10	2882.47
Mn 257.610	693.317	692.102	687.833
Mo 202.032	10.2516	11.4896	10.6144
Na 330.237	582.074u	480.434u	471.045u
Ni 231.604	65.8430	70.3852	68.1103
Pb 220.353	276.658	276.361	272.698
Sb 206.834	8.1435	10.3172	-7.2408u
Se 196.026	19.0220	-6.3177u	1.6293
Sn 189.925	45.0986	45.9241	46.3890
Sr 216.596	442.983	443.994	438.905
Ti 334.941	1366.56	1368.19	1359.86
Tl 190.794	8.3913	5.1278u	8.0931
V 292.401	185.532	185.080	183.773
Zn 206.200	326.992	325.179	323.621

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.9912	ppb	0.8168	82.4	-141.574
Al 308.215	60604.5	ppb	235.174	0.4	350323
As 188.980	772.593	ppb	5.1604	0.7	510.498
B 249.678	13.6544	ppb	0.3250	2.4	203.032
Ba 389.178	760.961	ppb	5.1843	0.7	15868.4
Be 313.042	3.9091	ppb	0.0083	0.2	7411.02
Ca 370.602	21590	ppb	31.25	0.1	61421
Cd 226.502	1.0742	ppb	0.1620	15.1	267.817
Co 228.615	23.3814	ppb	0.6618	2.8	314.452
Cr 267.716	96.2486	ppb	0.2598	0.3	4049.32
Cu 324.754	204.449	ppb	2.1301	1.0	10106.6
Fe 271.441	102377	ppb	486.109	0.5	172312
K 766.491	2835.79	ppb	7.9663	0.3	136273
Mg 279.078	2887.82	ppb	10.4766	0.4	5978.66
Mn 257.610	691.084	ppb	2.8802	0.4	159463
Mo 202.032	10.7852	ppb	0.6364	5.9	78.2384
Na 330.237	511.184	ppb	61.5719	12.0	-21.3854
Ni 231.604	68.1128	ppb	2.2711	3.3	163.077
Pb 220.353	275.239	ppb	2.2053	0.8	446.182
Sb 206.834	3.7400	ppb	9.5715	255.9	5.2456
Se 196.026	4.7779	ppb	12.9600	271.3	1.8817
Sn 189.925	45.8039	ppb	0.6536	1.4	34.7002
Sr 216.596	441.961	ppb	2.6941	0.6	4173.65
Ti 334.941	1364.87	ppb	4.4158	0.3	345468
Tl 190.794	7.2041	ppb	1.8043	25.0	-1.0058
V 292.401	184.795	ppb	0.9134	0.5	5081.46
Zn 206.200	325.264	ppb	1.6869	0.5	504.476

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680-88516-a-14-gSD^5 (Samp) 3/29/2013, 9:01:41 PM Rack 2, Tube 55

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-1.2090u	0.0661	-0.0066u
Al 308.215	12030.8	12010.9	12078.1
As 188.980	148.041	159.528	149.700
B 249.678	-7.4148u	-6.6806u	-7.2056u
Ba 389.178	151.515	151.608	152.104
Be 313.042	0.7200	0.7138	0.7264
Ca 370.602	4350	4330	4359
Cd 226.502	0.3021	0.3355	0.3796
Co 228.615	4.9199	4.0116	5.6528
Cr 267.716	18.9776	19.1318	19.1968
Cu 324.754	38.9449	40.9277	40.7066
Fe 271.441	20593.4	20537.4	20601.6
K 766.491	553.692	553.581	555.652
Mg 279.078	582.614	581.340	580.068
Mn 257.610	139.651	138.466	139.891
Mo 202.032	2.2802	1.9805	1.3036
Na 330.237	300.762	119.143u	11.3924u
Ni 231.604	13.4493	14.5586	14.6416
Pb 220.353	53.5269	56.9646	55.8053
Sb 206.834	-2.8834u	-1.3352u	-4.0061u
Se 196.026	20.0066	-14.1645u	3.2921
Sn 189.925	9.9163	6.7182	8.2897
Sr 216.596	87.6959	88.0573	87.7942
Ti 334.941	270.846	270.216	271.366
Tl 190.794	5.1372	2.3998	-4.6412u
V 292.401	36.2605	35.9983	36.9104
Zn 206.200	67.0965	66.2391	64.1132

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.3832	ppb	0.7161	186.9	-86.7024
Al 308.215	12040.0	ppb	34.5504	0.3	69810.2
As 188.980	152.423	ppb	6.2087	4.1	100.109
B 249.678	-7.1003	ppb	0.3783	5.3	84.9312
Ba 389.178	151.742	ppb	0.3166	0.2	3161.58
Be 313.042	0.7201	ppb	0.0063	0.9	1244.22
Ca 370.602	4346	ppb	14.83	0.3	12361
Cd 226.502	0.3391	ppb	0.0389	11.5	65.4340
Co 228.615	4.8614	ppb	0.8222	16.9	77.4060
Cr 267.716	19.1021	ppb	0.1126	0.6	806.310
Cu 324.754	40.1931	ppb	1.0866	2.7	2059.52
Fe 271.441	20577.5	ppb	34.9236	0.2	34636.7
K 766.491	554.309	ppb	1.1648	0.2	26823.7
Mg 279.078	581.341	ppb	1.2730	0.2	1226.94
Mn 257.610	139.336	ppb	0.7627	0.5	32224.8
Mo 202.032	1.8548	ppb	0.5003	27.0	24.8536
Na 330.237	143.766	ppb	146.248	101.7	-5.2987
Ni 231.604	14.2165	ppb	0.6657	4.7	34.0119
Pb 220.353	55.4323	ppb	1.7490	3.2	92.6661
Sb 206.834	-2.7416	ppb	1.3411	48.9	-0.3202
Se 196.026	3.0447	ppb	17.0869	561.2	0.9146
Sn 189.925	8.3081	ppb	1.5991	19.2	6.6287
Sr 216.596	87.8491	ppb	0.1868	0.2	838.507
Ti 334.941	270.809	ppb	0.5758	0.2	68496.4
Tl 190.794	0.9652	ppb	5.0446	522.6	-1.8651
V 292.401	36.3897	ppb	0.4696	1.3	1005.16
Zn 206.200	65.8163	ppb	1.5360	2.3	103.519

E03292013.vvq. All Data Report 3/30/2013, 8:54:32 AM

**680-88516-a-14-gPDS (Samp) 3/29/2013, 9:07:06 PM Rack 2, Tube 56****Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	50.0544	50.3877	50.9579
Al 308.215	61540.6	61458.3	61521.8
As 188.980	3019.65	3016.45	3019.14
B 249.678	1132.49	1140.02	1148.71
Ba 389.178	2778.59	2772.88	2781.75
Be 313.042	57.7584	57.7664	57.8167
Ca 370.602	26136	26151	26140
Cd 226.502	53.5830	53.5798	53.9384
Co 228.615	556.036	550.286	555.687
Cr 267.716	306.335	305.810	305.174
Cu 324.754	464.691	464.488	465.253
Fe 271.441	101469	101242	101495
K 766.491	8249.08	8234.55	8260.98
Mg 279.078	8213.58	8212.51	8182.46
Mn 257.610	1215.31	1215.27	1215.95
Mo 202.032	534.926	532.617	535.906
Na 330.237	5218.33	5635.83	5280.05
Ni 231.604	586.047	590.418	586.556
Pb 220.353	790.035	787.456	786.255
Sb 206.834	501.647	499.372	500.858
Se 196.026	2150.07	2153.33	2151.29
Sn 189.925	1114.99	1118.06	1096.98
Sr 216.596	963.451	960.161	958.743
Ti 334.941	2315.29	2317.69	2317.29
Tl 190.794	2108.28	2093.37	2104.21
V 292.401	701.447	700.409	702.820
Zn 206.200	848.778	852.928	844.649

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	50.4667	ppb	0.4569	0.9	3503.38
Al 308.215	61506.9	ppb	43.1350	0.1	355595
As 188.980	3018.41	ppb	1.7195	0.1	1999.20
B 249.678	1140.41	ppb	8.1198	0.7	10758.9
Ba 389.178	2777.74	ppb	4.4959	0.2	57756.5
Be 313.042	57.7805	ppb	0.0316	0.1	111450
Ca 370.602	26142	ppb	7.520	0.0	76358
Cd 226.502	53.7004	ppb	0.2061	0.4	2148.72
Co 228.615	554.003	ppb	3.2240	0.6	6383.22
Cr 267.716	305.773	ppb	0.5812	0.2	12801.8
Cu 324.754	464.810	ppb	0.3964	0.1	22835.2
Fe 271.441	101402	ppb	139.468	0.1	170758
K 766.491	8248.20	ppb	13.2333	0.2	395923
Mg 279.078	8202.85	ppb	17.6692	0.2	16939.4
Mn 257.610	1215.51	ppb	0.3854	0.0	280203
Mo 202.032	534.483	ppb	1.6882	0.3	3434.88
Na 330.237	5378.07	ppb	225.351	4.2	218.095
Ni 231.604	587.674	ppb	2.3902	0.4	1392.37
Pb 220.353	787.915	ppb	1.9317	0.2	1272.61
Sb 206.834	500.625	ppb	1.1552	0.2	309.638
Se 196.026	2151.57	ppb	1.6497	0.1	699.146
Sn 189.925	1110.01	ppb	11.3896	1.0	831.286
Sr 216.596	960.785	ppb	2.4149	0.3	8993.03
Ti 334.941	2316.76	ppb	1.2869	0.1	586452
Tl 190.794	2101.96	ppb	7.7075	0.4	1368.86
V 292.401	701.558	ppb	1.2094	0.2	19139.7
Zn 206.200	848.785	ppb	4.1394	0.5	1213.38

E03292013.vvq. All Data Report 3/30/2013, 8:54:32 AM

**680-88516-a-14-h ms (Samp) 3/29/2013, 9:12:32 PM Rack 2, Tube 57****Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	9.8385	9.7329	9.8152
Al 308.215	105139	104486	104571
As 188.980	1060.76	1062.04	1057.49
B 249.678	230.187	227.769	225.139
Ba 389.178	1298.53	1295.01	1292.86
Be 313.042	55.6642	55.6303	55.4249
Ca 370.602	40608	40575	40421
Cd 226.502	52.1895	52.2250	52.0844
Co 228.615	68.1631	67.3830	67.1824
Cr 267.716	224.139	224.551	222.693
Cu 324.754	286.985	284.582	285.310
Fe 271.441	144428	144228	143579
K 766.491	9971.02	9974.86	9933.50
Mg 279.078	10754.5	10746.1	10707.0
Mn 257.610	1118.52	1118.54	1112.07
Mo 202.032	103.951	101.940	101.554
Na 330.237	5415.73	5695.12	5468.62
Ni 231.604	155.831	158.865	154.439
Pb 220.353	221.345	216.790	220.288
Sb 206.834	8.1784	26.5466	36.3779
Se 196.026	79.2198	93.9561	101.342
Sn 189.925	236.314	227.424	227.398
Sr 216.596	767.707	769.950	763.414
Ti 334.941	1402.37	1402.99	1395.39
Tl 190.794	51.5999	48.7219	41.2079
V 292.401	378.770	379.332	376.900
Zn 206.200	331.748	334.702	331.157

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	9.7955	ppb	0.0555	0.6	615.301
Al 308.215	104732	ppb	355.122	0.3	605215
As 188.980	1060.10	ppb	2.3486	0.2	700.782
B 249.678	227.698	ppb	2.5244	1.1	2169.16
Ba 389.178	1295.47	ppb	2.8645	0.2	27000.4
Be 313.042	55.5731	ppb	0.1295	0.2	107273
Ca 370.602	40535	ppb	100.2	0.2	119051
Cd 226.502	52.1663	ppb	0.0731	0.1	2185.63
Co 228.615	67.5762	ppb	0.5181	0.8	815.980
Cr 267.716	223.794	ppb	0.9755	0.4	9386.75
Cu 324.754	285.625	ppb	1.2325	0.4	14085.1
Fe 271.441	144078	ppb	444.007	0.3	242504
K 766.491	9959.79	ppb	22.8553	0.2	478033
Mg 279.078	10735.8	ppb	25.3686	0.2	22163.5
Mn 257.610	1116.38	ppb	3.7279	0.3	257517
Mo 202.032	102.482	ppb	1.2870	1.3	663.941
Na 330.237	5526.49	ppb	148.410	2.7	223.943
Ni 231.604	156.378	ppb	2.2634	1.4	372.711
Pb 220.353	219.474	ppb	2.3837	1.1	355.309
Sb 206.834	23.7010	ppb	14.3135	60.4	18.4481
Se 196.026	91.5061	ppb	11.2629	12.3	30.2770
Sn 189.925	230.379	ppb	5.1400	2.2	172.867
Sr 216.596	767.024	ppb	3.3208	0.4	7220.47
Ti 334.941	1400.25	ppb	4.2228	0.3	354463
Tl 190.794	47.1766	ppb	5.3656	11.4	23.3822
V 292.401	378.334	ppb	1.2736	0.3	10358.4
Zn 206.200	332.536	ppb	1.8995	0.6	515.337

E03292013.wvq. All Data Report 3/30/2013, 8:54:32 AM

**680-88516-a-14-i msd (Samp) 3/29/2013, 9:17:58 PM Rack 2, Tube 58****Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	9.4004	8.9524	10.3529
Al 308.215	134120	133664	134060
As 188.980	471.894	476.449	479.799
B 249.678	181.842	181.167	182.787
Ba 389.178	602.305	598.849	601.608
Be 313.042	55.8611	55.6581	55.8439
Ca 370.602	16866	16797	16833
Cd 226.502	52.9760	52.3194	52.8717
Co 228.615	69.6597	68.2813	70.1300
Cr 267.716	250.682	250.040	250.992
Cu 324.754	223.088	223.712	223.715
Fe 271.441	140064	139345	139552
K 766.491	7936.61	7897.91	7926.02
Mg 279.078	7702.61	7668.11	7695.64
Mn 257.610	1010.46	1006.24	1007.89
Mo 202.032	102.897	101.424	101.737
Na 330.237	5347.07	5178.53	5138.64
Ni 231.604	148.305	149.045	147.105
Pb 220.353	171.144	167.697	173.920
Sb 206.834	29.2655	26.0216	23.1211
Se 196.026	93.0783	94.9386	89.8707
Sn 189.925	284.369	274.499	275.185
Sr 216.596	368.044	366.831	366.798
Ti 334.941	939.905	937.160	939.910
Tl 190.794	40.4447	47.7394	53.3145
V 292.401	416.019	415.126	415.043
Zn 206.200	269.491	267.197	269.279

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	9.5685	ppb	0.7152	7.5	615.758
Al 308.215	133948	ppb	247.975	0.2	773971
As 188.980	476.048	ppb	3.9679	0.8	313.436
B 249.678	181.932	ppb	0.8139	0.4	1744.61
Ba 389.178	600.920	ppb	1.8278	0.3	12572.3
Be 313.042	55.7877	ppb	0.1126	0.2	107681
Ca 370.602	16832	ppb	34.16	0.2	42951
Cd 226.502	52.7224	ppb	0.3528	0.7	2195.86
Co 228.615	69.3570	ppb	0.9608	1.4	824.692
Cr 267.716	250.571	ppb	0.4860	0.2	10503.3
Cu 324.754	223.505	ppb	0.3609	0.2	11048.6
Fe 271.441	139654	ppb	370.065	0.3	235057
K 766.491	7920.18	ppb	20.0022	0.3	380186
Mg 279.078	7688.79	ppb	18.2427	0.2	15867.1
Mn 257.610	1008.20	ppb	2.1244	0.2	232585
Mo 202.032	102.019	ppb	0.7757	0.8	661.115
Na 330.237	5221.41	ppb	110.636	2.1	213.638
Ni 231.604	148.152	ppb	0.9793	0.7	353.173
Pb 220.353	170.920	ppb	3.1180	1.8	276.622
Sb 206.834	26.1361	ppb	3.0738	11.8	20.0601
Se 196.026	92.6292	ppb	2.5636	2.8	30.6070
Sn 189.925	278.018	ppb	5.5111	2.0	208.517
Sr 216.596	367.224	ppb	0.7104	0.2	3484.76
Ti 334.941	938.992	ppb	1.5866	0.2	237688
Tl 190.794	47.1662	ppb	6.4540	13.7	23.6418
V 292.401	415.396	ppb	0.5414	0.1	11364.7
Zn 206.200	268.656	ppb	1.2678	0.5	416.478

E03292013.vvq. All Data Report 3/30/2013, 8:54:32 AM

680-88516-a-15-c (Samp) 3/29/2013, 9:23:23 PM Rack 2, Tube 59

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.4162u	-0.0943u	-0.6635u
Al 308.215	96253.8	95878.6	95439.9
As 188.980	41.3056	36.2081	36.5112
B 249.678	-6.0705u	-5.9303u	-8.7162u
Ba 389.178	79.2545	79.9111	79.4631
Be 313.042	0.7252	0.7289	0.7208
Ca 370.602	2341u	2348u	2350u
Cd 226.502	-0.8628	-0.8187	-0.7714
Co 228.615	1.7847	1.0280	1.8518
Cr 267.716	130.317	129.812	129.448
Cu 324.754	34.3961	33.9532	33.6461
Fe 271.441	113356	112750	112270
K 766.491	1323.30	1313.78	1311.34
Mg 279.078	1068.80	1066.51	1042.94
Mn 257.610	68.9658	68.7025	68.4286
Mo 202.032	6.8305	6.1099	5.8163
Na 330.237	-50.6035u	106.692u	177.713u
Ni 231.604	12.2923	14.0442	11.8941
Pb 220.353	46.7543	44.8657	49.0182
Sb 206.834	0.2854	10.1344	-0.5353
Se 196.026	-14.5226u	19.5334	10.2084
Sn 189.925	16.6001	20.7036	14.4511
Sr 216.596	39.9726	41.1969	38.8347
Ti 334.941	608.664	606.432	604.132
Tl 190.794	3.8993u	5.9614	13.3446
V 292.401	305.333	304.069	303.060
Zn 206.200	41.8451	41.5797	40.3860

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.3913	ppb	0.2855	72.9	-83.9768
Al 308.215	95857.4	ppb	407.364	0.4	553945
As 188.980	38.0083	ppb	2.8596	7.5	23.2376
B 249.678	-6.9056	ppb	1.5695	22.7	0.6827
Ba 389.178	79.5429	ppb	0.3355	0.4	1723.42
Be 313.042	0.7250	ppb	0.0041	0.6	1249.22
Ca 370.602	2346	ppb	4.472	0.2	-1609
Cd 226.502	-0.8176	ppb	0.0457	5.6	222.598
Co 228.615	1.5548	ppb	0.4575	29.4	45.4379
Cr 267.716	129.859	ppb	0.4361	0.3	5451.39
Cu 324.754	33.9985	ppb	0.3771	1.1	1781.04
Fe 271.441	112792	ppb	543.852	0.5	189837
K 766.491	1316.14	ppb	6.3205	0.5	63370.8
Mg 279.078	1059.42	ppb	14.3179	1.4	2206.36
Mn 257.610	68.6990	ppb	0.2686	0.4	16219.5
Mo 202.032	6.2522	ppb	0.5218	8.3	48.5168
Na 330.237	77.9340	ppb	116.844	149.9	-38.7663
Ni 231.604	12.7435	ppb	1.1438	9.0	32.2773
Pb 220.353	46.8794	ppb	2.0791	4.4	77.1660
Sb 206.834	3.2948	ppb	5.9374	180.2	5.3387
Se 196.026	5.0731	ppb	17.5992	346.9	1.9166
Sn 189.925	17.2516	ppb	3.1767	18.4	13.3205
Sr 216.596	40.0014	ppb	1.1814	3.0	424.254
Ti 334.941	606.409	ppb	2.2660	0.4	153466
Tl 190.794	7.7351	ppb	4.9662	64.2	-0.3793
V 292.401	304.154	ppb	1.1387	0.4	8337.93
Zn 206.200	41.2703	ppb	0.7772	1.9	65.2290



X (Samp) 3/29/2013, 9:28:50 PM Rack 2, Tube 60  
Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.6144u	-0.3466u	-0.1673u
Al 308.215	-22.2502u	-23.1667u	-21.1261u
As 188.980	-0.9620u	0.6580	-3.2804u
B 249.678	-14.1359u	-14.4393u	-14.0119u
Ba 389.178	-0.6640u	-1.0767u	-0.2719u
Be 313.042	0.0157	0.0213	0.0192
Ca 370.602	-5.488u	-6.522u	-6.802u
Cd 226.502	-0.0125u	-0.0708u	0.0184
Co 228.615	-0.6126u	-0.7318u	-0.4296u
Cr 267.716	-0.1256u	0.0071	-0.1969u
Cu 324.754	-2.0983u	-2.0301u	-1.9711u
Fe 271.441	5.8874	2.7570	9.6441
K 766.491	-1.9496u	-0.9786u	-1.2461u
Mg 279.078	-6.5468u	-2.7707u	-6.1673u
Mn 257.610	-0.3508u	-0.3081u	-0.3323u
Mo 202.032	-1.1579u	-1.3582u	-1.2679u
Na 330.237	476.798	258.435	183.991
Ni 231.604	0.8877	-0.4755u	-0.5913u
Pb 220.353	1.0194	1.2072	-0.1466u
Sb 206.834	6.7641	-1.5840u	-1.9881u
Se 196.026	-2.5815u	2.7563	1.7519
Sn 189.925	-1.4229u	1.2537	0.0886
Sr 216.596	-1.0128u	-0.8515u	-0.7648u
Ti 334.941	0.1851	0.1147	0.0916
Tl 190.794	1.4798	3.0832	-5.3932u
V 292.401	0.0451	-0.1722u	-0.5019u
Zn 206.200	-0.7652u	-1.9850u	-0.7832u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.3761	ppb	0.2250	59.8	-83.3188
Al 308.215	-22.1810	ppb	1.0221	4.6	138.135
As 188.980	-1.1948	ppb	1.9795	165.7	-1.5423
B 249.678	-14.1957	ppb	0.2199	1.5	37.6589
Ba 389.178	-0.6709	ppb	0.4024	60.0	-17.4597
Be 313.042	0.0188	ppb	0.0028	15.0	-111.995
Ca 370.602	-6.271	ppb	0.6920	11.0	-27.10
Cd 226.502	-0.0216	ppb	0.0453	209.3	8.2430
Co 228.615	-0.5913	ppb	0.1522	25.7	8.8649
Cr 267.716	-0.1051	ppb	0.1035	98.4	-1.1490
Cu 324.754	-2.0332	ppb	0.0636	3.1	-9.0998
Fe 271.441	6.0962	ppb	3.4483	56.6	13.4649
K 766.491	-1.3915	ppb	0.5016	36.0	165.098
Mg 279.078	-5.1616	ppb	2.0792	40.3	18.5955
Mn 257.610	-0.3304	ppb	0.0214	6.5	16.8524
Mo 202.032	-1.2613	ppb	0.1003	8.0	5.8480
Na 330.237	306.408	ppb	152.184	49.7	11.8448
Ni 231.604	-0.0597	ppb	0.8225	1377.8	-0.1543
Pb 220.353	0.6933	ppb	0.7334	105.8	4.6280
Sb 206.834	1.0640	ppb	4.9406	464.3	1.6477
Se 196.026	0.6422	ppb	2.8367	441.7	0.0326
Sn 189.925	-0.0269	ppb	1.3421	4995.6	0.3886
Sr 216.596	-0.8764	ppb	0.1258	14.4	2.8454
Ti 334.941	0.1305	ppb	0.0487	37.3	-28.5823
Tl 190.794	-0.2767	ppb	4.5029	1627.1	-1.8663
V 292.401	-0.2097	ppb	0.2754	131.4	0.0130
Zn 206.200	-1.1778	ppb	0.6991	59.4	-0.0169

E03292013.wvq. All Data Report 3/30/2013, 8:54:32 AM

Cont Calib Verif (CCV)                      3/29/2013, 9:34:16 PM                      Rack 3, Tube 1  
 Weight: 1    Volume: 1    Dilution: 1

Label	Replicates Concentration		
Ag 328.068	509.879	502.893	500.054
Al 308.215	5233.44	5172.25	5155.98
As 188.980	537.868	531.514	527.013
B 249.678	598.372	597.073	599.953
Ba 389.178	4710.08	4657.29	4642.73
Be 313.042	501.234	496.976	494.995
Ca 370.602	4933	4876	4857
Cd 226.502	493.030	487.756	486.217
Co 228.615	492.846	486.351	484.467
Cr 267.716	4918.00	4870.50	4853.67
Cu 324.754	4721.13	4603.48	4680.41
Fe 271.441	5261.90	5206.16	5203.61
K 766.491	10090.0	9997.15	9974.54
Mg 279.078	5280.77	5222.36	5200.33
Mn 257.610	4900.25	4844.58	4829.27
Mo 202.032	500.866	496.306	496.921
Na 330.237	7741.85	7549.87	7569.91
Ni 231.604	2467.20	2445.71	2434.59
Pb 220.353	508.225	504.675	506.178
Sb 206.834	1020.99	1011.47	1026.61
Se 196.026	5282.16	5204.91	5196.58
Sn 189.925	5137.54	5088.41	5035.40
Sr 216.596	2538.01	2512.13	2508.88
Ti 334.941	505.501	501.102	499.253
Tl 190.794	5106.22	5061.13	5043.56
V 292.401	5108.96	5054.37	5038.28
Zn 206.200	2512.96	2479.20	2461.35

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	504.275	ppb	5.0561	1.0	35767.9	100.85503
Al 308.215	5187.22	ppb	40.8404	0.8	30203.3	103.74449
As 188.980	532.131	ppb	5.4538	1.0	351.858	106.42628
B 249.678	598.466	ppb	1.4422	0.2	5771.91	23.93864Q
Ba 389.178	4670.03	ppb	35.4392	0.8	96998.3	93.40067
Be 313.042	497.735	ppb	3.1879	0.6	961781	99.54698
Ca 370.602	4889	ppb	39.31	0.8	15592	97.77277
Cd 226.502	489.001	ppb	3.5728	0.7	17515.0	97.80020
Co 228.615	487.888	ppb	4.3960	0.9	5597.56	97.57759
Cr 267.716	4880.72	ppb	33.3657	0.7	203891	97.61444
Cu 324.754	4668.34	ppb	59.7448	1.3	228127	93.36678
Fe 271.441	5223.89	ppb	32.9425	0.6	8917.32	104.47781
K 766.491	10020.6	ppb	61.1769	0.6	480948	100.20557
Mg 279.078	5234.49	ppb	41.5733	0.8	10755.5	104.68970
Mn 257.610	4858.03	ppb	37.3526	0.8	1118360	97.16065
Mo 202.032	498.031	ppb	2.4741	0.5	3198.18	99.60619
Na 330.237	7620.55	ppb	105.534	1.4	364.210	101.60728
Ni 231.604	2449.17	ppb	16.5780	0.7	5794.94	97.96679
Pb 220.353	506.359	ppb	1.7817	0.4	820.854	101.27188
Sb 206.834	1019.69	ppb	7.6521	0.8	659.530	101.96870
Se 196.026	5227.89	ppb	47.1870	0.9	1698.42	104.55772
Sn 189.925	5087.12	ppb	51.0821	1.0	3808.24	101.74234
Sr 216.596	2519.67	ppb	15.9654	0.6	23482.9	100.78680
Ti 334.941	501.952	ppb	3.2096	0.6	127025	100.39035
Tl 190.794	5070.30	ppb	32.3229	0.6	3311.52	101.40603
V 292.401	5067.20	ppb	37.0472	0.7	138440	101.34403
Zn 206.200	2484.50	ppb	26.2997	1.1	3828.97	99.38009

E03292013.vvq. All Data Report 3/30/2013, 8:54:32 AM

Cont Calib Blank (CCB)                      3/29/2013, 9:39:42 PM                      Rack 3, Tube 2  
 Weight: 1    Volume: 1    Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.8618u	-0.6534u	-0.3286u
Al 308.215	0.2144	0.5666	2.2380
As 188.980	0.9314	5.8351	-1.3030u
B 249.678	4.3473	3.2008	0.2849
Ba 389.178	-0.5575u	-0.3902u	0.1541
Be 313.042	-0.0486u	-0.0510u	-0.0490u
Ca 370.602	-3.729u	-4.056u	5.421
Cd 226.502	0.0829	-0.0604u	-0.0844u
Co 228.615	-0.2610u	0.0217	-0.7017u
Cr 267.716	-0.0791u	0.1811	-0.2814u
Cu 324.754	-0.4982u	-0.5535u	-0.6742u
Fe 271.441	3.1446	-13.9681u	4.4067
K 766.491	-1.2878u	-0.4028u	-0.1481u
Mg 279.078	0.1772	-0.7083u	-1.4731u
Mn 257.610	-0.2473u	-0.2018u	-0.2014u
Mo 202.032	-0.0533u	-0.2458u	-0.4916u
Na 330.237	-36.6732u	71.0436	12.1017
Ni 231.604	0.9606	1.1866	1.3958
Pb 220.353	-5.3035u	-2.3546u	-0.3474u
Sb 206.834	2.7641	-1.4217u	-2.0363u
Se 196.026	13.2690	24.4415	13.0011
Sn 189.925	-0.2260u	-4.0545u	-1.3745u
Sr 216.596	0.0543	-0.1903u	-0.1016u
Ti 334.941	0.0617	0.0206	-0.0138u
Tl 190.794	2.0653	-1.7576u	2.0882
V 292.401	-0.1114u	-0.1040u	-0.0755u
Zn 206.200	-1.3494u	0.7015	-0.4661u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	-0.6146	ppb	0.2687	43.7	-100.307	-0.61462
Al 308.215	1.0063	ppb	1.0811	107.4	272.211	1.00632
As 188.980	1.8212	ppb	3.6513	200.5	0.4568	1.82117
B 249.678	2.6110	ppb	2.0944	80.2	195.096	2.61097
Ba 389.178	-0.2645	ppb	0.3721	140.6	-9.0133	-0.26454
Be 313.042	-0.0496	ppb	0.0013	2.6	-244.181	-0.04955
Ca 370.602	-0.7879	ppb	5.380	682.8	-9.615	-0.78790
Cd 226.502	-0.0206	ppb	0.0905	438.7	8.2856	-0.02062
Co 228.615	-0.3137	ppb	0.3645	116.2	11.9990	-0.31365
Cr 267.716	-0.0598	ppb	0.2318	387.7	0.7406	-0.05980
Cu 324.754	-0.5753	ppb	0.0900	15.6	62.1528	-0.57531
Fe 271.441	-2.1389	ppb	10.2638	479.9	-0.3339	-2.13893
K 766.491	-0.6129	ppb	0.5982	97.6	202.448	-0.61288
Mg 279.078	-0.6681	ppb	0.8259	123.6	27.8594	-0.66807
Mn 257.610	-0.2168	ppb	0.0264	12.2	43.0206	-0.21682
Mo 202.032	-0.2636	ppb	0.2197	83.4	12.2445	-0.26356
Na 330.237	15.4907	ppb	53.9383	348.2	-3.1340	15.49071
Ni 231.604	1.1810	ppb	0.2177	18.4	2.7812	1.18099
Pb 220.353	-2.6685	ppb	2.4929	93.4	-0.8013	-2.66847
Sb 206.834	-0.2313	ppb	2.6122	1129.2	0.8355	-0.23134
Se 196.026	16.9039	ppb	6.5292	38.6	5.3137	16.90388Z
Sn 189.925	-1.8850	ppb	1.9647	104.2	-1.0023	-1.88501
Sr 216.596	-0.0792	ppb	0.1238	156.4	10.2371	-0.07918
Ti 334.941	0.0228	ppb	0.0378	165.8	-55.7944	0.02281
Tl 190.794	0.7986	ppb	2.2138	277.2	-1.1633	0.79863
V 292.401	-0.0970	ppb	0.0190	19.6	2.8814	-0.09698
Zn 206.200	-0.3713	ppb	1.0287	277.0	5.12298	-0.37133

E03292013.wvq. All Data Report 3/30/2013, 8:54:32 AM

**mb 680-270787/1-a (Samp)**      **3/29/2013, 9:45:09 PM**      **Rack 3, Tube 3**  
**Weight: 1**      **Volume: 1**      **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.2740u	0.7538	0.2711
Al 308.215	3.3984	6.0756	5.1959
As 188.980	3.1019	3.6243	0.4114
B 249.678	-6.5258u	-6.6068u	-8.6857u
Ba 389.178	0.1999	-0.2322u	0.1675
Be 313.042	-0.0481u	-0.0474u	-0.0484u
Ca 370.602	11.43	17.54	14.83
Cd 226.502	-0.2121u	0.2298	0.2787
Co 228.615	0.4050	-0.8927u	-0.3514u
Cr 267.716	0.2731	0.5907	0.1024
Cu 324.754	-0.3505u	-0.1697u	-0.8536u
Fe 271.441	17.1648	17.7873	15.6429
K 766.491	25.3356	26.9006	25.8315
Mg 279.078	4.4155	2.8108	4.9750
Mn 257.610	0.0342	0.0157	0.0089
Mo 202.032	-0.1090u	0.6866	-0.3673u
Na 330.237	210.026	-27.7283u	182.139
Ni 231.604	1.3911	1.9611	0.9589
Pb 220.353	1.2218	-3.4868u	0.2113
Sb 206.834	7.0471	1.9473	-2.7380u
Se 196.026	5.1546	0.9398	1.7246
Sn 189.925	8.8700	11.3226	16.5584
Sr 216.596	0.1643	-0.4472u	-0.2750u
Ti 334.941	0.2659	0.2900	0.3000
Tl 190.794	-2.0238u	-3.8049u	4.5296
V 292.401	-0.8944u	-0.1436u	-0.1136u
Zn 206.200	1.1611	1.4231	1.0223

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.2503	ppb	0.5142	205.4	-38.7813
Al 308.215	4.8900	ppb	1.3646	27.9	294.637
As 188.980	2.3792	ppb	1.7241	72.5	0.8267
B 249.678	-7.2728	ppb	1.2243	16.8	102.496
Ba 389.178	0.0451	ppb	0.2407	534.3	-2.5735
Be 313.042	-0.0480	ppb	0.0005	1.1	-241.138
Ca 370.602	14.60	ppb	3.063	21.0	38.94
Cd 226.502	0.0988	ppb	0.2703	273.6	12.5853
Co 228.615	-0.2797	ppb	0.6518	233.0	12.3882
Cr 267.716	0.3221	ppb	0.2478	76.9	16.7033
Cu 324.754	-0.4579	ppb	0.3544	77.4	67.8905
Fe 271.441	16.8650	ppb	1.1032	6.5	31.7202
K 766.491	26.0226	ppb	0.7998	3.1	1480.23
Mg 279.078	4.0671	ppb	1.1234	27.6	37.6296
Mn 257.610	0.0196	ppb	0.0131	66.6	97.5123
Mo 202.032	0.0701	ppb	0.5493	783.6	14.3834
Na 330.237	121.479	ppb	129.968	107.0	2.3065
Ni 231.604	1.4370	ppb	0.5027	35.0	3.3873
Pb 220.353	-0.6845	ppb	2.4788	362.1	2.4014
Sb 206.834	2.0855	ppb	4.8940	234.7	2.2718
Se 196.026	2.6063	ppb	2.2415	86.0	0.6705
Sn 189.925	12.2503	ppb	3.9273	32.1	9.5784
Sr 216.596	-0.1860	ppb	0.3153	169.5	9.2540
Ti 334.941	0.2853	ppb	0.0175	6.1	10.6692
Tl 190.794	-0.4330	ppb	4.3890	1013.6	-1.9695
V 292.401	-0.3839	ppb	0.4424	115.2	-4.9778
Zn 206.200	1.2022	ppb	0.2936	416.8	2.6620

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ics 680-270787/2-a (Samp)      3/29/2013, 9:50:35 PM      Rack 3, Tube 4  
 Weight: 1      Volume: 1      Dilution: 1

Label	Replicates Concentration		
Ag 328.068	59.9339	58.8465	58.3102
Al 308.215	5216.67	5189.75	5215.62
As 188.980	108.368	114.693	107.739
B 249.678	205.959	206.617	209.642
Ba 389.178	103.060	103.311	103.123
Be 313.042	55.5527	55.1862	55.5588
Ca 370.602	5060	5032	5053
Cd 226.502	55.4347	55.1049	55.3490
Co 228.615	52.9711	53.2324	53.8483
Cr 267.716	108.508	107.255	108.497
Cu 324.754	104.903	104.184	105.335
Fe 271.441	5363.14	5344.37	5371.14
K 766.491	5203.88	5171.21	5203.29
Mg 279.078	5435.12	5406.24	5433.65
Mn 257.610	547.316	544.160	547.064
Mo 202.032	104.171	102.122	102.833
Na 330.237	4967.08	5105.34	4943.96
Ni 231.604	105.593	106.505	109.022
Pb 220.353	51.8979	52.4442	51.6988
Sb 206.834	46.3909	60.4870	47.1216
Se 196.026	111.426	113.142	108.814
Sn 189.925	217.499	220.358	213.792
Sr 216.596	108.883	107.780	110.196
Ti 334.941	103.503	102.842	103.664
Tl 190.794	41.8296	44.6893	49.3954
V 292.401	105.270	104.772	105.442
Zn 206.200	107.218	107.453	106.874

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	59.0302	ppb	0.8273	1.4	4141.79
Al 308.215	5207.35	ppb	15.2480	0.3	30356.4
As 188.980	110.266	ppb	3.8462	3.5	72.3061
B 249.678	207.406	ppb	1.9642	0.9	2108.55
Ba 389.178	103.164	ppb	0.1304	0.1	2145.62
Be 313.042	55.4326	ppb	0.2134	0.4	106992
Ca 370.602	5048	ppb	14.64	0.3	15856
Cd 226.502	55.2962	ppb	0.1711	0.3	1998.87
Co 228.615	53.3506	ppb	0.4504	0.8	624.348
Cr 267.716	108.087	ppb	0.7207	0.7	4521.16
Cu 324.754	104.808	ppb	0.5816	0.6	5213.88
Fe 271.441	5359.55	ppb	13.7419	0.3	9032.95
K 766.491	5192.80	ppb	18.6936	0.4	249346
Mg 279.078	5425.01	ppb	16.2655	0.3	11216.4
Mn 257.610	546.180	ppb	1.7536	0.3	125859
Mo 202.032	103.042	ppb	1.0404	1.0	674.133
Na 330.237	5005.46	ppb	87.2667	1.7	250.468
Ni 231.604	107.040	ppb	1.7761	1.7	253.351
Pb 220.353	52.0136	ppb	0.3859	0.7	87.2967
Sb 206.834	51.3332	ppb	7.9359	15.5	32.8708
Se 196.026	111.127	ppb	2.1794	2.0	36.0227
Sn 189.925	217.216	ppb	3.2920	1.5	163.003
Sr 216.596	108.953	ppb	1.2091	1.1	1025.65
Ti 334.941	103.336	ppb	0.4354	0.4	26119.9
Tl 190.794	45.3047	ppb	3.8203	8.4	27.2666
V 292.401	105.161	ppb	0.3479	0.3	2861.60
Zn 206.200	107.182	ppb	0.2913	0.3	167.216

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ics 680-270787/3-a (Samp)      3/29/2013, 9:56:01 PM      Rack 3, Tube 5  
 Weight: 1      Volume: 1      Dilution: 1

Label	Replicates Concentration		
Ag 328.068	211.617	215.415	212.981
Al 308.215	2108.03	2113.70	2114.44
As 188.980	225.573	223.480	219.381
B 249.678	427.431	432.329	437.055
Ba 389.178	191.518	191.910	192.993
Be 313.042	218.630	219.181	219.309
Ca 370.602	20092	20157	20137
Cd 226.502	209.889	210.516	210.746
Co 228.615	208.431	208.123	211.089
Cr 267.716	212.114	212.709	212.304
Cu 324.754	207.095	211.051	207.429
Fe 271.441	21978.7	22035.9	22052.3
K 766.491	20094.2	20176.9	20210.0
Mg 279.078	21454.7	21452.4	21486.7
Mn 257.610	2158.19	2162.33	2163.29
Mo 202.032	207.951	208.391	207.903
Na 330.237	18375.6	18575.2	18640.6
Ni 231.604	207.100	209.155	210.836
Pb 220.353	202.865	209.091	209.045
Sb 206.834	189.393	184.754	198.361
Se 196.026	210.438	214.732	227.225
Sn 189.925	221.655	217.068	225.257
Sr 216.596	223.577	225.023	224.035
Ti 334.941	206.267	207.117	206.644
Tl 190.794	46.4411	50.4840	55.1250
V 292.401	210.102	210.652	210.791
Zn 206.200	200.821	203.856	202.341

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	213.338	ppb	1.9236	0.9	15123.2
Al 308.215	2112.05	ppb	3.5058	0.2	12489.5
As 188.980	222.811	ppb	3.1493	1.4	146.842
B 249.678	432.272	ppb	4.8126	1.1	4199.44
Ba 389.178	192.140	ppb	0.7641	0.4	4012.47
Be 313.042	219.040	ppb	0.3605	0.2	423251
Ca 370.602	20129	ppb	33.17	0.2	63142
Cd 226.502	210.384	ppb	0.4439	0.2	7583.38
Co 228.615	209.214	ppb	1.6308	0.8	2403.90
Cr 267.716	212.375	ppb	0.3039	0.1	8885.99
Cu 324.754	208.525	ppb	2.1942	1.1	10287.6
Fe 271.441	22022.3	ppb	38.6449	0.2	37102.0
K 766.491	20160.4	ppb	59.6500	0.3	967384
Mg 279.078	21464.6	ppb	19.1472	0.1	44298.2
Mn 257.610	2161.27	ppb	2.7134	0.1	497760
Mo 202.032	208.082	ppb	0.2691	0.1	1346.64
Na 330.237	18530.5	ppb	138.057	0.7	940.044
Ni 231.604	209.030	ppb	1.8710	0.9	494.975
Pb 220.353	207.000	ppb	3.5817	1.7	337.666
Sb 206.834	190.836	ppb	6.9176	3.6	119.884
Se 196.026	217.465	ppb	8.7209	4.0	70.8837
Sn 189.925	221.327	ppb	4.1043	1.9	166.090
Sr 216.596	224.212	ppb	0.7388	0.3	2104.08
Ti 334.941	206.676	ppb	0.4260	0.2	52345.9
Tl 190.794	50.6834	ppb	4.3454	8.6	28.7320
V 292.401	210.515	ppb	0.3641	0.2	5722.99
Zn 206.200	202.339	ppb	1.5179	0.8	314.045

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**680-88580-a-18-b (Samp)**                      **3/29/2013, 10:01:28 PM**                      **Rack 3, Tube 6**  
**Weight: 1**    **Volume: 1**    **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-1.3191u	-0.5340u	-0.5242u
Al 308.215	107653	106963	107351
As 188.980	68.3091	68.5851	68.2302
B 249.678	-4.1879u	-3.3428u	-4.4015u
Ba 389.178	124.318	123.754	124.914
Be 313.042	1.1533	1.1495	1.1442
Ca 370.602	2803u	2810u	2790u
Cd 226.502	-0.9234	-0.5841	-0.5159
Co 228.615	4.7143	5.0529	5.2595
Cr 267.716	149.811	148.889	149.200
Cu 324.754	63.1931	63.1816	62.1717
Fe 271.441	131434	130743	131151
K 766.491	860.865	857.303	862.325
Mg 279.078	1167.69	1164.50	1173.95
Mn 257.610	167.129	166.128	166.468
Mo 202.032	8.4428	8.5785	8.5168
Na 330.237	-44.5491u	157.918u	-69.2598u
Ni 231.604	21.8157	19.8990	23.6482
Pb 220.353	75.0526	74.8587	74.4493
Sb 206.834	-0.9848	-1.8716	3.1876
Se 196.026	1.5857	4.5761	-3.6569u
Sn 189.925	25.0765	25.9433	20.8776
Sr 216.596	104.972	105.129	104.665
Ti 334.941	732.768	730.104	733.261
Tl 190.794	6.2185u	4.5301u	3.1443u
V 292.401	345.805	342.999	345.022
Zn 206.200	126.787	127.265	125.085

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.7924	ppb	0.4561	57.6	-114.566
Al 308.215	107322	ppb	346.095	0.3	620167
As 188.980	68.3748	ppb	0.1863	0.3	43.1725
B 249.678	-3.9774	ppb	0.5599	14.1	11.0134
Ba 389.178	124.329	ppb	0.5804	0.5	2665.65
Be 313.042	1.1490	ppb	0.0046	0.4	2068.04
Ca 370.602	2801	ppb	9.815	0.4	-1625
Cd 226.502	-0.6745	ppb	0.2182	32.4	267.163
Co 228.615	5.0089	ppb	0.2753	5.5	87.5228
Cr 267.716	149.300	ppb	0.4691	0.3	6267.73
Cu 324.754	62.8488	ppb	0.5864	0.9	3195.47
Fe 271.441	131109	ppb	347.068	0.3	220666
K 766.491	860.164	ppb	2.5832	0.3	41496.5
Mg 279.078	1168.72	ppb	4.8075	0.4	2430.27
Mn 257.610	166.575	ppb	0.5087	0.3	38799.1
Mo 202.032	8.5127	ppb	0.0679	0.8	62.1302
Na 330.237	14.7032	ppb	124.642	847.7	-49.1254
Ni 231.604	21.7876	ppb	1.8747	8.6	54.0221
Pb 220.353	74.7869	ppb	0.3080	0.4	121.967
Sb 206.834	0.1104	ppb	2.7016	2447.0	3.7302
Se 196.026	0.8350	ppb	4.1675	499.1	0.6266
Sn 189.925	23.9658	ppb	2.7094	11.3	18.3460
Sr 216.596	104.922	ppb	0.2361	0.2	1036.64
Ti 334.941	732.044	ppb	1.6981	0.2	185272
Tl 190.794	4.6310	ppb	1.5396	33.2	-3.1048
V 292.401	344.608	ppb	1.4480	0.4	9446.53
Zn 206.200	126.379	ppb	1.1459	0.9	196.776

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**680-88580-a-19-b (Samp)**                      **3/29/2013, 10:06:54 PM**                      **Rack 3, Tube 7**  
**Weight: 1**    **Volume: 1**    **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.2706u	-0.1334u	0.0923
Al 308.215	112301	112118	111680
As 188.980	43.4724	47.8439	59.4069
B 249.678	-16.8601u	-17.8306u	-19.1211u
Ba 389.178	95.2452	94.6164	94.8703
Be 313.042	0.8878	0.8865	0.8969
Ca 370.602	1450u	1467u	1487u
Cd 226.502	-1.3170	-1.2993	-1.1755
Co 228.615	4.1433	3.4094	4.7373
Cr 267.716	200.169	199.497	199.622
Cu 324.754	41.1680	41.8945	40.8110
Fe 271.441	170513	170073	169656
K 766.491	951.073	950.408	951.038
Mg 279.078	847.365	843.445	841.197
Mn 257.610	160.590	160.352	159.799
Mo 202.032	11.4054	10.4353	11.7790
Na 330.237	402.726u	-225.652u	-34.6801u
Ni 231.604	12.4070	10.5405	8.9101
Pb 220.353	45.6452	43.4002	49.5088
Sb 206.834	8.9528	-7.1647u	8.9761
Se 196.026	-15.9915u	-24.2864u	-3.9293u
Sn 189.925	15.4484	21.5236	19.0230
Sr 216.596	24.1637	23.4322	22.9580
Ti 334.941	775.813	772.603	771.515
Tl 190.794	1.1572u	10.3794	9.7236
V 292.401	446.447	444.790	444.277
Zn 206.200	74.8571	75.5329	75.5297

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1039	ppb	0.1833	176.4	-61.7956
Al 308.215	112033	ppb	319.411	0.3	647377
As 188.980	50.2411	ppb	8.2332	16.4	30.7141
B 249.678	-17.9373	ppb	1.1343	6.3	-156.113
Ba 389.178	94.9106	ppb	0.3163	0.3	2080.32
Be 313.042	0.8904	ppb	0.0056	0.6	1563.36
Ca 370.602	1468	ppb	18.20	1.2	-9117
Cd 226.502	-1.2639	ppb	0.0771	6.1	329.930
Co 228.615	4.0966	ppb	0.6652	16.2	76.9353
Cr 267.716	199.763	ppb	0.3576	0.2	8383.29
Cu 324.754	41.2912	ppb	0.5522	1.3	2152.63
Fe 271.441	170081	ppb	428.771	0.3	286256
K 766.491	950.840	ppb	0.3740	0.0	45846.4
Mg 279.078	844.002	ppb	3.1218	0.4	1765.71
Mn 257.610	160.247	ppb	0.4058	0.3	37446.8
Mo 202.032	11.2066	ppb	0.6935	6.2	77.5086
Na 330.237	47.4649	ppb	322.142	678.7	-59.0561
Ni 231.604	10.6192	ppb	1.7497	16.5	28.3260
Pb 220.353	46.1848	ppb	3.0898	6.7	75.6802
Sb 206.834	3.5881	ppb	9.3122	259.5	6.7067
Se 196.026	-14.7357	ppb	10.2365	69.5	-4.2813
Sn 189.925	18.6650	ppb	3.0534	16.4	14.3770
Sr 216.596	23.5180	ppb	0.6074	2.6	290.525
Ti 334.941	773.310	ppb	2.2346	0.3	195721
Tl 190.794	7.0867	ppb	5.1456	72.6	-2.7677
V 292.401	445.171	ppb	1.1340	0.3	12198.5
Zn 206.200	75.3065	ppb	0.3893	0.5	517.649



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680-88580-a-20-b (Samp)      3/29/2013, 10:12:20 PM      Rack 3, Tube 8  
 Weight: 1      Volume: 1      Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.2487u	0.0409	0.1184
Al 308.215	73497.8	73330.5	73070.0
As 188.980	14.0730	16.3985	16.6518
B 249.678	-12.1835u	-12.5493u	-11.0049u
Ba 389.178	115.784	115.432	116.030
Be 313.042	0.6084	0.5990	0.6009
Ca 370.602	3740	3740	3729
Cd 226.502	-0.5456	-0.3028	-0.5027
Co 228.615	0.4652	1.1836	1.7421
Cr 267.716	86.7877	86.4517	85.7774
Cu 324.754	37.1249	36.9591	37.2077
Fe 271.441	82904.1	82580.6	82501.6
K 766.491	928.299	924.880	925.611
Mg 279.078	945.135	933.339	938.549
Mn 257.610	103.422	103.143	102.766
Mo 202.032	4.0582	4.3822	3.7011
Na 330.237	144.620u	-76.2599u	357.025u
Ni 231.604	8.4571	11.0577	9.8504
Pb 220.353	55.0134	49.0130	49.5895
Sb 206.834	0.4792	-2.9648u	9.1190
Se 196.026	-7.6749u	-20.2518u	-0.6024
Sn 189.925	20.0978	17.3400	25.1051
Sr 216.596	50.9709	50.9835	51.4065
Ti 334.941	575.743	574.533	573.099
Tl 190.794	5.1870	5.6704	8.9171
V 292.401	222.965	221.843	222.722
Zn 206.200	119.745	120.457	120.780

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0298	ppb	0.1935	649.2	-59.0317
Al 308.215	73299.4	ppb	215.611	0.3	423649
As 188.980	15.7077	ppb	1.4214	9.0	8.7954
B 249.678	-11.9126	ppb	0.8070	6.8	-18.1197
Ba 389.178	115.749	ppb	0.3007	0.3	2455.35
Be 313.042	0.6028	ppb	0.0050	0.8	1015.07
Ca 370.602	3736	ppb	6.388	0.2	5342
Cd 226.502	-0.4504	ppb	0.1296	28.8	170.916
Co 228.615	1.1303	ppb	0.6401	56.6	40.6935
Cr 267.716	86.3389	ppb	0.5145	0.6	3627.53
Cu 324.754	37.0973	ppb	0.1266	0.3	1924.47
Fe 271.441	82662.1	ppb	213.283	0.3	139127
K 766.491	926.263	ppb	1.8004	0.2	44667.4
Mg 279.078	939.008	ppb	5.9115	0.6	1958.63
Mn 257.610	103.111	ppb	0.3293	0.3	24057.7
Mo 202.032	4.0472	ppb	0.3407	8.4	35.8489
Na 330.237	141.795	ppb	216.656	152.8	-26.7965
Ni 231.604	9.7884	ppb	1.3014	13.3	24.7155
Pb 220.353	51.2053	ppb	3.3105	6.5	84.5795
Sb 206.834	2.2111	ppb	6.2253	281.5	4.0000
Se 196.026	-9.5097	ppb	9.9523	104.7	-2.9295
Sn 189.925	20.8476	ppb	3.9365	18.9	16.0134
Sr 216.596	51.1203	ppb	0.2479	0.5	517.613
Ti 334.941	574.458	ppb	1.3241	0.2	145373
Tl 190.794	6.5915	ppb	2.0285	30.8	-0.1758
V 292.401	222.510	ppb	0.5904	0.3	6103.93
Zn 206.200	120.328	ppb	0.5295	0.4	187.609

E03292013.wvq. All Data Report 3/30/2013, 8:54:32 AM

680-88580-a-22-b (Samp)      3/29/2013, 10:17:57 PM      Rack 3, Tube 9  
 Weight: 1      Volume: 1      Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-1.5192u	-1.4330u	-1.8719u
Al 308.215	75115.5	74916.5	74728.1
As 188.980	22.6757	23.5715	27.7487
B 249.678	-9.5544u	-9.8851u	-10.6601u
Ba 389.178	175.947	176.146	175.617
Be 313.042	1.8004	1.8009	1.8089
Ca 370.602	2448u	2436u	2448u
Cd 226.502	-0.7579	-0.9788	-0.7275
Co 228.615	18.6562	17.3598	18.0142
Cr 267.716	116.712	116.342	115.918
Cu 324.754	88.0858	88.0856	85.1601
Fe 271.441	114576	114218	114147
K 766.491	2130.44	2125.10	2132.61
Mg 279.078	1600.86	1597.28	1599.13
Mn 257.610	940.351	937.561	935.630
Mo 202.032	4.2211	3.5607	3.7841
Na 330.237	52.4130u	285.136u	-22.5687u
Ni 231.604	27.7108	29.8769	26.2982
Pb 220.353	64.5007	60.5643	67.8494
Sb 206.834	4.1378	-4.2115u	2.2203
Se 196.026	5.7006	9.2975	-17.3341u
Sn 189.925	22.2899	23.6832	24.2439
Sr 216.596	87.1011	84.8331	86.1190
Ti 334.941	1087.00	1085.81	1081.95
Tl 190.794	18.1395	9.4003	12.0686
V 292.401	283.992	282.889	283.288
Zn 206.200	150.411	151.460	153.938

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.6080	ppb	0.2325	14.5	-168.936
Al 308.215	74920.0	ppb	193.762	0.3	433009
As 188.980	24.6653	ppb	2.7076	11.0	14.3777
B 249.678	-10.0332	ppb	0.5675	5.7	-30.0061
Ba 389.178	175.903	ppb	0.2672	0.2	3725.73
Be 313.042	1.8034	ppb	0.0048	0.3	3332.67
Ca 370.602	2444	ppb	6.608	0.3	-1302
Cd 226.502	-0.8214	ppb	0.1371	16.7	225.680
Co 228.615	18.0100	ppb	0.6482	3.6	245.826
Cr 267.716	116.324	ppb	0.3973	0.3	4890.30
Cu 324.754	87.1105	ppb	1.6891	1.9	4376.39
Fe 271.441	114314	ppb	230.018	0.2	192401
K 766.491	2129.39	ppb	3.8637	0.2	102385
Mg 279.078	1599.09	ppb	1.7882	0.1	3312.93
Mn 257.610	937.847	ppb	2.3738	0.3	216287
Mo 202.032	3.8553	ppb	0.3359	8.7	33.1180
Na 330.237	104.993	ppb	160.450	152.8	-42.4038
Ni 231.604	27.9620	ppb	1.8025	6.4	68.3057
Pb 220.353	64.3048	ppb	3.6465	5.7	105.597
Sb 206.834	0.7155	ppb	4.3733	611.2	3.7100
Se 196.026	-0.7787	ppb	14.4498	1855.7	0.1633
Sn 189.925	23.4057	ppb	1.0061	4.3	17.9270
Sr 216.596	86.0177	ppb	1.1374	1.3	854.202
Ti 334.941	1084.92	ppb	2.6410	0.2	274599
Tl 190.794	13.2028	ppb	4.4786	33.9	2.3122
V 292.401	283.390	ppb	0.5585	0.2	7778.11
Zn 206.200	151.936	ppb	1.8112	1.2	226.394

E03292013.wvq. All Data Report 3/30/2013, 8:54:32 AM

680-88580-a-23-b (Samp) 3/29/2013, 10:23:24 PM Rack 3, Tube 10

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-4.1027u	-5.2235u	-3.4895u
Al 308.215	109401	109738	109674
As 188.980	44.0415	40.5750	38.1492
B 249.678	-16.5109u	-16.1916u	-16.2277u
Ba 389.178	1550.37	1554.72	1556.67
Be 313.042	7.7797	7.7979	7.8039
Ca 370.602	4766	4776	4779
Cd 226.502	-0.2967	0.0970	-0.1429
Co 228.615	66.2800	65.9568	67.2521
Cr 267.716	156.886	157.344	157.438
Cu 324.754	64.3242	66.3512	64.5670
Fe 271.441	108548	108597	108862
K 766.491	3353.83	3356.43	3371.16
Mg 279.078	3075.57	3072.63	3086.27
Mn 257.610	23282.4	23245.9	23359.3
Mo 202.032	4.6591	4.7534	3.4773
Na 330.237	702.382u	558.392u	442.542u
Ni 231.604	55.7036	56.0865	54.5701
Pb 220.353	292.601	299.532	293.537
Sb 206.834	0.6590	1.4700	-2.4634
Se 196.026	-11.7665	-5.6271	8.9562
Sn 189.925	17.0746	18.2004	15.7397
Sr 216.596	56.6838	55.2183	55.5699
Ti 334.941	1151.89	1152.03	1153.17
Tl 190.794	81.9897	90.3963	91.5386
V 292.401	230.041	229.852	230.441
Zn 206.200	249.390	248.007	252.848

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-4.2719	ppb	0.8793	20.6	-260.148
Al 308.215	109604	ppb	179.185	0.2	633350
As 188.980	40.9219	ppb	2.9614	7.2	25.2384
B 249.678	-16.3100	ppb	0.1749	1.1	-83.5490
Ba 389.178	1553.92	ppb	3.2282	0.2	32340.1
Be 313.042	7.7939	ppb	0.0126	0.2	14912.3
Ca 370.602	4774	ppb	6.827	0.1	7316
Cd 226.502	-0.1142	ppb	0.1984	173.7	238.880
Co 228.615	66.4963	ppb	0.6742	1.0	801.726
Cr 267.716	157.223	ppb	0.2957	0.2	6682.94
Cu 324.754	65.0808	ppb	1.1069	1.7	3299.03
Fe 271.441	108669	ppb	169.089	0.2	182907
K 766.491	3360.48	ppb	9.3439	0.3	161444
Mg 279.078	3078.16	ppb	7.1743	0.2	6002.92
Mn 257.610	23295.9	ppb	57.8931	0.2	5362653
Mo 202.032	4.2966	ppb	0.7111	16.5	36.2850
Na 330.237	567.772	ppb	130.174	22.9	-18.1481
Ni 231.604	55.4534	ppb	0.7885	1.4	133.258
Pb 220.353	295.224	ppb	3.7603	1.3	482.430
Sb 206.834	-0.1115	ppb	2.0768	1862.8	3.3914
Se 196.026	-2.8125	ppb	10.6442	378.5	3.1185
Sn 189.925	17.0049	ppb	1.2319	7.2	13.1370
Sr 216.596	55.8240	ppb	0.7651	1.4	570.169
Ti 334.941	1152.36	ppb	0.7050	0.1	291677
Tl 190.794	87.9749	ppb	5.2147	5.9	29.9279
V 292.401	230.111	ppb	0.3004	0.1	6316.75
Zn 206.200	250.082	ppb	2.4935	1.0	388.036

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680-88580-a-24-d (Samp) 3/29/2013, 10:28:51 PM Rack 3, Tube 11

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-1.6164u	-0.8315u	-1.1366u
Al 308.215	74081.2	74194.5	68508.0
As 188.980	12.7118	9.1000	8.4693
B 249.678	-5.7594u	-6.4648u	-7.6117u
Ba 389.178	250.711	250.901	228.833
Be 313.042	1.0829	1.0652	0.9877
Ca 370.602	10399	10426	9665
Cd 226.502	0.3773	0.1506	-0.0535
Co 228.615	4.7820	4.7121	3.7101
Cr 267.716	77.3553	77.1891	70.6868
Cu 324.754	58.7286	59.1257	57.0303
Fe 271.441	45332.0	45386.6	41545.6
K 766.491	2943.04	2952.59	2735.08
Mg 279.078	2246.14	2239.08	2067.96
Mn 257.610	412.621	412.536	383.532
Mo 202.032	2.4066	1.2889	1.7838
Na 330.237	171.740u	337.473u	171.681u
Ni 231.604	22.0638	20.7961	20.8516
Pb 220.353	304.671	305.346	286.682
Sb 206.834	4.5305	-4.6888u	-4.4653u
Se 196.026	3.4809	9.1665	-13.6625u
Sn 189.925	68.5637	69.1740	68.3980
Sr 216.596	44.3190	44.9228	39.8604
Ti 334.941	596.159	596.236	544.144
Tl 190.794	3.1297	8.7147	-1.7393u
V 292.401	140.605	140.963	129.039
Zn 206.200	163.660	161.939	148.560

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.1949	ppb	0.3957	33.1	-140.697
Al 308.215	72261.3	ppb	3250.89	4.5	417654
As 188.980	10.0937	ppb	2.2892	22.7	5.5535
B 249.678	-6.6120	ppb	0.9349	14.1	67.5672
Ba 389.178	243.482	ppb	12.6866	5.2	5083.11
Be 313.042	1.0453	ppb	0.0506	4.8	1876.58
Ca 370.602	10163	ppb	431.7	4.2	29238
Cd 226.502	0.1581	ppb	0.2155	136.3	109.597
Co 228.615	4.4014	ppb	0.5997	13.6	79.5138
Cr 267.716	75.0771	ppb	3.8030	5.1	3150.93
Cu 324.754	58.2949	ppb	1.1130	1.9	2949.70
Fe 271.441	44088.1	ppb	2202.01	5.0	74206.3
K 766.491	2876.90	ppb	122.916	4.3	138245
Mg 279.078	2184.39	ppb	100.896	4.6	4517.67
Mn 257.610	402.896	ppb	16.7700	4.2	92964.6
Mo 202.032	1.8264	ppb	0.5600	30.7	23.4634
Na 330.237	226.965	ppb	95.7034	42.2	-11.1811
Ni 231.604	21.2372	ppb	0.7164	3.4	51.0827
Pb 220.353	298.899	ppb	10.5861	3.5	484.543
Sb 206.834	-1.5412	ppb	5.2594	341.3	1.0951
Se 196.026	-0.3384	ppb	11.8840	3512.3	-0.0508
Sn 189.925	68.7119	ppb	0.4086	0.6	51.8442
Sr 216.596	43.0341	ppb	2.7650	6.4	428.924
Ti 334.941	578.847	ppb	30.0532	5.2	146485
Tl 190.794	3.3684	ppb	5.2311	155.3	-1.3027
V 292.401	136.869	ppb	6.7833	5.0	3758.93
Zn 206.200	158.053	ppb	8.2660	5.2	245.979

E03292013.vvq. All Data Report 3/30/2013, 8:54:32 AM

680-88580-a-24-dSD^5 (Samp) 3/29/2013, 10:34:17 PM Rack 3, Tube 12

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.0784	0.1977	-0.9931u
Al 308.215	15282.7	15189.2	15105.1
As 188.980	2.4786	-0.8189u	4.5360
B 249.678	-11.6208u	-11.0841u	-10.9549u
Ba 389.178	52.7276	51.4195	50.3853
Be 313.042	0.1731	0.1718	0.1785
Ca 370.602	2194	2164	2140
Cd 226.502	0.0625	0.1017	0.1834
Co 228.615	0.5303	1.1124	-0.0173
Cr 267.716	16.1466	15.9256	15.7618
Cu 324.754	12.0807	11.7974	11.4041
Fe 271.441	9507.72	9348.14	9247.54
K 766.491	606.403	598.324	594.735
Mg 279.078	473.839	470.767	462.403
Mn 257.610	87.3564	85.9153	84.9347
Mo 202.032	-0.0964u	0.4083	0.3554
Na 330.237	428.323	20.9477u	126.115
Ni 231.604	5.5944	5.0929	4.5388
Pb 220.353	63.9476	57.8755	63.1113
Sb 206.834	-4.2921u	-8.0250u	0.4979
Se 196.026	-2.5787u	-9.9329u	4.1517
Sn 189.925	14.1577	10.7447	14.6875
Sr 216.596	9.3726	8.6124	7.9773
Ti 334.941	125.149	123.390	121.698
Tl 190.794	1.9036	2.5300	5.3900
V 292.401	29.3001	29.3320	28.5050
Zn 206.200	35.9580	34.5030	33.5171

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.2390	ppb	0.6558	274.4	-73.3984
Al 308.215	15192.3	ppb	88.8204	0.6	88018.6
As 188.980	2.0652	ppb	2.7013	130.8	0.5364
B 249.678	-11.2199	ppb	0.3531	3.1	56.7959
Ba 389.178	51.5108	ppb	1.1738	2.3	1072.63
Be 313.042	0.1745	ppb	0.0036	2.1	189.753
Ca 370.602	2166	ppb	27.07	1.2	6228
Cd 226.502	0.1159	ppb	0.0617	53.3	33.3296
Co 228.615	0.5418	ppb	0.5649	104.3	24.6797
Cr 267.716	15.9446	ppb	0.1931	1.2	671.741
Cu 324.754	11.7607	ppb	0.3398	2.9	667.261
Fe 271.441	9367.80	ppb	131.203	1.4	15769.8
K 766.491	599.821	ppb	5.9766	1.0	29007.0
Mg 279.078	469.003	ppb	5.9188	1.3	993.014
Mn 257.610	86.0688	ppb	1.2181	1.4	19932.5
Mo 202.032	0.2224	ppb	0.2773	124.7	14.8970
Na 330.237	191.795	ppb	211.481	110.3	1.9082
Ni 231.604	5.0754	ppb	0.5280	10.4	12.1755
Pb 220.353	61.6448	ppb	3.2910	5.3	102.709
Sb 206.834	-3.9397	ppb	4.2724	108.4	-1.2301
Se 196.026	-2.7866	ppb	7.0446	252.8	-1.0309
Sn 189.925	13.1966	ppb	2.1399	16.2	10.2873
Sr 216.596	8.6541	ppb	0.6986	8.1	95.2119
Ti 334.941	123.412	ppb	1.7255	1.4	31182.7
Tl 190.794	3.2745	ppb	1.8586	56.8	0.0688
V 292.401	29.0457	ppb	0.4686	1.6	802.068
Zn 206.200	34.6594	ppb	1.2279	3.5	55.3507

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Cont Calib Verif (CCV) 3/29/2013, 10:39:43 PM Rack 3, Tube 13  
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	495.128	499.339	502.241
Al 308.215	5108.01	5101.37	5107.61
As 188.980	525.989	538.698	537.749
B 249.678	582.912	590.818	591.645
Ba 389.178	4613.94	4613.30	4627.62
Be 313.042	491.223	491.432	490.534
Ca 370.602	4834	4832	4824
Cd 226.502	483.772	483.583	482.725
Co 228.615	481.071	482.293	479.885
Cr 267.716	4824.36	4819.38	4813.76
Cu 324.754	4663.21	4683.88	4632.60
Fe 271.441	5163.82	5158.93	5172.90
K 766.491	9911.61	9925.04	9945.09
Mg 279.078	5149.57	5138.66	5135.11
Mn 257.610	4793.32	4794.19	4786.44
Mo 202.032	491.812	491.829	490.215
Na 330.237	7498.64	7636.36	7886.66
Ni 231.604	2412.17	2413.23	2410.34
Pb 220.353	497.973	499.398	501.217
Sb 206.834	1012.93	1002.06	999.839
Se 196.026	5141.55	5148.36	5162.16
Sn 189.925	5065.36	5117.51	5048.49
Sr 216.596	2491.26	2489.63	2483.52
Ti 334.941	495.641	495.840	496.224
Tl 190.794	5003.09	5039.73	5032.67
V 292.401	5007.99	5007.31	5011.36
Zn 206.200	2455.05	2457.04	2453.73

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	498.903	ppb	3.5766	0.7	35386.2	99.78057
Al 308.215	5105.66	ppb	3.7238	0.1	29732.5	102.11319
As 188.980	534.146	ppb	7.0795	1.3	353.195	106.82912
B 249.678	588.458	ppb	4.8212	0.8	5678.23	23.53833Q
Ba 389.178	4618.28	ppb	8.0868	0.2	95923.4	92.36569
Be 313.042	491.063	ppb	0.4701	0.1	948886	98.21257
Ca 370.602	4830	ppb	5.240	0.1	15405	96.59446
Cd 226.502	483.360	ppb	0.5579	0.1	17313.0	96.67198
Co 228.615	481.083	ppb	1.2040	0.3	5519.70	96.21659
Cr 267.716	4819.16	ppb	5.3029	0.1	201319	96.38329
Cu 324.754	4659.90	ppb	25.8018	0.6	227715	93.19796
Fe 271.441	5165.21	ppb	7.0870	0.1	8817.00	103.30429
K 766.491	9927.25	ppb	16.8478	0.2	476471	99.27247
Mg 279.078	5141.12	ppb	7.5354	0.1	10563.8	102.82233
Mn 257.610	4791.32	ppb	4.2491	0.1	1103003	95.82634
Mo 202.032	491.286	ppb	0.9270	0.2	3155.03	98.25713
Na 330.237	7673.89	ppb	196.713	2.6	367.250	102.31850
Ni 231.604	2411.91	ppb	1.4617	0.1	5706.78	96.47643
Pb 220.353	499.529	ppb	1.6262	0.3	809.826	99.90587
Sb 206.834	1004.94	ppb	7.0039	0.7	650.039	100.49417
Se 196.026	5150.69	ppb	10.4993	0.2	1673.34	103.01376
Sn 189.925	5077.12	ppb	35.9782	0.7	3800.76	101.54241
Sr 216.596	2488.14	ppb	4.0796	0.2	23189.2	99.52552
Ti 334.941	495.902	ppb	0.2964	0.1	125493	99.18040
Tl 190.794	5025.17	ppb	19.4397	0.4	3282.05	100.50333
V 292.401	5008.89	ppb	2.1673	0.0	136847	100.17773
Zn 206.200	2455.27	ppb	1.6703	0.1	3783.96	98.21088

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Cont Calib Blank (CCB)                      3/29/2013, 10:45:10 PM                      Rack 3, Tube 14  
 Weight: 1    Volume: 1    Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.8185	-1.5471u	-0.7441u
Al 308.215	2.3269	2.7642	0.1665
As 188.980	0.2032	6.8447	2.9628
B 249.678	1.6516	1.4617	-1.1100u
Ba 389.178	0.4342	-0.7116u	-0.7572u
Be 313.042	-0.0565u	-0.0541u	-0.0504u
Ca 370.602	-3.788u	2.063	3.623
Cd 226.502	0.0660	0.1011	0.1936
Co 228.615	-0.2276u	-0.9406u	0.3044
Cr 267.716	-0.0910u	-0.0023u	-0.0316u
Cu 324.754	-0.7091u	-0.7405u	-0.5926u
Fe 271.441	3.2356	-8.3127u	-0.9839u
K 766.491	-0.3601u	-0.4925u	-0.3242u
Mg 279.078	0.6974	0.8977	-3.3678u
Mn 257.610	-0.2365u	-0.2013u	-0.1816u
Mo 202.032	-0.3019u	0.6485	0.1246
Na 330.237	88.7209	166.536	-88.6942u
Ni 231.604	-0.0266u	0.7802	-0.8680u
Pb 220.353	0.7450	0.8051	-1.6479u
Sb 206.834	-3.3893u	6.6634	1.0840
Se 196.026	6.8778	10.5880	8.8125
Sn 189.925	-0.1049u	-1.3542u	-2.8058u
Sr 216.596	-1.3770u	-0.2629u	-0.0394u
Ti 334.941	0.0606	0.0532	0.1180
Tl 190.794	5.6733	12.3020	4.1712
V 292.401	-0.6789u	-0.1839u	-0.0476u
Zn 206.200	-0.3362u	1.4961	-1.3297u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	-0.4909	ppb	1.2030	245.1	-91.4864	-0.49091
Al 308.215	1.7525	ppb	1.3908	79.4	276.569	1.75255
As 188.980	3.3369	ppb	3.3365	100.0	1.4615	3.33687
B 249.678	0.6678	ppb	1.5425	231.0	176.895	0.66775
Ba 389.178	-0.3449	ppb	0.6751	195.8	-10.6810	-0.34486
Be 313.042	-0.0537	ppb	0.0031	5.7	-252.214	-0.05368
Ca 370.602	0.6329	ppb	3.907	617.3	-4.813	0.63292
Cd 226.502	0.1202	ppb	0.0659	54.8	13.3185	0.12023
Co 228.615	-0.2879	ppb	0.6247	217.0	12.2830	-0.28794
Cr 267.716	-0.0416	ppb	0.0452	108.5	1.5013	-0.04165
Cu 324.754	-0.6807	ppb	0.0779	11.4	57.0124	-0.68072
Fe 271.441	-2.0203	ppb	5.8435	289.2	-0.1575	-2.02033
K 766.491	-0.3923	ppb	0.0886	22.6	213.033	-0.39225
Mg 279.078	-0.5909	ppb	2.4069	407.3	28.0178	-0.59092
Mn 257.610	-0.2065	ppb	0.0278	13.5	45.4029	-0.20647
Mo 202.032	0.1570	ppb	0.4760	303.1	14.9413	0.15704
Na 330.237	55.5211	ppb	130.814	235.6	-1.0737	55.52107
Ni 231.604	-0.0381	ppb	0.8241	2160.3	-0.1033	-0.03815
Pb 220.353	-0.0326	ppb	1.3992	4288.5	3.4536	-0.03263
Sb 206.834	1.4527	ppb	5.0365	346.7	1.8733	1.45269
Se 196.026	8.7595	ppb	1.8557	21.2	2.6687	8.75947
Sn 189.925	-1.4216	ppb	1.3517	95.1	-0.6555	-1.42164
Sr 216.596	-0.5598	ppb	0.7165	128.0	5.7540	-0.55977
Ti 334.941	0.0772	ppb	0.0354	45.9	-42.0162	0.07725
Tl 190.794	7.3822	ppb	4.3264	58.6	3.1427	7.38219
V 292.401	-0.3035	ppb	0.3322	109.5	-2.8375	-0.30348
Zn 206.200	-0.0566	ppb	1.4335	2532.4	5.757166	-0.05661

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**680-88580-a-24-dPDS (Samp) 3/29/2013, 10:50:36 PM Rack 3, Tube 15****Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	50.6017	49.7906	50.0322
Al 308.215	74333.1	74658.6	74962.6
As 188.980	2224.67	2247.16	2263.19
B 249.678	1120.21	1133.25	1142.94
Ba 389.178	2263.08	2276.17	2290.99
Be 313.042	54.6483	54.8481	55.0542
Ca 370.602	15160	15211	15270
Cd 226.502	53.0493	53.2479	53.2540
Co 228.615	531.525	533.727	539.650
Cr 267.716	285.032	285.148	285.951
Cu 324.754	317.529	315.352	319.578
Fe 271.441	45089.7	45294.6	45488.9
K 766.491	8313.50	8346.30	8413.92
Mg 279.078	7544.73	7585.71	7610.87
Mn 257.610	935.087	938.226	942.185
Mo 202.032	522.477	526.483	529.917
Na 330.237	5372.46	5340.18	5356.98
Ni 231.604	531.065	537.424	532.880
Pb 220.353	814.507	823.103	819.080
Sb 206.834	501.632	493.282	510.829
Se 196.026	2158.70	2189.69	2151.04
Sn 189.925	1141.35	1133.52	1141.31
Sr 216.596	578.245	577.370	578.980
Ti 334.941	1603.40	1608.74	1614.14
Tl 190.794	2088.32	2097.09	2124.56
V 292.401	655.505	658.474	662.140
Zn 206.200	693.357	687.113	690.915

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	50.1415	ppb	0.4165	0.8	3494.79
Al 308.215	74651.4	ppb	314.807	0.4	431520
As 188.980	2245.01	ppb	19.3513	0.9	1487.01
B 249.678	1132.13	ppb	11.4073	1.0	10733.8
Ba 389.178	2276.75	ppb	13.9643	0.6	47315.2
Be 313.042	54.8502	ppb	0.2030	0.4	105787
Ca 370.602	15214	ppb	54.70	0.4	45624
Cd 226.502	53.1837	ppb	0.1164	0.2	2009.38
Co 228.615	534.967	ppb	4.2024	0.8	6149.91
Cr 267.716	285.377	ppb	0.5005	0.2	11936.5
Cu 324.754	317.487	ppb	2.1132	0.7	15621.7
Fe 271.441	45291.1	ppb	199.580	0.4	76318.3
K 766.491	8357.90	ppb	51.2068	0.6	401185
Mg 279.078	7580.44	ppb	33.3861	0.4	15645.4
Mn 257.610	938.499	ppb	3.5567	0.4	216285
Mo 202.032	526.292	ppb	3.7233	0.7	3384.93
Na 330.237	5356.54	ppb	16.1435	0.3	240.391
Ni 231.604	533.790	ppb	3.2755	0.6	1263.83
Pb 220.353	818.896	ppb	4.3008	0.5	1322.72
Sb 206.834	501.915	ppb	8.7769	1.7	309.569
Se 196.026	2166.48	ppb	20.4655	0.9	703.728
Sn 189.925	1138.73	ppb	4.5089	0.4	852.778
Sr 216.596	578.198	ppb	0.8059	0.1	5401.64
Ti 334.941	1608.76	ppb	5.3679	0.3	407221
Tl 190.794	2103.32	ppb	18.9084	0.9	1371.88
V 292.401	658.706	ppb	3.3238	0.5	17957.0
Zn 206.200	690.462	ppb	3.1463	0.5	1068.62



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**680-88580-a-24-e ms (Samp) 3/29/2013, 10:56:02 PM Rack 3, Tube 16****Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	10.4962	10.5788	10.5920
Al 308.215	87602.0	87503.4	87185.3
As 188.980	123.463	113.830	114.776
B 249.678	197.400	195.399	193.800
Ba 389.178	399.993	402.544	397.961
Be 313.042	57.1583	57.2036	57.0051
Ca 370.602	18438	18456	18394
Cd 226.502	56.0758	55.8095	55.9197
Co 228.615	60.7970	60.1645	59.2250
Cr 267.716	187.425	187.698	186.078
Cu 324.754	175.731	174.537	177.064
Fe 271.441	53073.6	52500.3	52305.5
K 766.491	8209.14	8221.75	8211.41
Mg 279.078	8260.32	8246.81	8200.15
Mn 257.610	988.344	986.611	983.576
Mo 202.032	99.3893	99.5343	98.0547
Na 330.237	5268.11	5415.12	5441.50
Ni 231.604	126.840	126.025	127.278
Pb 220.353	876.973	879.040	873.181
Sb 206.834	31.9992	39.6089	41.0981
Se 196.026	100.393	97.8955	105.725
Sn 189.925	291.291	292.254	296.645
Sr 216.596	160.149	160.511	159.633
Ti 334.941	550.661	551.266	549.474
Tl 190.794	55.3120	50.0956	51.6049
V 292.401	244.247	243.962	242.653
Zn 206.200	351.477	350.261	349.071

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	10.5557	ppb	0.0519	0.5	693.601
Al 308.215	87430.3	ppb	217.783	0.2	505282
As 188.980	117.356	ppb	5.3094	4.5	76.6157
B 249.678	195.533	ppb	1.8038	0.9	1953.23
Ba 389.178	400.166	ppb	2.2965	0.6	8346.05
Be 313.042	57.1223	ppb	0.1040	0.2	110266
Ca 370.602	18430	ppb	31.77	0.2	55185
Cd 226.502	55.9350	ppb	0.1339	0.2	2123.51
Co 228.615	60.0622	ppb	0.7910	1.3	711.361
Cr 267.716	187.067	ppb	0.8675	0.5	7832.56
Cu 324.754	175.777	ppb	1.2640	0.7	8693.30
Fe 271.441	52626.5	ppb	399.321	0.8	88586.2
K 766.491	8214.10	ppb	6.7213	0.1	394287
Mg 279.078	8235.76	ppb	31.5699	0.4	16994.6
Mn 257.610	986.177	ppb	2.4133	0.2	227283
Mo 202.032	98.9928	ppb	0.8156	0.8	645.849
Na 330.237	5374.91	ppb	93.4251	1.7	249.999
Ni 231.604	126.714	ppb	0.6364	0.5	300.811
Pb 220.353	876.398	ppb	2.9712	0.3	1416.60
Sb 206.834	37.5687	ppb	4.8805	13.0	25.5540
Se 196.026	101.338	ppb	3.9992	3.9	33.0969
Sn 189.925	293.397	ppb	2.8541	1.0	220.031
Sr 216.596	160.097	ppb	0.4416	0.3	1520.90
Ti 334.941	550.467	ppb	0.9112	0.2	139327
Tl 190.794	52.3375	ppb	2.6843	5.1	29.9067
V 292.401	243.621	ppb	0.8503	0.3	6657.35
Zn 206.200	350.269	ppb	1.2932	0.3	542.871

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**680-88580-a-24-f msd (Samp) 3/29/2013, 11:01:29 PM Rack 3, Tube 17****Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	11.2531	11.4485	11.4113
Al 308.215	103477	103140	103250
As 188.980	115.329	116.432	111.872
B 249.678	170.053	171.169	168.953
Ba 389.178	396.898	394.841	395.292
Be 313.042	57.5730	57.5899	57.5740
Ca 370.602	14697	14684	14691
Cd 226.502	54.7435	55.2620	54.8300
Co 228.615	62.1642	61.4797	60.8687
Cr 267.716	193.017	192.218	192.220
Cu 324.754	181.519	183.834	184.487
Fe 271.441	55886.6	55893.4	55904.5
K 766.491	8275.50	8273.79	8296.54
Mg 279.078	8527.58	8500.96	8512.60
Mn 257.610	886.610	885.514	885.375
Mo 202.032	100.545	101.889	99.4867
Na 330.237	5301.25	5567.08	5739.11
Ni 231.604	126.656	127.626	127.892
Pb 220.353	396.352	401.224	395.310
Sb 206.834	36.1158	41.1006	21.9749
Se 196.026	94.1630	102.290	105.912
Sn 189.925	246.703	243.240	243.739
Sr 216.596	157.260	157.725	157.358
Ti 334.941	608.916	610.135	609.328
Tl 190.794	48.2097	41.3491	54.5652
V 292.401	273.180	273.412	273.154
Zn 206.200	248.609	243.978	244.525

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	11.3709	ppb	0.1037	0.9	751.526
Al 308.215	103289	ppb	171.787	0.2	596885
As 188.980	114.544	ppb	2.3791	2.1	74.6819
B 249.678	170.058	ppb	1.1081	0.7	1711.57
Ba 389.178	395.677	ppb	1.0814	0.3	8255.15
Be 313.042	57.5789	ppb	0.0095	0.0	111147
Ca 370.602	14691	ppb	6.335	0.0	42879
Cd 226.502	54.9452	ppb	0.2778	0.5	2095.06
Co 228.615	61.5042	ppb	0.6481	1.1	729.292
Cr 267.716	192.485	ppb	0.4604	0.2	8059.21
Cu 324.754	183.280	ppb	1.5596	0.9	9060.54
Fe 271.441	55894.8	ppb	9.0183	0.0	94087.4
K 766.491	8281.94	ppb	12.6737	0.2	397541
Mg 279.078	8513.71	ppb	13.3427	0.2	17565.7
Mn 257.610	885.833	ppb	0.6765	0.1	204196
Mo 202.032	100.640	ppb	1.2038	1.2	656.218
Na 330.237	5535.81	ppb	220.597	4.0	257.625
Ni 231.604	127.391	ppb	0.6505	0.5	302.479
Pb 220.353	397.629	ppb	3.1571	0.8	643.319
Sb 206.834	33.0637	ppb	9.9214	30.0	22.8327
Se 196.026	100.788	ppb	6.0167	6.0	32.9146
Sn 189.925	244.561	ppb	1.8717	0.8	183.474
Sr 216.596	157.448	ppb	0.2452	0.2	1496.88
Ti 334.941	609.460	ppb	0.6197	0.1	154263
Tl 190.794	48.0413	ppb	6.6097	13.8	27.0945
V 292.401	273.249	ppb	0.1417	0.1	7469.23
Zn 206.200	245.704	ppb	2.5395	1.0	381.161

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680-88580-a-25-b (Samp) 3/29/2013, 11:06:55 PM Rack 3, Tube 18

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.0699u	-0.2868u	-1.0319u
Al 308.215	84356.7	84386.6	84068.8
As 188.980	45.3275	44.8871	47.2061
B 249.678	-10.6325u	-9.9301u	-10.7772u
Ba 389.178	61.3804	59.2688	59.5103
Be 313.042	4.2589	4.2577	4.2506
Ca 370.602	6607	6626	6609
Cd 226.502	-1.8043	-1.9813	-2.2985
Co 228.615	6.4321	6.1410	5.7980
Cr 267.716	683.836	683.105	681.076
Cu 324.754	59.8186	61.7097	60.2882
Fe 271.441	238011	237567	237183
K 766.491	1565.62	1565.97	1566.67
Mg 279.078	1210.66	1213.76	1213.19
Mn 257.610	240.120	239.793	239.104
Mo 202.032	3.8993	3.3653	3.3998
Na 330.237	337.870u	551.134u	385.838u
Ni 231.604	18.9185	18.8735	21.4164
Pb 220.353	42.7279	43.2876	43.1652
Sb 206.834	13.2846	10.9023	9.8907
Se 196.026	-15.3325u	-17.9896u	-5.1947u
Sn 189.925	15.7915	16.3149	17.1755
Sr 216.596	35.0608	33.9712	34.4912
Ti 334.941	1187.70	1188.53	1185.54
Tl 190.794	10.8687u	5.1877u	8.2972u
V 292.401	480.485	480.908	478.687
Zn 206.200	72.9694	71.4338	70.8655

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.4629	ppb	0.5046	109.0	-87.6583
Al 308.215	84270.7	ppb	175.481	0.2	487016
As 188.980	45.8069	ppb	1.2316	2.7	27.0904
B 249.678	-10.4466	ppb	0.4531	4.3	-148.814
Ba 389.178	60.0532	ppb	1.1557	1.9	1400.79
Be 313.042	4.2557	ppb	0.0045	0.1	8066.77
Ca 370.602	6614	ppb	10.28	0.2	2002
Cd 226.502	-2.0280	ppb	0.2504	12.3	447.617
Co 228.615	6.1237	ppb	0.3174	5.2	110.360
Cr 267.716	682.672	ppb	1.4302	0.2	28573.3
Cu 324.754	60.6055	ppb	0.9846	1.6	3115.16
Fe 271.441	237587	ppb	414.206	0.2	399872
K 766.491	1566.09	ppb	0.5325	0.0	75361.7
Mg 279.078	1212.54	ppb	1.6478	0.1	2545.14
Mn 257.610	239.672	ppb	0.5189	0.2	55914.8
Mo 202.032	3.5548	ppb	0.2988	8.4	25.4132
Na 330.237	424.947	ppb	111.882	26.3	-63.0261
Ni 231.604	19.7362	ppb	1.4553	7.4	51.1459
Pb 220.353	43.0602	ppb	0.2942	0.7	70.9370
Sb 206.834	11.3592	ppb	1.7425	15.3	15.4417
Se 196.026	-12.8390	ppb	6.7521	52.6	-3.3933
Sn 189.925	16.4273	ppb	0.6988	4.3	12.7028
Sr 216.596	34.5077	ppb	0.5450	1.6	417.582
Ti 334.941	1187.26	ppb	1.5440	0.1	300516
Tl 190.794	8.1179	ppb	2.8447	35.0	-4.4159
V 292.401	480.027	ppb	1.1792	0.2	13132.3
Zn 206.200	71.7563	ppb	1.0884	1.5	119.705

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680-88580-a-26-b (Samp) 3/29/2013, 11:12:21 PM Rack 3, Tube 19

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.1121	0.1646	-0.3860u
Al 308.215	116149	116649	115698
As 188.980	22.6867	17.8668	14.5072
B 249.678	-17.0482u	-17.6513u	-15.8599u
Ba 389.178	88.4121	88.8240	87.7614
Be 313.042	3.3122	3.3207	3.2889
Ca 370.602	4663u	4649u	4675u
Cd 226.502	-2.0026	-1.9088	-1.8800
Co 228.615	15.2114	15.7770	16.8946
Cr 267.716	122.252	123.417	122.582
Cu 324.754	86.6775	86.6010	87.3223
Fe 271.441	236995	238050	236363
K 766.491	2075.12	2087.36	2076.88
Mg 279.078	1489.71	1494.33	1480.54
Mn 257.610	608.800	611.776	606.946
Mo 202.032	5.0992	3.0461	4.1975
Na 330.237	127.126u	379.943u	265.515u
Ni 231.604	29.2300	26.7191	27.8686
Pb 220.353	62.4781	61.1914	54.8283
Sb 206.834	-2.5787	-3.6947	3.3264
Se 196.026	-6.8800u	-8.6636u	-13.5619u
Sn 189.925	19.1444	18.4158	14.8726
Sr 216.596	24.3678	25.1317	25.0299
Ti 334.941	2195.29	2210.20	2195.37
Tl 190.794	2.8923u	15.6412	9.1461u
V 292.401	400.983	403.166	400.588
Zn 206.200	88.1111	88.7474	84.6924

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0364	ppb	0.3039	834.4	-55.5684
Al 308.215	116165	ppb	475.534	0.4	671243
As 188.980	18.3535	ppb	4.1114	22.4	8.8771
B 249.678	-16.8531	ppb	0.9115	5.4	-208.443
Ba 389.178	88.3325	ppb	0.5357	0.6	1987.78
Be 313.042	3.3073	ppb	0.0164	0.5	6238.36
Ca 370.602	4662	ppb	12.89	0.3	-4053
Cd 226.502	-1.9305	ppb	0.0641	3.3	450.226
Co 228.615	15.9610	ppb	0.8565	5.4	247.233
Cr 267.716	122.751	ppb	0.6002	0.5	5184.00
Cu 324.754	86.8669	ppb	0.3962	0.5	4398.81
Fe 271.441	237136	ppb	852.327	0.4	399113
K 766.491	2079.79	ppb	6.6198	0.3	100005
Mg 279.078	1488.19	ppb	7.0217	0.5	3098.78
Mn 257.610	609.174	ppb	2.4368	0.4	140967
Mo 202.032	4.1143	ppb	1.0291	25.0	29.1461
Na 330.237	257.528	ppb	126.598	49.2	-79.5790
Ni 231.604	27.9392	ppb	1.2569	4.5	70.5575
Pb 220.353	59.4993	ppb	4.0960	6.9	96.4439
Sb 206.834	-0.9823	ppb	3.7730	384.1	4.4318
Se 196.026	-9.7018	ppb	3.4598	35.7	-2.3159
Sn 189.925	17.4776	ppb	2.2852	13.1	13.4880
Sr 216.596	24.8431	ppb	0.4148	1.7	326.882
Ti 334.941	2200.29	ppb	8.5885	0.4	556958
Tl 190.794	9.2265	ppb	6.3748	69.1	-4.0532
V 292.401	401.579	ppb	1.3889	0.3	11033.0
Zn 206.200	87.1836	ppb	2.1898	2.5	126.245

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680-88580-a-27-b (Samp) 3/29/2013, 11:17:47 PM Rack 3, Tube 20

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.1517	0.0908u	0.2414
Al 308.215	70039.4	69886.4	70005.8
As 188.980	34.8734	36.2503	30.0109
B 249.678	16.0198	15.0656	15.9527
Ba 389.178	748.214	747.112	749.197
Be 313.042	3.5702	3.5735	3.5765
Ca 370.602	153089	152087	153561
Cd 226.502	9.9041	9.8877	9.7393
Co 228.615	22.4177	22.5616	22.2047
Cr 267.716	104.683	104.402	104.616
Cu 324.754	159.286	158.979	162.110
Fe 271.441	80517.1	80449.7	80438.0
K 766.491	5313.64	5323.30	5339.17
Mg 279.078	10437.6	10398.8	10445.4
Mn 257.610	2133.32	2130.20	2134.62
Mo 202.032	5.2599	5.5940	4.6648
Na 330.237	582.858u	673.911u	682.663u
Ni 231.604	37.9637	39.4643	37.4184
Pb 220.353	1209.49	1198.90	1200.85
Sb 206.834	14.9041	6.9281	3.9966
Se 196.026	31.0701	-3.5444u	19.6948
Sn 189.925	69.2399	72.2508	70.5486
Sr 216.596	442.817	438.850	440.276
Ti 334.941	1424.44	1421.10	1423.44
Tl 190.794	11.6445	4.3546u	15.6396
V 292.401	136.353	135.704	135.411
Zn 206.200	1454.13	1448.75	1448.26

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1613	ppb	0.0757	47.0	-53.9674
Al 308.215	69977.2	ppb	80.3976	0.1	404461
As 188.980	33.7115	ppb	3.2779	9.7	22.1219
B 249.678	15.6794	ppb	0.5326	3.4	242.503
Ba 389.178	748.174	ppb	1.0434	0.1	15591.8
Be 313.042	3.5734	ppb	0.0032	0.1	6812.55
Ca 370.602	152913	ppb	752.5	0.5	486449
Cd 226.502	9.8437	ppb	0.0908	0.9	534.382
Co 228.615	22.3947	ppb	0.1796	0.8	305.795
Cr 267.716	104.567	ppb	0.1472	0.1	4398.29
Cu 324.754	160.125	ppb	1.7260	1.1	7935.17
Fe 271.441	80468.3	ppb	42.6647	0.1	135438
K 766.491	5325.37	ppb	12.8906	0.2	255706
Mg 279.078	10427.2	ppb	24.9359	0.2	21509.5
Mn 257.610	2132.72	ppb	2.2737	0.1	491283
Mo 202.032	5.1729	ppb	0.4707	9.1	43.3113
Na 330.237	646.477	ppb	55.2696	8.5	-16.7863
Ni 231.604	38.2822	ppb	1.0594	2.8	92.0902
Pb 220.353	1203.08	ppb	5.6348	0.5	1944.22
Sb 206.834	8.6096	ppb	5.6448	65.6	8.0477
Se 196.026	15.7401	ppb	17.6428	112.1	5.5918
Sn 189.925	70.6798	ppb	1.5097	2.1	53.3710
Sr 216.596	440.648	ppb	2.0093	0.5	4165.92
Ti 334.941	1422.99	ppb	1.7148	0.1	360210
Tl 190.794	10.5462	ppb	5.7221	54.3	0.5179
V 292.401	135.822	ppb	0.4819	0.4	3741.45
Zn 206.200	1450.38	ppb	3.2571	0.2	2244.24

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680-88580-a-28-b (Samp) 3/29/2013, 11:23:14 PM Rack 3, Tube 21

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.1988u	0.1150	-0.1380u
Al 308.215	82798.9	82916.0	82298.9
As 188.980	12.1375	10.6355	16.3318
B 249.678	-12.8579u	-13.4493u	-13.5203u
Ba 389.178	60.0462	60.5672	59.8457
Be 313.042	2.2613	2.2601	2.2515
Ca 370.602	6576	6569	6553
Cd 226.502	-1.0687	-1.1273	-0.6656
Co 228.615	4.4292	4.5670	4.4571
Cr 267.716	156.693	156.702	155.909
Cu 324.754	36.5073	36.1504	37.6590
Fe 271.441	132309	132585	131741
K 766.491	1603.38	1610.98	1602.28
Mg 279.078	1445.03	1444.05	1430.12
Mn 257.610	150.879	151.215	150.023
Mo 202.032	4.4076	3.8633	3.7786
Na 330.237	109.661u	485.721u	487.617u
Ni 231.604	22.4223	21.7800	22.9275
Pb 220.353	44.4341	46.2829	42.6830
Sb 206.834	4.5386	14.1899	-10.9810u
Se 196.026	-0.2881	-2.0850u	-14.5447u
Sn 189.925	16.1820	10.6025	10.5181
Sr 216.596	36.0662	35.5923	34.9041
Ti 334.941	984.258	984.844	979.608
Tl 190.794	1.8373u	6.5246u	7.5966
V 292.401	246.479	248.001	247.170
Zn 206.200	57.1850	56.7802	57.0912

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0739	ppb	0.1664	225.2	-61.3361
Al 308.215	82671.3	ppb	327.747	0.4	477782
As 188.980	13.0350	ppb	2.9523	22.6	6.5115
B 249.678	-13.2758	ppb	0.3637	2.7	-77.0124
Ba 389.178	60.1530	ppb	0.3724	0.6	1333.46
Be 313.042	2.2576	ppb	0.0053	0.2	4214.28
Ca 370.602	6566	ppb	11.78	0.2	10474
Cd 226.502	-0.9538	ppb	0.2513	26.3	259.297
Co 228.615	4.4844	ppb	0.0729	1.6	88.2700
Cr 267.716	156.435	ppb	0.4555	0.3	6566.99
Cu 324.754	36.7722	ppb	0.7884	2.1	1922.62
Fe 271.441	132212	ppb	429.994	0.3	222521
K 766.491	1605.55	ppb	4.7385	0.3	77254.7
Mg 279.078	1439.73	ppb	8.3354	0.6	2997.26
Mn 257.610	150.705	ppb	0.6148	0.4	35150.7
Mo 202.032	4.0165	ppb	0.3413	8.5	33.4230
Na 330.237	361.000	ppb	217.667	60.3	-33.0752
Ni 231.604	22.3766	ppb	0.5751	2.6	55.4257
Pb 220.353	44.4666	ppb	1.8002	4.0	73.3229
Sb 206.834	2.5825	ppb	12.6989	491.7	5.3595
Se 196.026	-5.6393	ppb	7.7645	137.7	-1.4747
Sn 189.925	12.4342	ppb	3.2459	26.1	9.7159
Sr 216.596	35.5209	ppb	0.5844	1.6	389.604
Ti 334.941	982.903	ppb	2.8684	0.3	248775
Tl 190.794	5.3195	ppb	3.0629	57.6	-2.7024
V 292.401	247.217	ppb	0.7618	0.3	6783.05
Zn 206.200	57.0188	ppb	0.2119	0.4	89.4998

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Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.0068	1.0205	-0.6133u
Al 308.215	136988	136708	136940
As 188.980	26.7177	26.6867	16.4235
B 249.678	-54.4686u	-54.9292u	-53.4795u
Ba 389.178	259.956	260.516	260.851
Be 313.042	4.4603	4.4412	4.4647
Ca 370.602	8558u	8643u	8673u
Cd 226.502	-4.0007	-4.0252	-4.0750
Co 228.615	4.3220	4.5212	4.7969
Cr 267.716	521.126	518.652	519.097
Cu 324.754	192.542	192.562	192.904
Fe 271.441	590724	590102	590181
K 766.491	3782.59	3787.96	3793.75
Mg 279.078	2385.84	2376.92	2383.37
Mn 257.610	253.742	253.105	253.434
Mo 202.032	15.8937	14.4500	14.7769
Na 330.237	942.665u	796.786u	519.134u
Ni 231.604	15.3105	15.5337	14.7721
Pb 220.353	110.481	112.719	112.732
Sb 206.834	-10.1419	-10.3394	-3.2766
Se 196.026	-53.6693u	-33.9945u	-21.9183u
Sn 189.925	24.9990	30.9570	24.5550
Sr 216.596	48.5004	49.2547	48.1476
Ti 334.941	2212.67	2202.76	2207.90
Tl 190.794	15.7475u	10.5216u	11.6352u
V 292.401	993.545	991.166	994.308
Zn 206.200	97.0603	93.1484	95.7831

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1380	ppb	0.8248	597.6	-43.5770
Al 308.215	136879	ppb	149.923	0.1	790877
As 188.980	23.2760	ppb	5.9344	25.5	8.3230
B 249.678	-54.2925	ppb	0.7407	1.4	-888.859
Ba 389.178	260.441	ppb	0.4520	0.2	5795.22
Be 313.042	4.4554	ppb	0.0125	0.3	8431.42
Ca 370.602	8625	ppb	59.47	0.7	-20359
Cd 226.502	-4.0337	ppb	0.0378	0.9	1135.49
Co 228.615	4.5467	ppb	0.2385	5.2	105.949
Cr 267.716	519.625	ppb	1.3187	0.3	21831.6
Cu 324.754	192.669	ppb	0.2037	0.1	9664.38
Fe 271.441	590336	ppb	338.919	0.1	993557
K 766.491	3788.10	ppb	5.5809	0.1	181958
Mg 279.078	2382.05	ppb	4.6074	0.2	5005.55
Mn 257.610	253.427	ppb	0.3186	0.1	60049.0
Mo 202.032	15.0402	ppb	0.7570	5.0	82.5687
Na 330.237	752.861	ppb	215.155	28.6	-160.023
Ni 231.604	15.2054	ppb	0.3915	2.6	47.0321
Pb 220.353	111.978	ppb	1.2959	1.2	180.714
Sb 206.834	-7.9193	ppb	4.0219	50.8	7.4230
Se 196.026	-36.5274	ppb	16.0263	43.9	-9.7269
Sn 189.925	26.8370	ppb	3.5749	13.3	20.4882
Sr 216.596	48.6342	ppb	0.5655	1.2	674.541
Ti 334.941	2207.78	ppb	4.9563	0.2	558895
Tl 190.794	12.6348	ppb	2.7526	21.8	-13.1530
V 292.401	993.006	ppb	1.6389	0.2	27209.5
Zn 206.200	95.3306	ppb	1.9948	2.1	147.645

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680-88580-a-42-b (Samp) 3/29/2013, 11:34:06 PM Rack 3, Tube 23

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.0657u	-0.5341u	-0.2329u
Al 308.215	20147.5	20125.2	20176.7
As 188.980	350.595	351.656	356.203
B 249.678	6.8209u	4.9016u	7.8077u
Ba 389.178	631.949	633.732	636.261
Be 313.042	3.0280	3.0193	3.0246
Ca 370.602	21618	21725	21799
Cd 226.502	2.5333	2.4444	2.5003
Co 228.615	28.3054	30.2341	29.1499
Cr 267.716	118.211	118.784	118.361
Cu 324.754	451.759	448.724	450.554
Fe 271.441	146772	146354	147177
K 766.491	3147.33	3143.01	3158.69
Mg 279.078	3512.80	3501.52	3499.28
Mn 257.610	1434.37	1431.58	1436.33
Mo 202.032	11.2189	10.5917	10.9632
Na 330.237	237.249u	445.729u	445.776u
Ni 231.604	67.8472	62.9130	65.1632
Pb 220.353	863.207	865.397	867.605
Sb 206.834	22.8031	19.5256	23.3105
Se 196.026	-3.5174u	-2.1719	-4.5839u
Sn 189.925	190.083	193.162	196.403
Sr 216.596	315.883	314.407	314.225
Ti 334.941	1148.94	1146.97	1149.34
Tl 190.794	2.1917u	1.6215u	12.8660
V 292.401	92.0648	91.7292	92.1067
Zn 206.200	687.160	691.623	688.416

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.2776	ppb	0.2374	85.5	-83.2798
Al 308.215	20149.8	ppb	25.8226	0.1	116654
As 188.980	352.818	ppb	2.9790	0.8	231.741
B 249.678	6.5100	ppb	1.4777	22.7	94.8400
Ba 389.178	633.981	ppb	2.1670	0.3	13260.4
Be 313.042	3.0240	ppb	0.0044	0.1	5698.44
Ca 370.602	21714	ppb	90.74	0.4	58161
Cd 226.502	2.4927	ppb	0.0450	1.8	413.771
Co 228.615	29.2298	ppb	0.9668	3.3	374.270
Cr 267.716	118.452	ppb	0.2973	0.3	4988.89
Cu 324.754	450.346	ppb	1.5281	0.3	22133.6
Fe 271.441	146768	ppb	411.643	0.3	247021
K 766.491	3149.68	ppb	8.0994	0.3	151331
Mg 279.078	3504.54	ppb	7.2451	0.2	7259.52
Mn 257.610	1434.09	ppb	2.3866	0.2	330612
Mo 202.032	10.9246	ppb	0.3154	2.9	77.3298
Na 330.237	376.251	ppb	120.379	32.0	-42.6527
Ni 231.604	65.3078	ppb	2.4703	3.8	157.252
Pb 220.353	865.403	ppb	2.1990	0.3	1399.95
Sb 206.834	21.8798	ppb	2.0545	9.4	17.2281
Se 196.026	-3.4244	ppb	1.2087	35.3	-0.4911
Sn 189.925	193.216	ppb	3.1602	1.6	145.041
Sr 216.596	314.838	ppb	0.9095	0.3	3002.72
Ti 334.941	1148.41	ppb	1.2671	0.1	290680
Tl 190.794	5.5598	ppb	6.3338	113.9	-4.3077
V 292.401	91.9669	ppb	0.2069	0.2	2533.99
Zn 206.200	689.067	ppb	2.3012	0.3	1066.96



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Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.5360u	0.2590	-0.0060u
Al 308.215	15101.4	15017.9	14980.4
As 188.980	66.2063	67.5316	66.3909
B 249.678	-6.5251u	-7.0672u	-7.6961u
Ba 389.178	448.634	449.025	446.861
Be 313.042	1.6575	1.6511	1.6427
Ca 370.602	7012	7003	6980
Cd 226.502	-0.4763	-0.5834	-0.6117
Co 228.615	29.8009	29.4867	29.5258
Cr 267.716	35.8319	35.5770	35.5357
Cu 324.754	335.361	335.183	331.059
Fe 271.441	103749	103245	103048
K 766.491	1808.41	1804.26	1802.06
Mg 279.078	1590.31	1574.90	1579.69
Mn 257.610	628.171	624.689	623.154
Mo 202.032	9.3612	8.9537	10.2507
Na 330.237	319.119u	149.783u	237.534u
Ni 231.604	58.9250	57.8503	59.7945
Pb 220.353	404.633	399.760	406.095
Sb 206.834	6.2835	13.1807	14.0308
Se 196.026	-8.7321u	-9.8152u	16.1802
Sn 189.925	60.2540	68.1914	67.3736
Sr 216.596	190.851	189.779	188.724
Ti 334.941	1074.79	1071.13	1065.58
Tl 190.794	3.3941u	1.4454u	11.0682
V 292.401	67.8365	68.3009	67.3441
Zn 206.200	123.917	121.418	123.464

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0943	ppb	0.4048	429.1	-68.4198
Al 308.215	15033.2	ppb	61.9442	0.4	87099.9
As 188.980	66.7096	ppb	0.7178	1.1	42.4104
B 249.678	-7.0961	ppb	0.5860	8.3	7.8138
Ba 389.178	448.173	ppb	1.1530	0.3	9372.40
Be 313.042	1.6504	ppb	0.0074	0.4	3039.77
Ca 370.602	6998	ppb	16.45	0.2	14269
Cd 226.502	-0.5571	ppb	0.0714	12.8	211.367
Co 228.615	29.6045	ppb	0.1713	0.6	377.804
Cr 267.716	35.6482	ppb	0.1604	0.5	1517.52
Cu 324.754	333.868	ppb	2.4343	0.7	16430.7
Fe 271.441	103347	ppb	361.259	0.3	173944
K 766.491	1804.91	ppb	3.2238	0.2	86818.7
Mg 279.078	1581.63	ppb	7.8841	0.5	3297.49
Mn 257.610	625.338	ppb	2.5706	0.4	144324
Mo 202.032	9.5219	ppb	0.6633	7.0	70.2949
Na 330.237	235.478	ppb	84.6868	36.0	-32.0451
Ni 231.604	58.8566	ppb	0.9739	1.7	141.177
Pb 220.353	403.496	ppb	3.3173	0.8	654.197
Sb 206.834	11.1650	ppb	4.2488	38.1	9.4866
Se 196.026	-0.7890	ppb	14.7058	1863.8	0.0666
Sn 189.925	65.2730	ppb	4.3658	6.7	49.2677
Sr 216.596	189.785	ppb	1.0634	0.6	1818.77
Ti 334.941	1070.50	ppb	4.6374	0.4	270944
Tl 190.794	5.3026	ppb	5.0873	95.9	-2.2521
V 292.401	67.8272	ppb	0.4784	0.7	1876.70
Zn 206.200	122.933	ppb	1.3316	1.1	191.789

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Cont Calib Verif (CCV) 3/29/2013, 11:44:59 PM Rack 3, Tube 25  
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	500.731	500.835	499.980
Al 308.215	5088.76	5115.84	5109.72
As 188.980	532.283	530.382	530.630
B 249.678	584.258	593.064	595.644
Ba 389.178	4608.84	4624.59	4632.05
Be 313.042	491.572	493.772	492.326
Ca 370.602	4802	4818	4804
Cd 226.502	483.333	484.334	484.017
Co 228.615	481.879	483.619	484.698
Cr 267.716	4791.91	4807.17	4790.45
Cu 324.754	4751.45	4663.43	4628.85
Fe 271.441	5155.83	5172.81	5193.51
K 766.491	9932.42	9977.49	9985.65
Mg 279.078	5147.13	5152.47	5146.64
Mn 257.610	4779.03	4799.07	4792.34
Mo 202.032	485.760	490.641	489.651
Na 330.237	7525.06	7707.69	7945.87
Ni 231.604	2405.66	2410.54	2404.32
Pb 220.353	495.118	493.608	494.487
Sb 206.834	1001.27	1005.05	990.925
Se 196.026	5155.98	5230.72	5236.28
Sn 189.925	5078.08	5102.31	5062.20
Sr 216.596	2476.34	2480.17	2471.69
Ti 334.941	494.360	497.507	495.353
Tl 190.794	4992.44	5032.36	5001.13
V 292.401	5001.25	5019.25	5024.61
Zn 206.200	2454.82	2461.35	2469.90

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	500.515	ppb	0.4666	0.1	35500.9	100.10303
Al 308.215	5104.77	ppb	14.2035	0.3	29727.2	102.09547
As 188.980	531.098	ppb	1.0334	0.2	351.175	106.21967
B 249.678	590.989	ppb	5.9701	1.0	5701.93	23.63954Q
Ba 389.178	4621.83	ppb	11.8506	0.3	95997.0	92.43656
Be 313.042	492.557	ppb	1.1179	0.2	951774	98.51133
Ca 370.602	4808	ppb	8.632	0.2	15335	96.16030
Cd 226.502	483.894	ppb	0.5116	0.1	17332.1	96.77889
Co 228.615	483.399	ppb	1.4223	0.3	5546.15	96.67975
Cr 267.716	4796.51	ppb	9.2586	0.2	200373	95.93018
Cu 324.754	4681.24	ppb	63.2122	1.4	228757	93.62479
Fe 271.441	5174.05	ppb	18.8674	0.4	8831.84	103.48100
K 766.491	9965.19	ppb	28.6696	0.3	478291	99.65186
Mg 279.078	5148.75	ppb	3.2348	0.1	10579.6	102.97493
Mn 257.610	4790.15	ppb	10.1950	0.2	1102734	95.80295
Mo 202.032	488.684	ppb	2.5803	0.5	3138.34	97.73680
Na 330.237	7726.21	ppb	211.014	2.7	369.871	103.01607
Ni 231.604	2406.84	ppb	3.2732	0.1	5694.78	96.27353
Pb 220.353	494.404	ppb	0.7579	0.2	801.552	98.88084
Sb 206.834	999.082	ppb	7.3132	0.7	646.418	99.90820
Se 196.026	5207.66	ppb	44.8451	0.9	1691.84	104.15318
Sn 189.925	5080.86	ppb	20.2008	0.4	3803.56	101.61726
Sr 216.596	2476.07	ppb	4.2441	0.2	23076.5	99.04279
Ti 334.941	495.740	ppb	1.6085	0.3	125452	99.14803
Tl 190.794	5008.64	ppb	20.9968	0.4	3271.25	100.17284
V 292.401	5015.04	ppb	12.2336	0.2	137016	100.30077
Zn 206.200	2462.03	ppb	7.5621	0.3	3794.41	98.48100

E03292013.wvq. All Data Report 3/30/2013, 8:54:32 AM

Cont Calib Blank (CCB)                      3/29/2013, 11:50:26 PM                      Rack 3, Tube 26  
 Weight: 1    Volume: 1    Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.0125	-0.1099u	0.8903
Al 308.215	4.0396	0.8969	-1.0621u
As 188.980	-3.2676u	3.9558	2.6850
B 249.678	3.1432	1.5333	0.2924
Ba 389.178	-0.5682u	-0.7330u	0.4457
Be 313.042	-0.0702u	-0.0495u	-0.0588u
Ca 370.602	-7.700u	-5.576u	3.118
Cd 226.502	0.0129	0.1960	-0.1682u
Co 228.615	-0.2458u	-0.5805u	-0.8459u
Cr 267.716	-0.2291u	-0.0075u	-0.0643u
Cu 324.754	-0.4513u	-1.1729u	-0.2409u
Fe 271.441	11.4459	5.4905	1.6574
K 766.491	-0.8650u	-0.4943u	-0.8779u
Mg 279.078	-5.9466u	2.0455	-0.6483u
Mn 257.610	-0.2348u	-0.1545u	-0.1742u
Mo 202.032	1.3204	0.1738	-0.0129u
Na 330.237	370.929	40.7416	22.6587
Ni 231.604	0.3006	0.8261	0.1992
Pb 220.353	-1.0802u	2.6631	-1.8463u
Sb 206.834	1.4731	9.9878	4.6450
Se 196.026	-9.8928u	15.3856	14.7572
Sn 189.925	0.3530	0.6214	-2.0107u
Sr 216.596	0.0397	-0.3216u	-1.1566u
Ti 334.941	0.1110	0.0726	0.0707
Tl 190.794	6.2956	4.2713	-1.5369u
V 292.401	-0.3437u	-0.3378u	-0.4484u
Zn 206.200	-1.1850u	0.4387	-1.2922u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.2643	ppb	0.5456	206.4	-37.7949	0.26430
Al 308.215	1.2915	ppb	2.5737	199.3	273.921	1.29145
As 188.980	1.1244	ppb	3.8563	343.0	-0.0053	1.12438
B 249.678	1.6563	ppb	1.4294	86.3	186.152	1.65629
Ba 389.178	-0.2852	ppb	0.6383	223.8	-9.4393	-0.28517
Be 313.042	-0.0595	ppb	0.0104	17.4	-263.475	-0.05949
Ca 370.602	-3.386	ppb	5.732	169.3	-18.07	-3.38620
Cd 226.502	0.0136	ppb	0.1821	1341.4	9.5100	0.01358
Co 228.615	-0.5574	ppb	0.3007	54.0	9.2001	-0.55738
Cr 267.716	-0.1003	ppb	0.1151	114.8	-0.9448	-0.10029
Cu 324.754	-0.6217	ppb	0.4888	78.6	59.9005	-0.62171
Fe 271.441	6.1980	ppb	4.9324	79.6	13.6828	6.19796
K 766.491	-0.7457	ppb	0.2178	29.2	196.077	-0.74570
Mg 279.078	-1.5164	ppb	4.0662	268.1	26.1081	-1.51643
Mn 257.610	-0.1879	ppb	0.0418	22.3	49.6898	-0.18786
Mo 202.032	0.4938	ppb	0.7220	146.2	17.1001	0.49376
Na 330.237	144.777	ppb	196.063	135.4	3.5235	144.77650
Ni 231.604	0.4420	ppb	0.3366	76.2	1.0327	0.44196
Pb 220.353	-0.0878	ppb	2.4130	2748.1	3.3644	-0.08780
Sb 206.834	5.3687	ppb	4.3032	80.2	4.2936	5.36865
Se 196.026	6.7500	ppb	14.4165	213.6	2.0161	6.74999
Sn 189.925	-0.3454	ppb	1.4484	419.3	0.1501	-0.34543
Sr 216.596	-0.4795	ppb	0.6136	128.0	6.4869	-0.47949
Ti 334.941	0.0848	ppb	0.0227	26.8	-40.1264	0.08476
Tl 190.794	3.0100	ppb	4.0657	135.1	0.2828	3.01004
V 292.401	-0.3766	ppb	0.0622	16.5	-4.8698	-0.37662
Zn 206.200	-0.6795	ppb	0.9699	142.7	0.7531	-0.67951

E03292013.vvq. All Data Report 3/30/2013, 8:54:32 AM

680-88580-a-43-e ms (Samp) 3/29/2013, 11:55:53 PM Rack 3, Tube 27

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	8.1224	9.1284	8.4957
Al 308.215	19281.9	19314.4	19319.0
As 188.980	174.066	174.913	172.870
B 249.678	210.403	213.790	215.157
Ba 389.178	827.934	829.914	836.194
Be 313.042	53.7432	53.7645	53.7308
Ca 370.602	19590	19577	19571
Cd 226.502	50.1742	50.3997	50.4424
Co 228.615	72.9012	74.5069	74.6945
Cr 267.716	141.548	141.323	140.862
Cu 324.754	509.677	513.656	507.337
Fe 271.441	84843.4	84979.1	85276.4
K 766.491	7209.06	7222.73	7233.06
Mg 279.078	7099.72	7093.94	7090.66
Mn 257.610	1010.86	1011.93	1013.68
Mo 202.032	101.501	102.071	102.301
Na 330.237	4904.13	4990.37	4808.87
Ni 231.604	150.625	151.942	148.478
Pb 220.353	334.729	335.350	331.144
Sb 206.834	50.4845	53.3263	38.1261
Se 196.026	111.416	110.264	102.206
Sn 189.925	245.933	241.002	244.902
Sr 216.596	583.259	581.494	581.984
Ti 334.941	1169.54	1169.77	1165.88
Tl 190.794	41.5833	45.0545	42.5312
V 292.401	171.778	172.052	171.788
Zn 206.200	349.398	346.774	349.284

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	8.5822	ppb	0.5086	5.9	534.598
Al 308.215	19305.1	ppb	20.2007	0.1	111785
As 188.980	173.950	ppb	1.0262	0.6	113.792
B 249.678	213.117	ppb	2.4478	1.1	2087.82
Ba 389.178	831.347	ppb	4.3126	0.5	17321.0
Be 313.042	53.7462	ppb	0.0170	0.0	103734
Ca 370.602	19579	ppb	9.636	0.0	56351
Cd 226.502	50.3387	ppb	0.1441	0.3	1992.76
Co 228.615	74.0342	ppb	0.9857	1.3	885.802
Cr 267.716	141.244	ppb	0.3496	0.2	5925.94
Cu 324.754	510.223	ppb	3.1948	0.6	25042.7
Fe 271.441	85033.0	ppb	221.466	0.3	143129
K 766.491	7221.62	ppb	12.0374	0.2	346674
Mg 279.078	7094.77	ppb	4.5900	0.1	14665.2
Mn 257.610	1012.15	ppb	1.4238	0.1	233344
Mo 202.032	101.958	ppb	0.4118	0.4	663.546
Na 330.237	4901.12	ppb	90.7857	1.9	211.090
Ni 231.604	150.348	ppb	1.7489	1.2	357.310
Pb 220.353	333.741	ppb	2.2703	0.7	541.400
Sb 206.834	47.3123	ppb	8.0814	17.1	31.7145
Se 196.026	107.962	ppb	5.0179	4.6	35.3765
Sn 189.925	243.945	ppb	2.6008	1.1	183.015
Sr 216.596	582.245	ppb	0.9110	0.2	5472.79
Ti 334.941	1168.40	ppb	2.1798	0.2	295747
Tl 190.794	43.0564	ppb	1.7942	4.2	22.7094
V 292.401	171.873	ppb	0.1553	0.1	4704.38
Zn 206.200	348.485	ppb	1.4833	0.4	549.247

E03292013.vvq. All Data Report 3/30/2013, 8:54:32 AM

**680-88580-a-43-f msd (Samp) 3/30/2013, 12:01:19 AM Rack 3, Tube 28****Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	9.6927	10.7076	9.4552
Al 308.215	21464.2	21430.7	21347.2
As 188.980	181.073	174.429	176.442
B 249.678	219.473	222.205	221.329
Ba 389.178	670.244	671.760	668.807
Be 313.042	57.4778	57.4217	57.1080
Ca 370.602	14459	14426	14354
Cd 226.502	54.2375	54.5540	54.2380
Co 228.615	80.3189	79.2636	79.1562
Cr 267.716	142.568	142.513	140.939
Cu 324.754	357.422	357.748	352.217
Fe 271.441	75238.2	75265.4	74948.9
K 766.491	7030.52	7034.19	7000.00
Mg 279.078	6917.98	6910.19	6855.40
Mn 257.610	961.468	959.603	956.720
Mo 202.032	111.123	110.068	110.101
Na 330.237	5379.85	5097.17	5223.74
Ni 231.604	155.158	155.199	151.732
Pb 220.353	243.222	245.902	243.993
Sb 206.834	53.0129	55.1515	46.7465
Se 196.026	93.3650	104.379	94.8749
Sn 189.925	254.720	249.837	247.978
Sr 216.596	377.821	377.181	374.743
Ti 334.941	1239.73	1238.16	1228.38
Tl 190.794	46.7520	42.9756	48.7851
V 292.401	183.726	184.342	183.246
Zn 206.200	206.608	204.390	204.781

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	9.9518	ppb	0.6652	6.7	640.648
Al 308.215	21414.0	ppb	60.2578	0.3	123967
As 188.980	177.315	ppb	3.4071	1.9	116.079
B 249.678	221.002	ppb	1.3954	0.6	2170.85
Ba 389.178	670.271	ppb	1.4766	0.2	13969.4
Be 313.042	57.3358	ppb	0.1993	0.3	110671
Ca 370.602	14413	ppb	53.64	0.4	40522
Cd 226.502	54.3432	ppb	0.1826	0.3	2114.88
Co 228.615	79.5796	ppb	0.6425	0.8	950.889
Cr 267.716	142.007	ppb	0.9251	0.7	5955.57
Cu 324.754	355.796	ppb	3.1034	0.9	17495.4
Fe 271.441	75150.8	ppb	175.443	0.2	126498
K 766.491	7021.57	ppb	18.7717	0.3	337077
Mg 279.078	6894.52	ppb	34.1100	0.5	14250.4
Mn 257.610	959.264	ppb	2.3924	0.2	221141
Mo 202.032	110.431	ppb	0.5998	0.5	718.284
Na 330.237	5233.59	ppb	141.594	2.7	231.709
Ni 231.604	154.030	ppb	1.9897	1.3	365.838
Pb 220.353	244.372	ppb	1.3801	0.6	397.025
Sb 206.834	51.6369	ppb	4.3682	8.5	34.2001
Se 196.026	97.5395	ppb	5.9708	6.1	31.9454
Sn 189.925	250.845	ppb	3.4825	1.4	188.178
Sr 216.596	376.582	ppb	1.6243	0.4	3548.62
Ti 334.941	1235.42	ppb	6.1508	0.5	312711
Tl 190.794	46.1709	ppb	2.9480	6.4	25.1302
V 292.401	183.771	ppb	0.5495	0.3	5029.68
Zn 206.200	205.260	ppb	1.1841	0.6	318.773

E03292013.wvq. All Data Report 3/30/2013, 8:54:32 AM

680-88580-a-44-b (Samp)      3/30/2013, 12:06:46 AM      Rack 3, Tube 29  
 Weight: 1      Volume: 1      Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.6297u	-0.5706u	-0.6076u
Al 308.215	66125.7	66406.7	65691.3
As 188.980	36.9836	38.5936	33.2674
B 249.678	-5.3859u	-8.4823u	-7.2768u
Ba 389.178	108.800	107.909	107.093
Be 313.042	0.8012	0.7839	0.7853
Ca 370.602	1314u	1342u	1355u
Cd 226.502	-0.5517	-0.6601	-0.8346
Co 228.615	2.2976	2.6601	2.8020
Cr 267.716	99.0862	99.3068	97.9915
Cu 324.754	74.0248	76.1072	74.3377
Fe 271.441	97837.6	98289.4	97370.1
K 766.491	772.133	777.142	768.202
Mg 279.078	657.936	665.166	659.337
Mn 257.610	75.6196	75.8713	75.0195
Mo 202.032	6.3479	6.0654	5.9561
Na 330.237	-26.2653u	40.5517u	242.729u
Ni 231.604	10.1851	11.4654	13.1492
Pb 220.353	78.0740	77.7081	75.3742
Sb 206.834	4.3082	-6.5606u	4.3042
Se 196.026	-8.2679u	-0.7257	-0.6183
Sn 189.925	18.9295	26.5038	26.3716
Sr 216.596	36.1318	35.6325	35.7652
Ti 334.941	580.011	581.595	573.235
Tl 190.794	3.1674u	1.6841u	0.9995u
V 292.401	271.306	272.405	270.065
Zn 206.200	183.077	182.020	182.321

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.6026	ppb	0.0298	5.0	-99.1009
Al 308.215	66074.5	ppb	360.460	0.5	381916
As 188.980	36.2816	ppb	2.7316	7.5	22.2485
B 249.678	-7.0483	ppb	1.5608	22.1	13.4433
Ba 389.178	107.934	ppb	0.8538	0.8	2302.87
Be 313.042	0.7901	ppb	0.0096	1.2	1373.46
Ca 370.602	1337	ppb	20.87	1.6	-3624
Cd 226.502	-0.6821	ppb	0.1427	20.9	194.922
Co 228.615	2.5866	ppb	0.2601	10.1	56.9485
Cr 267.716	98.7948	ppb	0.7044	0.7	4150.45
Cu 324.754	74.8232	ppb	1.1229	1.5	3771.46
Fe 271.441	97832.4	ppb	459.698	0.5	164660
K 766.491	772.492	ppb	4.4808	0.6	37290.6
Mg 279.078	660.813	ppb	3.8342	0.6	1389.67
Mn 257.610	75.5034	ppb	0.4376	0.6	17742.3
Mo 202.032	6.1231	ppb	0.2022	3.3	48.4125
Na 330.237	85.6716	ppb	140.058	163.5	-34.6852
Ni 231.604	11.5999	ppb	1.4866	12.8	29.2794
Pb 220.353	77.0521	ppb	1.4646	1.9	126.424
Sb 206.834	0.6839	ppb	6.2740	917.4	3.3333
Se 196.026	-3.2040	ppb	4.3858	136.9	-0.8284
Sn 189.925	23.9350	ppb	4.3353	18.1	18.3231
Sr 216.596	35.8432	ppb	0.2586	0.7	380.042
Ti 334.941	578.280	ppb	4.4405	0.8	146341
Tl 190.794	1.9504	ppb	1.1082	56.8	-3.6726
V 292.401	271.259	ppb	1.1708	0.4	7438.49
Zn 206.200	182.473	ppb	0.5449	0.3	283.666

E03292013.vvq. All Data Report 3/30/2013, 8:54:32 AM

680-88580-a-45-b (Samp) 3/30/2013, 12:12:12 AM Rack 3, Tube 30

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-1.6104u	-1.5468u	0.2114
Al 308.215	75168.3	67928.5	81423.0
As 188.980	26.2081	22.5250	29.3278
B 249.678	-10.4034u	-11.1953u	-12.7992u
Ba 389.178	107.413	97.7118	117.507
Be 313.042	0.5884	0.5289	0.6344
Ca 370.602	1423u	1552u	1342u
Cd 226.502	-0.8217	-1.2902	-0.1259
Co 228.615	2.1375	1.8672	1.5999
Cr 267.716	121.454	108.948	129.485
Cu 324.754	32.5559	25.5397	35.6684
Fe 271.441	105934	95819.9	114809
K 766.491	877.619	808.174	932.523
Mg 279.078	719.006	647.459	774.796
Mn 257.610	51.8152	46.7379	55.9793
Mo 202.032	6.9789	6.3614	6.9520
Na 330.237	270.708u	-16.6353u	-78.7704u
Ni 231.604	12.4686	8.7628	12.1734
Pb 220.353	39.0441	39.3659	47.7371
Sb 206.834	-5.3225u	-0.7417	-8.8945u
Se 196.026	-7.5186u	-1.9679u	-1.8384u
Sn 189.925	16.6023	13.7558	14.7808
Sr 216.596	35.8529	30.3597	38.2875
Ti 334.941	622.669	561.884	669.866
Tl 190.794	0.3358u	4.1056u	0.4083u
V 292.401	295.430	268.946	319.043
Zn 206.200	33.7297	28.1264	37.5878

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.9819	ppb	1.0340	105.3	-126.000
Al 308.215	74840.0	ppb	6753.24	9.0	432546
As 188.980	26.0203	ppb	3.4053	13.1	15.3632
B 249.678	-11.4660	ppb	1.2206	10.6	-35.0996
Ba 389.178	107.544	ppb	9.8981	9.2	2299.88
Be 313.042	0.5839	ppb	0.0529	9.1	974.573
Ca 370.602	1439	ppb	105.8	7.4	-3920
Cd 226.502	-0.7459	ppb	0.5858	78.5	209.154
Co 228.615	1.8682	ppb	0.2688	14.4	49.5570
Cr 267.716	119.962	ppb	10.3496	8.6	5036.24
Cu 324.754	31.2547	ppb	5.1882	16.6	1644.94
Fe 271.441	105521	ppb	9501.19	9.0	177599
K 766.491	872.772	ppb	62.3164	7.1	42101.3
Mg 279.078	713.754	ppb	63.8307	8.9	1498.08
Mn 257.610	51.5108	ppb	4.6282	9.0	12240.9
Mo 202.032	6.7641	ppb	0.3490	5.2	52.1435
Na 330.237	58.4341	ppb	186.441	319.1	-37.5799
Ni 231.604	11.1349	ppb	2.0596	18.5	28.3254
Pb 220.353	42.0491	ppb	4.9286	11.7	69.7301
Sb 206.834	-4.9862	ppb	4.0868	82.0	0.0536
Se 196.026	-3.7750	ppb	3.2427	85.9	-0.9883
Sn 189.925	15.0463	ppb	1.4417	9.6	11.6696
Sr 216.596	34.8334	ppb	4.0610	11.7	373.350
Ti 334.941	618.140	ppb	54.1331	8.8	156432
Tl 190.794	1.6166	ppb	2.1559	133.4	-4.1183
V 292.401	294.473	ppb	25.0626	8.5	8073.60
Zn 206.200	33.1479	ppb	4.7575	14.4	52.6988

E03292013.vvq. All Data Report 3/30/2013, 8:54:32 AM

680-88580-a-46-b (Samp)      3/30/2013, 12:17:39 AM      Rack 3, Tube 31  
 Weight: 1      Volume: 1      Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.4346u	-1.1649u	0.4314
Al 308.215	121341	121423	121362
As 188.980	34.5280	33.4209	29.8946
B 249.678	-14.7635u	-16.9656u	-15.5158u
Ba 389.178	99.8703	101.449	98.0643
Be 313.042	0.9517	0.9637	0.9439
Ca 370.602	2637u	2648u	2652u
Cd 226.502	-0.9959	-0.8589	-0.6975
Co 228.615	5.4948	4.8897	4.7403
Cr 267.716	150.200	150.005	149.733
Cu 324.754	36.1337	38.3317	34.1627
Fe 271.441	137792	138036	138043
K 766.491	1246.85	1246.21	1239.25
Mg 279.078	1134.98	1126.49	1129.76
Mn 257.610	204.087	204.424	204.042
Mo 202.032	7.5360	7.2528	8.8031
Na 330.237	189.842u	313.455u	-69.7006u
Ni 231.604	12.6205	12.5660	12.3953
Pb 220.353	54.6680	56.2457	52.7591
Sb 206.834	0.3476	-16.9156u	4.9796
Se 196.026	-5.1115u	-26.3685u	3.3585
Sn 189.925	13.9156	20.5149	13.1185
Sr 216.596	43.1891	43.0316	42.3382
Ti 334.941	901.729	901.155	897.044
Tl 190.794	5.2207u	8.9242	3.6455u
V 292.401	338.434	340.302	338.555
Zn 206.200	50.3745	50.7945	51.5670

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.3894	ppb	0.7991	205.2	-83.1417
Al 308.215	121375	ppb	42.9248	0.0	701339
As 188.980	32.6145	ppb	2.4197	7.4	19.3921
B 249.678	-15.7483	ppb	1.1193	7.1	-105.493
Ba 389.178	99.7946	ppb	1.6937	1.7	2160.50
Be 313.042	0.9531	ppb	0.0100	1.0	1690.91
Ca 370.602	2645	ppb	7.750	0.3	-2644
Cd 226.502	-0.8508	ppb	0.1494	17.6	275.251
Co 228.615	5.0416	ppb	0.3995	7.9	92.0498
Cr 267.716	149.979	ppb	0.2347	0.2	6298.09
Cu 324.754	36.2094	ppb	2.0855	5.8	1895.98
Fe 271.441	137957	ppb	142.699	0.1	232191
K 766.491	1244.10	ppb	4.2146	0.3	59915.2
Mg 279.078	1130.41	ppb	4.2781	0.4	2347.62
Mn 257.610	204.184	ppb	0.2088	0.1	47474.0
Mo 202.032	7.8640	ppb	0.8255	10.5	57.6839
Na 330.237	144.532	ppb	195.555	135.3	-45.2007
Ni 231.604	12.5273	ppb	0.1175	0.9	32.2413
Pb 220.353	54.5576	ppb	1.7459	3.2	88.9742
Sb 206.834	-3.8628	ppb	11.5389	298.7	1.3768
Se 196.026	-9.3739	ppb	15.3150	163.4	-2.6569
Sn 189.925	15.8496	ppb	4.0598	25.6	12.2707
Sr 216.596	42.8529	ppb	0.4527	1.1	459.736
Ti 334.941	899.976	ppb	2.5555	0.3	227784
Tl 190.794	5.9302	ppb	2.7099	45.7	-2.5167
V 292.401	339.097	ppb	1.0450	0.3	9298.18
Zn 206.200	50.9120	ppb	0.6049	1.2	80.0770



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680-88580-a-47-d (Samp) 3/30/2013, 12:23:06 AM Rack 3, Tube 32

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.3895u	-0.3615u	-0.9631u
Al 308.215	27232.0	27279.3	27352.0
As 188.980	373.098	377.846	375.606
B 249.678	10.8631u	14.3123u	13.6918u
Ba 389.178	675.992	679.371	681.036
Be 313.042	3.5703	3.5734	3.5593
Ca 370.602	31353	31296	31308
Cd 226.502	1.7056	1.6373	2.2057
Co 228.615	35.7382	36.1915	34.7767
Cr 267.716	127.856	127.591	128.170
Cu 324.754	441.211	440.625	446.474
Fe 271.441	165561	165586	166008
K 766.491	3580.64	3579.97	3572.72
Mg 279.078	3820.78	3806.67	3815.73
Mn 257.610	1771.80	1769.98	1776.27
Mo 202.032	10.6921	10.9391	10.7891
Na 330.237	275.500u	457.635u	197.850u
Ni 231.604	77.2387	76.1163	75.8424
Pb 220.353	841.395	837.136	841.853
Sb 206.834	21.2051	18.9529	21.5570
Se 196.026	5.4716	-0.7749	9.9472
Sn 189.925	132.562	140.403	136.063
Sr 216.596	479.549	477.359	476.048
Ti 334.941	1359.26	1355.05	1354.68
Tl 190.794	7.7958u	7.6095u	7.3570u
V 292.401	100.612	99.6086	100.603
Zn 206.200	674.419	682.447	681.647

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.5714	ppb	0.3396	59.4	-109.503
Al 308.215	27287.8	ppb	60.4679	0.2	157883
As 188.980	375.516	ppb	2.3751	0.6	246.671
B 249.678	12.9557	ppb	1.8387	14.2	137.583
Ba 389.178	678.800	ppb	2.5697	0.4	14203.8
Be 313.042	3.5677	ppb	0.0074	0.2	6752.86
Ca 370.602	31319	ppb	30.14	0.1	87607
Cd 226.502	1.8496	ppb	0.3103	16.8	431.451
Co 228.615	35.5688	ppb	0.7224	2.0	451.541
Cr 267.716	127.872	ppb	0.2898	0.2	5387.98
Cu 324.754	442.770	ppb	3.2211	0.7	21768.8
Fe 271.441	165718	ppb	251.086	0.2	278917
K 766.491	3577.78	ppb	4.3887	0.1	171868
Mg 279.078	3814.39	ppb	7.1519	0.2	7894.92
Mn 257.610	1772.68	ppb	3.2362	0.2	408603
Mo 202.032	10.8068	ppb	0.1245	1.2	75.7236
Na 330.237	310.329	ppb	133.349	43.0	-53.2868
Ni 231.604	76.3991	ppb	0.7398	1.0	183.850
Pb 220.353	840.128	ppb	2.6013	0.3	1358.97
Sb 206.834	20.5717	ppb	1.4129	6.9	16.7381
Se 196.026	4.8813	ppb	5.3854	110.3	2.3341
Sn 189.925	136.343	ppb	3.9279	2.9	102.473
Sr 216.596	477.652	ppb	1.7684	0.4	4529.99
Ti 334.941	1356.33	ppb	2.5463	0.2	343316
Tl 190.794	7.5874	ppb	0.2202	2.9	-3.9361
V 292.401	100.275	ppb	0.5768	0.6	2764.25
Zn 206.200	679.504	ppb	4.4223	0.7	1052.15

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680-88580-a-47-e ms (Samp) 3/30/2013, 12:28:32 AM Rack 3, Tube 33

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	8.8951	8.7636	8.1735
Al 308.215	26936.0	26917.3	26935.6
As 188.980	477.187	473.986	462.549
B 249.678	200.013	202.295	203.365
Ba 389.178	700.369	701.477	699.678
Be 313.042	53.7945	53.6292	53.6431
Ca 370.602	26648	26629	26641
Cd 226.502	52.0699	52.2006	51.9477
Co 228.615	79.6828	78.6663	78.3850
Cr 267.716	225.670	225.251	225.396
Cu 324.754	546.145	545.038	553.638
Fe 271.441	165845	165797	165868
K 766.491	8270.03	8262.47	8212.86
Mg 279.078	8633.36	8619.24	8634.94
Mn 257.610	2004.19	2001.11	2004.52
Mo 202.032	103.077	101.704	104.345
Na 330.237	4718.26	4913.51	4847.93
Ni 231.604	159.986	163.268	161.424
Pb 220.353	917.871	927.969	921.745
Sb 206.834	35.5032	43.0288	54.1201
Se 196.026	92.6350	107.520	105.341
Sn 189.925	361.811	366.498	372.114
Sr 216.596	391.108	389.085	392.047
Ti 334.941	1436.62	1432.78	1433.97
Tl 190.794	38.1728	42.5536	50.9686
V 292.401	188.565	188.072	188.398
Zn 206.200	827.886	829.431	828.005

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	8.6107	ppb	0.3843	4.5	548.970
Al 308.215	26929.6	ppb	10.6675	0.0	155825
As 188.980	471.241	ppb	7.6956	1.6	310.058
B 249.678	201.891	ppb	1.7121	0.8	1907.30
Ba 389.178	700.508	ppb	0.9076	0.1	14657.5
Be 313.042	53.6889	ppb	0.0917	0.2	103624
Ca 370.602	26639	ppb	10.09	0.0	72533
Cd 226.502	52.0727	ppb	0.1265	0.2	2228.65
Co 228.615	78.9113	ppb	0.6827	0.9	945.685
Cr 267.716	225.439	ppb	0.2131	0.1	9464.19
Cu 324.754	548.274	ppb	4.6785	0.9	26924.9
Fe 271.441	165836	ppb	36.0460	0.0	279123
K 766.491	8248.45	ppb	31.0591	0.4	395935
Mg 279.078	8629.18	ppb	8.6435	0.1	17828.4
Mn 257.610	2003.27	ppb	1.8785	0.1	461709
Mo 202.032	103.042	ppb	1.3207	1.3	666.896
Na 330.237	4826.57	ppb	99.3634	2.1	177.428
Ni 231.604	161.559	ppb	1.6453	1.0	385.346
Pb 220.353	922.528	ppb	5.0941	0.6	1491.89
Sb 206.834	44.2174	ppb	9.3652	21.2	31.4457
Se 196.026	101.832	ppb	8.0392	7.9	33.8577
Sn 189.925	366.808	ppb	5.1585	1.4	274.981
Sr 216.596	390.747	ppb	1.5134	0.4	3714.25
Ti 334.941	1434.45	ppb	1.9653	0.1	363111
Tl 190.794	43.8984	ppb	6.5030	14.8	19.6043
V 292.401	188.345	ppb	0.2509	0.1	5154.45
Zn 206.200	828.441	ppb	0.8596	0.1	1282.16

E03292013.wvq. All Data Report 3/30/2013, 8:54:32 AM

**680-88580-a-47-f msd (Samp) 3/30/2013, 12:33:59 AM Rack 3, Tube 34****Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	9.1389	8.2030	8.8792
Al 308.215	38692.2	38768.0	38784.2
As 188.980	383.114	384.208	377.060
B 249.678	213.088	215.388	217.320
Ba 389.178	761.233	764.074	763.385
Be 313.042	54.4184	54.3663	54.3104
Ca 370.602	34448	34424	34438
Cd 226.502	51.7508	52.4760	52.2425
Co 228.615	75.2831	75.6614	76.6032
Cr 267.716	197.989	197.522	197.636
Cu 324.754	488.671	485.892	483.418
Fe 271.441	120187	120495	120518
K 766.491	10210.0	10189.8	10159.7
Mg 279.078	10958.1	10992.4	10994.5
Mn 257.610	1623.57	1624.96	1626.32
Mo 202.032	104.114	103.694	103.998
Na 330.237	5151.92	5134.62	5216.52
Ni 231.604	156.257	155.679	159.891
Pb 220.353	838.079	849.872	837.347
Sb 206.834	51.7541	45.3173	46.1580
Se 196.026	96.0054	91.8033	101.014
Sn 189.925	432.264	438.635	436.757
Sr 216.596	497.685	497.255	498.098
Ti 334.941	1587.81	1579.36	1580.18
Tl 190.794	51.5163	49.6205	43.7823
V 292.401	210.873	210.792	211.416
Zn 206.200	614.479	617.966	612.850

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	8.7403	ppb	0.4831	5.5	552.442
Al 308.215	38748.1	ppb	49.0806	0.1	224090
As 188.980	381.461	ppb	3.8503	1.0	251.106
B 249.678	215.265	ppb	2.1187	1.0	2074.94
Ba 389.178	762.897	ppb	1.4819	0.2	15924.6
Be 313.042	54.3650	ppb	0.0540	0.1	104935
Ca 370.602	34437	ppb	11.92	0.0	101410
Cd 226.502	52.1565	ppb	0.3702	0.7	2133.98
Co 228.615	75.8492	ppb	0.6798	0.9	915.879
Cr 267.716	197.716	ppb	0.2437	0.1	8295.35
Cu 324.754	485.994	ppb	2.6279	0.5	23868.9
Fe 271.441	120400	ppb	185.255	0.2	202653
K 766.491	10186.5	ppb	25.3176	0.2	488907
Mg 279.078	10981.7	ppb	20.4428	0.2	22678.0
Mn 257.610	1624.95	ppb	1.3764	0.1	374516
Mo 202.032	103.935	ppb	0.2168	0.2	674.595
Na 330.237	5167.68	ppb	43.1650	0.8	209.022
Ni 231.604	157.276	ppb	2.2833	1.5	374.368
Pb 220.353	841.766	ppb	7.0296	0.8	1361.13
Sb 206.834	47.7431	ppb	3.4989	7.3	32.8221
Se 196.026	96.2742	ppb	4.6112	4.8	31.8166
Sn 189.925	435.886	ppb	3.2736	0.8	326.692
Sr 216.596	497.680	ppb	0.4214	0.1	4697.06
Ti 334.941	1582.45	ppb	4.6596	0.3	400581
Tl 190.794	48.3064	ppb	4.0310	8.3	24.3803
V 292.401	211.027	ppb	0.3397	0.2	5779.56
Zn 206.200	615.098	ppb	2.6138	0.4	952.347

E03292013.wvq. All Data Report 3/30/2013, 8:54:32 AM

680-88580-a-48-b (Samp) 3/30/2013, 12:39:26 AM Rack 3, Tube 35

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.1454	-0.6011u	-0.3421u
Al 308.215	86544.4	86761.4	86133.2
As 188.980	31.4080	36.6499	39.0972
B 249.678	-11.5053u	-9.6392u	-10.6685u
Ba 389.178	74.2411	75.9881	73.1572
Be 313.042	0.7558	0.7471	0.7491
Ca 370.602	1591u	1586u	1596u
Cd 226.502	-0.3756	-0.6192	-0.5632
Co 228.615	1.2942	2.6832	2.4959
Cr 267.716	122.942	123.248	122.517
Cu 324.754	30.8171	30.2056	30.7341
Fe 271.441	105082	105234	104515
K 766.491	687.944	687.281	681.020
Mg 279.078	678.380	688.264	673.375
Mn 257.610	97.4241	97.8562	97.2627
Mo 202.032	6.0157	6.2658	7.0122
Na 330.237	136.656u	290.590u	-112.268u
Ni 231.604	10.4781	10.1735	11.2487
Pb 220.353	40.2455	40.0403	38.8918
Sb 206.834	5.5843	-3.8106u	5.6701
Se 196.026	-3.7941u	9.6905	-5.8100u
Sn 189.925	12.9045	19.8723	11.2198
Sr 216.596	23.0118	23.5818	24.0887
Ti 334.941	570.298	571.037	567.646
Tl 190.794	6.1804	1.0219u	11.3249
V 292.401	266.580	267.833	265.324
Zn 206.200	81.8598	83.3574	80.7780

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.2659	ppb	0.3790	142.5	-74.4720
Al 308.215	86479.6	ppb	319.063	0.4	499779
As 188.980	35.7184	ppb	3.9284	11.0	21.7990
B 249.678	-10.6044	ppb	0.9347	8.8	-26.5794
Ba 389.178	74.4622	ppb	1.4284	1.9	1612.47
Be 313.042	0.7507	ppb	0.0046	0.6	1299.25
Ca 370.602	1591	ppb	4.798	0.3	-3400
Cd 226.502	-0.5193	ppb	0.1276	24.6	216.226
Co 228.615	2.1578	ppb	0.7537	34.9	51.5920
Cr 267.716	122.902	ppb	0.3670	0.3	5159.40
Cu 324.754	30.5856	ppb	0.3317	1.1	1612.38
Fe 271.441	104944	ppb	378.565	0.4	176628
K 766.491	685.415	ppb	3.8206	0.6	33113.3
Mg 279.078	680.007	ppb	7.5765	1.1	1424.21
Mn 257.610	97.5143	ppb	0.3069	0.3	22828.5
Mo 202.032	6.4312	ppb	0.5184	8.1	50.0776
Na 330.237	104.993	ppb	203.287	193.6	-35.0098
Ni 231.604	10.6334	ppb	0.5542	5.2	27.1338
Pb 220.353	39.7259	ppb	0.7296	1.8	65.8093
Sb 206.834	2.4812	ppb	5.4491	219.6	4.6813
Se 196.026	0.0288	ppb	8.4278	29235.8	0.2527
Sn 189.925	14.6655	ppb	4.5872	31.3	11.3847
Sr 216.596	23.5608	ppb	0.5388	2.3	267.952
Ti 334.941	569.660	ppb	1.7830	0.3	144161
Tl 190.794	6.1757	ppb	5.1515	83.4	-1.1733
V 292.401	266.579	ppb	1.2543	0.5	7308.45
Zn 206.200	81.9984	ppb	1.2953	1.6	128.229

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680-88580-a-52-b (Samp) 3/30/2013, 12:44:52 AM Rack 3, Tube 36

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.7167u	-0.2085u	-0.5203u
Al 308.215	17031.9	17106.3	17141.8
As 188.980	72.0868	69.4400	63.2803
B 249.678	1.4096u	1.7417u	0.0672u
Ba 389.178	663.084	668.125	665.250
Be 313.042	1.9169	1.9278	1.9368
Ca 370.602	8850	8886	8883
Cd 226.502	-0.1077	-0.3315	-0.3616
Co 228.615	22.1696	22.7444	22.9817
Cr 267.716	39.9423	39.8736	40.0524
Cu 324.754	214.190	212.298	211.205
Fe 271.441	68998.7	69213.6	69281.1
K 766.491	1930.71	1936.32	1927.34
Mg 279.078	1470.95	1479.63	1474.52
Mn 257.610	361.977	363.843	364.374
Mo 202.032	9.2464	9.4929	8.1191
Na 330.237	469.808u	265.459u	328.344u
Ni 231.604	56.2229	53.2786	57.1535
Pb 220.353	178.757	177.270	183.023
Sb 206.834	14.6802	5.2973	12.2034
Se 196.026	1.4662	7.4845	-7.9631u
Sn 189.925	49.6064	46.7706	48.4222
Sr 216.596	361.242	363.925	364.706
Ti 334.941	1206.14	1211.74	1213.10
Tl 190.794	11.4723	1.2482u	2.1653u
V 292.401	69.0074	69.0304	69.8090
Zn 206.200	116.917	118.724	117.296

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.4818	ppb	0.2563	53.2	-104.276
Al 308.215	17093.3	ppb	56.0929	0.3	98999.3
As 188.980	68.2691	ppb	4.5185	6.6	43.8336
B 249.678	1.0728	ppb	0.8866	82.6	116.229
Ba 389.178	665.486	ppb	2.5291	0.4	13862.9
Be 313.042	1.9272	ppb	0.0100	0.5	3576.29
Ca 370.602	8873	ppb	19.78	0.2	23141
Cd 226.502	-0.2669	ppb	0.1387	52.0	148.182
Co 228.615	22.6319	ppb	0.4176	1.8	302.950
Cr 267.716	39.9561	ppb	0.0902	0.2	1689.74
Cu 324.754	212.565	ppb	1.5101	0.7	10494.6
Fe 271.441	69164.5	ppb	147.458	0.2	116413
K 766.491	1931.46	ppb	4.5377	0.2	92889.6
Mg 279.078	1475.03	ppb	4.3604	0.3	3074.94
Mn 257.610	363.398	ppb	1.2594	0.3	83936.8
Mo 202.032	8.9528	ppb	0.7324	8.2	68.1566
Na 330.237	354.537	ppb	104.662	29.5	-16.7284
Ni 231.604	55.5517	ppb	2.0228	3.6	132.720
Pb 220.353	179.683	ppb	2.9863	1.7	292.704
Sb 206.834	10.7269	ppb	4.8625	45.3	8.7628
Se 196.026	0.3292	ppb	7.7863	2365.4	0.2557
Sn 189.925	48.2664	ppb	1.4243	3.0	36.5392
Sr 216.596	363.291	ppb	1.8168	0.5	3426.55
Ti 334.941	1210.33	ppb	3.6858	0.3	306336
Tl 190.794	4.9619	ppb	5.6568	114.0	-1.0784
V 292.401	69.2823	ppb	0.4563	0.7	1918.53
Zn 206.200	117.645	ppb	0.9528	0.8	183.600

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Cont Calib Verif (CCV) 3/30/2013, 12:50:19 AM Rack 3, Tube 37  
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	511.035	502.861	503.359
Al 308.215	5175.20	5178.97	5163.08
As 188.980	537.494	536.350	537.347
B 249.678	595.079	601.832	603.408
Ba 389.178	4646.61	4644.17	4601.83
Be 313.042	501.333	499.783	499.466
Ca 370.602	4881	4878	4870
Cd 226.502	488.415	490.308	487.259
Co 228.615	489.045	487.420	484.664
Cr 267.716	4874.73	4883.39	4891.80
Cu 324.754	4762.13	4692.06	4802.79
Fe 271.441	5247.28	5227.61	5221.43
K 766.491	10025.7	9999.38	9943.78
Mg 279.078	5227.26	5245.45	5219.88
Mn 257.610	4857.49	4863.85	4854.28
Mo 202.032	494.844	495.040	499.681
Na 330.237	7793.62	7975.05	7597.14
Ni 231.604	2439.90	2447.52	2447.21
Pb 220.353	499.387	506.219	502.074
Sb 206.834	1009.94	1014.33	1039.78
Se 196.026	5238.04	5261.16	5160.09
Sn 189.925	5155.33	5110.33	5149.09
Sr 216.596	2514.58	2519.29	2526.55
Ti 334.941	502.462	502.735	502.870
Tl 190.794	5054.88	5090.10	5074.74
V 292.401	5072.79	5070.53	5053.23
Zn 206.200	2490.12	2500.32	2480.64

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	505.751	ppb	4.5824	0.9	35873.5	101.15026
Al 308.215	5172.42	ppb	8.3051	0.2	30117.6	103.44831
As 188.980	537.064	ppb	0.6221	0.1	355.128	107.41270
B 249.678	600.106	ppb	4.4246	0.7	5787.27	24.00425Q
Ba 389.178	4630.87	ppb	25.1765	0.5	96185.0	92.61740
Be 313.042	500.194	ppb	0.9989	0.2	966535	100.03880
Ca 370.602	4876	ppb	5.855	0.1	15552	97.52550
Cd 226.502	488.661	ppb	1.5392	0.3	17502.8	97.73215
Co 228.615	487.043	ppb	2.2148	0.5	5587.95	97.40864
Cr 267.716	4883.31	ppb	8.5335	0.2	203999	97.66616
Cu 324.754	4752.33	ppb	56.0098	1.2	232230	95.04654
Fe 271.441	5232.11	ppb	13.5013	0.3	8931.15	104.64216
K 766.491	9989.63	ppb	41.8316	0.4	479464	99.89629
Mg 279.078	5230.86	ppb	13.1629	0.3	10748.0	104.61728
Mn 257.610	4858.54	ppb	4.8685	0.1	1118477	97.17083
Mo 202.032	496.522	ppb	2.7375	0.6	3188.51	99.30433
Na 330.237	7788.60	ppb	189.007	2.4	372.806	103.84806
Ni 231.604	2444.88	ppb	4.3138	0.2	5784.79	97.79517
Pb 220.353	502.560	ppb	3.4416	0.7	814.723	100.51199
Sb 206.834	1021.35	ppb	16.1101	1.6	660.559	102.13470
Se 196.026	5219.76	ppb	52.9558	1.0	1695.78	104.39529
Sn 189.925	5138.25	ppb	24.3801	0.5	3846.52	102.76500
Sr 216.596	2520.14	ppb	6.0261	0.2	23487.4	100.80567
Ti 334.941	502.689	ppb	0.2079	0.0	127211	100.53780
Tl 190.794	5073.24	ppb	17.6544	0.3	3313.44	101.46475
V 292.401	5065.52	ppb	10.7039	0.2	138394	101.31033
Zn 206.200	2490.36	ppb	9.8421	0.4	3838.04	99.61436

E03292013.vvq. All Data Report 3/30/2013, 8:54:32 AM

Cont Calib Blank (CCB) 3/30/2013, 12:55:46 AM Rack 3, Tube 38

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.3246u	-0.3576u	-0.9169u
Al 308.215	0.2592	-0.5150u	4.6335
As 188.980	-0.1241u	8.4648	-0.1387u
B 249.678	3.3372	2.1260	0.6508
Ba 389.178	-0.9282u	-1.5168u	0.5782
Be 313.042	-0.0633u	-0.0537u	-0.0554u
Ca 370.602	-3.934u	-1.725u	-7.447u
Cd 226.502	-0.0694u	-0.0903u	-0.0831u
Co 228.615	-0.5409u	-0.3939u	-0.0419u
Cr 267.716	-0.1936u	-0.0902u	-0.2037u
Cu 324.754	-0.1091u	-0.1723u	0.1310
Fe 271.441	14.4638	8.3987	11.2506
K 766.491	-0.9568u	-0.3104u	0.4400
Mg 279.078	3.6766	0.6898	4.6419
Mn 257.610	-0.1858u	-0.1569u	-0.1979u
Mo 202.032	0.0022	-0.3343u	0.6634
Na 330.237	56.2598	223.867	43.9397
Ni 231.604	0.9712	-0.2829u	0.7492
Pb 220.353	-3.3456u	-1.2097u	0.7807
Sb 206.834	-5.0780u	1.2069	6.7073
Se 196.026	23.3033	-5.1663u	-1.6484u
Sn 189.925	-7.4972u	2.0996	2.1108
Sr 216.596	-0.5028u	0.1372	0.3894
Ti 334.941	0.1558	0.1669	0.0784
Tl 190.794	9.9738	-7.4402u	11.0404
V 292.401	-0.0612u	-0.4923u	-0.1242u
Zn 206.200	0.2626	0.2578	-0.7393u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	-0.5330	ppb	0.3329	62.4	-94.4965	-0.53302
Al 308.215	1.4592	ppb	2.7761	190.2	274.858	1.45923
As 188.980	2.7340	ppb	4.9630	181.5	1.0618	2.73403
B 249.678	2.0380	ppb	1.3454	66.0	189.724	2.03797
Ba 389.178	-0.6223	ppb	1.0805	173.6	-16.4372	-0.62229
Be 313.042	-0.0575	ppb	0.0052	9.0	-259.522	-0.05746
Ca 370.602	-4.369	ppb	2.886	66.1	-21.46	-4.36888
Cd 226.502	-0.0809	ppb	0.0106	13.1	6.1363	-0.08092
Co 228.615	-0.3256	ppb	0.2564	78.8	11.8580	-0.32558
Cr 267.716	-0.1625	ppb	0.0628	38.6	-3.5463	-0.16250
Cu 324.754	-0.0502	ppb	0.1600	319.0	87.8166	-0.05016
Fe 271.441	11.3710	ppb	3.0343	26.7	22.3857	11.37102
K 766.491	-0.2757	ppb	0.6990	253.5	218.622	-0.27574
Mg 279.078	3.0027	ppb	2.0604	68.6	35.4353	3.00275
Mn 257.610	-0.1802	ppb	0.0211	11.7	51.4862	-0.18019
Mo 202.032	0.1104	ppb	0.5076	459.7	14.6420	0.11042
Na 330.237	108.022	ppb	100.513	93.0	1.6293	108.02210
Ni 231.604	0.4792	ppb	0.6692	139.7	1.1208	0.47917
Pb 220.353	-1.2582	ppb	2.0636	164.0	1.4751	-1.25819
Sb 206.834	0.9454	ppb	5.8970	623.7	1.5608	0.94542
Se 196.026	5.4962	ppb	15.5214	282.4	1.6090	5.49623
Sn 189.925	-1.0956	ppb	5.5440	506.0	-0.4114	-1.09558
Sr 216.596	0.0079	ppb	0.4599	5788.0	11.0407	0.00795
Ti 334.941	0.1337	ppb	0.0482	36.1	-27.7131	0.13370
Tl 190.794	4.5247	ppb	10.3756	229.3	1.2735	4.52465
V 292.401	-0.2259	ppb	0.2328	103.1	-0.6913	-0.22592
Zn 206.200	-0.0730	ppb	0.5770	790.5	1.56912	-0.07299

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mb 680-271088/1-a (Samp) 3/30/2013, 1:01:13 AM Rack 3, Tube 39

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.7319u	-0.5182u	0.7528
Al 308.215	5.5348	6.4879	3.1282
As 188.980	-4.8827u	-2.3750u	0.9356
B 249.678	-7.1749u	-7.3083u	-8.0066u
Ba 389.178	-0.1082u	-0.7561u	-0.1142u
Be 313.042	-0.0578u	-0.0551u	-0.0596u
Ca 370.602	6.945	20.62	14.40
Cd 226.502	-0.0283u	0.2955	0.1893
Co 228.615	0.5239	0.2614	-0.3434u
Cr 267.716	0.1907	-0.1395u	0.0533
Cu 324.754	-0.8510u	-0.4737u	-0.2167u
Fe 271.441	25.1882	11.9734	15.4819
K 766.491	7.7916	9.7251	7.8489
Mg 279.078	7.7105	5.2295	2.6433
Mn 257.610	-0.0436u	-0.0915u	-0.0659u
Mo 202.032	-0.2407u	-0.2805u	0.0980
Na 330.237	144.317	-34.0298u	225.020
Ni 231.604	-0.1184u	2.8852	1.4900
Pb 220.353	-1.1863u	-1.5793u	-2.5730u
Sb 206.834	-2.2977u	-1.7904u	1.9994
Se 196.026	15.5381	13.9111	-2.2655u
Sn 189.925	11.1309	8.9992	10.7004
Sr 216.596	0.4382	0.0952	-0.0224u
Ti 334.941	0.1682	0.1840	0.1628
Tl 190.794	1.7281	3.0302	4.8708
V 292.401	-0.1618u	-0.0512u	-0.1457u
Zn 206.200	0.3573	0.3562	0.8490

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1658	ppb	0.8026	484.2	-68.3712
Al 308.215	5.0503	ppb	1.7314	34.3	295.570
As 188.980	-2.1074	ppb	2.9184	138.5	-2.1476
B 249.678	-7.4966	ppb	0.4467	6.0	100.402
Ba 389.178	-0.3262	ppb	0.3724	114.2	-10.2835
Be 313.042	-0.0575	ppb	0.0022	3.9	-259.560
Ca 370.602	13.99	ppb	6.847	49.0	37.17
Cd 226.502	0.1521	ppb	0.1651	108.5	14.4885
Co 228.615	0.1473	ppb	0.4448	301.9	17.2618
Cr 267.716	0.0348	ppb	0.1659	476.0	4.6982
Cu 324.754	-0.5138	ppb	0.3190	62.1	65.1610
Fe 271.441	17.5478	ppb	6.8454	39.0	32.7707
K 766.491	8.4552	ppb	1.1002	13.0	637.472
Mg 279.078	5.1944	ppb	2.5338	48.8	39.9568
Mn 257.610	-0.0670	ppb	0.0240	35.8	77.5739
Mo 202.032	-0.1410	ppb	0.2079	147.4	13.0294
Na 330.237	111.769	ppb	132.556	118.6	1.8128
Ni 231.604	1.4189	ppb	1.5031	105.9	3.3444
Pb 220.353	-1.7795	ppb	0.7147	40.2	0.6338
Sb 206.834	-0.6963	ppb	2.3483	337.3	0.5495
Se 196.026	9.0612	ppb	9.8429	108.6	2.7668
Sn 189.925	10.2768	ppb	1.1272	11.0	8.1011
Sr 216.596	0.1703	ppb	0.2393	140.5	12.5724
Ti 334.941	0.1717	ppb	0.0110	6.4	-18.0936
Tl 190.794	3.2097	ppb	1.5790	49.2	0.4132
V 292.401	-0.1196	ppb	0.0598	50.0	2.2612
Zn 206.200	0.5208	ppb	0.2842	54.6	2.6093



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ics 680-271088/2-a (Samp)      3/30/2013, 1:06:40 AM      Rack 3, Tube 40  
 Weight: 1      Volume: 1      Dilution: 1

Label	Replicates Concentration		
Ag 328.068	34.2168	34.7586	34.1492
Al 308.215	4992.72	5020.12	4998.84
As 188.980	106.519	110.637	98.7579
B 249.678	201.888	203.979	204.996
Ba 389.178	99.1404	100.128	99.3839
Be 313.042	53.7655	54.1162	53.8256
Ca 370.602	4852	4889	4868
Cd 226.502	53.0993	53.3934	53.1614
Co 228.615	51.8373	53.0849	51.5119
Cr 267.716	105.497	106.409	105.968
Cu 324.754	100.453	101.739	99.0374
Fe 271.441	5201.05	5208.24	5177.20
K 766.491	4967.18	4972.94	4950.09
Mg 279.078	5250.34	5287.76	5271.90
Mn 257.610	527.783	530.325	527.961
Mo 202.032	100.747	101.098	101.118
Na 330.237	4732.45	4907.74	5306.65
Ni 231.604	101.911	104.053	101.295
Pb 220.353	49.3352	50.5566	52.1878
Sb 206.834	50.8551	41.8584	55.4063
Se 196.026	109.773	109.978	118.293
Sn 189.925	220.121	218.101	223.447
Sr 216.596	105.276	106.182	105.469
Ti 334.941	100.316	101.294	100.687
Tl 190.794	43.2759	50.5805	40.1330
V 292.401	103.006	103.880	103.421
Zn 206.200	106.237	111.009	107.049

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	34.3748	ppb	0.3340	1.0	2387.69
Al 308.215	5003.89	ppb	14.3813	0.3	29180.9
As 188.980	105.305	ppb	6.0320	5.7	69.0177
B 249.678	203.621	ppb	1.5844	0.8	2073.23
Ba 389.178	99.5508	ppb	0.5146	0.5	2070.38
Be 313.042	53.9024	ppb	0.1876	0.3	104035
Ca 370.602	4870	ppb	18.47	0.4	15292
Cd 226.502	53.2180	ppb	0.1550	0.3	1924.19
Co 228.615	52.1447	ppb	0.8303	1.6	610.573
Cr 267.716	105.958	ppb	0.4560	0.4	4432.15
Cu 324.754	100.410	ppb	1.3515	1.3	4998.95
Fe 271.441	5195.50	ppb	16.2494	0.3	8756.64
K 766.491	4963.40	ppb	11.8861	0.2	238341
Mg 279.078	5270.00	ppb	18.7814	0.4	10896.8
Mn 257.610	528.690	ppb	1.4189	0.3	121832
Mo 202.032	100.988	ppb	0.2087	0.2	660.971
Na 330.237	4982.28	ppb	294.266	5.9	249.344
Ni 231.604	102.420	ppb	1.4475	1.4	242.415
Pb 220.353	50.6932	ppb	1.4312	2.8	85.1704
Sb 206.834	49.3733	ppb	6.8944	14.0	31.6522
Se 196.026	112.681	ppb	4.8609	4.3	36.5241
Sn 189.925	220.556	ppb	2.6993	1.2	165.504
Sr 216.596	105.643	ppb	0.4771	0.5	994.816
Ti 334.941	100.766	ppb	0.4935	0.5	25468.4
Tl 190.794	44.6631	ppb	5.3601	12.0	26.8684
V 292.401	103.436	ppb	0.4373	0.4	2814.97
Zn 206.200	108.098	ppb	2.5533	2.4	168.642

E03292013.wvq. All Data Report 3/30/2013, 8:54:32 AM

ics 680-271088/3-a (Samp)      3/30/2013, 1:12:07 AM      Rack 3, Tube 41  
 Weight: 1      Volume: 1      Dilution: 1

Label	Replicates Concentration		
Ag 328.068	207.044	208.052	208.399
Al 308.215	2003.52	2017.11	2035.11
As 188.980	215.979	216.482	216.355
B 249.678	418.491	421.350	430.111
Ba 389.178	184.761	183.352	187.460
Be 313.042	213.732	215.117	217.210
Ca 370.602	19513	19658	19824
Cd 226.502	206.079	207.452	209.431
Co 228.615	201.058	203.817	204.497
Cr 267.716	206.668	209.032	210.255
Cu 324.754	203.362	203.606	203.983
Fe 271.441	21424.5	21512.2	21749.2
K 766.491	19625.7	19651.3	19816.8
Mg 279.078	21010.5	21103.2	21317.0
Mn 257.610	2096.98	2107.93	2128.51
Mo 202.032	201.242	202.778	201.967
Na 330.237	17774.0	18191.5	18323.3
Ni 231.604	204.706	205.081	207.685
Pb 220.353	204.160	204.780	202.026
Sb 206.834	184.056	198.020	193.699
Se 196.026	220.976	218.043	219.425
Sn 189.925	215.460	221.454	221.467
Sr 216.596	219.240	221.324	222.593
Ti 334.941	199.863	201.311	203.082
Tl 190.794	37.0688	46.6012	56.1286
V 292.401	203.221	204.414	206.526
Zn 206.200	198.899	198.533	198.307

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	207.832	ppb	0.7040	0.3	14731.5
Al 308.215	2018.58	ppb	15.8460	0.8	11948.7
As 188.980	216.272	ppb	0.2613	0.1	142.508
B 249.678	423.317	ppb	6.0546	1.4	4115.96
Ba 389.178	185.191	ppb	2.0873	1.1	3867.66
Be 313.042	215.353	ppb	1.7509	0.8	416124
Ca 370.602	19665	ppb	155.7	0.8	61681
Cd 226.502	207.654	ppb	1.6851	0.8	7484.76
Co 228.615	203.124	ppb	1.8209	0.9	2334.40
Cr 267.716	208.652	ppb	1.8234	0.9	8730.18
Cu 324.754	203.650	ppb	0.3129	0.2	10049.2
Fe 271.441	21562.0	ppb	168.002	0.8	36326.4
K 766.491	19698.0	ppb	103.741	0.5	945201
Mg 279.078	21143.5	ppb	157.206	0.7	43636.3
Mn 257.610	2111.14	ppb	16.0062	0.8	486217
Mo 202.032	201.996	ppb	0.7686	0.4	1307.64
Na 330.237	18096.3	ppb	286.783	1.6	917.913
Ni 231.604	205.824	ppb	1.6228	0.8	487.380
Pb 220.353	203.655	ppb	1.4443	0.7	332.272
Sb 206.834	191.925	ppb	7.1493	3.7	120.556
Se 196.026	219.481	ppb	1.4672	0.7	71.5289
Sn 189.925	219.460	ppb	3.4641	1.6	164.693
Sr 216.596	221.052	ppb	1.6928	0.8	2074.67
Ti 334.941	201.419	ppb	1.6120	0.8	51013.6
Tl 190.794	46.5995	ppb	9.5299	20.5	26.1207
V 292.401	204.721	ppb	1.6737	0.8	5565.82
Zn 206.200	198.580	ppb	0.2983	0.2	308.247

E03292013.vvq. All Data Report 3/30/2013, 8:54:32 AM

640-42856-a-1-a (Samp) 3/30/2013, 1:17:34 AM Rack 3, Tube 42

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	5.4119	5.6455	4.9538
Al 308.215	9081.74	9022.93	9112.52
As 188.980	11.9932	17.4351	13.2386
B 249.678	76.4278	76.5883	76.0951
Ba 389.178	382.624	379.019	382.932
Be 313.042	0.1801	0.1849	0.1855
Ca 370.602	20902	20780	21033
Cd 226.502	0.9939	0.5177	0.8672
Co 228.615	0.8784	-0.1806u	1.3906
Cr 267.716	35.0419	34.8948	35.2477
Cu 324.754	786.482	788.426	802.616
Fe 271.441	50007.7	49736.6	50301.8
K 766.491	1444.78	1436.41	1455.06
Mg 279.078	3893.70	3875.98	3913.41
Mn 257.610	226.135	224.695	227.219
Mo 202.032	8.5210	7.0066	7.8662
Na 330.237	571.172	764.050	347.071u
Ni 231.604	16.0813	17.9005	15.0767
Pb 220.353	13.9094	17.4751	17.2879
Sb 206.834	8.6047	-6.5030u	1.8530
Se 196.026	9.9874	-3.4030u	-1.8226u
Sn 189.925	49.3775	48.2589	51.4609
Sr 216.596	148.969	147.739	149.802
Ti 334.941	29.3912	29.5202	29.4387
Tl 190.794	1.1642u	-2.5833u	-2.8172u
V 292.401	20.7139	21.0190	21.1178
Zn 206.200	678.110	672.939	679.784

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	5.3371	ppb	0.3519	6.6	317.874
Al 308.215	9072.40	ppb	45.5173	0.5	52670.3
As 188.980	14.2223	ppb	2.8512	20.0	8.3231
B 249.678	76.3704	ppb	0.2516	0.3	839.400
Ba 389.178	381.525	ppb	2.1757	0.6	7954.36
Be 313.042	0.1835	ppb	0.0030	1.6	211.537
Ca 370.602	20905	ppb	126.7	0.6	63256
Cd 226.502	0.7930	ppb	0.2466	31.1	145.039
Co 228.615	0.6961	ppb	0.8013	115.1	22.4338
Cr 267.716	35.0615	ppb	0.1773	0.5	1479.15
Cu 324.754	792.508	ppb	8.8078	1.1	38822.6
Fe 271.441	50015.4	ppb	282.662	0.6	84180.2
K 766.491	1445.42	ppb	9.3412	0.6	69572.7
Mg 279.078	3894.36	ppb	18.7244	0.5	8069.22
Mn 257.610	226.017	ppb	1.2661	0.6	52276.6
Mo 202.032	7.7979	ppb	0.7595	9.7	61.6795
Na 330.237	560.764	ppb	208.684	37.2	4.6490
Ni 231.604	16.3529	ppb	1.4313	8.8	39.6155
Pb 220.353	16.2241	ppb	2.0068	12.4	29.5598
Sb 206.834	1.3182	ppb	7.5680	574.1	2.6510
Se 196.026	1.5873	ppb	7.3175	461.0	0.5686
Sn 189.925	49.6991	ppb	1.6251	3.3	37.6167
Sr 216.596	148.837	ppb	1.0381	0.7	1419.52
Ti 334.941	29.4500	ppb	0.0652	0.2	7415.01
Tl 190.794	-1.4121	ppb	2.2342	158.2	-4.4996
V 292.401	20.9502	ppb	0.2105	1.0	576.310
Zn 206.200	676.945	ppb	3.5682	0.5	1048.47

E03292013.vvq. All Data Report 3/30/2013, 8:54:32 AM

680-88650-a-17-a (Samp) 3/30/2013, 1:23:01 AM Rack 3, Tube 43

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	9.4941	10.2483	9.9311
Al 308.215	7600.06	7612.41	7555.16
As 188.980	46.8160	42.8551	46.9867
B 249.678	224.695	224.883	224.423
Ba 389.178	9714.89	9721.98	9653.36
Be 313.042	0.5480	0.5446	0.5392
Ca 370.602	390770	393867	390560
Cd 226.502	-1.6715	-2.2058	-2.1950
Co 228.615	1718.99	1734.37	1717.12
Cr 267.716	1552.23	1563.16	1546.07
Cu 324.754	236.541	241.705	237.093
Fe 271.441	573816	574347	569014
K 766.491	1941.97	1947.70	1937.69
Mg 279.078	11658.2	11713.5	11602.2
Mn 257.610	2191.51	2200.19	2181.57
Mo 202.032	22.6029	22.2577	22.9604
Na 330.237	-1435.94u	-1350.60u	-1294.18u
Ni 231.604	175.399	176.636	178.066
Pb 220.353	918.209	918.027	915.097
Sb 206.834	43.3436	36.2537	32.0303
Se 196.026	-48.3458u	-46.3680u	-28.5369u
Sn 189.925	66.3005	64.8281	66.0906
Sr 216.596	347.115	352.344	347.450
Ti 334.941	825.943	830.410	824.041
Tl 190.794	25.3686u	11.4276u	20.3887u
V 292.401	78.0296	78.3015	78.1106
Zn 206.200	3451.84	3456.50	3433.43

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	9.8912	ppb	0.3787	3.8	639.636
Al 308.215	7589.21	ppb	30.1284	0.4	44103.8
As 188.980	45.5526	ppb	2.3377	5.1	26.7856
B 249.678	224.667	ppb	0.2311	0.1	1741.25
Ba 389.178	9696.74	ppb	37.7394	0.4	201752
Be 313.042	0.5439	ppb	0.0044	0.8	1022.74
Ca 370.602	391732	ppb	1852	0.5	1215432
Cd 226.502	-2.0241	ppb	0.3054	15.1	1168.49
Co 228.615	1723.49	ppb	9.4689	0.5	19710.3
Cr 267.716	1553.82	ppb	8.6545	0.6	65047.3
Cu 324.754	238.446	ppb	2.8355	1.2	11904.7
Fe 271.441	572392	ppb	2937.91	0.5	963622
K 766.491	1942.45	ppb	5.0212	0.3	93417.0
Mg 279.078	11658.0	ppb	55.6514	0.5	24154.0
Mn 257.610	2191.09	ppb	9.3147	0.4	506070
Mo 202.032	22.6070	ppb	0.3514	1.6	133.414
Na 330.237	-1360.24	ppb	71.3670	5.2	-277.662
Ni 231.604	176.700	ppb	1.3348	0.8	428.757
Pb 220.353	917.111	ppb	1.7466	0.2	1483.41
Sb 206.834	37.2092	ppb	5.7169	15.4	41.1766
Se 196.026	-41.0836	ppb	10.9106	26.6	-10.9615
Sn 189.925	65.7397	ppb	0.7965	1.2	49.7536
Sr 216.596	348.970	ppb	2.9272	0.8	3503.21
Ti 334.941	826.798	ppb	3.2694	0.4	209343
Tl 190.794	19.0616	ppb	7.0646	37.1	-9.8958
V 292.401	78.1472	ppb	0.1396	0.2	2061.22
Zn 206.200	3447.26	ppb	12.1990	0.4	5227.71

E03292013.wvq. All Data Report 3/30/2013, 8:54:32 AM

680-88650-a-18-a (Samp) 3/30/2013, 1:28:28 AM Rack 3, Tube 44

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.1656	0.4516	0.1157
Al 308.215	3318.94	3313.74	3301.90
As 188.980	5.7258	2.3545	4.6002
B 249.678	-2.4088u	-0.8220u	-2.0698u
Ba 389.178	166.724	166.710	166.438
Be 313.042	-0.0226	-0.0271	-0.0240
Ca 370.602	168335	168348	167235
Cd 226.502	13.4406	13.1864	13.5219
Co 228.615	20.2169	18.9266	18.3185
Cr 267.716	41.1159	40.9627	41.1248
Cu 324.754	164.790	163.299	164.127
Fe 271.441	80035.8	79839.5	79797.1
K 766.491	293.838	293.650	294.447
Mg 279.078	6279.90	6271.70	6275.80
Mn 257.610	323.896	322.927	322.511
Mo 202.032	6.7056	6.6642	6.4553
Na 330.237	3520.32u	3288.02u	3198.61u
Ni 231.604	17.0974	19.2743	16.7324
Pb 220.353	19031.8	18992.6	18979.7
Sb 206.834	13.4675	5.3846	8.9300
Se 196.026	5.0741	20.8017	10.2149
Sn 189.925	19.0127	23.6291	20.9446
Sr 216.596	122.498	121.956	120.899
Ti 334.941	1105.08	1102.78	1103.96
Tl 190.794	2.8136u	1.2195u	9.6182
V 292.401	8.8139	9.0187	9.2080
Zn 206.200	36936.9x	36811.2x	36761.9x

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.2443b	ppb	0.1813	74.2	-43.4275
Al 308.215	3311.53b	ppb	8.7296	0.3	19394.8
As 188.980	4.2268b	ppb	1.7164	40.6	2.7160
B 249.678	-1.7668b	ppb	0.8356	47.3	79.5869
Ba 389.178	166.624b	ppb	0.1616	0.1	3512.09
Be 313.042	-0.0245b	ppb	0.0023	9.3	-140.334
Ca 370.602	167973b	ppb	638.9	0.4	534911
Cd 226.502	13.3830b	ppb	0.1750	1.3	660.046
Co 228.615	19.1540b	ppb	0.9694	5.1	260.090
Cr 267.716	41.0678b	ppb	0.0912	0.2	1737.69
Cu 324.754	164.072b	ppb	0.7473	0.5	8129.12
Fe 271.441	79890.8b	ppb	127.351	0.2	134464
K 766.491	293.978b	ppb	0.4162	0.1	14334.9
Mg 279.078	6275.80b	ppb	4.1025	0.1	12989.6
Mn 257.610	323.112b	ppb	0.7107	0.2	74723.1
Mo 202.032	6.6084b	ppb	0.1342	2.0	52.7509
Na 330.237	3335.65b	ppb	166.061	5.0	-140.936
Ni 231.604	17.7014b	ppb	1.3744	7.8	43.3926
Pb 220.353	19001.4b	ppb	27.1357	0.1	30679.2
Sb 206.834	9.2607b	ppb	4.0516	43.8	8.0210
Se 196.026	12.0302b	ppb	8.0194	66.7	4.0906
Sn 189.925	21.1954b	ppb	2.3184	10.9	16.3349
Sr 216.596	121.785b	ppb	0.8129	0.7	1190.69
Ti 334.941	1103.94b	ppb	1.1481	0.1	279426
Tl 190.794	4.5504b	ppb	4.4606	98.0	-1.6903
V 292.401	9.0135b	ppb	0.1971	2.2	266.298
Zn 206.200	36836.7xb	ppb	90.1878	0.2	56963.1

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680-88650-a-19-a (Samp) 3/30/2013, 1:34:06 AM Rack 3, Tube 45

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.1286	2.7752	2.6957
Al 308.215	957.074	962.033	953.909
As 188.980	0.2220	1.5914	1.8290
B 249.678	1.6453u	2.8030u	2.8008u
Ba 389.178	1617.82	1616.61	1615.61
Be 313.042	0.0661	0.0683	0.0656
Ca 370.602	39600	39619	39521
Cd 226.502	-0.0990	-0.0701	-0.1473
Co 228.615	247.828	248.124	246.231
Cr 267.716	15.7291	15.3374	15.3755
Cu 324.754	29.9655	31.7074	32.7293
Fe 271.441	37775.6	37781.2	37743.3
K 766.491	153.892	152.495	153.626
Mg 279.078	1670.66	1667.39	1652.57
Mn 257.610	122.153	122.048	121.878
Mo 202.032	0.9945	0.6562	3.0374
Na 330.237	-274.131u	75.5616u	-295.588u
Ni 231.604	11.6914	13.5079	10.9818
Pb 220.353	69.0294	61.8781	64.1158
Sb 206.834	-0.8448	1.6632	0.0869
Se 196.026	-25.9104u	12.7209	-12.0592u
Sn 189.925	25.3603	27.5082	28.3932
Sr 216.596	39.3645	38.2327	38.6150
Ti 334.941	74.4229	74.4181	74.1956
Tl 190.794	8.8031	3.2566	0.9236u
V 292.401	10.0722	9.6722	9.3179
Zn 206.200	463.165	460.333	460.452

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	1.8665	ppb	1.5056	80.7	74.9703
Al 308.215	957.672	ppb	4.0949	0.4	5798.07
As 188.980	1.2141	ppb	0.8674	71.4	0.0045
B 249.678	2.4164	ppb	0.6677	27.6	158.018
Ba 389.178	1616.68	ppb	1.1055	0.1	33596.0
Be 313.042	0.0666	ppb	0.0014	2.1	-7.3275
Ca 370.602	39580	ppb	51.88	0.1	124444
Cd 226.502	-0.1055	ppb	0.0390	37.0	86.5918
Co 228.615	247.394	ppb	1.0183	0.4	2842.33
Cr 267.716	15.4806	ppb	0.2160	1.4	658.272
Cu 324.754	31.4674	ppb	1.3974	4.4	1638.46
Fe 271.441	37766.7	ppb	20.4397	0.1	63603.8
K 766.491	153.338	ppb	0.7414	0.5	7587.92
Mg 279.078	1663.54	ppb	9.6389	0.6	3467.01
Mn 257.610	122.026	ppb	0.1390	0.1	28294.1
Mo 202.032	1.5627	ppb	1.2883	82.4	22.2639
Na 330.237	-164.719	ppb	208.366	126.5	-27.7680
Ni 231.604	12.0604	ppb	1.3028	10.8	29.2284
Pb 220.353	65.0077	ppb	3.6581	5.6	108.343
Sb 206.834	0.3018	ppb	1.2678	420.1	1.7792
Se 196.026	-8.4163	ppb	19.5716	232.5	-2.7441
Sn 189.925	27.0872	ppb	1.5597	5.8	20.6984
Sr 216.596	38.7374	ppb	0.5757	1.5	389.330
Ti 334.941	74.3456	ppb	0.1299	0.2	18769.2
Tl 190.794	4.3278	ppb	4.0475	93.5	-0.1501
V 292.401	9.6874	ppb	0.3774	3.9	270.852
Zn 206.200	461.317	ppb	1.6019	0.3	575.102

E03292013.wvq. All Data Report 3/30/2013, 8:54:32 AM

680-88650-a-20-a (Samp)      3/30/2013, 1:39:34 AM      Rack 3, Tube 46  
 Weight: 1      Volume: 1      Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.1512	-0.9952u	0.0098u
Al 308.215	1648.68	1640.14	1650.39
As 188.980	-3.8473u	2.2276	5.3087
B 249.678	-10.4005u	-9.4194u	-10.1717u
Ba 389.178	70.5807	71.3269	70.1029
Be 313.042	-0.0158	-0.0199	-0.0128
Ca 370.602	131948	132038	131876
Cd 226.502	4.7650	4.5286	4.6518
Co 228.615	9.2210	8.1832	9.0912
Cr 267.716	26.7294	26.1943	26.6027
Cu 324.754	117.804	116.056	116.703
Fe 271.441	49059.8	48948.5	48959.1
K 766.491	172.090	172.015	173.446
Mg 279.078	3571.65	3562.68	3556.88
Mn 257.610	145.609	145.411	146.227
Mo 202.032	4.0578	4.4670	4.5592
Na 330.237	1210.65u	1263.73u	1350.67u
Ni 231.604	10.6180	10.3205	11.1023
Pb 220.353	10867.1	10830.8	10802.5
Sb 206.834	2.8378	5.7581	4.0267
Se 196.026	1.0283	6.5438	18.1763
Sn 189.925	16.7277	16.7697	8.3943
Sr 216.596	88.9753	88.6291	89.1825
Ti 334.941	532.725	531.768	530.750
Tl 190.794	8.5417	0.7857u	2.3150u
V 292.401	3.9454	4.3149	4.1947
Zn 206.200	13337.7	13287.2	13328.0

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.2781	ppb	0.6250	224.8	-79.8625
Al 308.215	1646.40	ppb	5.4912	0.3	9776.68
As 188.980	1.2297	ppb	4.6588	378.9	0.7377
B 249.678	-9.9972	ppb	0.5133	5.1	31.2894
Ba 389.178	70.6702	ppb	0.6169	0.9	1497.89
Be 313.042	-0.0162	ppb	0.0036	22.0	-135.718
Ca 370.602	131954	ppb	81.58	0.1	421272
Cd 226.502	4.6485	ppb	0.1183	2.5	280.952
Co 228.615	8.8318	ppb	0.5655	6.4	128.477
Cr 267.716	26.5088	ppb	0.2796	1.1	1121.97
Cu 324.754	116.854	ppb	0.8834	0.8	5813.37
Fe 271.441	48989.1	ppb	61.4097	0.1	82454.5
K 766.491	172.517	ppb	0.8056	0.5	8508.00
Mg 279.078	3563.73	ppb	7.4409	0.2	7390.12
Mn 257.610	145.749	ppb	0.4256	0.3	33797.5
Mo 202.032	4.3613	ppb	0.2669	6.1	39.7197
Na 330.237	1275.02	ppb	70.6872	5.5	-56.9807
Ni 231.604	10.6803	ppb	0.3946	3.7	26.1832
Pb 220.353	10833.5	ppb	32.4070	0.3	17493.0
Sb 206.834	4.2075	ppb	1.4686	34.9	4.3928
Se 196.026	8.5828	ppb	8.7539	102.0	2.8234
Sn 189.925	13.9639	ppb	4.8235	34.5	10.9098
Sr 216.596	88.9290	ppb	0.2796	0.3	869.996
Ti 334.941	531.748	ppb	0.9876	0.2	134566
Tl 190.794	3.8808	ppb	4.1082	105.9	-0.9271
V 292.401	4.1517	ppb	0.1884	4.5	125.306
Zn 206.200	13317.6	ppb	26.8135	0.2	20595.1

E03292013.wvq. All Data Report 3/30/2013, 8:54:32 AM

680-88697-a-1-a (Samp)                      3/30/2013, 1:45:11 AM                      Rack 3, Tube 47  
 Weight: 1                                      Volume: 1                                      Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-1.2756u	-2.2737u	-1.4614u
Al 308.215	6250.22	6253.82	6239.62
As 188.980	16.6795	9.1639	15.1528
B 249.678	8.5700	9.0985	9.6647
Ba 389.178	14.2061	12.4851	14.3730
Be 313.042	1.0579	1.0563	1.0543
Ca 370.602	50443	50427	50376
Cd 226.502	0.8990	0.8504	0.8426
Co 228.615	2.9736	3.6227	2.9929
Cr 267.716	36.5618	36.1390	36.2885
Cu 324.754	5.5179	5.3732	5.7808
Fe 271.441	11729.7	11733.1	11736.9
K 766.491	971.523	970.382	974.281
Mg 279.078	4299.57	4312.92	4297.60
Mn 257.610	147.980	147.863	147.933
Mo 202.032	1.5280	0.6983	0.1506
Na 330.237	5648.69	5736.77	5260.34
Ni 231.604	5.8686	4.8466	5.0529
Pb 220.353	10.0967	14.4405	12.1282
Sb 206.834	-5.7022u	0.3746	-15.1189u
Se 196.026	-9.1009u	11.1070	3.1901
Sn 189.925	13.0017	13.2242	10.4601
Sr 216.596	388.934	389.613	388.806
Ti 334.941	428.848	428.834	427.520
Tl 190.794	-0.6517u	4.5170	4.2314
V 292.401	17.7507	18.4770	18.4502
Zn 206.200	35.2158	36.8988	36.6941

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.6702	ppb	0.5308	31.8	-190.923
Al 308.215	6247.89	ppb	7.3793	0.1	36354.7
As 188.980	13.6654	ppb	3.9724	29.1	8.6421
B 249.678	9.1111	ppb	0.5475	6.0	245.039
Ba 389.178	13.6881	ppb	1.0451	7.6	290.472
Be 313.042	1.0562	ppb	0.0018	0.2	1910.17
Ca 370.602	50415	ppb	34.67	0.1	161569
Cd 226.502	0.8640	ppb	0.0306	3.5	65.2104
Co 228.615	3.1964	ppb	0.3693	11.6	62.8285
Cr 267.716	36.3298	ppb	0.2144	0.6	1524.74
Cu 324.754	5.5573	ppb	0.2066	3.7	364.989
Fe 271.441	11733.2	ppb	3.5997	0.0	19751.4
K 766.491	972.062	ppb	2.0049	0.2	46864.5
Mg 279.078	4303.36	ppb	8.3344	0.2	8908.62
Mn 257.610	147.925	ppb	0.0589	0.0	34200.1
Mo 202.032	0.7923	ppb	0.6935	87.5	18.4634
Na 330.237	5548.60	ppb	253.491	4.6	274.521
Ni 231.604	5.2560	ppb	0.5405	10.3	12.6442
Pb 220.353	12.2218	ppb	2.1734	17.8	22.9299
Sb 206.834	-6.8155	ppb	7.8065	114.5	-2.8503
Se 196.026	1.7321	ppb	10.1826	587.9	0.4558
Sn 189.925	12.2287	ppb	1.5357	12.6	9.5829
Sr 216.596	389.118	ppb	0.4335	0.1	3651.99
Ti 334.941	428.401	ppb	0.7629	0.2	108403
Tl 190.794	2.6989	ppb	2.9052	107.6	-0.4492
V 292.401	18.2260	ppb	0.4119	2.3	509.257
Zn 206.200	36.2696	ppb	0.9183	2.5	575.7797



E03292013.wvq. All Data Report 3/30/2013, 8:54:32 AM

**680-88697-a-1-aSD^5 (Samp)**      **3/30/2013, 1:50:39 AM**      **Rack 3, Tube 48****Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.7731u	-0.9665u	-0.8705u
Al 308.215	1275.61	1279.46	1280.75
As 188.980	2.9172	2.8848	0.2725
B 249.678	-7.3099u	-7.8937u	-7.9315u
Ba 389.178	2.4429	2.6353	3.5491
Be 313.042	0.1544	0.1715	0.1668
Ca 370.602	10302	10361	10332
Cd 226.502	0.1056	0.1358	0.1571
Co 228.615	-0.4570u	1.0796	0.9635
Cr 267.716	7.2905	7.4195	7.1411
Cu 324.754	0.9779	0.7677	0.5946
Fe 271.441	2421.34	2441.64	2442.31
K 766.491	192.167	193.097	194.163
Mg 279.078	899.164	891.041	891.471
Mn 257.610	30.2084	30.4882	30.3717
Mo 202.032	-0.2951u	-0.7270u	-0.4293u
Na 330.237	1436.64	1188.22	1235.62
Ni 231.604	1.3994	0.4017	0.8017
Pb 220.353	2.6016	1.5646	1.0082
Sb 206.834	-9.0937u	4.3937	0.7602
Se 196.026	11.3609	7.8236	19.6169
Sn 189.925	3.1653	0.2884	-4.8583u
Sr 216.596	79.5611	80.7459	80.1327
Ti 334.941	88.1602	88.5798	88.6605
Tl 190.794	-1.5888u	-1.4247u	2.8692
V 292.401	3.4870	3.7101	3.1276
Zn 206.200	6.3440	8.5519	8.5043

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.8700	ppb	0.0967	11.1	-121.684
Al 308.215	1278.61	ppb	2.6743	0.2	7651.65
As 188.980	2.0249	ppb	1.5176	75.0	0.6601
B 249.678	-7.7117	ppb	0.3485	4.5	96.1291
Ba 389.178	2.8758	ppb	0.5910	20.6	58.2156
Be 313.042	0.1643	ppb	0.0089	5.4	172.685
Ca 370.602	10331	ppb	29.41	0.3	33102
Cd 226.502	0.1328	ppb	0.0259	19.5	19.0108
Co 228.615	0.5287	ppb	0.8556	161.8	23.8609
Cr 267.716	7.2837	ppb	0.1393	1.9	308.310
Cu 324.754	0.7801	ppb	0.1920	24.6	129.024
Fe 271.441	2435.10	ppb	11.9195	0.5	4101.82
K 766.491	193.143	ppb	0.9989	0.5	9497.47
Mg 279.078	893.892	ppb	4.5704	0.5	1873.67
Mn 257.610	30.3561	ppb	0.1405	0.5	7092.28
Mo 202.032	-0.4838	ppb	0.2210	45.7	10.7192
Na 330.237	1286.82	ppb	131.887	10.2	60.8223
Ni 231.604	0.8676	ppb	0.5021	57.9	2.0856
Pb 220.353	1.7248	ppb	0.8087	46.9	6.2285
Sb 206.834	-1.3133	ppb	6.9787	531.4	0.2505
Se 196.026	12.9338	ppb	6.0519	46.8	4.0387
Sn 189.925	-0.4682	ppb	4.0650	868.2	0.0625
Sr 216.596	80.1466	ppb	0.5925	0.7	760.949
Ti 334.941	88.4669	ppb	0.2686	0.3	22336.9
Tl 190.794	-0.0481	ppb	2.5278	5258.0	-1.8263
V 292.401	3.4416	ppb	0.2939	8.5	100.858
Zn 206.200	7.8000	ppb	1.2612	16.2	12.8432

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Cont Calib Verif (CCV) 3/30/2013, 1:56:06 AM Rack 3, Tube 49  
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	502.470	503.746	500.888
Al 308.215	5170.97	5135.01	5155.04
As 188.980	552.480	546.210	547.708
B 249.678	596.833	596.325	605.833
Ba 389.178	4616.57	4583.51	4606.15
Be 313.042	500.914	498.769	501.521
Ca 370.602	4862	4834	4867
Cd 226.502	488.356	483.974	485.679
Co 228.615	486.062	483.712	485.189
Cr 267.716	4892.65	4873.47	4887.52
Cu 324.754	4651.77	4661.10	4617.33
Fe 271.441	5225.12	5178.97	5213.05
K 766.491	9948.93	9914.25	9970.69
Mg 279.078	5246.49	5206.97	5232.71
Mn 257.610	4846.12	4824.34	4838.29
Mo 202.032	495.492	493.021	496.280
Na 330.237	7756.99	7479.73	7864.70
Ni 231.604	2451.47	2433.46	2439.45
Pb 220.353	507.419	498.831	499.042
Sb 206.834	1017.05	1032.66	1029.93
Se 196.026	5214.01	5166.49	5206.23
Sn 189.925	5155.37	5125.72	5153.08
Sr 216.596	2520.27	2510.15	2521.25
Ti 334.941	501.251	499.267	502.023
Tl 190.794	5069.10	5017.09	5046.09
V 292.401	5053.53	5032.05	5054.34
Zn 206.200	2497.92	2468.90	2477.40

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	502.368	ppb	1.4314	0.3	35633.2	100.47357
Al 308.215	5153.67	ppb	18.0152	0.3	30009.4	103.07345
As 188.980	548.800	ppb	3.2745	0.6	362.909	109.75991
B 249.678	599.664	ppb	5.3491	0.9	5783.16	23.98655Q
Ba 389.178	4602.08	ppb	16.9024	0.4	95587.0	92.04156
Be 313.042	500.401	ppb	1.4460	0.3	966937	100.08022
Ca 370.602	4854	ppb	17.65	0.4	15482	97.08438
Cd 226.502	486.003	ppb	2.2085	0.5	17407.7	97.20060
Co 228.615	484.988	ppb	1.1877	0.2	5564.42	96.99758
Cr 267.716	4884.55	ppb	9.9320	0.2	204051	97.69096
Cu 324.754	4643.40	ppb	23.0529	0.5	226908	92.86801
Fe 271.441	5205.71	ppb	23.9342	0.5	8886.36	104.11427
K 766.491	9944.62	ppb	28.4689	0.3	477305	99.44624
Mg 279.078	5228.72	ppb	20.0620	0.4	10743.9	104.57449
Mn 257.610	4836.25	ppb	11.0328	0.2	1113347	96.72505
Mo 202.032	494.931	ppb	1.7000	0.3	3178.35	98.98621
Na 330.237	7700.47	ppb	198.611	2.6	368.369	102.67300
Ni 231.604	2441.46	ppb	9.1718	0.4	5776.70	97.65848
Pb 220.353	501.764	ppb	4.8984	1.0	813.440	100.35284
Sb 206.834	1026.54	ppb	8.3373	0.8	663.692	102.65446
Se 196.026	5195.58	ppb	25.4893	0.5	1687.93	103.91155
Sn 189.925	5144.72	ppb	16.5006	0.3	3851.36	102.89449
Sr 216.596	2517.22	ppb	6.1470	0.2	23460.3	100.68889
Ti 334.941	500.847	ppb	1.4219	0.3	126745	100.16939
Tl 190.794	5044.10	ppb	26.0637	0.5	3294.40	100.88190
V 292.401	5046.64	ppb	12.6446	0.3	137878	100.93285
Zn 206.200	2481.41	ppb	14.9192	0.6	3824.25	99.25639

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Cont Calib Blank (CCB)                      3/30/2013, 2:01:33 AM                      Rack 3, Tube 50  
 Weight: 1    Volume: 1    Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.3188u	-0.2749u	-0.7724u
Al 308.215	4.8568	-0.5748u	-0.3811u
As 188.980	2.5374	-2.4039u	-0.9024u
B 249.678	3.1798	1.6833	0.1395
Ba 389.178	0.3122	-0.2284u	0.4986
Be 313.042	-0.0643u	-0.0606u	-0.0480u
Ca 370.602	-4.087u	-0.6824u	-3.973u
Cd 226.502	0.0767	0.2676	0.1894
Co 228.615	-0.4850u	-0.0439u	-0.9106u
Cr 267.716	-0.2274u	0.1625	0.2325
Cu 324.754	-0.5401u	-0.2829u	-1.1132u
Fe 271.441	6.6138	-0.9747u	4.3682
K 766.491	-0.2255u	-0.6699u	-0.2414u
Mg 279.078	0.3498	6.4861	0.9333
Mn 257.610	-0.1724u	-0.2834u	-0.1625u
Mo 202.032	0.7828	0.2831	0.3058
Na 330.237	52.0680	126.680	-0.7918u
Ni 231.604	-0.3877u	0.2799	0.3633
Pb 220.353	-5.0354u	-0.8325u	-0.3187u
Sb 206.834	10.1174	6.8910	-3.2504u
Se 196.026	13.2363	1.1426	5.6224
Sn 189.925	1.5755	-1.7181u	0.5350
Sr 216.596	-0.6019u	1.0135	-0.0715u
Ti 334.941	0.1875	-0.0623u	-0.0025u
Tl 190.794	4.2941	3.5413	6.0729
V 292.401	0.6493	-0.0704u	0.1994
Zn 206.200	0.6064	0.6749	0.5469

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	-0.4554	ppb	0.2755	60.5	-88.9643	-0.45540
Al 308.215	1.3003	ppb	3.0816	237.0	273.972	1.30030
As 188.980	-0.2563	ppb	2.5332	988.4	-0.9206	-0.25630
B 249.678	1.6675	ppb	1.5202	91.2	186.257	1.66752
Ba 389.178	0.1941	ppb	0.3776	194.5	0.5173	0.19411
Be 313.042	-0.0576	ppb	0.0085	14.8	-259.945	-0.05765
Ca 370.602	-2.914	ppb	1.934	66.4	-16.50	-2.91409
Cd 226.502	0.1779	ppb	0.0960	54.0	15.3875	0.17788
Co 228.615	-0.4798	ppb	0.4334	90.3	10.0832	-0.47983
Cr 267.716	0.0559	ppb	0.2478	443.6	5.5714	0.05586
Cu 324.754	-0.6454	ppb	0.4251	65.9	58.7383	-0.64541
Fe 271.441	3.3358	ppb	3.8982	116.9	8.9343	3.33576
K 766.491	-0.3789	ppb	0.2521	66.5	213.671	-0.37894
Mg 279.078	2.5897	ppb	3.3869	130.8	34.5828	2.58972
Mn 257.610	-0.2061	ppb	0.0671	32.6	45.5110	-0.20611
Mo 202.032	0.4572	ppb	0.2822	61.7	16.8647	0.45722
Na 330.237	59.3188	ppb	64.0446	108.0	-0.8816	59.31882
Ni 231.604	0.0851	ppb	0.4116	483.4	0.1884	0.08515
Pb 220.353	-2.0622	ppb	2.5877	125.5	0.1766	-2.06220
Sb 206.834	4.5860	ppb	6.9756	152.1	3.8087	4.58599
Se 196.026	6.6671	ppb	6.1141	91.7	1.9892	6.66708
Sn 189.925	0.1308	ppb	1.6836	1287.5	0.5066	0.13077
Sr 216.596	0.1134	ppb	0.8234	726.3	12.0375	0.11337
Ti 334.941	0.0409	ppb	0.1304	319.1	-51.2133	0.04088
Tl 190.794	4.6361	ppb	1.3000	28.0	1.3468	4.63611
V 292.401	0.2594	ppb	0.3636	140.2	12.5406	0.25943
Zn 206.200	0.6094	ppb	0.6411	105.1	2.7462	0.60937

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**680-88697-a-1-aPDS (Samp)**      **3/30/2013, 2:07:00 AM**      **Rack 3, Tube 51****Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	47.3780	45.9418	46.3783
Al 308.215	8040.55	8059.86	8048.85
As 188.980	2145.72	2151.14	2145.98
B 249.678	1131.70	1141.86	1151.26
Ba 389.178	1907.53	1903.38	1910.42
Be 313.042	51.9229	52.0711	51.9705
Ca 370.602	54353	54433	54256
Cd 226.502	50.4728	50.6768	50.6230
Co 228.615	499.711	502.465	503.909
Cr 267.716	235.700	236.376	234.375
Cu 324.754	249.002	245.940	246.622
Fe 271.441	12492.5	12488.0	12491.2
K 766.491	6226.03	6250.81	6252.18
Mg 279.078	9644.95	9638.65	9615.36
Mn 257.610	647.684	648.406	646.742
Mo 202.032	514.273	519.101	514.789
Na 330.237	10424.3	10396.0	10222.7
Ni 231.604	487.236	489.990	490.757
Pb 220.353	493.892	495.012	489.624
Sb 206.834	457.761	462.389	463.179
Se 196.026	2012.01	2015.06	2033.15
Sn 189.925	1063.68	1073.46	1056.55
Sr 216.596	905.944	911.582	902.846
Ti 334.941	1428.14	1434.85	1427.20
Tl 190.794	1975.08	1985.15	1968.31
V 292.401	508.671	510.171	509.277
Zn 206.200	539.186	534.299	532.555

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	46.5660	ppb	0.7363	1.6	3224.53
Al 308.215	8049.76	ppb	9.6867	0.1	46821.5
As 188.980	2147.61	ppb	3.0599	0.1	1423.16
B 249.678	1141.61	ppb	9.7796	0.9	10853.1
Ba 389.178	1907.11	ppb	3.5394	0.2	39617.8
Be 313.042	51.9882	ppb	0.0757	0.1	100269
Ca 370.602	54347	ppb	88.39	0.2	174381
Cd 226.502	50.5909	ppb	0.1057	0.2	1845.99
Co 228.615	502.028	ppb	2.1328	0.4	5770.24
Cr 267.716	235.484	ppb	1.0181	0.4	9844.58
Cu 324.754	247.188	ppb	1.6076	0.7	12179.0
Fe 271.441	12490.6	ppb	2.3440	0.0	21108.5
K 766.491	6243.01	ppb	14.7162	0.2	299727
Mg 279.078	9632.99	ppb	15.5869	0.2	19899.9
Mn 257.610	647.611	ppb	0.8345	0.1	149251
Mo 202.032	516.054	ppb	2.6507	0.5	3320.99
Na 330.237	10347.6	ppb	109.156	1.1	509.703
Ni 231.604	489.328	ppb	1.8518	0.4	1158.00
Pb 220.353	492.843	ppb	2.8431	0.6	797.577
Sb 206.834	461.110	ppb	2.9271	0.6	283.653
Se 196.026	2020.08	ppb	11.4252	0.6	656.009
Sn 189.925	1064.57	ppb	8.4894	0.8	797.286
Sr 216.596	906.791	ppb	4.4294	0.5	8461.99
Ti 334.941	1430.06	ppb	4.1703	0.3	361987
Tl 190.794	1976.18	ppb	8.4714	0.4	1290.05
V 292.401	509.373	ppb	0.7547	0.1	13868.8
Zn 206.200	535.347	ppb	3.4375	0.6	828.917

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**680-88697-a-1-b ms (Samp) 3/30/2013, 2:12:28 AM Rack 3, Tube 52****Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	10.2777	8.7857	9.5365
Al 308.215	8468.33	8472.09	8461.99
As 188.980	101.148	105.737	106.056
B 249.678	218.198	216.834	216.708
Ba 389.178	92.3870	92.2957	91.0060
Be 313.042	46.0697	46.1400	45.9679
Ca 370.602	62780	62872	62602
Cd 226.502	44.5836	45.1212	44.6632
Co 228.615	45.7983	45.8277	45.3564
Cr 267.716	124.163	124.440	123.259
Cu 324.754	84.7007	86.2258	87.0143
Fe 271.441	15557.7	15560.1	15567.0
K 766.491	5245.01	5256.20	5261.77
Mg 279.078	8530.91	8539.58	8501.76
Mn 257.610	565.633	565.776	564.448
Mo 202.032	84.7278	84.0851	84.3480
Na 330.237	9940.57	9732.18	9467.70
Ni 231.604	88.7010	88.8270	85.8208
Pb 220.353	53.2506	52.9202	53.9769
Sb 206.834	38.1776	46.6010	35.4139
Se 196.026	83.7224	85.1199	86.1521
Sn 189.925	178.323	176.703	179.982
Sr 216.596	518.096	518.771	516.268
Ti 334.941	520.339	520.626	518.146
Tl 190.794	34.3247	35.8371	32.8870
V 292.401	104.567	103.958	104.043
Zn 206.200	119.154	118.573	120.392

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	9.5333	ppb	0.7460	7.8	603.130
Al 308.215	8467.47	ppb	5.1019	0.1	49184.8
As 188.980	104.313	ppb	2.7461	2.6	68.7843
B 249.678	217.247	ppb	0.8267	0.4	2191.22
Ba 389.178	91.8962	ppb	0.7723	0.8	1919.65
Be 313.042	46.0592	ppb	0.0865	0.2	88895.1
Ca 370.602	62751	ppb	137.6	0.2	201037
Cd 226.502	44.7893	ppb	0.2901	0.6	1644.93
Co 228.615	45.6608	ppb	0.2640	0.6	547.614
Cr 267.716	123.954	ppb	0.6176	0.5	5187.15
Cu 324.754	85.9803	ppb	1.1762	1.4	4296.54
Fe 271.441	15561.6	ppb	4.8572	0.0	26202.0
K 766.491	5254.33	ppb	8.5323	0.2	252297
Mg 279.078	8524.08	ppb	19.8124	0.2	17613.0
Mn 257.610	565.286	ppb	0.7292	0.1	130304
Mo 202.032	84.3870	ppb	0.3231	0.4	554.083
Na 330.237	9713.48	ppb	236.989	2.4	486.386
Ni 231.604	87.7829	ppb	1.7004	1.9	207.979
Pb 220.353	53.3826	ppb	0.5406	1.0	89.2589
Sb 206.834	40.0642	ppb	5.8273	14.5	26.2442
Se 196.026	84.9981	ppb	1.2194	1.4	27.5796
Sn 189.925	178.336	ppb	1.6394	0.9	133.924
Sr 216.596	517.712	ppb	1.2949	0.3	4851.08
Ti 334.941	519.704	ppb	1.3564	0.3	131533
Tl 190.794	34.3496	ppb	1.4752	4.3	19.7426
V 292.401	104.189	ppb	0.3296	0.3	2844.23
Zn 206.200	119.373	ppb	0.9295	0.8	186.022

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**680-88697-a-1-c msd (Samp) 3/30/2013, 2:17:55 AM Rack 3, Tube 53****Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	8.0452	9.2841	8.6302
Al 308.215	9596.67	9600.29	9616.37
As 188.980	115.610	119.349	122.375
B 249.678	230.194	231.644	232.472
Ba 389.178	102.648	103.625	103.914
Be 313.042	53.5197	53.6575	53.5514
Ca 370.602	55999	56014	55887
Cd 226.502	51.6596	51.8714	52.2406
Co 228.615	52.9327	53.9793	53.0151
Cr 267.716	136.239	136.495	135.746
Cu 324.754	103.608	99.4775	100.742
Fe 271.441	17162.4	17203.8	17191.3
K 766.491	5999.17	6019.45	6021.73
Mg 279.078	9606.92	9592.62	9588.47
Mn 257.610	635.614	636.456	636.463
Mo 202.032	97.2847	99.3250	97.5767
Na 330.237	10725.7	10550.5	10580.4
Ni 231.604	101.991	103.709	100.237
Pb 220.353	61.1463	61.8267	60.0332
Sb 206.834	40.3858	41.6317	41.8907
Se 196.026	98.4736	109.613	104.852
Sn 189.925	204.336	202.732	207.279
Sr 216.596	491.832	491.998	489.379
Ti 334.941	457.241	457.279	456.564
Tl 190.794	46.4232	42.4796	49.2332
V 292.401	118.248	118.621	118.644
Zn 206.200	135.746	135.193	134.672

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	8.6532	ppb	0.6198	7.2	541.904
Al 308.215	9604.44	ppb	10.4872	0.1	55753.5
As 188.980	119.111	ppb	3.3884	2.8	78.5116
B 249.678	231.437	ppb	1.1529	0.5	2322.64
Ba 389.178	103.396	ppb	0.6632	0.6	2160.11
Be 313.042	53.5762	ppb	0.0722	0.1	103422
Ca 370.602	55967	ppb	69.23	0.1	179032
Cd 226.502	51.9239	ppb	0.2940	0.6	1903.66
Co 228.615	53.3090	ppb	0.5819	1.1	632.927
Cr 267.716	136.160	ppb	0.3810	0.3	5697.45
Cu 324.754	101.276	ppb	2.1166	2.1	5044.48
Fe 271.441	17185.9	ppb	21.2135	0.1	28937.1
K 766.491	6013.45	ppb	12.4182	0.2	288715
Mg 279.078	9596.00	ppb	9.6805	0.1	19824.1
Mn 257.610	636.178	ppb	0.4881	0.1	146632
Mo 202.032	98.0621	ppb	1.1034	1.1	641.660
Na 330.237	10618.9	ppb	93.7330	0.9	532.865
Ni 231.604	101.979	ppb	1.7360	1.7	241.598
Pb 220.353	61.0021	ppb	0.9054	1.5	101.567
Sb 206.834	41.3028	ppb	0.8046	1.9	27.0381
Se 196.026	104.313	ppb	5.5895	5.4	33.8700
Sn 189.925	204.782	ppb	2.3058	1.1	153.718
Sr 216.596	491.070	ppb	1.4667	0.3	4601.73
Ti 334.941	457.028	ppb	0.4022	0.1	115672
Tl 190.794	46.0453	ppb	3.3926	7.4	27.2740
V 292.401	118.505	ppb	0.2223	0.2	3232.11
Zn 206.200	135.204	ppb	0.5368	0.4	219.464

E03292013.vvq. All Data Report 3/30/2013, 8:54:32 AM

**680-88697-a-2-a (Samp)**      **3/30/2013, 2:23:22 AM**      **Rack 3, Tube 54****Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-1.4615u	-1.7169u	-1.5406u
Al 308.215	4437.78	4426.13	4426.05
As 188.980	24.1621	14.2099	15.1200
B 249.678	18.6905	17.6484	18.3509
Ba 389.178	16.1489	15.4029	16.9868
Be 313.042	1.3664	1.3596	1.3709
Ca 370.602	63696	63414	63351
Cd 226.502	1.1133	1.0897	1.2750
Co 228.615	3.3451	3.1312	3.2634
Cr 267.716	49.9998	50.0915	49.4901
Cu 324.754	2.9689	2.6050	3.1443
Fe 271.441	13150.5	13115.7	13111.4
K 766.491	753.197	754.620	753.036
Mg 279.078	3907.14	3887.97	3889.52
Mn 257.610	175.638	175.242	175.329
Mo 202.032	0.9145	1.1931	1.0918
Na 330.237	1919.86	2278.04	1821.69
Ni 231.604	6.9695	6.2758	4.5730
Pb 220.353	21.5559	21.0378	20.6948
Sb 206.834	-6.3290u	2.5635	-1.5355u
Se 196.026	13.6887	-0.1951	9.4098
Sn 189.925	15.2725	10.9696	6.5496
Sr 216.596	490.099	485.666	483.379
Ti 334.941	765.551	764.050	760.247
Tl 190.794	1.5929	4.1877	1.8251
V 292.401	24.1453	23.6570	24.0803
Zn 206.200	42.8671	40.4763	41.9560

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.5730	ppb	0.1307	8.3	-188.035
Al 308.215	4429.99	ppb	6.7455	0.2	25854.2
As 188.980	17.8307	ppb	5.5020	30.9	11.5111
B 249.678	18.2299	ppb	0.5315	2.9	329.184
Ba 389.178	16.1795	ppb	0.7924	4.9	342.936
Be 313.042	1.3656	ppb	0.0057	0.4	2513.19
Ca 370.602	63487	ppb	183.7	0.3	203644
Cd 226.502	1.1593	ppb	0.1009	8.7	78.7363
Co 228.615	3.2466	ppb	0.1079	3.3	72.1497
Cr 267.716	49.8605	ppb	0.3240	0.6	2090.87
Cu 324.754	2.9061	ppb	0.2751	9.5	235.804
Fe 271.441	13125.9	ppb	21.4863	0.2	22095.4
K 766.491	753.617	ppb	0.8716	0.1	36385.1
Mg 279.078	3894.87	ppb	10.6471	0.3	8065.91
Mn 257.610	175.403	ppb	0.2080	0.1	40526.5
Mo 202.032	1.0665	ppb	0.1411	13.2	20.1506
Na 330.237	2006.53	ppb	240.205	12.0	89.1243
Ni 231.604	5.9394	ppb	1.2332	20.8	14.2861
Pb 220.353	21.0962	ppb	0.4335	2.1	37.1158
Sb 206.834	-1.7670	ppb	4.4508	251.9	0.3718
Se 196.026	7.6345	ppb	7.1101	93.1	2.3824
Sn 189.925	10.9306	ppb	4.3616	39.9	8.6152
Sr 216.596	486.381	ppb	3.4167	0.7	4561.63
Ti 334.941	763.283	ppb	2.7339	0.4	193174
Tl 190.794	2.5352	ppb	1.4358	56.6	-0.6264
V 292.401	23.9609	ppb	0.2651	1.1	670.903
Zn 206.200	41.7665	ppb	1.2966	2.9	66.2384

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680-88697-a-3-a (Samp) 3/30/2013, 2:28:49 AM Rack 3, Tube 55

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-1.8139u	0.1467u	-0.2352u
Al 308.215	5291.16	5282.39	5288.28
As 188.980	6.5782	12.7589	15.2556
B 249.678	8.4616	9.4907	9.7445
Ba 389.178	5.6336	5.3798	5.2741
Be 313.042	1.0391	1.0336	1.0346
Ca 370.602	35640	35591	35574
Cd 226.502	0.2679	0.5408	0.6514
Co 228.615	3.0382	3.3377	3.4098
Cr 267.716	31.5033	31.0147	31.5224
Cu 324.754	1.6686	2.0785	1.6449
Fe 271.441	17339.9	17334.9	17390.8
K 766.491	1526.46	1529.52	1529.28
Mg 279.078	5742.89	5740.23	5740.88
Mn 257.610	141.154	140.146	141.110
Mo 202.032	0.1166u	0.9698	0.5849
Na 330.237	13192.7	13651.5	13244.0
Ni 231.604	3.8193	6.1725	3.8813
Pb 220.353	3.5277	6.9067	7.9162
Sb 206.834	1.6524	-5.4239u	4.1160
Se 196.026	21.3790	1.6859	11.2545
Sn 189.925	12.5218	6.4697	11.0422
Sr 216.596	291.177	289.465	289.582
Ti 334.941	190.375	189.903	189.702
Tl 190.794	-1.2751u	0.5119u	-1.8887u
V 292.401	15.4668	15.4155	15.7892
Zn 206.200	36.2921	32.6695	34.3378

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.6341	ppb	1.0394	163.9	-113.269
Al 308.215	5287.28	ppb	4.4683	0.1	30806.1
As 188.980	11.5309	ppb	4.4671	38.7	7.0327
B 249.678	9.2322	ppb	0.6794	7.4	240.958
Ba 389.178	5.4292	ppb	0.1847	3.4	123.288
Be 313.042	1.0358	ppb	0.0029	0.3	1864.44
Ca 370.602	35602	ppb	33.99	0.1	113329
Cd 226.502	0.4867	ppb	0.1974	40.6	63.7192
Co 228.615	3.2619	ppb	0.1971	6.0	57.2840
Cr 267.716	31.3468	ppb	0.2878	0.9	1317.42
Cu 324.754	1.7973	ppb	0.2438	13.6	182.923
Fe 271.441	17355.2	ppb	30.9022	0.2	29213.1
K 766.491	1528.42	ppb	1.6990	0.1	73554.8
Mg 279.078	5741.33	ppb	1.3879	0.0	11877.8
Mn 257.610	140.803	ppb	0.5697	0.4	32584.3
Mo 202.032	0.5571	ppb	0.4273	76.7	16.7125
Na 330.237	13362.7	ppb	251.380	1.9	676.880
Ni 231.604	4.6243	ppb	1.3411	29.0	11.2536
Pb 220.353	6.1169	ppb	2.2984	37.6	13.2149
Sb 206.834	0.1149	ppb	4.9523	4311.4	1.4879
Se 196.026	11.4398	ppb	9.8478	86.1	3.6288
Sn 189.925	10.0112	ppb	3.1550	31.5	7.9200
Sr 216.596	290.075	ppb	0.9567	0.3	2728.13
Ti 334.941	189.994	ppb	0.3455	0.2	48058.4
Tl 190.794	-0.8840	ppb	1.2472	141.1	-2.9745
V 292.401	15.5572	ppb	0.2026	1.3	432.746
Zn 206.200	34.4332	ppb	1.8132	5.3	54.9539



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680-88697-a-4-a (Samp)                      3/30/2013, 2:34:16 AM                      Rack 3, Tube 56  
 Weight: 1                                      Volume: 1                                      Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-2.9330u	-2.1965u	-1.9292u
Al 308.215	8083.90	8106.35	8103.85
As 188.980	23.4288	19.7574	19.1783
B 249.678	35.8252	34.0333	34.1856
Ba 389.178	26.7439	25.5456	25.4211
Be 313.042	1.6699	1.6831	1.6650
Ca 370.602	116543	116349	116152
Cd 226.502	1.4961	1.5605	1.3537
Co 228.615	3.6756	3.6273	3.6370
Cr 267.716	64.7424	64.5423	64.5911
Cu 324.754	3.7460	3.3410	3.9848
Fe 271.441	16940.9	17035.1	17037.0
K 766.491	2304.93	2314.92	2305.59
Mg 279.078	8029.77	8033.12	8039.78
Mn 257.610	250.713	251.474	251.674
Mo 202.032	1.8669	1.5686	2.0346
Na 330.237	28297.2	28623.9	28598.4
Ni 231.604	6.1700	6.6868	6.4744
Pb 220.353	25.8214	22.8076	28.8273
Sb 206.834	-3.5831u	7.9396	-5.8359u
Se 196.026	-5.9755u	9.1414	9.6938
Sn 189.925	8.9621	8.8387	10.3285
Sr 216.596	787.822	785.677	782.989
Ti 334.941	1068.72	1064.29	1060.83
Tl 190.794	7.9562	5.1891	2.9933
V 292.401	32.5977	32.0357	32.6477
Zn 206.200	46.1016	46.5701	45.3596

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-2.3529	ppb	0.5198	22.1	-255.841
Al 308.215	8098.03	ppb	12.3049	0.2	47041.2
As 188.980	20.7882	ppb	2.3051	11.1	13.9164
B 249.678	34.6814	ppb	0.9935	2.9	479.682
Ba 389.178	25.9035	ppb	0.7304	2.8	549.363
Be 313.042	1.6726	ppb	0.0094	0.6	3122.21
Ca 370.602	116348	ppb	195.9	0.2	373721
Cd 226.502	1.4701	ppb	0.1058	7.2	98.1008
Co 228.615	3.6466	ppb	0.0255	0.7	84.4527
Cr 267.716	64.6253	ppb	0.1043	0.2	2709.71
Cu 324.754	3.6906	ppb	0.3254	8.8	275.193
Fe 271.441	17004.3	ppb	54.9574	0.3	28623.2
K 766.491	2308.48	ppb	5.5879	0.2	110976
Mg 279.078	8034.22	ppb	5.0923	0.1	16607.3
Mn 257.610	251.287	ppb	0.5070	0.2	58028.8
Mo 202.032	1.8234	ppb	0.2360	12.9	24.8175
Na 330.237	28506.5	ppb	181.674	0.6	1449.46
Ni 231.604	6.4437	ppb	0.2597	4.0	15.5529
Pb 220.353	25.8188	ppb	3.0099	11.7	44.5287
Sb 206.834	-0.4932	ppb	7.3893	1498.4	1.2978
Se 196.026	4.2866	ppb	8.8915	207.4	1.3224
Sn 189.925	9.3764	ppb	0.8268	8.8	7.4807
Sr 216.596	785.496	ppb	2.4215	0.3	7359.98
Ti 334.941	1064.61	ppb	3.9535	0.4	269469
Tl 190.794	5.3796	ppb	2.4869	46.2	1.0339
V 292.401	32.4270	ppb	0.3398	1.0	906.376
Zn 206.200	46.0104	ppb	0.6104	1.3	727558

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680-88697-a-5-a (Samp)                      3/30/2013, 2:39:43 AM                      Rack 3, Tube 57  
 Weight: 1                                      Volume: 1                                      Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-1.9067u	-2.0974u	-1.8928u
Al 308.215	80733.3	80538.0	80559.7
As 188.980	57.6674	63.8790	60.1282
B 249.678	132.256	132.859	134.248
Ba 389.178	72.6371	70.9576	71.6465
Be 313.042	7.6320	7.6251	7.6016
Ca 370.602	10404	10365	10372
Cd 226.502	0.1706	0.3823	0.3311
Co 228.615	38.3466	38.4493	37.5721
Cr 267.716	183.900	183.411	184.146
Cu 324.754	25.3042	24.9829	24.5025
Fe 271.441	101643	101801	101655
K 766.491	20422.0	20360.0	20242.8
Mg 279.078	35889.7	35777.0	35810.5
Mn 257.610	464.596	463.940	463.926
Mo 202.032	6.8294	7.7053	7.2463
Na 330.237	129891x	129557x	129487x
Ni 231.604	57.3640	59.7571	56.6838
Pb 220.353	42.8476	41.3567	39.3338
Sb 206.834	4.3314	9.3514	-1.1369
Se 196.026	-11.8435u	-0.9488	7.1014
Sn 189.925	15.9985	9.2377	12.7314
Sr 216.596	230.130	230.186	228.484
Ti 334.941	1503.54	1497.37	1494.27
Tl 190.794	4.7883u	5.0769u	3.0440u
V 292.401	170.002	169.057	169.326
Zn 206.200	193.159	186.240	190.364

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.9656b	ppb	0.1143	5.8	-203.483
Al 308.215	80610.3b	ppb	107.039	0.1	465879
As 188.980	60.5582b	ppb	3.1280	5.2	38.3833
B 249.678	133.121b	ppb	1.0217	0.8	1323.00
Ba 389.178	71.7471b	ppb	0.8443	1.2	1570.03
Be 313.042	7.6196b	ppb	0.0159	0.2	14565.7
Ca 370.602	10380b	ppb	21.09	0.2	25390
Cd 226.502	0.2947b	ppb	0.1105	37.5	237.743
Co 228.615	38.1226b	ppb	0.4795	1.3	487.002
Cr 267.716	183.819b	ppb	0.3742	0.2	7709.55
Cu 324.754	24.9299b	ppb	0.4035	1.6	1336.07
Fe 271.441	101700b	ppb	87.6812	0.1	171174
K 766.491	20341.6b	ppb	91.0174	0.4	976078
Mg 279.078	35825.7b	ppb	57.8821	0.2	73954.9
Mn 257.610	464.154b	ppb	0.3831	0.1	107418
Mo 202.032	7.2603b	ppb	0.4381	6.0	55.7049
Na 330.237	129645xb	ppb	215.746	0.2	6625.01
Ni 231.604	57.9350b	ppb	1.6143	2.8	138.986
Pb 220.353	41.1793b	ppb	1.7636	4.3	67.8243
Sb 206.834	4.1820b	ppb	5.2457	125.4	6.0746
Se 196.026	-1.8970b	ppb	9.5080	501.2	-0.3260
Sn 189.925	12.6559b	ppb	3.3811	26.7	9.9262
Sr 216.596	229.600b	ppb	0.9669	0.4	2190.14
Ti 334.941	1498.39b	ppb	4.7195	0.3	379396
Tl 190.794	4.3030b	ppb	1.0999	25.6	-2.6558
V 292.401	169.462b	ppb	0.4868	0.3	4658.21
Zn 206.200	189.921b	ppb	3.4897	1.8	294.929

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680-88697-a-6-a (Samp) 3/30/2013, 2:45:10 AM Rack 3, Tube 58

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-1.0808u	-1.5818u	-1.4269u
Al 308.215	46990.8	46852.8	47345.5
As 188.980	33.1336	34.6339	34.3636
B 249.678	113.980	114.311	115.186
Ba 389.178	45.5627	47.4375	49.5345
Be 313.042	3.7803	3.7816	3.8019
Ca 370.602	4866	4877	4900
Cd 226.502	0.3789	0.3322	0.0977
Co 228.615	14.5368	14.2427	14.7815
Cr 267.716	122.253	121.460	123.359
Cu 324.754	17.5606	16.9430	17.3341
Fe 271.441	52503.8	52347.8	52864.0
K 766.491	13824.3	13795.1	13817.1
Mg 279.078	24826.0	24778.3	25059.7
Mn 257.610	241.759	241.150	244.037
Mo 202.032	3.4441	3.4936	3.0287
Na 330.237	105462x	105233x	106147x
Ni 231.604	28.2273	30.1639	31.1626
Pb 220.353	32.7513	32.0897	34.7180
Sb 206.834	0.6882	-3.2343u	-18.4869u
Se 196.026	-4.7389u	-13.5759u	-8.7810u
Sn 189.925	12.2837	15.0195	16.5426
Sr 216.596	187.766	185.857	188.622
Ti 334.941	1243.87	1237.63	1252.29
Tl 190.794	7.8822	5.2180	-7.0185u
V 292.401	115.809	116.001	116.445
Zn 206.200	104.076	100.714	104.541

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.3632b	ppb	0.2565	18.8	-159.980
Al 308.215	47063.0b	ppb	254.200	0.5	272106
As 188.980	34.0437b	ppb	0.7997	2.3	21.2906
B 249.678	114.492b	ppb	0.6232	0.5	1194.22
Ba 389.178	47.5116b	ppb	1.9869	4.2	1029.36
Be 313.042	3.7879b	ppb	0.0121	0.3	7160.35
Ca 370.602	4881b	ppb	17.35	0.4	11647
Cd 226.502	0.2696b	ppb	0.1507	55.9	131.327
Co 228.615	14.5203b	ppb	0.2698	1.9	212.335
Cr 267.716	122.357b	ppb	0.9540	0.8	5130.15
Cu 324.754	17.2792b	ppb	0.3124	1.8	948.550
Fe 271.441	52571.9b	ppb	264.742	0.5	88486.4
K 766.491	13812.2b	ppb	15.2183	0.1	662843
Mg 279.078	24888.0b	ppb	150.613	0.6	51385.9
Mn 257.610	242.315b	ppb	1.5218	0.6	56157.0
Mo 202.032	3.3222b	ppb	0.2553	7.7	32.7158
Na 330.237	105614xb	ppb	475.927	0.5	5405.53
Ni 231.604	29.8513b	ppb	1.4924	5.0	71.6121
Pb 220.353	33.1863b	ppb	1.3671	4.1	55.6218
Sb 206.834	-7.0110b	ppb	10.1301	144.5	-1.8904
Se 196.026	-9.0319b	ppb	4.4239	49.0	-2.8678
Sn 189.925	14.6153b	ppb	2.1580	14.8	11.3839
Sr 216.596	187.415b	ppb	1.4154	0.8	1779.02
Ti 334.941	1244.60b	ppb	7.3589	0.6	315099
Tl 190.794	2.0272b	ppb	7.9463	392.0	-2.3109
V 292.401	116.085b	ppb	0.3266	0.3	3196.61
Zn 206.200	103.110b	ppb	2.0885	2.0	169.878

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680-88697-a-7-a (Samp)                      3/30/2013, 2:50:37 AM                      Rack 3, Tube 59  
 Weight: 1                                      Volume: 1                                      Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-2.3257u	-2.2977u	-1.9348u
Al 308.215	91656.0	91720.7	91764.6
As 188.980	66.2742	66.0956	65.8433
B 249.678	139.177	143.492	142.449
Ba 389.178	110.008	110.886	109.004
Be 313.042	6.7456	6.7539	6.7722
Ca 370.602	29545	29568	29575
Cd 226.502	-0.6837	-0.8504	-1.0508
Co 228.615	21.0676	20.2390	21.0098
Cr 267.716	195.671	195.746	197.452
Cu 324.754	22.0321	21.8978	21.4891
Fe 271.441	172327	172344	172498
K 766.491	28756.7	28707.6	28573.5
Mg 279.078	42218.6	42266.5	41970.6
Mn 257.610	932.791	933.105	935.868
Mo 202.032	1.3322	1.4347	0.7825u
Na 330.237	154922x	154284x	154439x
Ni 231.604	41.5639	42.6417	42.7915
Pb 220.353	95.9836	100.287	99.7607
Sb 206.834	10.0180	-3.0228	-1.5755
Se 196.026	-9.3811u	2.0358	0.4970
Sn 189.925	7.8670	20.4963	16.8517
Sr 216.596	447.268	446.112	450.426
Ti 334.941	1458.33	1460.20	1466.16
Tl 190.794	-2.2976u	-1.9150u	2.3001u
V 292.401	274.442	274.530	275.961
Zn 206.200	214.846	214.090	217.792

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-2.1861b	ppb	0.2180	10.0	-225.871
Al 308.215	91713.8b	ppb	54.6152	0.1	530011
As 188.980	66.0710b	ppb	0.2165	0.3	41.4480
B 249.678	141.706b	ppb	2.2517	1.6	1337.65
Ba 389.178	109.966b	ppb	0.9414	0.9	2413.02
Be 313.042	6.7572b	ppb	0.0136	0.2	12898.6
Ca 370.602	29562b	ppb	15.70	0.1	81409
Cd 226.502	-0.8616b	ppb	0.1838	21.3	348.046
Co 228.615	20.7722b	ppb	0.4627	2.2	285.732
Cr 267.716	196.289b	ppb	1.0075	0.5	8246.34
Cu 324.754	21.8063b	ppb	0.2828	1.3	1202.65
Fe 271.441	172390b	ppb	94.1373	0.1	290144
K 766.491	28679.2b	ppb	94.8490	0.3	1376060
Mg 279.078	42151.9b	ppb	158.809	0.4	87012.9
Mn 257.610	933.921b	ppb	1.6931	0.2	215778
Mo 202.032	1.1832b	ppb	0.3507	29.6	13.4474
Na 330.237	154548xb	ppb	333.230	0.2	7885.70
Ni 231.604	42.3324b	ppb	0.6697	1.6	103.389
Pb 220.353	98.6773b	ppb	2.3476	2.4	160.584
Sb 206.834	1.8066b	ppb	7.1481	395.7	5.7201
Se 196.026	-2.2828b	ppb	6.1953	271.4	-0.1037
Sn 189.925	15.0716b	ppb	6.5001	43.1	11.7485
Sr 216.596	447.935b	ppb	2.2329	0.5	4255.47
Ti 334.941	1461.57b	ppb	4.0880	0.3	370106
Tl 190.794	-0.6375b	ppb	2.5512	400.2	-8.6746
V 292.401	274.978b	ppb	0.8525	0.3	7548.56
Zn 206.200	215.576b	ppb	1.9563	0.9	324.562

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680-88697-a-8-a (Samp) 3/30/2013, 2:56:04 AM Rack 3, Tube 60

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-2.3214u	-2.0836u	-2.2495u
Al 308.215	109719	110835	109855
As 188.980	63.6032	69.0034	71.4200
B 249.678	159.128	158.466	159.097
Ba 389.178	121.870	122.891	122.024
Be 313.042	11.1128	11.1049	11.1339
Ca 370.602	62463	62479	62562
Cd 226.502	-0.0461	-0.2997	-0.3326
Co 228.615	24.3380	24.7095	24.5443
Cr 267.716	204.752	205.117	205.887
Cu 324.754	24.8472	24.2853	24.0537
Fe 271.441	126374	126639	126163
K 766.491	24040.2	23981.5	23867.0
Mg 279.078	42971.4	43062.5	43048.8
Mn 257.610	1237.97	1241.50	1239.42
Mo 202.032	2.5215	3.0900	2.0461
Na 330.237	168392x	168470x	168625x
Ni 231.604	52.1035	50.8367	53.2242
Pb 220.353	54.0337	57.4450	53.7982
Sb 206.834	-1.4710	2.4982	-5.0764u
Se 196.026	1.5991	0.4744	-15.7134u
Sn 189.925	22.6013	15.7098	15.3207
Sr 216.596	765.479	765.736	769.642
Ti 334.941	1599.98	1597.10	1604.36
Tl 190.794	8.8130	6.1899u	13.6803
V 292.401	193.399	193.787	192.424
Zn 206.200	267.531	267.683	272.755

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-2.2181b	ppb	0.1219	5.5	-240.263
Al 308.215	110137b	ppb	608.865	0.6	636425
As 188.980	68.0088b	ppb	4.0022	5.9	43.5317
B 249.678	158.897b	ppb	0.3735	0.2	1541.36
Ba 389.178	122.262b	ppb	0.5504	0.5	2638.64
Be 313.042	11.1172b	ppb	0.0150	0.1	21342.9
Ca 370.602	62501b	ppb	53.10	0.1	191347
Cd 226.502	-0.2261b	ppb	0.1568	69.3	272.272
Co 228.615	24.5306b	ppb	0.1861	0.8	333.700
Cr 267.716	205.252b	ppb	0.5796	0.3	8613.85
Cu 324.754	24.3954b	ppb	0.4081	1.7	1316.75
Fe 271.441	126392b	ppb	238.280	0.2	212729
K 766.491	23962.9b	ppb	88.0780	0.4	1149803
Mg 279.078	43027.6b	ppb	49.1050	0.1	88801.9
Mn 257.610	1239.63b	ppb	1.7733	0.1	286026
Mo 202.032	2.5525b	ppb	0.5226	20.5	24.3873
Na 330.237	168496xb	ppb	118.702	0.1	8615.80
Ni 231.604	52.0548b	ppb	1.1945	2.3	125.546
Pb 220.353	55.0923b	ppb	2.0409	3.7	89.8808
Sb 206.834	-1.3497b	ppb	3.7887	280.7	3.1878
Se 196.026	-4.5467b	ppb	9.6870	213.1	-0.9650
Sn 189.925	17.8773b	ppb	4.0958	22.9	13.8667
Sr 216.596	766.952b	ppb	2.3328	0.3	7220.06
Ti 334.941	1600.48b	ppb	3.6565	0.2	405268
Tl 190.794	9.5611b	ppb	3.8008	39.8	-0.7889
V 292.401	193.203b	ppb	0.7024	0.4	5309.40
Zn 206.200	269.323b	ppb	2.9735	1.1	5417.646

E03292013.wvq. All Data Report 3/30/2013, 8:54:32 AM

Cont Calib Verif (CCV) 3/30/2013, 3:01:32 AM Rack 4, Tube 1  
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	495.475	496.658	500.546
Al 308.215	5130.10	5156.08	5134.88
As 188.980	553.916	556.517	533.721
B 249.678	599.067	608.083	610.609
Ba 389.178	4576.73	4592.17	4576.03
Be 313.042	497.996	500.136	499.709
Ca 370.602	4798	4835	4828
Cd 226.502	484.155	488.102	486.383
Co 228.615	483.588	485.026	483.910
Cr 267.716	4840.52	4873.62	4876.70
Cu 324.754	4708.76	4697.11	4598.26
Fe 271.441	5181.44	5220.69	5217.27
K 766.491	9896.96	9896.36	9867.67
Mg 279.078	5199.66	5246.64	5237.81
Mn 257.610	4810.43	4844.62	4825.17
Mo 202.032	486.640	491.716	491.809
Na 330.237	7653.37	7508.66	7885.37
Ni 231.604	2407.27	2431.77	2439.47
Pb 220.353	498.603	500.340	499.137
Sb 206.834	1013.83	1033.77	1022.98
Se 196.026	5213.92	5180.08	5187.73
Sn 189.925	4974.88	5104.28	5096.09
Sr 216.596	2491.90	2512.17	2512.90
Ti 334.941	494.184	495.899	496.395
Tl 190.794	4993.14	5047.50	5026.98
V 292.401	5015.61	5035.45	5021.58
Zn 206.200	2476.09	2505.30	2497.23

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	497.559	ppb	2.6532	0.5	35291.0	99.51189
Al 308.215	5140.35	ppb	13.8269	0.3	29932.5	102.80700
As 188.980	548.051	ppb	12.4779	2.3	362.413	109.61025
B 249.678	605.920	ppb	6.0673	1.0	5841.77	24.23680Q
Ba 389.178	4581.64	ppb	9.1233	0.2	95162.5	91.63280
Be 313.042	499.280	ppb	1.1327	0.2	964771	99.85603
Ca 370.602	4820	ppb	19.51	0.4	15372	96.40584
Cd 226.502	486.213	ppb	1.9789	0.4	17415.2	97.24263
Co 228.615	484.175	ppb	0.7550	0.2	5555.17	96.83495
Cr 267.716	4863.61	ppb	20.0549	0.4	203176	97.27228
Cu 324.754	4668.04	ppb	60.7138	1.3	228112	93.36087
Fe 271.441	5206.47	ppb	21.7403	0.4	8887.29	104.12932
K 766.491	9887.00	ppb	16.7407	0.2	474540	98.86997
Mg 279.078	5228.04	ppb	24.9694	0.5	10742.6	104.56076
Mn 257.610	4826.74	ppb	17.1472	0.4	1111157	96.53477
Mo 202.032	490.055	ppb	2.9579	0.6	3147.12	98.01101
Na 330.237	7682.47	ppb	190.031	2.5	367.374	102.43289
Ni 231.604	2426.17	ppb	16.8107	0.7	5740.52	97.04676
Pb 220.353	499.360	ppb	0.8898	0.2	809.560	99.87201
Sb 206.834	1023.53	ppb	9.9777	1.0	661.777	102.35268
Se 196.026	5193.91	ppb	17.7487	0.3	1687.38	103.87820
Sn 189.925	5058.42	ppb	72.4620	1.4	3786.76	101.16833
Sr 216.596	2505.66	ppb	11.9185	0.5	23352.5	100.22629
Ti 334.941	495.493	ppb	1.1601	0.2	125390	99.09860
Tl 190.794	5022.54	ppb	27.4489	0.5	3280.30	100.45078
V 292.401	5024.21	ppb	10.1807	0.2	137265	100.48427
Zn 206.200	2492.87	ppb	15.0873	0.6	3842.00	99.71490

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Cont Calib Blank (CCB) 3/30/2013, 3:07:00 AM Rack 4, Tube 2

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.2828u	-0.5214u	0.2605
Al 308.215	4.1636	2.9126	0.4822
As 188.980	5.8484	2.6419	1.8381
B 249.678	5.6203	2.4943	1.6189
Ba 389.178	-0.9827u	0.6972	-0.8433u
Be 313.042	-0.0632u	-0.0531u	-0.0570u
Ca 370.602	-3.589u	1.088	-0.8667u
Cd 226.502	0.2158	-0.2504u	-0.0074u
Co 228.615	0.3141	0.6936	-0.0844u
Cr 267.716	-0.1195u	-0.0078u	-0.1755u
Cu 324.754	-0.2484u	-0.7183u	-0.4263u
Fe 271.441	6.9082	5.4076	-2.2363u
K 766.491	-0.4595u	-0.4427u	-1.0804u
Mg 279.078	4.1743	1.5964	-1.0783u
Mn 257.610	-0.1690u	-0.1930u	-0.2210u
Mo 202.032	0.4082	-0.3019u	0.3584
Na 330.237	106.503	-275.762u	-206.023u
Ni 231.604	1.5718	1.4918	1.5248
Pb 220.353	-3.2362u	-4.9678u	-1.3844u
Sb 206.834	3.2293	-1.5843u	12.7411
Se 196.026	0.4753	-1.9295u	13.6256
Sn 189.925	-1.7273u	-2.8725u	-0.2454u
Sr 216.596	-0.5460u	-0.6966u	-0.0299u
Ti 334.941	0.0328	0.1829	0.0811
Tl 190.794	5.6926	0.6192	0.8090
V 292.401	-0.4044u	0.1116	-0.5224u
Zn 206.200	-0.2499u	-0.4799u	1.9736

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	-0.1812	ppb	0.4007	221.1	-69.4809	-0.18125
Al 308.215	2.5194	ppb	1.8719	74.3	280.976	2.51944
As 188.980	3.4428	ppb	2.1217	61.6	1.5317	3.44281
B 249.678	3.2445	ppb	2.1036	64.8	201.025	3.24450
Ba 389.178	-0.3763	ppb	0.9323	247.8	-11.3279	-0.37625
Be 313.042	-0.0578	ppb	0.0051	8.9	-260.078	-0.05777
Ca 370.602	-1.122	ppb	2.349	209.2	-11.10	-1.12248
Cd 226.502	-0.0140	ppb	0.2332	1668.0	8.5351	-0.01398
Co 228.615	0.3077	ppb	0.3890	126.4	19.0926	0.30773
Cr 267.716	-0.1009	ppb	0.0854	84.6	-0.9784	-0.10094
Cu 324.754	-0.4643	ppb	0.2372	51.1	67.5819	-0.46433
Fe 271.441	3.3598	ppb	4.9041	146.0	8.9619	3.35982
K 766.491	-0.6609	ppb	0.3634	55.0	200.146	-0.66087
Mg 279.078	1.5641	ppb	2.6265	167.9	32.4663	1.56414
Mn 257.610	-0.1943	ppb	0.0261	13.4	48.2330	-0.19432
Mo 202.032	0.1549	ppb	0.3964	255.9	14.9272	0.15489
Na 330.237	-125.094	ppb	203.577	162.7	-10.3771	-125.09402
Ni 231.604	1.5295	ppb	0.0402	2.6	3.6059	1.52950
Pb 220.353	-3.1961	ppb	1.7920	56.1	-1.6536	-3.19613
Sb 206.834	4.7954	ppb	7.2900	152.0	3.9404	4.79538
Se 196.026	4.0571	ppb	8.3733	206.4	1.1416	4.05712
Sn 189.925	-1.6151	ppb	1.3172	81.6	-0.8003	-1.61506
Sr 216.596	-0.4242	ppb	0.3497	82.4	7.0265	-0.42417
Ti 334.941	0.0989	ppb	0.0766	77.5	-36.5007	0.09892
Tl 190.794	2.3736	ppb	2.8759	121.2	-0.1333	2.37360
V 292.401	-0.2717	ppb	0.3372	124.1	-1.9297	-0.27172
Zn 206.200	0.4146	ppb	1.3550	326.8	2.4454	0.41462

E03292013.vvq. All Data Report 3/30/2013, 8:54:32 AM

**680-88699-a-1-a (Samp)**                      **3/30/2013, 3:12:27 AM**                      **Rack 4, Tube 3**  
**Weight: 1**    **Volume: 1**    **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	17.4565	17.3328	17.2730
Al 308.215	30854.9	30881.2	30826.9
As 188.980	5.4642	7.1413	5.1035
B 249.678	32.3204	32.4296	31.2339
Ba 389.178	435.071	436.102	433.970
Be 313.042	0.6944	0.6875	0.6987
Ca 370.602	648115	652084	648562
Cd 226.502	2.9746	3.3380	2.9711
Co 228.615	1757.13	1760.38	1735.66
Cr 267.716	2280.43	2287.93	2284.48
Cu 324.754	622.035	624.035	620.498
Fe 271.441	103076	103036	102729
K 766.491	5764.22	5770.83	5748.30
Mg 279.078	41215.5	41314.4	41190.5
Mn 257.610	2036.44	2042.27	2034.84
Mo 202.032	5916.20x	5932.92x	5936.33x
Na 330.237	-226.751u	-131.684u	-259.269u
Ni 231.604	238.725	237.585	236.828
Pb 220.353	382.217	382.648	382.753
Sb 206.834	-33.7206u	-53.3627u	-50.2215u
Se 196.026	20.0111	9.6478	5.7995
Sn 189.925	44.2598	47.1639	43.7507
Sr 216.596	505.236	504.941	504.732
Ti 334.941	3469.03	3473.22	3478.71
Tl 190.794	6.3719u	3.2017u	-2.2495u
V 292.401	15.0639u	15.1121u	15.4354u
Zn 206.200	34351.6x	34413.9x	34305.1x

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	17.3541b	ppb	0.0936	0.5	1163.87
Al 308.215	30854.3b	ppb	27.1368	0.1	179263
As 188.980	5.9030b	ppb	1.0875	18.4	6.3120
B 249.678	31.9946b	ppb	0.6611	2.1	374.144
Ba 389.178	435.048b	ppb	1.0659	0.2	9144.38
Be 313.042	0.6935b	ppb	0.0056	0.8	500.776
Ca 370.602	649587b	ppb	2174	0.3	2085426
Cd 226.502	3.0946b	ppb	0.2108	6.8	342.237
Co 228.615	1751.06b	ppb	13.4361	0.8	19918.5
Cr 267.716	2284.28b	ppb	3.7561	0.2	95473.6
Cu 324.754	622.189b	ppb	1.7738	0.3	30674.4
Fe 271.441	102947b	ppb	189.943	0.2	173548
K 766.491	5761.11b	ppb	11.5806	0.2	276610
Mg 279.078	41240.1b	ppb	65.4972	0.2	85119.6
Mn 257.610	2037.85b	ppb	3.9128	0.2	469696
Mo 202.032	5928.49xb	ppb	10.7721	0.2	38017.3
Na 330.237	-205.902b	ppb	66.2986	32.2	-330.081
Ni 231.604	237.713b	ppb	0.9546	0.4	564.392
Pb 220.353	382.539b	ppb	0.2840	0.1	611.003
Sb 206.834	-45.7683b	ppb	10.5511	23.1	-61.3491
Se 196.026	11.8194b	ppb	7.3505	62.2	4.3910
Sn 189.925	45.0581b	ppb	1.8413	4.1	34.3793
Sr 216.596	504.970b	ppb	0.2529	0.1	4632.37
Ti 334.941	3473.65b	ppb	4.8569	0.1	879446
Tl 190.794	2.4414b	ppb	4.3607	178.6	-6.5571
V 292.401	15.2038b	ppb	0.2020	1.3	-803.890
Zn 206.200	34356.9xb	ppb	54.6304	0.2	52121.8



E03292013.wvq. All Data Report 3/30/2013, 8:54:32 AM

680-88732-a-2-a (Samp)                      3/30/2013, 3:17:55 AM                      Rack 4, Tube 4  
 Weight: 1                                      Volume: 1                                      Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.0803u	-0.2861u	-0.1331u
Al 308.215	14391.9	14409.6	14401.1
As 188.980	18.4924	6.2872	15.7320
B 249.678	0.3340u	0.0175u	0.7351u
Ba 389.178	284.353	284.885	283.794
Be 313.042	0.6962	0.7057	0.7065
Ca 370.602	34897	34919	34952
Cd 226.502	1.0809	0.5660	0.8855
Co 228.615	10.1264	9.5084	9.5513
Cr 267.716	47.4067	47.6566	47.6748
Cu 324.754	192.983	193.756	195.391
Fe 271.441	34241.3	34192.8	34166.7
K 766.491	1127.99	1130.75	1130.38
Mg 279.078	4240.70	4240.67	4242.68
Mn 257.610	394.461	395.370	394.299
Mo 202.032	9.2575	8.2287	8.2814
Na 330.237	534.526	254.822u	239.410u
Ni 231.604	85.9678	86.5275	85.9579
Pb 220.353	420.908	418.993	416.220
Sb 206.834	-0.3491	3.5218	1.1930
Se 196.026	10.4003	-3.4914u	-7.9747u
Sn 189.925	53.9174	53.5388	61.9565
Sr 216.596	99.3270	99.3900	98.7006
Ti 334.941	1232.69	1235.33	1236.72
Tl 190.794	-0.5394u	1.6905u	5.5113
V 292.401	42.4262	41.9439	41.8828
Zn 206.200	797.574	794.640	796.491

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1665	ppb	0.1069	64.2	-70.7084
Al 308.215	14400.9	ppb	8.8486	0.1	83447.9
As 188.980	13.5038	ppb	6.4004	47.4	8.1473
B 249.678	0.3622	ppb	0.3596	99.3	142.134
Ba 389.178	284.344	ppb	0.5455	0.2	5926.02
Be 313.042	0.7028	ppb	0.0058	0.8	1220.30
Ca 370.602	34923	ppb	27.69	0.1	109959
Cd 226.502	0.8441	ppb	0.2599	30.8	112.857
Co 228.615	9.7287	ppb	0.3451	3.5	157.408
Cr 267.716	47.5794	ppb	0.1498	0.3	2001.41
Cu 324.754	194.043	ppb	1.2297	0.6	9579.91
Fe 271.441	34200.3	ppb	37.8640	0.1	57565.2
K 766.491	1129.71	ppb	1.4938	0.1	54427.2
Mg 279.078	4241.35	ppb	1.1524	0.0	8778.32
Mn 257.610	394.710	ppb	0.5771	0.1	91065.6
Mo 202.032	8.5892	ppb	0.5794	6.7	67.4155
Na 330.237	342.920	ppb	166.115	48.4	-12.1664
Ni 231.604	86.1511	ppb	0.3260	0.4	204.468
Pb 220.353	418.707	ppb	2.3572	0.6	678.636
Sb 206.834	1.4552	ppb	1.9487	133.9	2.5838
Se 196.026	-0.3553	ppb	9.5805	2696.7	-0.0956
Sn 189.925	56.4709	ppb	4.7544	8.4	42.6911
Sr 216.596	99.1392	ppb	0.3811	0.4	950.178
Ti 334.941	1234.91	ppb	2.0448	0.2	312567
Tl 190.794	2.2208	ppb	3.0600	137.8	-1.7440
V 292.401	42.0843	ppb	0.2977	0.7	1173.49
Zn 206.200	796.235	ppb	1.4836	0.2	1232.90

E03292013.wvq. All Data Report 3/30/2013, 8:54:32 AM

680-88732-a-4-a (Samp)                      3/30/2013, 3:23:23 AM                      Rack 4, Tube 5  
 Weight: 1                                      Volume: 1                                      Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.4915	-2.9111u	-0.5526u
Al 308.215	14503.9	14546.4	14582.5
As 188.980	5.5018	1.1778	0.0087u
B 249.678	10.9806	10.5796	11.4394
Ba 389.178	143.281	144.967	144.240
Be 313.042	0.5132	0.5220	0.5093
Ca 370.602	18269	18356	18426
Cd 226.502	1.2894	1.0793	1.1717
Co 228.615	2.2633	2.9600	2.3839
Cr 267.716	35.0822	34.9745	35.3259
Cu 324.754	253.231	253.777	256.228
Fe 271.441	20088.9	20102.0	20142.6
K 766.491	563.113	563.739	564.432
Mg 279.078	2926.01	2954.12	2960.86
Mn 257.610	295.289	295.777	296.571
Mo 202.032	1.9380	2.2926	3.3065
Na 330.237	961.358	715.556	739.390
Ni 231.604	19.8623	17.9766	15.9549
Pb 220.353	443.433	436.162	450.167
Sb 206.834	-1.7729u	7.0133	2.9890
Se 196.026	9.2937	0.3626	11.3477
Sn 189.925	25.7786	30.7831	30.4900
Sr 216.596	130.794	131.751	132.251
Ti 334.941	705.666	708.384	711.514
Tl 190.794	-4.2672u	-0.3531u	-0.2786u
V 292.401	27.6955	27.6953	27.9801
Zn 206.200	971.288	980.223	980.206

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.9908	ppb	1.7431	175.9	-131.108
Al 308.215	14544.3	ppb	39.3305	0.3	84275.6
As 188.980	2.2294	ppb	2.8936	129.8	0.6763
B 249.678	10.9999	ppb	0.4302	3.9	254.923
Ba 389.178	144.163	ppb	0.8457	0.6	3004.96
Be 313.042	0.5148	ppb	0.0065	1.3	852.723
Ca 370.602	18350	ppb	78.63	0.4	57611
Cd 226.502	1.1801	ppb	0.1053	8.9	94.5498
Co 228.615	2.5357	ppb	0.3723	14.7	62.1932
Cr 267.716	35.1275	ppb	0.1800	0.5	1477.15
Cu 324.754	254.412	ppb	1.5963	0.6	12525.1
Fe 271.441	20111.2	ppb	27.9867	0.1	33851.7
K 766.491	563.761	ppb	0.6597	0.1	27277.2
Mg 279.078	2947.00	ppb	18.4814	0.6	6105.99
Mn 257.610	295.879	ppb	0.6471	0.2	68270.5
Mo 202.032	2.5123	ppb	0.7102	28.3	29.1042
Na 330.237	805.435	ppb	135.558	16.8	18.6246
Ni 231.604	17.9312	ppb	1.9541	10.9	42.7941
Pb 220.353	443.254	ppb	7.0044	1.6	718.532
Sb 206.834	2.7431	ppb	4.3983	160.3	3.1504
Se 196.026	7.0013	ppb	5.8403	83.4	2.2233
Sn 189.925	29.0172	ppb	2.8086	9.7	22.1355
Sr 216.596	131.599	ppb	0.7406	0.6	1247.89
Ti 334.941	708.521	ppb	2.9262	0.4	179309
Tl 190.794	-1.6330	ppb	2.2816	139.7	-3.7030
V 292.401	27.7903	ppb	0.1644	0.6	775.390
Zn 206.200	977.239	ppb	5.1538	0.5	1512.83

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680-88732-a-6-a (Samp)                      3/30/2013, 3:28:51 AM                      Rack 4, Tube 6  
 Weight: 1                                      Volume: 1                                      Dilution: 1

Label	Replicates Concentration		
Ag 328.068	1.1488	1.2269	0.3277
Al 308.215	12461.3	12469.9	12476.3
As 188.980	13.4755	10.3693	14.4498
B 249.678	27.0169	25.9643	27.3721
Ba 389.178	129.492	130.697	130.562
Be 313.042	0.3584	0.3404	0.3510
Ca 370.602	75991	76200	76221
Cd 226.502	0.4896	0.6470	0.3012
Co 228.615	3.1335	3.0593	3.2207
Cr 267.716	27.2589	27.5866	27.1089
Cu 324.754	165.607	164.188	161.765
Fe 271.441	18556.8	18509.7	18514.5
K 766.491	362.887	361.700	360.940
Mg 279.078	1926.37	1927.37	1926.34
Mn 257.610	204.137	204.485	204.233
Mo 202.032	2.2751	1.7204	1.7242
Na 330.237	577.386	346.036	217.214u
Ni 231.604	15.4350	16.1247	16.2614
Pb 220.353	176.338	174.764	173.347
Sb 206.834	1.9439	5.0891	13.8545
Se 196.026	25.4833	-0.2354	-4.9808u
Sn 189.925	29.6213	31.5381	36.9123
Sr 216.596	264.290	264.939	265.609
Ti 334.941	591.556	594.153	594.065
Tl 190.794	-5.1364u	8.4596	-2.5045u
V 292.401	30.7500	30.8101	31.0620
Zn 206.200	306.614	305.246	299.521

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.9012	ppb	0.4981	55.3	-2.4759
Al 308.215	12469.1	ppb	7.5244	0.1	72289.2
As 188.980	12.7649	ppb	2.1310	16.7	8.2080
B 249.678	26.7844	ppb	0.7321	2.7	404.265
Ba 389.178	130.250	ppb	0.6605	0.5	2714.53
Be 313.042	0.3499	ppb	0.0090	2.6	554.716
Ca 370.602	76137	ppb	127.3	0.2	243930
Cd 226.502	0.4793	ppb	0.1731	36.1	66.0495
Co 228.615	3.1378	ppb	0.0808	2.6	66.1196
Cr 267.716	27.3181	ppb	0.2443	0.9	1149.99
Cu 324.754	163.853	ppb	1.9427	1.2	8100.38
Fe 271.441	18527.0	ppb	25.9355	0.1	31185.5
K 766.491	361.843	ppb	0.9814	0.3	17590.5
Mg 279.078	1926.69	ppb	0.5856	0.0	4002.01
Mn 257.610	204.285	ppb	0.1794	0.1	47177.9
Mo 202.032	1.9066	ppb	0.3192	16.7	25.2856
Na 330.237	380.212	ppb	182.502	48.0	3.1809
Ni 231.604	15.9404	ppb	0.4429	2.8	38.0528
Pb 220.353	174.816	ppb	1.4962	0.9	285.238
Sb 206.834	6.9625	ppb	6.1723	88.7	5.6944
Se 196.026	6.7557	ppb	16.3912	242.6	2.1225
Sn 189.925	32.6906	ppb	3.7796	11.6	24.9072
Sr 216.596	264.946	ppb	0.6597	0.2	2497.37
Ti 334.941	593.258	ppb	1.4750	0.2	150127
Tl 190.794	0.2729	ppb	7.2110	2642.5	-2.3139
V 292.401	30.8740	ppb	0.1656	0.5	858.635
Zn 206.200	303.794	ppb	3.7629	1.2	471.485

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680-88747-a-1-a (Samp)                      3/30/2013, 3:34:29 AM                      Rack 4, Tube 7  
 Weight: 1                                      Volume: 1                                      Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.3187u	-0.5407u	0.0674
Al 308.215	581.830	582.533	583.358
As 188.980	-1.2017u	-5.3741u	2.1531
B 249.678	14.1542	15.1209	14.9833
Ba 389.178	58.3650	59.6603	58.7061
Be 313.042	-0.0351u	-0.0545u	-0.0567u
Ca 370.602	12995	13015	13045
Cd 226.502	0.2777	0.2569	0.1645
Co 228.615	2.2864	1.1646	0.7272
Cr 267.716	2.6262	2.2686	2.6370
Cu 324.754	5.2526	4.6781	6.7094
Fe 271.441	438.628	432.771	436.609
K 766.491	5634.80	5658.37	5688.35
Mg 279.078	2479.10	2483.59	2484.95
Mn 257.610	1079.37	1080.77	1083.78
Mo 202.032	0.8518	-0.1922u	0.0657
Na 330.237	477.339	305.563	552.255
Ni 231.604	18.8610	22.0556	19.4307
Pb 220.353	-0.8111u	0.6338	-1.2171u
Sb 206.834	4.7841	-0.1036u	6.0920
Se 196.026	6.0146	5.6013	1.7195
Sn 189.925	10.4434	10.8929	11.1030
Sr 216.596	54.9026	55.6104	55.4240
Ti 334.941	8.1031	8.1426	8.1111
Tl 190.794	1.1099u	1.7322	11.4161
V 292.401	-0.3529u	-0.0952u	-0.0430u
Zn 206.200	17.1677	17.0822	18.8907

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.2640	ppb	0.3077	116.6	-72.9893
Al 308.215	582.574	ppb	0.7646	0.1	3631.49
As 188.980	-1.4742	ppb	3.7710	255.8	-1.6131
B 249.678	14.7528	ppb	0.5229	3.5	308.445
Ba 389.178	58.9105	ppb	0.6714	1.1	1221.32
Be 313.042	-0.0488	ppb	0.0119	24.3	-238.778
Ca 370.602	13018	ppb	25.13	0.2	41939
Cd 226.502	0.2330	ppb	0.0602	25.8	18.3120
Co 228.615	1.3927	ppb	0.8043	57.7	31.6736
Cr 267.716	2.5106	ppb	0.2096	8.3	112.323
Cu 324.754	5.5467	ppb	1.0471	18.9	361.382
Fe 271.441	436.003	ppb	2.9751	0.7	737.367
K 766.491	5660.51	ppb	26.8365	0.5	271783
Mg 279.078	2482.55	ppb	3.0641	0.1	5135.72
Mn 257.610	1081.31	ppb	2.2568	0.2	249004
Mo 202.032	0.2418	ppb	0.5438	224.9	15.4653
Na 330.237	445.052	ppb	126.476	28.4	18.6496
Ni 231.604	20.1158	ppb	1.7039	8.5	47.5900
Pb 220.353	-0.4648	ppb	0.9728	209.3	2.9680
Sb 206.834	3.5909	ppb	3.2656	90.9	3.2166
Se 196.026	4.4451	ppb	2.3695	53.3	1.4454
Sn 189.925	10.8131	ppb	0.3370	3.1	8.5076
Sr 216.596	55.3123	ppb	0.3669	0.7	528.354
Ti 334.941	8.1189	ppb	0.0209	0.3	2003.91
Tl 190.794	4.7527	ppb	5.7790	121.6	0.3688
V 292.401	-0.1637	ppb	0.1659	101.4	0.9362
Zn 206.200	17.7135	ppb	1.0203	5.8	201868

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680-88747-a-2-a (Samp) 3/30/2013, 3:39:58 AM Rack 4, Tube 8

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.2063u	-2.2375u	-0.2832u
Al 308.215	384.433	443.363	427.213
As 188.980	-1.6469u	-1.3701u	-2.4300u
B 249.678	9.2085	12.9922	12.4423
Ba 389.178	78.0594	89.6734	86.3766
Be 313.042	-0.0407u	-0.0616u	-0.0498u
Ca 370.602	14122	16025	15514
Cd 226.502	0.0751	0.1244	0.1642
Co 228.615	0.6522	1.5622	1.2555
Cr 267.716	1.8813	2.4614	1.9750
Cu 324.754	3.6567	4.6773	5.2477
Fe 271.441	490.490	571.237	544.973
K 766.491	4044.92	4490.89	4385.46
Mg 279.078	1767.11	2011.17	1937.74
Mn 257.610	805.031	917.568	885.956
Mo 202.032	0.4012	1.5230	-0.2863u
Na 330.237	126.146	337.995	334.612
Ni 231.604	13.5257	14.6806	16.3894
Pb 220.353	1.4619	0.1482	-0.2854u
Sb 206.834	-6.0839u	9.3792	-3.2341u
Se 196.026	4.5831	6.6441	11.5293
Sn 189.925	8.7596	6.7066	11.5754
Sr 216.596	57.3450	65.7944	63.0280
Ti 334.941	6.5941	7.6846	7.3620
Tl 190.794	10.2857	2.5992	6.7204
V 292.401	-0.3182u	-0.6025u	0.2184
Zn 206.200	28.3384	32.9709	32.4715

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.9090	ppb	1.1511	126.6	-120.080
Al 308.215	418.336	ppb	30.4512	7.3	2682.84
As 188.980	-1.8157	ppb	0.5497	30.3	-1.8204
B 249.678	11.5477	ppb	2.0443	17.7	278.322
Ba 389.178	84.7031	ppb	5.9851	7.1	1756.77
Be 313.042	-0.0507	ppb	0.0105	20.6	-241.594
Ca 370.602	15220	ppb	984.8	6.5	49021
Cd 226.502	0.1213	ppb	0.0446	36.8	14.5274
Co 228.615	1.1566	ppb	0.4630	40.0	28.9450
Cr 267.716	2.1059	ppb	0.3115	14.8	94.6310
Cu 324.754	4.5272	ppb	0.8060	17.8	311.607
Fe 271.441	535.567	ppb	41.1874	7.7	904.766
K 766.491	4307.09	ppb	233.085	5.4	206856
Mg 279.078	1905.34	ppb	125.214	6.6	3947.85
Mn 257.610	869.518	ppb	58.0411	6.7	200251
Mo 202.032	0.5460	ppb	0.9133	167.3	17.4110
Na 330.237	266.251	ppb	121.346	45.6	9.3209
Ni 231.604	14.8652	ppb	1.4408	9.7	35.1688
Pb 220.353	0.4416	ppb	0.9099	206.1	4.3904
Sb 206.834	0.0204	ppb	8.2293	40356.6	1.0077
Se 196.026	7.5855	ppb	3.5675	47.0	2.4312
Sn 189.925	9.0139	ppb	2.4443	27.1	7.1616
Sr 216.596	62.0558	ppb	4.3078	6.9	591.600
Ti 334.941	7.2136	ppb	0.5602	7.8	1772.37
Tl 190.794	6.5351	ppb	3.8466	58.9	1.7345
V 292.401	-0.2341	ppb	0.4168	178.1	-0.9880
Zn 206.200	31.2603	ppb	2.5427	8.1	501361

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**680-88747-a-3-a (Samp)**                      **3/30/2013, 3:45:36 AM**                      **Rack 4, Tube 9**  
**Weight: 1**    **Volume: 1**    **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.2646u	0.1125	-0.1590u
Al 308.215	1316.93	1308.96	1315.78
As 188.980	-4.3514u	4.1783	-0.4544u
B 249.678	11.4840	11.2238	12.0582
Ba 389.178	74.5102	72.9289	73.9142
Be 313.042	-0.0397u	-0.0427u	-0.0460u
Ca 370.602	18337	18255	18328
Cd 226.502	0.5299	0.3888	0.6469
Co 228.615	28.9939	28.6138	29.2412
Cr 267.716	17.6289	17.5172	17.6884
Cu 324.754	11.4525	11.6419	12.4100
Fe 271.441	1930.12	1924.13	1919.75
K 766.491	7471.39	7452.45	7480.90
Mg 279.078	3019.15	2999.83	3012.05
Mn 257.610	1143.67	1137.63	1139.61
Mo 202.032	1.5678	1.7820	2.3124
Na 330.237	597.115	499.344	432.634
Ni 231.604	274.127	270.693	274.214
Pb 220.353	0.0018	3.6764	0.7955
Sb 206.834	-1.1259u	-13.2685u	-7.9059u
Se 196.026	12.2903	3.5817	3.2635
Sn 189.925	11.4985	11.7296	14.2254
Sr 216.596	72.7210	72.0100	72.1093
Ti 334.941	43.9155	43.7755	43.9511
Tl 190.794	0.3045u	5.4654	8.3633
V 292.401	1.0912	0.7596	1.1717
Zn 206.200	129.563	124.946	129.905

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1037	ppb	0.1946	187.7	-62.0201
Al 308.215	1313.89	ppb	4.3097	0.3	7855.78
As 188.980	-0.2092	ppb	4.2701	2041.6	-0.7424
B 249.678	11.5887	ppb	0.4269	3.7	277.418
Ba 389.178	73.7844	ppb	0.7986	1.1	1531.44
Be 313.042	-0.0428	ppb	0.0032	7.4	-225.651
Ca 370.602	18306	ppb	45.11	0.2	58866
Cd 226.502	0.5218	ppb	0.1292	24.8	31.8534
Co 228.615	28.9497	ppb	0.3160	1.1	347.355
Cr 267.716	17.6115	ppb	0.0869	0.5	743.810
Cu 324.754	11.8348	ppb	0.5070	4.3	669.035
Fe 271.441	1924.67	ppb	5.2030	0.3	3247.14
K 766.491	7468.25	ppb	14.4853	0.2	358506
Mg 279.078	3010.34	ppb	9.7688	0.3	6224.13
Mn 257.610	1140.30	ppb	3.0819	0.3	262591
Mo 202.032	1.8874	ppb	0.3833	20.3	25.9477
Na 330.237	509.698	ppb	82.7283	16.2	20.4234
Ni 231.604	273.011	ppb	2.0084	0.7	645.981
Pb 220.353	1.4913	ppb	1.9336	129.7	6.0958
Sb 206.834	-7.4334	ppb	6.0851	81.9	-3.4957
Se 196.026	6.3785	ppb	5.1222	80.3	2.0886
Sn 189.925	12.4845	ppb	1.5121	12.1	9.7607
Sr 216.596	72.2801	ppb	0.3850	0.5	683.964
Ti 334.941	43.8807	ppb	0.0928	0.2	11059.0
Tl 190.794	4.7111	ppb	4.0820	86.6	0.2447
V 292.401	1.0075	ppb	0.2184	21.7	32.4386
Zn 206.200	128.138	ppb	2.7696	2.2	199.894

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**mb 680-270919/1-a (Samp)**      **3/30/2013, 3:51:05 AM**      **Rack 4, Tube 10**  
**Weight: 1**      **Volume: 1**      **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.0128u	0.1213	-1.0735u
Al 308.215	16.1006	16.6542	16.5573
As 188.980	-1.9101u	3.8247	-2.9776u
B 249.678	-12.6932u	-12.1613u	-11.7083u
Ba 389.178	0.7305	0.3621	-0.2668u
Be 313.042	-0.0561u	-0.0613u	-0.0740u
Ca 370.602	22.93	15.40	17.32
Cd 226.502	0.0704	-0.0188u	0.2379
Co 228.615	-1.0097u	0.4162	-0.0455u
Cr 267.716	0.4085	0.3848	0.3428
Cu 324.754	-0.2117u	-0.2782u	-0.5736u
Fe 271.441	34.3046	38.3163	26.1628
K 766.491	10.5359	10.2170	10.9000
Mg 279.078	1.1563	0.6417	9.0955
Mn 257.610	0.2156	0.2639	0.3174
Mo 202.032	0.6246	-0.7290u	-0.5970u
Na 330.237	210.763	170.542	312.178
Ni 231.604	2.6419	-0.2602u	0.0443
Pb 220.353	2.2624	2.5917	-0.1148u
Sb 206.834	-7.3561u	12.3467	-8.0711u
Se 196.026	10.0836	-5.6455u	-7.2975u
Sn 189.925	10.8540	10.4543	10.5798
Sr 216.596	-0.2707u	-0.0792u	-0.3145u
Ti 334.941	0.2857	0.4248	0.2870
Tl 190.794	1.1020	-0.7235u	4.7313
V 292.401	-0.3232u	0.0849	-0.5669u
Zn 206.200	-0.4239u	-1.4691u	0.2153

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.3217	ppb	0.6545	203.5	-79.4621
Al 308.215	16.4374	ppb	0.2957	1.8	361.300
As 188.980	-0.3543	ppb	3.6583	1032.5	-0.9855
B 249.678	-12.1876	ppb	0.4930	4.0	56.4385
Ba 389.178	0.2752	ppb	0.5043	183.2	2.2175
Be 313.042	-0.0638	ppb	0.0092	14.4	-271.640
Ca 370.602	18.55	ppb	3.914	21.1	50.18
Cd 226.502	0.0965	ppb	0.1303	135.0	12.5423
Co 228.615	-0.2130	ppb	0.7276	341.6	13.1605
Cr 267.716	0.3787	ppb	0.0333	8.8	19.0741
Cu 324.754	-0.3545	ppb	0.1926	54.3	72.9416
Fe 271.441	32.9279	ppb	6.1926	18.8	58.7351
K 766.491	10.5509	ppb	0.3418	3.2	738.010
Mg 279.078	3.6311	ppb	4.7392	130.5	36.7256
Mn 257.610	0.2656	ppb	0.0509	19.2	154.185
Mo 202.032	-0.2338	ppb	0.7463	319.2	12.4341
Na 330.237	231.161	ppb	72.9879	31.6	7.9590
Ni 231.604	0.8087	ppb	1.5949	197.2	1.9010
Pb 220.353	1.5797	ppb	1.4768	93.5	6.0571
Sb 206.834	-1.0268	ppb	11.5874	1128.5	0.3502
Se 196.026	-0.9532	ppb	9.5937	1006.5	-0.4853
Sn 189.925	10.6294	ppb	0.2044	1.9	8.3650
Sr 216.596	-0.2215	ppb	0.1251	56.5	8.9400
Ti 334.941	0.3325	ppb	0.0800	24.0	22.6154
Tl 190.794	1.7032	ppb	2.7767	163.0	-0.5730
V 292.401	-0.2684	ppb	0.3293	122.7	-1.7649
Zn 206.200	-0.5592	ppb	0.8504	152.1	0.9383

E03292013.wvq. All Data Report 3/30/2013, 8:54:32 AM

ics 680-270919/2-a (Samp)      3/30/2013, 3:56:33 AM      Rack 4, Tube 11  
 Weight: 1      Volume: 1      Dilution: 1

Label	Replicates Concentration		
Ag 328.068	14.7349	14.0283	14.6409
Al 308.215	5221.37	5238.89	5219.89
As 188.980	106.880	111.122	109.653
B 249.678	212.931	217.392	217.179
Ba 389.178	102.115	101.265	100.754
Be 313.042	56.8611	56.9822	56.7851
Ca 370.602	5035	5039	5006
Cd 226.502	55.2053	55.8283	55.2928
Co 228.615	54.4860	54.8319	54.5115
Cr 267.716	110.542	110.624	109.762
Cu 324.754	105.580	105.929	106.323
Fe 271.441	5435.80	5464.60	5451.96
K 766.491	5094.94	5107.19	5112.65
Mg 279.078	5514.69	5518.97	5506.97
Mn 257.610	551.273	552.059	550.333
Mo 202.032	104.711	104.991	104.016
Na 330.237	4632.42	5100.11	5054.13
Ni 231.604	108.067	106.439	107.808
Pb 220.353	57.6120	56.0976	57.4829
Sb 206.834	57.1772	65.8817	50.4975
Se 196.026	110.657	101.287	122.117
Sn 189.925	220.059	226.387	218.890
Sr 216.596	109.927	109.605	108.773
Ti 334.941	104.123	104.336	104.045
Tl 190.794	40.8191	41.8718	47.1450
V 292.401	107.907	108.252	108.264
Zn 206.200	109.784	112.926	111.479

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	14.4680	ppb	0.3837	2.7	971.251
Al 308.215	5226.72	ppb	10.5715	0.2	30468.4
As 188.980	109.218	ppb	2.1542	2.0	71.6100
B 249.678	215.834	ppb	2.5166	1.2	2187.41
Ba 389.178	101.378	ppb	0.6875	0.7	2108.64
Be 313.042	56.8761	ppb	0.0994	0.2	109782
Ca 370.602	5027	ppb	17.99	0.4	15779
Cd 226.502	55.4421	ppb	0.3373	0.6	2004.30
Co 228.615	54.6098	ppb	0.1928	0.4	638.717
Cr 267.716	110.309	ppb	0.4757	0.4	4614.03
Cu 324.754	105.944	ppb	0.3720	0.4	5269.44
Fe 271.441	5450.78	ppb	14.4351	0.3	9186.70
K 766.491	5104.93	ppb	9.0677	0.2	245130
Mg 279.078	5513.55	ppb	6.0821	0.1	11399.1
Mn 257.610	551.222	ppb	0.8645	0.2	127020
Mo 202.032	104.573	ppb	0.5022	0.5	683.937
Na 330.237	4928.89	ppb	257.779	5.2	246.462
Ni 231.604	107.438	ppb	0.8749	0.8	254.294
Pb 220.353	57.0641	ppb	0.8396	1.5	95.4481
Sb 206.834	57.8521	ppb	7.7143	13.3	36.9080
Se 196.026	111.354	ppb	10.4324	9.4	36.0975
Sn 189.925	221.779	ppb	4.0334	1.8	166.419
Sr 216.596	109.435	ppb	0.5954	0.5	1030.11
Ti 334.941	104.168	ppb	0.1506	0.1	26330.7
Tl 190.794	43.2787	ppb	3.3895	7.8	25.9338
V 292.401	108.141	ppb	0.2026	0.2	2942.87
Zn 206.200	111.397	ppb	1.5726	1.4	173.728



E03292013.wvq. All Data Report 3/30/2013, 8:54:32 AM

ics 680-270919/3-a (Samp)      3/30/2013, 4:02:01 AM      Rack 4, Tube 12  
 Weight: 1      Volume: 1      Dilution: 1

Label	Replicates	Concentration	
Ag 328.068	220.272	218.987	218.984
Al 308.215	2135.91	2135.57	2144.72
As 188.980	239.666	224.135	235.534
B 249.678	449.958	455.795	458.101
Ba 389.178	191.582	192.166	195.230
Be 313.042	229.534	229.775	230.246
Ca 370.602	20487	20508	20525
Cd 226.502	218.150	218.259	219.599
Co 228.615	217.205	216.700	213.783
Cr 267.716	219.819	219.380	219.689
Cu 324.754	214.601	213.857	216.312
Fe 271.441	22733.9	22805.2	22903.6
K 766.491	20540.0	20672.2	20752.4
Mg 279.078	22394.0	22373.0	22466.5
Mn 257.610	2219.29	2225.91	2234.03
Mo 202.032	211.339	211.843	211.413
Na 330.237	19227.7	19063.3	19190.0
Ni 231.604	210.748	213.699	215.183
Pb 220.353	213.026	213.521	208.851
Sb 206.834	193.982	202.788	209.637
Se 196.026	225.599	223.428	229.401
Sn 189.925	232.410	223.640	229.611
Sr 216.596	231.063	230.537	230.603
Ti 334.941	210.698	210.730	210.587
Tl 190.794	53.0165	50.1968	44.3423
V 292.401	216.190	217.274	217.794
Zn 206.200	209.082	209.103	209.869

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	219.415	ppb	0.7430	0.3	15555.8
Al 308.215	2138.73	ppb	5.1849	0.2	12644.0
As 188.980	233.111	ppb	8.0435	3.5	153.665
B 249.678	454.618	ppb	4.1970	0.9	4408.06
Ba 389.178	192.993	ppb	1.9597	1.0	4031.16
Be 313.042	229.852	ppb	0.3621	0.2	444150
Ca 370.602	20507	ppb	19.38	0.1	64300
Cd 226.502	218.669	ppb	0.8069	0.4	7881.44
Co 228.615	215.896	ppb	1.8472	0.9	2480.19
Cr 267.716	219.629	ppb	0.2255	0.1	9189.34
Cu 324.754	214.923	ppb	1.2585	0.6	10600.4
Fe 271.441	22814.2	ppb	85.2035	0.4	38436.1
K 766.491	20654.9	ppb	107.227	0.5	991106
Mg 279.078	22411.2	ppb	49.0368	0.2	46250.8
Mn 257.610	2226.41	ppb	7.3789	0.3	512761
Mo 202.032	211.532	ppb	0.2722	0.1	1368.71
Na 330.237	19160.3	ppb	86.1036	0.4	972.148
Ni 231.604	213.210	ppb	2.2579	1.1	504.879
Pb 220.353	211.799	ppb	2.5650	1.2	345.417
Sb 206.834	202.136	ppb	7.8479	3.9	126.928
Se 196.026	226.143	ppb	3.0234	1.3	73.7157
Sn 189.925	228.554	ppb	4.4799	2.0	171.500
Sr 216.596	230.734	ppb	0.2865	0.1	2165.09
Ti 334.941	210.672	ppb	0.0748	0.0	53361.6
Tl 190.794	49.1852	ppb	4.4247	9.0	27.6653
V 292.401	217.086	ppb	0.8183	0.4	5901.87
Zn 206.200	209.351	ppb	0.4488	0.2	324.870

E03292013.wvq. All Data Report 3/30/2013, 8:54:32 AM

Cont Calib Verif (CCV) 3/30/2013, 4:07:28 AM Rack 4, Tube 13  
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	502.296	508.481	505.763
Al 308.215	5182.97	5215.68	5215.43
As 188.980	547.104	562.172	547.822
B 249.678	615.552	625.467	631.059
Ba 389.178	4584.74	4625.23	4648.11
Be 313.042	504.992	510.281	510.549
Ca 370.602	4841	4886	4873
Cd 226.502	488.555	493.197	494.640
Co 228.615	488.569	491.733	490.906
Cr 267.716	4900.16	4942.05	4929.42
Cu 324.754	4734.96	4769.85	4662.97
Fe 271.441	5235.33	5290.84	5310.60
K 766.491	9958.48	10056.9	10039.9
Mg 279.078	5288.16	5335.90	5335.32
Mn 257.610	4853.64	4902.95	4898.76
Mo 202.032	493.399	496.909	498.209
Na 330.237	8039.18	7930.57	8009.46
Ni 231.604	2444.45	2463.12	2464.74
Pb 220.353	501.250	500.936	505.842
Sb 206.834	1032.91	1041.43	1040.19
Se 196.026	5249.62	5322.06	5313.84
Sn 189.925	5104.62	5096.82	5134.87
Sr 216.596	2520.09	2544.35	2537.31
Ti 334.941	498.952	502.826	501.692
Tl 190.794	5003.83	5114.81	5061.79
V 292.401	5061.77	5117.15	5111.09
Zn 206.200	2504.32	2537.91	2534.51

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	505.514	ppb	3.1000	0.6	35856.6	101.10273
Al 308.215	5204.69	ppb	18.8119	0.4	30303.5	104.09385
As 188.980	552.366	ppb	8.4999	1.5	365.272	110.47323Q
B 249.678	624.026	ppb	7.8533	1.3	6011.31	24.96103Q
Ba 389.178	4619.36	ppb	32.0919	0.7	95946.0	92.38718
Be 313.042	508.608	ppb	3.1339	0.6	982799	101.72154
Ca 370.602	4867	ppb	22.99	0.5	15519	97.33052
Cd 226.502	492.131	ppb	3.1798	0.6	17627.0	98.42612
Co 228.615	490.403	ppb	1.6407	0.3	5626.47	98.08056
Cr 267.716	4923.88	ppb	21.4890	0.4	205694	98.47757
Cu 324.754	4722.59	ppb	54.5028	1.2	230777	94.45190
Fe 271.441	5278.92	ppb	39.0241	0.7	9010.96	105.57841
K 766.491	10018.4	ppb	52.5954	0.5	480845	100.18418
Mg 279.078	5319.79	ppb	27.3996	0.5	10931.0	106.39586
Mn 257.610	4885.12	ppb	27.3397	0.6	1124595	97.70235
Mo 202.032	496.172	ppb	2.4884	0.5	3186.22	99.23445
Na 330.237	7993.07	ppb	56.1306	0.7	383.039	106.57423
Ni 231.604	2457.44	ppb	11.2740	0.5	5814.50	98.29742
Pb 220.353	502.676	ppb	2.7462	0.5	814.914	100.53521
Sb 206.834	1038.18	ppb	4.5998	0.4	671.191	103.81764
Se 196.026	5295.17	ppb	39.6653	0.7	1720.28	105.90343
Sn 189.925	5112.10	ppb	20.1014	0.4	3826.94	102.24203
Sr 216.596	2533.92	ppb	12.4784	0.5	23615.7	101.35664
Ti 334.941	501.157	ppb	1.9920	0.4	126824	100.23131
Tl 190.794	5060.14	ppb	55.5047	1.1	3304.86	101.20289
V 292.401	5096.67	ppb	30.3736	0.6	139245	101.93337
Zn 206.200	2525.58	ppb	18.4915	0.7	3892.40	101.02309

E03292013.vvq. All Data Report 3/30/2013, 8:54:32 AM

Cont Calib Blank (CCB) 3/30/2013, 4:12:56 AM Rack 4, Tube 14

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.6915u	-1.4254u	-0.0400u
Al 308.215	2.4725	2.0729	0.0992
As 188.980	2.4873	-3.0202u	1.4297
B 249.678	7.9115	5.8762	5.3842
Ba 389.178	1.3578	-0.1946u	0.0056
Be 313.042	-0.0646u	-0.0567u	-0.0572u
Ca 370.602	-6.444u	-2.972u	-5.224u
Cd 226.502	0.2590	0.0845	0.0289
Co 228.615	0.2418	-1.1087u	-0.4508u
Cr 267.716	-0.3978u	-0.1325u	0.1410
Cu 324.754	-0.6254u	-0.4815u	-0.8899u
Fe 271.441	-3.4235u	10.8284	-5.9885u
K 766.491	-1.1454u	-0.1465u	-1.2575u
Mg 279.078	0.7971	-6.1812u	-0.7878u
Mn 257.610	-0.2816u	-0.1877u	-0.1899u
Mo 202.032	0.7214	-0.2761u	0.8949
Na 330.237	-139.859u	160.959	40.0879
Ni 231.604	-0.3953u	0.1267	-0.4065u
Pb 220.353	-0.3983u	-0.5055u	-0.1976u
Sb 206.834	4.7545	-7.8934u	-4.5867u
Se 196.026	-18.1919u	-11.7343u	-5.8418u
Sn 189.925	-0.1086u	0.8345	-1.7035u
Sr 216.596	0.2051	-0.2522u	-1.3097u
Ti 334.941	0.0267	0.0460	-0.0410u
Tl 190.794	-1.8935u	0.9027	-0.7588u
V 292.401	0.2976	-0.5662u	0.2565
Zn 206.200	1.1399	0.1237	-1.7064u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	-0.7190	ppb	0.6931	96.4	-107.740	-0.71895
Al 308.215	1.5482	ppb	1.2707	82.1	275.413	1.54818
As 188.980	0.2990	ppb	2.9227	977.6	-0.5524	0.29896
B 249.678	6.3906	ppb	1.3399	21.0	230.510	6.39062
Ba 389.178	0.3896	ppb	0.8445	216.8	4.5681	0.38959
Be 313.042	-0.0595	ppb	0.0044	7.5	-263.562	-0.05953
Ca 370.602	-4.880	ppb	1.761	36.1	-22.12	-4.88002
Cd 226.502	0.1241	ppb	0.1200	96.7	13.4462	0.12413
Co 228.615	-0.4392	ppb	0.6753	153.7	10.5451	-0.43923
Cr 267.716	-0.1298	ppb	0.2694	207.6	-2.1854	-0.12976
Cu 324.754	-0.6656	ppb	0.2072	31.1	57.7524	-0.66561
Fe 271.441	0.4721	ppb	9.0600	1919.0	4.0036	0.47211
K 766.491	-0.8498	ppb	0.6117	72.0	191.082	-0.84981
Mg 279.078	-2.0573	ppb	3.6583	177.8	24.9906	-2.05730
Mn 257.610	-0.2197	ppb	0.0536	24.4	42.3201	-0.21973
Mo 202.032	0.4467	ppb	0.6319	141.5	16.7984	0.44675
Na 330.237	20.3959	ppb	151.373	742.2	-2.8797	20.39588
Ni 231.604	-0.2250	ppb	0.3047	135.4	-0.5456	-0.22502
Pb 220.353	-0.3671	ppb	0.1563	42.6	2.9134	-0.36712
Sb 206.834	-2.5752	ppb	6.5595	254.7	-0.6193	-2.57518
Se 196.026	-11.9226	ppb	6.1772	51.8	-4.0479	-11.92264Z
Sn 189.925	-0.3259	ppb	1.2828	393.7	0.1647	-0.32587
Sr 216.596	-0.4523	ppb	0.7770	171.8	6.7530	-0.45226
Ti 334.941	0.0106	ppb	0.0457	432.5	-58.9013	0.01057
Tl 190.794	-0.5832	ppb	1.4063	241.1	-2.0671	-0.58321
V 292.401	-0.0040	ppb	0.4873	12200.3	5.3323	-0.00399
Zn 206.200	-0.1476	ppb	1.4424	977.5	5.15764	-0.14757

680-88612-a-19-b (Samp) 3/30/2013, 4:18:24 AM Rack 4, Tube 15

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-1.4484u	-1.1017u	-0.7781u
Al 308.215	102018	101585	102223
As 188.980	24.6424	23.8663	20.2329
B 249.678	-6.0558u	-8.2651u	-6.2818u
Ba 389.178	209.694	208.814	209.185
Be 313.042	1.8160	1.8296	1.8319
Ca 370.602	6667	6647	6665
Cd 226.502	-1.2953	-1.4490	-1.4635
Co 228.615	11.7481	11.6858	12.3206
Cr 267.716	145.345	144.487	145.362
Cu 324.754	57.6508	58.5981	58.6316
Fe 271.441	151762	151429	152112
K 766.491	3096.66	3083.90	3086.80
Mg 279.078	3219.77	3190.13	3205.65
Mn 257.610	439.515	437.787	440.076
Mo 202.032	4.6311	4.4708	4.9943
Na 330.237	359.320u	233.704u	182.302u
Ni 231.604	45.4725	45.8211	45.6990
Pb 220.353	195.236	188.097	193.480
Sb 206.834	-11.2451u	-5.7904u	-9.0101u
Se 196.026	-8.8253u	-17.9909u	-13.4496u
Sn 189.925	16.0153	14.9655	16.8991
Sr 216.596	21.6588	20.4479	20.1370
Ti 334.941	1186.48	1177.56	1182.29
Tl 190.794	0.6450u	6.9051u	11.0499
V 292.401	382.722	382.004	383.483
Zn 206.200	95.9866	94.5502	94.8593

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.1094	ppb	0.3352	30.2	-132.391
Al 308.215	101942	ppb	325.372	0.3	589089
As 188.980	22.9139	ppb	2.3539	10.3	12.8515
B 249.678	-6.8676	ppb	1.2155	17.7	-34.9888
Ba 389.178	209.231	ppb	0.4419	0.2	4443.15
Be 313.042	1.8258	ppb	0.0086	0.5	3375.87
Ca 370.602	6660	ppb	10.97	0.2	9234
Cd 226.502	-1.4026	ppb	0.0932	6.6	284.808
Co 228.615	11.9181	ppb	0.3499	2.9	177.694
Cr 267.716	145.065	ppb	0.5004	0.3	6096.38
Cu 324.754	58.2935	ppb	0.5568	1.0	2978.31
Fe 271.441	151768	ppb	341.555	0.2	255436
K 766.491	3089.12	ppb	6.6872	0.2	148426
Mg 279.078	3205.19	ppb	14.8240	0.5	6633.98
Mn 257.610	439.126	ppb	1.1932	0.3	101602
Mo 202.032	4.6988	ppb	0.2682	5.7	36.7170
Na 330.237	258.442	ppb	91.0651	35.2	-45.9984
Ni 231.604	45.6642	ppb	0.1769	0.4	110.892
Pb 220.353	192.271	ppb	3.7197	1.9	311.543
Sb 206.834	-8.6819	ppb	2.7421	31.6	-1.4104
Se 196.026	-13.4219	ppb	4.5829	34.1	-3.8810
Sn 189.925	15.9600	ppb	0.9680	6.1	12.3546
Sr 216.596	20.7479	ppb	0.8040	3.9	258.192
Ti 334.941	1182.11	ppb	4.4626	0.4	299213
Tl 190.794	6.2000	ppb	5.2382	84.5	-3.0051
V 292.401	382.736	ppb	0.7398	0.2	10499.4
Zn 206.200	95.1320	ppb	0.7561	0.8	148.471

680-88612-a-20-b (Samp) 3/30/2013, 4:23:52 AM Rack 4, Tube 16

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-3.7964u	-2.4701u	-3.5722u
Al 308.215	88857.0	89149.1	89321.4
As 188.980	31.3083	45.7983	30.3795
B 249.678	-9.9936u	-8.9582u	-9.2037u
Ba 389.178	1566.04	1578.70	1572.51
Be 313.042	7.3065	7.3188	7.3330
Ca 370.602	8513	8535	8530
Cd 226.502	-0.7623	-0.2783	-0.6291
Co 228.615	63.1600	63.6737	64.6234
Cr 267.716	111.479	111.736	112.214
Cu 324.754	83.8563	84.8341	82.8305
Fe 271.441	102613	102852	103155
K 766.491	2938.17	2941.11	2933.99
Mg 279.078	4190.80	4206.50	4221.31
Mn 257.610	20306.1	20375.3	20415.0
Mo 202.032	5.2606	5.8035	5.0432
Na 330.237	527.163u	810.642	375.339u
Ni 231.604	45.3307	48.7094	49.4724
Pb 220.353	1999.70	2015.05	2026.62
Sb 206.834	5.2535	2.6926	-5.6127u
Se 196.026	-9.6738	-6.6076	-0.6828
Sn 189.925	30.9357	32.6972	33.1827
Sr 216.596	48.4294	48.6632	49.0792
Ti 334.941	1088.91	1086.09	1091.42
Tl 190.794	73.7365	69.4819	66.5943
V 292.401	194.443	194.906	194.906
Zn 206.200	184.783	188.409	186.486

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-3.2796	ppb	0.7100	21.6	-202.180
Al 308.215	89109.1	ppb	234.719	0.3	514968
As 188.980	35.8287	ppb	8.6464	24.1	21.9624
B 249.678	-9.3852	ppb	0.5410	5.8	-13.0647
Ba 389.178	1572.42	ppb	6.3320	0.4	32720.8
Be 313.042	7.3194	ppb	0.0133	0.2	13996.1
Ca 370.602	8526	ppb	11.47	0.1	19808
Cd 226.502	-0.5565	ppb	0.2500	44.9	210.143
Co 228.615	63.8190	ppb	0.7425	1.2	769.630
Cr 267.716	111.810	ppb	0.3730	0.3	4773.44
Cu 324.754	83.8403	ppb	1.0019	1.2	4214.15
Fe 271.441	102873	ppb	271.399	0.3	173153
K 766.491	2937.76	ppb	3.5768	0.1	141165
Mg 279.078	4206.20	ppb	15.2540	0.4	8381.65
Mn 257.610	20365.5	ppb	55.0690	0.3	4688121
Mo 202.032	5.3691	ppb	0.3916	7.3	43.4865
Na 330.237	571.048	ppb	220.945	38.7	-15.2345
Ni 231.604	47.8375	ppb	2.2043	4.6	115.120
Pb 220.353	2013.79	ppb	13.5049	0.7	3256.71
Sb 206.834	0.7778	ppb	5.6806	730.3	3.5737
Se 196.026	-5.6547	ppb	4.5706	80.8	1.6988
Sn 189.925	32.2719	ppb	1.1824	3.7	24.5663
Sr 216.596	48.7239	ppb	0.3291	0.7	502.186
Ti 334.941	1088.81	ppb	2.6684	0.2	275592
Tl 190.794	69.9376	ppb	3.5929	5.1	21.1155
V 292.401	194.752	ppb	0.2675	0.1	5349.91
Zn 206.200	186.559	ppb	1.8143	1.0	289.947

E03292013.wvq. All Data Report 3/30/2013, 8:54:32 AM

680-88612-a-21-b (Samp) 3/30/2013, 4:29:20 AM Rack 4, Tube 17

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-2.2714u	-2.1628u	-1.1353u
Al 308.215	110923	110873	110327
As 188.980	44.5716	47.3497	56.4917
B 249.678	-15.6061u	-15.2464u	-16.5370u
Ba 389.178	289.975	290.216	285.792
Be 313.042	3.4804	3.4623	3.4586
Ca 370.602	3922u	3911u	3923u
Cd 226.502	-1.2267	-0.8744	-1.3122
Co 228.615	36.2704	36.6726	36.7678
Cr 267.716	184.975	186.174	184.935
Cu 324.754	51.9635	51.3714	50.8118
Fe 271.441	165081	165326	164192
K 766.491	3484.12	3481.02	3441.54
Mg 279.078	3808.38	3812.92	3781.44
Mn 257.610	1359.63	1363.26	1355.07
Mo 202.032	3.3980	4.8611	5.2146
Na 330.237	227.482u	542.925u	447.048u
Ni 231.604	45.9347	46.4122	48.7258
Pb 220.353	94.4741	94.3756	95.2992
Sb 206.834	-1.3462	0.6296	-0.9907
Se 196.026	-11.7665u	-17.1343u	-2.7089u
Sn 189.925	18.0902	17.7594	18.5742
Sr 216.596	23.6605	23.4576	22.5947
Ti 334.941	1509.11	1508.22	1499.97
Tl 190.794	2.5934u	18.0107	-0.8094u
V 292.401	339.709	338.970	336.440
Zn 206.200	132.893	129.391	130.170

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.8565	ppb	0.6270	33.8	-181.864
Al 308.215	110708	ppb	330.470	0.3	639721
As 188.980	49.4710	ppb	6.2367	12.6	30.2894
B 249.678	-15.7965	ppb	0.6660	4.2	-130.822
Ba 389.178	288.661	ppb	2.4879	0.9	6101.43
Be 313.042	3.4671	ppb	0.0117	0.3	6549.64
Ca 370.602	3919	ppb	6.986	0.2	-586.6
Cd 226.502	-1.1378	ppb	0.2320	20.4	322.408
Co 228.615	36.5703	ppb	0.2641	0.7	467.439
Cr 267.716	185.361	ppb	0.7040	0.4	7787.10
Cu 324.754	51.3822	ppb	0.5759	1.1	2644.87
Fe 271.441	164866	ppb	596.815	0.4	277485
K 766.491	3468.89	ppb	23.7391	0.7	166645
Mg 279.078	3800.91	ppb	17.0174	0.4	7848.70
Mn 257.610	1359.32	ppb	4.1034	0.3	313452
Mo 202.032	4.4912	ppb	0.9632	21.4	34.8821
Na 330.237	405.818	ppb	161.713	39.8	-45.1406
Ni 231.604	47.0242	ppb	1.4928	3.2	114.357
Pb 220.353	94.7163	ppb	0.5072	0.5	153.904
Sb 206.834	-0.5691	ppb	1.0532	185.1	4.0376
Se 196.026	-10.5366	ppb	7.2909	69.2	-2.7439
Sn 189.925	18.1413	ppb	0.4098	2.3	13.9861
Sr 216.596	23.2376	ppb	0.5660	2.4	285.804
Ti 334.941	1505.76	ppb	5.0378	0.3	381147
Tl 190.794	6.5982	ppb	10.0288	152.0	-4.0735
V 292.401	338.373	ppb	1.7146	0.5	9286.72
Zn 206.200	130.818	ppb	1.8391	1.4	203.532

E03292013.wvq. All Data Report 3/30/2013, 8:54:32 AM

680-88612-a-22-b (Samp)      3/30/2013, 4:34:48 AM      Rack 4, Tube 18  
 Weight: 1      Volume: 1      Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-1.5121u	-0.7444u	-2.1298u
Al 308.215	71833.3	71873.8	71597.9
As 188.980	13.5635	15.5000	7.7955
B 249.678	-17.1754u	-16.2600u	-17.2638u
Ba 389.178	77.4292	77.9626	77.1800
Be 313.042	1.6776	1.6759	1.6784
Ca 370.602	3381	3364	3369
Cd 226.502	-1.1602	-1.0486	-0.7477
Co 228.615	6.7242	6.2619	5.7867
Cr 267.716	93.0427	92.9998	92.6221
Cu 324.754	39.2924	39.0959	41.1151
Fe 271.441	110379	110139	110045
K 766.491	1451.64	1444.30	1436.21
Mg 279.078	1876.13	1869.35	1859.85
Mn 257.610	275.866	275.703	275.381
Mo 202.032	2.8117	2.8270	4.3046
Na 330.237	124.941u	647.991u	550.561u
Ni 231.604	17.9468	19.5589	18.1458
Pb 220.353	37.7304	43.0339	38.7059
Sb 206.834	-1.4786	-1.1675	2.1171
Se 196.026	-9.7731u	-19.3253u	6.9722
Sn 189.925	17.2418	11.5887	15.4618
Sr 216.596	13.8688	13.1700	13.7827
Ti 334.941	784.199	783.526	783.996
Tl 190.794	5.9603	7.8129	4.7400u
V 292.401	211.807	211.382	210.707
Zn 206.200	46.8930	48.3896	50.1237

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.4621	ppb	0.6941	47.5	-158.860
Al 308.215	71768.3	ppb	149.019	0.2	414805
As 188.980	12.2863	ppb	4.0079	32.6	6.2273
B 249.678	-16.8997	ppb	0.5558	3.3	-90.3004
Ba 389.178	77.5239	ppb	0.3998	0.5	1679.82
Be 313.042	1.6773	ppb	0.0013	0.1	3091.94
Ca 370.602	3371	ppb	8.764	0.3	1965
Cd 226.502	-0.9855	ppb	0.2134	21.7	210.517
Co 228.615	6.2576	ppb	0.4687	7.5	103.896
Cr 267.716	92.8882	ppb	0.2315	0.2	3907.86
Cu 324.754	39.8345	ppb	1.1134	2.8	2066.17
Fe 271.441	110188	ppb	172.401	0.2	185454
K 766.491	1444.05	ppb	7.7217	0.5	69507.3
Mg 279.078	1868.44	ppb	8.1741	0.4	3879.32
Mn 257.610	275.650	ppb	0.2466	0.1	63852.6
Mo 202.032	3.3144	ppb	0.8575	25.9	29.9623
Na 330.237	441.164	ppb	278.157	63.1	-20.6860
Ni 231.604	18.5505	ppb	0.8790	4.7	45.9560
Pb 220.353	39.8234	ppb	2.8228	7.1	66.1498
Sb 206.834	-0.1763	ppb	1.9923	1129.9	2.9573
Se 196.026	-7.3754	ppb	13.3117	180.5	-2.1033
Sn 189.925	14.7641	ppb	2.8904	19.6	11.4591
Sr 216.596	13.6072	ppb	0.3810	2.8	176.987
Ti 334.941	783.907	ppb	0.3454	0.0	198400
Tl 190.794	6.1710	ppb	1.5472	25.1	-1.5343
V 292.401	211.299	ppb	0.5544	0.3	5799.94
Zn 206.200	48.4688	ppb	1.6168	3.3	76.4719

E03292013.wvq. All Data Report 3/30/2013, 8:54:32 AM

680-88612-a-23-b (Samp) 3/30/2013, 4:40:16 AM Rack 4, Tube 19

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-4.3212u	-4.1196u	-3.6003u
Al 308.215	92343.2	92391.4	92397.4
As 188.980	33.2567	41.9928	29.4547
B 249.678	-13.0906u	-12.4573u	-11.7384u
Ba 389.178	1562.44	1556.05	1551.49
Be 313.042	7.2801	7.2819	7.3160
Ca 370.602	22384	22409	22418
Cd 226.502	-0.7191	-0.7167	-0.6547
Co 228.615	60.7663	60.9412	61.0258
Cr 267.716	152.191	152.275	152.188
Cu 324.754	68.2480	66.3226	66.4167
Fe 271.441	113097	112944	112751
K 766.491	3160.10	3151.37	3141.15
Mg 279.078	4806.60	4819.92	4814.75
Mn 257.610	16110.9	16108.6	16112.2
Mo 202.032	7.4567	6.9611	8.0420
Na 330.237	477.099u	632.724u	495.181u
Ni 231.604	46.7558	44.4782	44.2491
Pb 220.353	367.997	370.412	368.376
Sb 206.834	8.4630	6.1920	4.9572
Se 196.026	1.9412	11.7900	-3.6240
Sn 189.925	21.7880	21.7371	23.2450
Sr 216.596	57.0402	57.1102	56.5356
Ti 334.941	1123.27	1126.65	1129.16
Tl 190.794	59.9303	56.3097	49.7000
V 292.401	224.180	224.460	223.959
Zn 206.200	145.029	138.774	140.494

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-4.0137	ppb	0.3719	9.3	-273.153
Al 308.215	92377.3	ppb	29.7037	0.0	533846
As 188.980	34.9014	ppb	6.4288	18.4	21.3654
B 249.678	-12.4288	ppb	0.6765	5.4	-50.9352
Ba 389.178	1556.66	ppb	5.4994	0.4	32400.6
Be 313.042	7.2926	ppb	0.0202	0.3	13949.7
Ca 370.602	22404	ppb	17.65	0.1	63587
Cd 226.502	-0.6968	ppb	0.0365	5.2	226.696
Co 228.615	60.9111	ppb	0.1323	0.2	737.117
Cr 267.716	152.218	ppb	0.0498	0.0	6447.53
Cu 324.754	66.9957	ppb	1.0855	1.6	3393.89
Fe 271.441	112931	ppb	173.038	0.2	190079
K 766.491	3150.88	ppb	9.4851	0.3	151389
Mg 279.078	4813.76	ppb	6.7185	0.1	9703.29
Mn 257.610	16110.6	ppb	1.8403	0.0	3708761
Mo 202.032	7.4866	ppb	0.5411	7.2	56.5691
Na 330.237	535.002	ppb	85.1115	15.9	-20.0602
Ni 231.604	45.1610	ppb	1.3859	3.1	108.975
Pb 220.353	368.928	ppb	1.2986	0.4	600.223
Sb 206.834	6.5374	ppb	1.7782	27.2	7.4956
Se 196.026	3.3691	ppb	7.8056	231.7	3.9750
Sn 189.925	22.2567	ppb	0.8563	3.8	17.0748
Sr 216.596	56.8953	ppb	0.3135	0.6	583.218
Ti 334.941	1126.36	ppb	2.9511	0.3	285102
Tl 190.794	55.3133	ppb	5.1874	9.4	15.3131
V 292.401	224.200	ppb	0.2509	0.1	6154.31
Zn 206.200	141.432	ppb	3.2311	2.3	220.045



E03292013.wvq. All Data Report 3/30/2013, 8:54:32 AM

680-88612-a-24-b (Samp) 3/30/2013, 4:45:43 AM Rack 4, Tube 20

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-2.6969u	-2.6380u	-3.0079u
Al 308.215	114769	113978	114524
As 188.980	50.6348	52.9820	42.9122
B 249.678	-16.2360u	-16.8469u	-15.9603u
Ba 389.178	351.141	347.737	346.215
Be 313.042	4.4468	4.4502	4.4628
Ca 370.602	6424	6394	6394
Cd 226.502	-1.0337	-1.1472	-1.2946
Co 228.615	44.2872	45.5013	46.0970
Cr 267.716	148.638	149.182	149.320
Cu 324.754	54.8519	54.9428	55.0630
Fe 271.441	154397	153466	153618
K 766.491	3967.17	3938.50	3944.92
Mg 279.078	4488.76	4485.21	4490.74
Mn 257.610	2390.01	2379.10	2384.53
Mo 202.032	4.1535	4.8467	4.3100
Na 330.237	283.843u	446.402u	569.805u
Ni 231.604	54.4601	51.7896	51.7461
Pb 220.353	109.603	108.799	111.451
Sb 206.834	0.8834	-5.8553u	11.6524
Se 196.026	5.6203	-4.9503u	-13.6388u
Sn 189.925	15.7109	15.2982	18.5339
Sr 216.596	31.8297	32.8942	31.4606
Ti 334.941	1544.94	1546.99	1554.46
Tl 190.794	9.1011u	17.3722	12.8124
V 292.401	323.219	322.921	323.009
Zn 206.200	131.777	129.069	132.188

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-2.7809	ppb	0.1988	7.1	-243.602
Al 308.215	114424	ppb	405.055	0.4	661186
As 188.980	48.8430	ppb	5.2686	10.8	30.0142
B 249.678	-16.3477	ppb	0.4537	2.8	-125.857
Ba 389.178	348.365	ppb	2.5222	0.7	7334.48
Be 313.042	4.4533	ppb	0.0084	0.2	8457.80
Ca 370.602	6404	ppb	17.31	0.3	8350
Cd 226.502	-1.1585	ppb	0.1308	11.3	298.313
Co 228.615	45.2951	ppb	0.9223	2.0	568.307
Cr 267.716	149.047	ppb	0.3602	0.2	6271.76
Cu 324.754	54.9526	ppb	0.1059	0.2	2816.31
Fe 271.441	153827	ppb	499.350	0.3	258907
K 766.491	3950.20	ppb	15.0464	0.4	189734
Mg 279.078	4488.24	ppb	2.8001	0.1	9248.11
Mn 257.610	2384.54	ppb	5.4562	0.2	549412
Mo 202.032	4.4367	ppb	0.3636	8.2	35.0384
Na 330.237	433.350	ppb	143.427	33.1	-40.7624
Ni 231.604	52.6653	ppb	1.5545	3.0	127.503
Pb 220.353	109.951	ppb	1.3597	1.2	178.628
Sb 206.834	2.2268	ppb	8.8308	396.6	5.3978
Se 196.026	-4.3229	ppb	9.6449	223.1	-0.6006
Sn 189.925	16.5143	ppb	1.7611	10.7	12.7695
Sr 216.596	32.0615	ppb	0.7444	2.3	364.484
Ti 334.941	1548.79	ppb	5.0121	0.3	392042
Tl 190.794	13.0952	ppb	4.1428	31.6	-0.4478
V 292.401	323.050	ppb	0.1532	0.0	8869.75
Zn 206.200	131.011	ppb	1.6946	1.3	203.942

E03292013.wvq. All Data Report 3/30/2013, 8:54:32 AM

**680-88612-a-25-b (Samp)**                      **3/30/2013, 4:51:11 AM**                      **Rack 4, Tube 21**  
**Weight: 1**    **Volume: 1**    **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.9394u	-0.3994u	0.7914
Al 308.215	132886	133166	132765
As 188.980	46.2750	45.6815	44.6942
B 249.678	-53.5206u	-53.3905u	-51.6689u
Ba 389.178	220.512	220.553	217.398
Be 313.042	2.9251	2.9153	2.9158
Ca 370.602	7314u	7280u	7203u
Cd 226.502	-4.2549	-4.5150	-4.4396
Co 228.615	6.9390	6.3780	7.2732
Cr 267.716	435.406	436.147	436.141
Cu 324.754	144.764	141.669	141.911
Fe 271.441	548745	548813	548356
K 766.491	2672.42	2676.10	2668.04
Mg 279.078	3634.36	3654.37	3637.55
Mn 257.610	873.032	874.509	873.592
Mo 202.032	10.1511	9.9875	11.0607
Na 330.237	175.955u	342.888u	393.826u
Ni 231.604	11.9918	13.8141	15.9172
Pb 220.353	81.7686	84.7749	83.6813
Sb 206.834	-19.2039u	-15.7785	0.0818
Se 196.026	-41.9816u	-39.8377u	-41.0739u
Sn 189.925	26.5087	20.5124	17.2009
Sr 216.596	27.9312	29.4581	28.6166
Ti 334.941	1733.38	1738.66	1739.77
Tl 190.794	15.2024u	20.0667u	9.4679u
V 292.401	1007.23	1005.26	1006.23
Zn 206.200	80.2207	81.1198	78.0683

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1825	ppb	0.8856	485.2	-62.6800
Al 308.215	132939	ppb	205.467	0.2	768121
As 188.980	45.5502	ppb	0.7985	1.8	23.5424
B 249.678	-52.8600	ppb	1.0335	2.0	-835.833
Ba 389.178	219.488	ppb	1.8099	0.8	4917.50
Be 313.042	2.9187	ppb	0.0055	0.2	5461.06
Ca 370.602	7266	ppb	56.96	0.8	-21316
Cd 226.502	-4.4032	ppb	0.1339	3.0	1030.93
Co 228.615	6.8634	ppb	0.4524	6.6	121.633
Cr 267.716	435.898	ppb	0.4261	0.1	18326.3
Cu 324.754	142.781	ppb	1.7213	1.2	7214.57
Fe 271.441	548638	ppb	246.401	0.0	923379
K 766.491	2672.19	ppb	4.0323	0.2	128425
Mg 279.078	3642.09	ppb	10.7514	0.3	7589.86
Mn 257.610	873.711	ppb	0.7457	0.1	202718
Mo 202.032	10.3998	ppb	0.5782	5.6	54.6772
Na 330.237	304.223	ppb	113.966	37.5	-166.619
Ni 231.604	13.9077	ppb	1.9644	14.1	43.1679
Pb 220.353	83.4082	ppb	1.5216	1.8	135.038
Sb 206.834	-11.6335	ppb	10.2893	88.4	4.0510
Se 196.026	-40.9644	ppb	1.0761	2.6	-11.2300
Sn 189.925	21.4073	ppb	4.7180	22.0	16.4243
Sr 216.596	28.6686	ppb	0.7647	2.7	473.184
Ti 334.941	1737.27	ppb	3.4148	0.2	439792
Tl 190.794	14.9123	ppb	5.3053	35.6	-10.8301
V 292.401	1006.24	ppb	0.9849	0.1	27570.8
Zn 206.200	79.8029	ppb	1.5680	2.0	123.892

E03292013.wvq. All Data Report 3/30/2013, 8:54:32 AM

680-88612-a-26-b (Samp) 3/30/2013, 4:56:39 AM Rack 4, Tube 22

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-1.8627u	-2.1472u	-2.1128u
Al 308.215	74633.6	74852.8	74731.6
As 188.980	417.708	424.470	414.927
B 249.678	0.1500u	-1.1893u	0.4270u
Ba 389.178	928.403	930.359	928.332
Be 313.042	3.5819	3.6034	3.5972
Ca 370.602	45729	45852	45795
Cd 226.502	-0.1044	0.1487	0.2482
Co 228.615	38.9503	38.5581	38.6079
Cr 267.716	131.926	132.672	131.635
Cu 324.754	322.849	326.762	322.984
Fe 271.441	159999	160326	159951
K 766.491	8119.04	8120.12	8114.58
Mg 279.078	11582.6	11621.3	11591.7
Mn 257.610	2407.72	2413.32	2408.85
Mo 202.032	7.1902	5.9884	7.1023
Na 330.237	637.516u	380.926u	430.413u
Ni 231.604	71.4243	72.2846	69.1995
Pb 220.353	1360.14	1353.57	1367.20
Sb 206.834	-1.5324	14.5039	16.0065
Se 196.026	1.2577	-1.8110	-1.1770
Sn 189.925	119.036	115.182	115.733
Sr 216.596	418.633	422.492	421.550
Ti 334.941	2467.23	2478.44	2471.08
Tl 190.794	13.8299	14.2486	8.2730u
V 292.401	253.172	253.022	253.140
Zn 206.200	657.357	656.124	654.393

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-2.0409	ppb	0.1553	7.6	-207.592
Al 308.215	74739.3	ppb	109.824	0.1	431966
As 188.980	419.035	ppb	4.9079	1.2	275.715
B 249.678	-0.2041	ppb	0.8644	423.5	19.5047
Ba 389.178	929.031	ppb	1.1500	0.1	19400.6
Be 313.042	3.5941	ppb	0.0111	0.3	6808.21
Ca 370.602	45792	ppb	61.54	0.1	134930
Cd 226.502	0.0975	ppb	0.1818	186.5	356.902
Co 228.615	38.7054	ppb	0.2135	0.6	516.514
Cr 267.716	132.078	ppb	0.5349	0.4	5565.96
Cu 324.754	324.198	ppb	2.2212	0.7	15972.8
Fe 271.441	160092	ppb	203.791	0.1	269449
K 766.491	8117.91	ppb	2.9377	0.0	389672
Mg 279.078	11598.5	ppb	20.2099	0.2	23935.1
Mn 257.610	2409.96	ppb	2.9639	0.1	555323
Mo 202.032	6.7603	ppb	0.6699	9.9	49.7722
Na 330.237	482.951	ppb	136.124	28.2	-51.2568
Ni 231.604	70.9694	ppb	1.5921	2.2	170.916
Pb 220.353	1360.30	ppb	6.8169	0.5	2197.45
Sb 206.834	9.6593	ppb	9.7214	100.6	9.9661
Se 196.026	-0.5768	ppb	1.6200	280.9	0.6443
Sn 189.925	116.650	ppb	2.0841	1.8	87.7384
Sr 216.596	420.892	ppb	2.0119	0.5	3999.64
Ti 334.941	2472.25	ppb	5.6983	0.2	625835
Tl 190.794	12.1171	ppb	3.3357	27.5	-1.3486
V 292.401	253.111	ppb	0.0789	0.0	6969.30
Zn 206.200	655.958	ppb	1.4891	0.2	5115.73

E03292013.wvq. All Data Report 3/30/2013, 8:54:32 AM

680-88612-a-27-b (Samp) 3/30/2013, 5:02:07 AM Rack 4, Tube 23

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.8576u	-1.9677u	-1.7656u
Al 308.215	78931.1	78891.3	78917.9
As 188.980	141.054	148.933	135.633
B 249.678	-4.0131u	-2.1031u	-2.5697u
Ba 389.178	707.278	706.961	706.287
Be 313.042	2.8107	2.8055	2.8128
Ca 370.602	61939	61868	62045
Cd 226.502	-0.3935	-0.9974	-0.7292
Co 228.615	21.5271	21.8403	21.1682
Cr 267.716	193.605	192.355	193.887
Cu 324.754	132.830	131.359	132.074
Fe 271.441	168140	167825	168420
K 766.491	2895.19	2887.66	2899.45
Mg 279.078	4564.57	4557.58	4577.22
Mn 257.610	1844.91	1839.07	1843.82
Mo 202.032	5.8065	6.3711	5.4649
Na 330.237	733.104u	698.639u	632.097u
Ni 231.604	43.4157	42.9561	42.1580
Pb 220.353	623.393	624.797	633.747
Sb 206.834	2.0330	4.0533	-8.5754u
Se 196.026	-14.6423u	-12.1543u	1.7577
Sn 189.925	35.6202	27.7287	36.4019
Sr 216.596	324.863	324.474	326.802
Ti 334.941	1280.00	1277.56	1284.65
Tl 190.794	12.5187	13.8429	10.7095u
V 292.401	366.817	366.776	368.714
Zn 206.200	323.062	320.887	322.877

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.5303	ppb	0.5913	38.6	-169.089
Al 308.215	78913.4	ppb	20.3011	0.0	456074
As 188.980	141.873	ppb	6.6878	4.7	92.0427
B 249.678	-2.8953	ppb	0.9958	34.4	-13.0799
Ba 389.178	706.842	ppb	0.5063	0.1	14788.5
Be 313.042	2.8097	ppb	0.0038	0.1	5294.84
Ca 370.602	61951	ppb	89.06	0.1	186110
Cd 226.502	-0.7067	ppb	0.3026	42.8	345.023
Co 228.615	21.5119	ppb	0.3363	1.6	289.299
Cr 267.716	193.282	ppb	0.8152	0.4	8119.64
Cu 324.754	132.088	ppb	0.7360	0.6	6588.43
Fe 271.441	168128	ppb	297.396	0.2	282973
K 766.491	2894.10	ppb	5.9697	0.2	139070
Mg 279.078	4566.46	ppb	9.9520	0.2	9431.05
Mn 257.610	1842.60	ppb	3.1093	0.2	424707
Mo 202.032	5.8808	ppb	0.4576	7.8	43.5953
Na 330.237	687.947	ppb	51.3454	7.5	-31.2480
Ni 231.604	42.8433	ppb	0.6364	1.5	104.516
Pb 220.353	627.312	ppb	5.6165	0.9	1014.54
Sb 206.834	-0.8297	ppb	6.7836	817.6	3.9575
Se 196.026	-8.3463	ppb	8.8383	105.9	-1.9410
Sn 189.925	33.2502	ppb	4.7978	14.4	25.3178
Sr 216.596	325.380	ppb	1.2470	0.4	3112.76
Ti 334.941	1280.74	ppb	3.6037	0.3	324186
Tl 190.794	12.3570	ppb	1.5729	12.7	-0.8803
V 292.401	367.436	ppb	1.1070	0.3	10078.8
Zn 206.200	322.275	ppb	1.2955	0.4	499.565

E03292013.wvq. All Data Report 3/30/2013, 8:54:32 AM

680-88612-a-28-b (Samp) 3/30/2013, 5:07:35 AM Rack 4, Tube 24

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-2.1463u	-0.9970u	-1.6752u
Al 308.215	109349	111027	111636
As 188.980	45.1469	47.2415	41.3622
B 249.678	-16.8669u	-15.6458u	-15.7784u
Ba 389.178	176.197	176.418	177.691
Be 313.042	2.5804	2.6025	2.5955
Ca 370.602	8005	8038	8024
Cd 226.502	-1.4016	-1.3310	-1.0631
Co 228.615	16.7217	16.8561	16.6575
Cr 267.716	184.558	186.130	186.187
Cu 324.754	60.8693	60.0215	61.1529
Fe 271.441	172155	173461	173367
K 766.491	2783.41	2815.74	2813.11
Mg 279.078	1746.03	1759.26	1756.06
Mn 257.610	728.452	733.634	734.081
Mo 202.032	7.6971	8.2880	6.9705
Na 330.237	121.725u	317.442u	85.1871u
Ni 231.604	36.9911	39.4192	39.9724
Pb 220.353	74.6731	76.9340	79.3792
Sb 206.834	-0.4077	-21.8440u	0.3633
Se 196.026	-23.1019u	-2.4061	-40.2091u
Sn 189.925	19.7100	14.8959	18.2053
Sr 216.596	32.7804	34.7776	34.1998
Ti 334.941	1394.28	1407.16	1409.24
Tl 190.794	11.1691	-0.7396u	15.9715
V 292.401	366.782	370.506	370.547
Zn 206.200	117.834	118.052	121.211

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.6062	ppb	0.5778	36.0	-167.060
Al 308.215	110671	ppb	1184.52	1.1	639509
As 188.980	44.5835	ppb	2.9799	6.7	26.9974
B 249.678	-16.0970	ppb	0.6700	4.2	-141.249
Ba 389.178	176.769	ppb	0.8065	0.5	3782.21
Be 313.042	2.5928	ppb	0.0113	0.4	4859.63
Ca 370.602	8022	ppb	16.76	0.2	11927
Cd 226.502	-1.2652	ppb	0.1786	14.1	335.378
Co 228.615	16.7451	ppb	0.1013	0.6	237.749
Cr 267.716	185.625	ppb	0.9242	0.5	7796.98
Cu 324.754	60.6812	ppb	0.5887	1.0	3101.30
Fe 271.441	172995	ppb	728.630	0.4	291162
K 766.491	2804.09	ppb	17.9538	0.6	134752
Mg 279.078	1753.78	ppb	6.8998	0.4	3635.06
Mn 257.610	732.056	ppb	3.1288	0.4	169078
Mo 202.032	7.6518	ppb	0.6599	8.6	54.7327
Na 330.237	174.784	ppb	124.888	71.5	-58.5307
Ni 231.604	38.7942	ppb	1.5858	4.1	95.0367
Pb 220.353	76.9954	ppb	2.3537	3.1	125.225
Sb 206.834	-7.2961	ppb	12.6047	172.8	-0.0341
Se 196.026	-21.9057	ppb	18.9298	86.4	-6.5068
Sn 189.925	17.6037	ppb	2.4627	14.0	13.5851
Sr 216.596	33.9193	ppb	1.0278	3.0	388.808
Ti 334.941	1403.56	ppb	8.1066	0.6	355267
Tl 190.794	8.8004	ppb	8.6037	97.8	-2.3015
V 292.401	369.278	ppb	2.1619	0.6	10131.1
Zn 206.200	119.032	ppb	1.8897	1.6	185.308

E03292013.wvq. All Data Report 3/30/2013, 8:54:32 AM

Cont Calib Verif (CCV)                      3/30/2013, 5:13:03 AM                      Rack 4, Tube 25  
 Weight: 1    Volume: 1    Dilution: 1

Label	Replicates Concentration		
Ag 328.068	505.957	507.638	504.385
Al 308.215	5202.62	5220.64	5218.35
As 188.980	555.673	567.580	571.356
B 249.678	610.258	615.220	618.870
Ba 389.178	4575.68	4584.65	4588.57
Be 313.042	509.544	511.884	511.621
Ca 370.602	4857	4878	4878
Cd 226.502	492.836	492.999	493.401
Co 228.615	488.513	490.363	490.080
Cr 267.716	4938.61	4956.90	4949.55
Cu 324.754	4737.71	4721.36	4720.72
Fe 271.441	5284.93	5283.53	5298.47
K 766.491	9943.32	9978.05	10003.0
Mg 279.078	5335.82	5351.86	5345.14
Mn 257.610	4879.11	4888.38	4892.56
Mo 202.032	492.676	496.015	498.476
Na 330.237	7909.20	8016.34	7601.03
Ni 231.604	2459.18	2470.44	2463.76
Pb 220.353	504.403	507.041	505.570
Sb 206.834	1025.21	1040.17	1018.31
Se 196.026	5303.53	5330.36	5332.45
Sn 189.925	5102.43	5151.15	5101.94
Sr 216.596	2536.20	2548.85	2536.40
Ti 334.941	499.847	502.962	501.688
Tl 190.794	5054.18	5057.10	5056.82
V 292.401	5073.36	5088.16	5087.88
Zn 206.200	2542.33	2544.50	2541.48

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	505.993	ppb	1.6264	0.3	35890.8	101.19868
Al 308.215	5213.87	ppb	9.8080	0.2	30356.9	104.27735
As 188.980	564.870	ppb	8.1851	1.4	373.561	112.97392Q
B 249.678	614.783	ppb	4.3227	0.7	5924.72	24.59130Q
Ba 389.178	4582.97	ppb	6.6104	0.1	95190.3	91.65932
Be 313.042	511.016	ppb	1.2821	0.3	987456	102.20329
Ca 370.602	4871	ppb	12.56	0.3	15533	97.42307
Cd 226.502	493.078	ppb	0.2907	0.1	17660.9	98.61570
Co 228.615	489.652	ppb	0.9963	0.2	5617.86	97.93040
Cr 267.716	4948.35	ppb	9.2030	0.2	206716	98.96708
Cu 324.754	4726.60	ppb	9.6298	0.2	230973	94.53198
Fe 271.441	5288.98	ppb	8.2483	0.2	9028.02	105.77955
K 766.491	9974.78	ppb	29.9624	0.3	478752	99.74780
Mg 279.078	5344.27	ppb	8.0531	0.2	10981.5	106.88545
Mn 257.610	4886.68	ppb	6.8861	0.1	1124956	97.73367
Mo 202.032	495.722	ppb	2.9111	0.6	3183.36	99.14445
Na 330.237	7842.19	ppb	215.611	2.7	375.147	104.56254
Ni 231.604	2464.46	ppb	5.6594	0.2	5831.12	98.57840
Pb 220.353	505.671	ppb	1.3218	0.3	819.749	101.13427
Sb 206.834	1027.90	ppb	11.1738	1.1	664.936	102.78975
Se 196.026	5322.11	ppb	16.1305	0.3	1729.03	106.44228
Sn 189.925	5118.50	ppb	28.2721	0.6	3831.73	102.37006
Sr 216.596	2540.48	ppb	7.2470	0.3	23676.9	101.61923
Ti 334.941	501.499	ppb	1.5662	0.3	126911	100.29980
Tl 190.794	5056.03	ppb	1.6132	0.0	3302.16	101.12064
V 292.401	5083.13	ppb	8.4664	0.2	138873	101.66270
Zn 206.200	2542.77	ppb	1.5586	0.1	3918.94	101.71080

E03292013.vvq. All Data Report 3/30/2013, 8:54:32 AM

Cont Calib Blank (CCB) 3/30/2013, 5:18:31 AM Rack 4, Tube 26

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.6967u	-0.4047u	-0.7662u
Al 308.215	0.4402	2.9956	2.2406
As 188.980	5.7365	-4.5979u	0.2137
B 249.678	2.5030	2.1620	0.8814
Ba 389.178	-1.1462u	-0.4997u	-0.1260u
Be 313.042	-0.0569u	-0.0599u	-0.0725u
Ca 370.602	-0.7481u	-10.12u	2.656
Cd 226.502	0.2027	-0.1085u	-0.0012u
Co 228.615	-1.1095u	-0.1886u	0.4342
Cr 267.716	0.1015	0.3595	0.2159
Cu 324.754	-0.9955u	-0.2395u	-0.9238u
Fe 271.441	1.2809	2.0438	-4.1269u
K 766.491	-0.3390u	-0.9355u	-0.6666u
Mg 279.078	-2.9080u	-2.9559u	1.1269
Mn 257.610	-0.1542u	-0.1864u	-0.1908u
Mo 202.032	0.3265	1.5549	0.7082
Na 330.237	246.170	-54.8563u	108.931
Ni 231.604	2.2176	-0.3074u	-0.7584u
Pb 220.353	0.5566	0.1380	1.2861
Sb 206.834	-2.5009u	-5.5520u	1.7001
Se 196.026	-5.4139u	-1.2897u	16.8545
Sn 189.925	3.1336	1.1611	-2.7545u
Sr 216.596	-0.1808u	0.2669	-0.0523u
Ti 334.941	0.0692	0.1470	0.1775
Tl 190.794	1.5446	1.6189	7.0591
V 292.401	0.1129	-0.2172u	-0.5274u
Zn 206.200	-0.2275u	-0.3449u	1.7727

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	-0.6225	ppb	0.1918	30.8	-100.862	-0.62254
Al 308.215	1.8921	ppb	1.3129	69.4	277.431	1.89211
As 188.980	0.4508	ppb	5.1713	1147.2	-0.4519	0.45078
B 249.678	1.8488	ppb	0.8550	46.2	187.956	1.84879
Ba 389.178	-0.5906	ppb	0.5162	87.4	-15.7822	-0.59064
Be 313.042	-0.0631	ppb	0.0083	13.2	-270.474	-0.06308
Ca 370.602	-2.737	ppb	6.616	241.7	-15.84	-2.73692
Cd 226.502	0.0310	ppb	0.1581	510.3	10.1297	0.03098
Co 228.615	-0.2880	ppb	0.7766	269.7	12.2702	-0.28796
Cr 267.716	0.2256	ppb	0.1293	57.3	12.6684	0.22563
Cu 324.754	-0.7196	ppb	0.4173	58.0	55.1256	-0.71958
Fe 271.441	-0.2674	ppb	3.3641	1258.2	2.8084	-0.26737
K 766.491	-0.6470	ppb	0.2987	46.2	200.810	-0.64703
Mg 279.078	-1.5790	ppb	2.3435	148.4	25.9782	-1.57900
Mn 257.610	-0.1771	ppb	0.0200	11.3	52.1560	-0.17713
Mo 202.032	0.8632	ppb	0.6287	72.8	19.4685	0.86321
Na 330.237	100.081	ppb	150.708	150.6	1.2142	100.08142
Ni 231.604	0.3839	ppb	1.6039	417.8	0.8954	0.38393
Pb 220.353	0.6603	ppb	0.5811	88.0	4.5716	0.66025
Sb 206.834	-2.1176	ppb	3.6412	171.9	-0.3359	-2.11763
Se 196.026	3.3836	ppb	11.8469	350.1	0.9229	3.38364
Sn 189.925	0.5134	ppb	2.9970	583.8	0.7930	0.51339
Sr 216.596	0.0113	ppb	0.2305	2046.6	11.0690	0.01126
Ti 334.941	0.1313	ppb	0.0558	42.5	-28.3485	0.13126
Tl 190.794	3.4075	ppb	3.1625	92.8	0.5428	3.40754
V 292.401	-0.2106	ppb	0.3202	152.1	-0.3912	-0.21057
Zn 206.200	0.4001	ppb	1.1901	297.5	2.4221	0.40008

E03292013.wvq. All Data Report 3/30/2013, 8:54:32 AM

680-88612-a-29-b (Samp) 3/30/2013, 5:23:59 AM Rack 4, Tube 27

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.0265	-0.6034u	-1.0405u
Al 308.215	91020.7	90642.1	91260.3
As 188.980	13.8009	11.5790	14.1791
B 249.678	-7.5096u	-8.2294u	-8.2550u
Ba 389.178	74.1607	72.9041	74.1088
Be 313.042	1.5372	1.5341	1.5401
Ca 370.602	3899	3889	3907
Cd 226.502	-0.8969	-0.7049	-0.4079
Co 228.615	5.5547	4.8271	5.5544
Cr 267.716	92.2617	92.0659	92.1569
Cu 324.754	30.0686	33.3627	30.8980
Fe 271.441	92286.1	92025.0	92497.0
K 766.491	1511.46	1507.06	1522.06
Mg 279.078	1544.25	1535.71	1542.09
Mn 257.610	64.8350	64.7069	64.9741
Mo 202.032	1.9213	2.7597	4.0804
Na 330.237	223.879u	95.1143u	51.7034u
Ni 231.604	18.2889	18.8591	16.7861
Pb 220.353	51.1089	56.5671	49.0606
Sb 206.834	10.0740	1.3275	2.3701
Se 196.026	-1.0471	-6.1241u	-11.6898u
Sn 189.925	10.2623	14.4096	15.8954
Sr 216.596	15.4426	15.0240	15.1220
Ti 334.941	793.677	791.669	796.742
Tl 190.794	-2.4345u	7.9877	5.8966
V 292.401	219.977	218.657	221.017
Zn 206.200	46.0616	46.7609	47.1949

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.5391	ppb	0.5364	99.5	-93.9236
Al 308.215	90974.3	ppb	311.681	0.3	525741
As 188.980	13.1864	ppb	1.4048	10.7	7.0236
B 249.678	-7.9980	ppb	0.4231	5.3	9.7764
Ba 389.178	73.7245	ppb	0.7110	1.0	1589.06
Be 313.042	1.5372	ppb	0.0030	0.2	2823.40
Ca 370.602	3898	ppb	9.170	0.2	5131
Cd 226.502	-0.6699	ppb	0.2464	36.8	183.311
Co 228.615	5.3121	ppb	0.4200	7.9	93.9141
Cr 267.716	92.1615	ppb	0.0980	0.1	3873.14
Cu 324.754	31.4431	ppb	1.7134	5.4	1650.94
Fe 271.441	92269.4	ppb	236.434	0.3	155297
K 766.491	1513.53	ppb	7.7143	0.5	72840.2
Mg 279.078	1540.68	ppb	4.4383	0.3	3197.34
Mn 257.610	64.8387	ppb	0.1336	0.2	15277.4
Mo 202.032	2.9205	ppb	1.0885	37.3	28.2139
Na 330.237	123.566	ppb	89.5447	72.5	-31.7246
Ni 231.604	17.9780	ppb	1.0709	6.0	44.2742
Pb 220.353	52.2455	ppb	3.8802	7.4	85.8117
Sb 206.834	4.5906	ppb	4.7774	104.1	5.6502
Se 196.026	-6.2870	ppb	5.3232	84.7	-1.8529
Sn 189.925	13.5224	ppb	2.9194	21.6	10.5302
Sr 216.596	15.1962	ppb	0.2190	1.4	185.539
Ti 334.941	794.029	ppb	2.5545	0.3	200960
Tl 190.794	3.8166	ppb	5.5137	144.5	-2.2685
V 292.401	219.884	ppb	1.1827	0.5	6035.27
Zn 206.200	46.6724	ppb	0.5718	1.2	72.6974



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680-88612-a-30-d (Samp) 3/30/2013, 5:29:28 AM Rack 4, Tube 28

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.4259	1.1330	0.4039
Al 308.215	60580.8	60558.2	60504.6
As 188.980	41.9020	50.6097	46.4107
B 249.678	14.2629	12.2852	12.3387
Ba 389.178	627.285	628.603	628.892
Be 313.042	2.0105	2.0080	2.0055
Ca 370.602	98244	98211	98064
Cd 226.502	4.2912	4.5269	4.2476
Co 228.615	13.7749	13.7590	13.4200
Cr 267.716	83.5877	83.7346	83.0620
Cu 324.754	218.047	215.964	217.555
Fe 271.441	74970.9	74955.5	74889.1
K 766.491	2938.67	2941.64	2946.70
Mg 279.078	7996.14	7953.83	7934.74
Mn 257.610	1077.53	1076.66	1073.89
Mo 202.032	5.2255	3.5393	4.3310
Na 330.237	679.345u	657.061u	853.971
Ni 231.604	34.4129	37.5610	35.5557
Pb 220.353	1427.15	1410.40	1406.83
Sb 206.834	0.9085	0.5148	3.8162
Se 196.026	-3.3613u	-15.8054u	-5.2502u
Sn 189.925	74.7560	76.7704	79.2626
Sr 216.596	247.802	247.406	247.031
Ti 334.941	840.027	840.299	839.587
Tl 190.794	8.6793	15.6700	8.4412
V 292.401	151.770	151.434	151.285
Zn 206.200	1327.03	1333.31	1328.24

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.6543	ppb	0.4148	63.4	-14.9409
Al 308.215	60547.9	ppb	39.1133	0.1	349996
As 188.980	46.3075	ppb	4.3548	9.4	30.0379
B 249.678	12.9623	ppb	1.1267	8.7	222.289
Ba 389.178	628.260	ppb	0.8566	0.1	13096.7
Be 313.042	2.0080	ppb	0.0025	0.1	3766.15
Ca 370.602	98173	ppb	95.39	0.1	310380
Cd 226.502	4.3552	ppb	0.1502	3.4	325.907
Co 228.615	13.6513	ppb	0.2005	1.5	190.875
Cr 267.716	83.4615	ppb	0.3536	0.4	3510.24
Cu 324.754	217.189	ppb	1.0886	0.5	10721.2
Fe 271.441	74938.5	ppb	43.4719	0.1	126130
K 766.491	2942.34	ppb	4.0597	0.1	141384
Mg 279.078	7961.57	ppb	31.4240	0.4	16439.1
Mn 257.610	1076.03	ppb	1.9024	0.2	248025
Mo 202.032	4.3653	ppb	0.8436	19.3	38.3570
Na 330.237	730.126	ppb	107.831	14.8	-5.3269
Ni 231.604	35.8432	ppb	1.5936	4.4	86.2114
Pb 220.353	1414.80	ppb	10.8493	0.8	2286.28
Sb 206.834	1.7465	ppb	1.8032	103.2	3.5948
Se 196.026	-8.1390	ppb	6.7062	82.4	-2.3563
Sn 189.925	76.9297	ppb	2.2575	2.9	58.0287
Sr 216.596	247.413	ppb	0.3855	0.2	2355.31
Ti 334.941	839.971	ppb	0.3592	0.0	212613
Tl 190.794	10.9302	ppb	4.1066	37.6	1.9727
V 292.401	151.496	ppb	0.2483	0.2	4163.05
Zn 206.200	1329.53	ppb	3.3299	0.3	2057.43

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680-88612-a-30-dSD^5 (Samp) 3/30/2013, 5:34:56 AM Rack 4, Tube 29

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.2895u	-0.0190u	-0.8476u
Al 308.215	13451.4	13080.1	12773.7
As 188.980	12.6709	6.3913	0.9575
B 249.678	-5.7431u	-4.8509u	-5.2812u
Ba 389.178	140.632	134.226	132.344
Be 313.042	0.3921	0.3773	0.3656
Ca 370.602	21686	21161	20703
Cd 226.502	0.8285	1.1287	1.2333
Co 228.615	2.5187	3.4053	3.4141
Cr 267.716	18.7141	18.1225	17.4615
Cu 324.754	47.9731	44.2981	43.4323
Fe 271.441	16941.9	16496.3	16111.5
K 766.491	616.529	604.879	596.562
Mg 279.078	1796.78	1758.18	1714.67
Mn 257.610	241.635	234.894	229.552
Mo 202.032	1.2013	-0.0511u	0.8391
Na 330.237	390.570	292.310	286.633
Ni 231.604	7.4186	8.4347	7.6001
Pb 220.353	311.054	307.299	298.007
Sb 206.834	-5.2985u	-7.7818u	2.3668
Se 196.026	1.4481	-6.4069u	12.1729
Sn 189.925	16.6579	12.9425	12.1784
Sr 216.596	55.7697	53.4006	52.1779
Ti 334.941	187.823	183.518	178.750
Tl 190.794	-7.6921u	-0.1319u	0.4114u
V 292.401	33.5346	32.6689	32.2833
Zn 206.200	297.184	286.482	284.414

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.3853	ppb	0.4225	109.6	-85.0678
Al 308.215	13101.8	ppb	339.379	2.6	75943.1
As 188.980	6.6733	ppb	5.8618	87.8	3.6895
B 249.678	-5.2917	ppb	0.4462	8.4	105.690
Ba 389.178	135.734	ppb	4.3450	3.2	2826.99
Be 313.042	0.3783	ppb	0.0133	3.5	590.098
Ca 370.602	21183	ppb	491.8	2.3	66939
Cd 226.502	1.0635	ppb	0.2101	19.8	82.5638
Co 228.615	3.1127	ppb	0.5144	16.5	55.3657
Cr 267.716	18.0994	ppb	0.6266	3.5	763.830
Cu 324.754	45.2345	ppb	2.4109	5.3	2304.64
Fe 271.441	16516.6	ppb	415.590	2.5	27801.8
K 766.491	605.990	ppb	10.0295	1.7	29303.0
Mg 279.078	1756.54	ppb	41.0779	2.3	3649.80
Mn 257.610	235.360	ppb	6.0550	2.6	54323.6
Mo 202.032	0.6631	ppb	0.6445	97.2	17.4009
Na 330.237	323.171	ppb	58.4383	18.1	4.1508
Ni 231.604	7.8178	ppb	0.5419	6.9	18.7965
Pb 220.353	305.453	ppb	6.7167	2.2	496.354
Sb 206.834	-3.5712	ppb	5.2902	148.1	-0.8908
Se 196.026	2.4047	ppb	9.3268	387.9	0.7067
Sn 189.925	13.9263	ppb	2.3963	17.2	10.8407
Sr 216.596	53.7827	ppb	1.8261	3.4	520.663
Ti 334.941	183.364	ppb	4.5386	2.5	46364.8
Tl 190.794	-2.4709	ppb	4.5299	183.3	-4.0696
V 292.401	32.8289	ppb	0.6408	2.0	906.530
Zn 206.200	289.360	ppb	6.8539	2.4	449.194

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**680-88612-a-30-dPDS (Samp) 3/30/2013, 5:40:24 AM Rack 4, Tube 30****Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	53.5120	53.4953	54.8624
Al 308.215	61266.6	61297.7	61276.4
As 188.980	2379.57	2403.55	2385.16
B 249.678	1212.09	1225.81	1235.40
Ba 389.178	2654.20	2657.78	2668.70
Be 313.042	58.4606	58.5506	58.4269
Ca 370.602	100725	100795	100552
Cd 226.502	59.0945	58.8482	58.7398
Co 228.615	554.555	558.151	553.368
Cr 267.716	299.327	298.961	297.725
Cu 324.754	479.565	483.791	488.041
Fe 271.441	74062.6	74044.8	74099.2
K 766.491	8621.08	8649.89	8638.49
Mg 279.078	13470.1	13471.0	13456.3
Mn 257.610	1600.34	1600.66	1599.79
Mo 202.032	534.704	537.151	537.542
Na 330.237	5627.95	5876.42	5988.85
Ni 231.604	570.277	566.213	565.123
Pb 220.353	1899.23	1888.16	1881.62
Sb 206.834	518.638	517.062	507.280
Se 196.026	2261.63	2267.38	2265.51
Sn 189.925	1158.23	1155.89	1164.26
Sr 216.596	787.497	786.442	779.038
Ti 334.941	1859.46	1865.24	1854.94
Tl 190.794	2104.28	2129.83	2106.50
V 292.401	680.841	682.194	681.340
Zn 206.200	1847.98	1840.72	1846.34

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	53.9566	ppb	0.7845	1.5	3760.55
Al 308.215	61280.2	ppb	15.9312	0.0	354287
As 188.980	2389.43	ppb	12.5444	0.5	1583.23
B 249.678	1224.43	ppb	11.7181	1.0	11571.7
Ba 389.178	2660.22	ppb	7.5529	0.3	55300.5
Be 313.042	58.4794	ppb	0.0640	0.1	112829
Ca 370.602	100690	ppb	125.1	0.1	318776
Cd 226.502	58.8942	ppb	0.1818	0.3	2275.30
Co 228.615	555.358	ppb	2.4905	0.4	6388.17
Cr 267.716	298.671	ppb	0.8392	0.3	12500.3
Cu 324.754	483.799	ppb	4.2376	0.9	23755.2
Fe 271.441	74068.9	ppb	27.7706	0.0	124756
K 766.491	8636.49	ppb	14.5123	0.2	414550
Mg 279.078	13465.8	ppb	8.2394	0.1	27790.4
Mn 257.610	1600.26	ppb	0.4387	0.0	368724
Mo 202.032	536.466	ppb	1.5381	0.3	3448.85
Na 330.237	5831.08	ppb	184.673	3.2	245.561
Ni 231.604	567.205	ppb	2.7161	0.5	1343.42
Pb 220.353	1889.67	ppb	8.8991	0.5	3051.62
Sb 206.834	514.327	ppb	6.1535	1.2	317.650
Se 196.026	2264.84	ppb	2.9315	0.1	735.890
Sn 189.925	1159.46	ppb	4.3202	0.4	868.329
Sr 216.596	784.326	ppb	4.6093	0.6	7342.91
Ti 334.941	1859.88	ppb	5.1673	0.3	470816
Tl 190.794	2113.53	ppb	14.1576	0.7	1376.98
V 292.401	681.458	ppb	0.6840	0.1	18581.8
Zn 206.200	1845.01	ppb	3.8991	0.2	2853.89

E03292013.vvq. All Data Report 3/30/2013, 8:54:32 AM

**680-88612-a-30-e ms (Samp)**      **3/30/2013, 5:45:52 AM**      **Rack 4, Tube 31****Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	13.6782	12.1264	13.0822
Al 308.215	62086.7	62112.6	62171.2
As 188.980	132.181	120.188	129.210
B 249.678	194.471	192.222	190.823
Ba 389.178	612.786	611.558	614.961
Be 313.042	44.9434	45.0016	44.8544
Ca 370.602	80419	80414	80105
Cd 226.502	47.1484	47.4576	47.4589
Co 228.615	54.0087	54.2290	54.9111
Cr 267.716	158.188	158.589	158.243
Cu 324.754	303.199	301.156	299.058
Fe 271.441	71453.3	71447.9	71561.0
K 766.491	6904.96	6911.85	6908.15
Mg 279.078	10258.1	10230.2	10252.4
Mn 257.610	1594.15	1593.35	1594.43
Mo 202.032	81.7432	81.4550	81.1928
Na 330.237	4597.33	4569.44	4320.75
Ni 231.604	126.632	126.753	125.047
Pb 220.353	1284.89	1282.84	1286.48
Sb 206.834	32.9116	28.1579	18.0668
Se 196.026	60.4146	90.8162	83.8640
Sn 189.925	227.884	229.218	228.789
Sr 216.596	279.930	279.221	278.976
Ti 334.941	836.593	836.332	831.976
Tl 190.794	41.2945	43.8044	44.8693
V 292.401	227.162	228.366	227.787
Zn 206.200	1406.79	1397.48	1406.47

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	12.9623	ppb	0.7828	6.0	862.171
Al 308.215	62123.5	ppb	43.2771	0.1	359106
As 188.980	127.193	ppb	6.2460	4.9	83.5120
B 249.678	192.505	ppb	1.8407	1.0	1907.42
Ba 389.178	613.101	ppb	1.7233	0.3	12781.2
Be 313.042	44.9331	ppb	0.0741	0.2	86725.0
Ca 370.602	80313	ppb	179.8	0.2	253128
Cd 226.502	47.3550	ppb	0.1789	0.4	1856.82
Co 228.615	54.3829	ppb	0.4705	0.9	653.797
Cr 267.716	158.340	ppb	0.2177	0.1	6638.93
Cu 324.754	301.138	ppb	2.0706	0.7	14822.9
Fe 271.441	71487.4	ppb	63.8326	0.1	120329
K 766.491	6908.32	ppb	3.4473	0.0	331644
Mg 279.078	10246.9	ppb	14.7413	0.1	21146.3
Mn 257.610	1593.97	ppb	0.5608	0.0	367249
Mo 202.032	81.4637	ppb	0.2753	0.3	532.667
Na 330.237	4495.84	ppb	152.269	3.4	188.993
Ni 231.604	126.144	ppb	0.9520	0.8	299.803
Pb 220.353	1284.74	ppb	1.8260	0.1	2076.27
Sb 206.834	26.3787	ppb	7.5806	28.7	18.7976
Se 196.026	78.3650	ppb	15.9294	20.3	25.8075
Sn 189.925	228.631	ppb	0.6810	0.3	171.575
Sr 216.596	279.375	ppb	0.4953	0.2	2647.08
Ti 334.941	834.967	ppb	2.5937	0.3	211355
Tl 190.794	43.3227	ppb	1.8355	4.2	22.7952
V 292.401	227.771	ppb	0.6021	0.3	6232.99
Zn 206.200	1403.58	ppb	5.2839	0.4	2171.72

E03292013.wvq. All Data Report 3/30/2013, 8:54:32 AM

**680-88612-a-30-f msd (Samp) 3/30/2013, 5:51:31 AM Rack 4, Tube 32****Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	15.2747	14.8339	13.4681
Al 308.215	63282.2	63296.7	63459.4
As 188.980	128.824	138.863	131.972
B 249.678	187.398	189.141	190.671
Ba 389.178	868.683	869.133	871.699
Be 313.042	47.7092	47.6154	47.6860
Ca 370.602	123211	123176	123074
Cd 226.502	47.7471	47.6983	48.3609
Co 228.615	65.6141	65.7438	65.6933
Cr 267.716	162.758	161.863	162.273
Cu 324.754	277.064	274.068	269.897
Fe 271.441	92017.0	92130.6	92373.9
K 766.491	7744.86	7732.67	7714.21
Mg 279.078	10364.3	10384.2	10393.2
Mn 257.610	2023.08	2025.84	2032.15
Mo 202.032	88.6739	88.0044	87.4749
Na 330.237	4942.41	4577.75	5003.47
Ni 231.604	120.553	122.478	124.566
Pb 220.353	1070.65	1073.69	1075.99
Sb 206.834	18.3509	25.5063	40.2053
Se 196.026	85.2879	87.6593	64.8737
Sn 189.925	230.960	233.276	230.507
Sr 216.596	752.567	752.461	751.187
Ti 334.941	979.369	974.911	972.970
Tl 190.794	53.5179	40.4230	44.6371
V 292.401	240.446	241.598	241.509
Zn 206.200	1146.27	1141.59	1156.04

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	14.5256	ppb	0.9419	6.5	955.532
Al 308.215	63346.1	ppb	98.3668	0.2	366168
As 188.980	133.220	ppb	5.1343	3.9	87.6796
B 249.678	189.070	ppb	1.6377	0.9	1856.03
Ba 389.178	869.839	ppb	1.6271	0.2	18126.6
Be 313.042	47.6702	ppb	0.0489	0.1	92029.8
Ca 370.602	123154	ppb	70.79	0.1	389523
Cd 226.502	47.9354	ppb	0.3693	0.8	1921.89
Co 228.615	65.6837	ppb	0.0654	0.1	785.708
Cr 267.716	162.298	ppb	0.4482	0.3	6810.30
Cu 324.754	273.676	ppb	3.5993	1.3	13487.2
Fe 271.441	92173.8	ppb	182.341	0.2	155146
K 766.491	7730.58	ppb	15.4342	0.2	371091
Mg 279.078	10380.6	ppb	14.8022	0.1	21418.7
Mn 257.610	2027.03	ppb	4.6495	0.2	466987
Mo 202.032	88.0511	ppb	0.6008	0.7	573.966
Na 330.237	4841.21	ppb	230.198	4.8	201.399
Ni 231.604	122.532	ppb	2.0068	1.6	291.643
Pb 220.353	1073.45	ppb	2.6790	0.2	1735.15
Sb 206.834	28.0208	ppb	11.1420	39.8	20.0915
Se 196.026	79.2736	ppb	12.5269	15.8	26.2522
Sn 189.925	231.581	ppb	1.4851	0.6	173.800
Sr 216.596	752.072	ppb	0.7677	0.1	7070.79
Ti 334.941	975.750	ppb	3.2812	0.3	246996
Tl 190.794	46.1927	ppb	6.6846	14.5	23.5713
V 292.401	241.184	ppb	0.6408	0.3	6601.27
Zn 206.200	1147.97	ppb	7.3797	0.6	51776.44

E03292013.wvq. All Data Report 3/30/2013, 8:54:32 AM

680-88612-a-31-b (Samp) 3/30/2013, 5:57:00 AM Rack 4, Tube 33

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.8197u	-0.4170u	0.2503
Al 308.215	64100.8	64364.7	64284.9
As 188.980	10.1669	11.8347	8.7793
B 249.678	0.4679u	0.7338u	-0.5062u
Ba 389.178	1151.16	1157.28	1149.92
Be 313.042	1.2766	1.2749	1.2830
Ca 370.602	5906	5922	5912
Cd 226.502	-0.5073	-0.3867	-0.3002
Co 228.615	3.5170	4.0379	4.2466
Cr 267.716	80.5814	81.2174	80.9154
Cu 324.754	39.4679	36.7385	37.0662
Fe 271.441	81894.0	82453.2	82208.9
K 766.491	1632.95	1637.62	1627.69
Mg 279.078	1763.86	1760.33	1770.84
Mn 257.610	356.699	358.629	358.702
Mo 202.032	3.1705	2.9522	2.6356
Na 330.237	187.485u	399.384u	551.395u
Ni 231.604	13.3588	14.4888	14.7796
Pb 220.353	328.137	319.769	326.478
Sb 206.834	-1.3107	12.4002	-10.8951u
Se 196.026	-8.4577u	-8.7681u	-4.9278u
Sn 189.925	9.2084	12.8600	19.1063
Sr 216.596	48.2264	48.4896	49.3482
Ti 334.941	622.174	624.552	624.860
Tl 190.794	9.2141	9.3746	-1.1276u
V 292.401	172.719	173.059	173.106
Zn 206.200	80.6274	83.1972	85.2089

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.3288	ppb	0.5404	164.4	-79.4253
Al 308.215	64250.1	ppb	135.316	0.2	371380
As 188.980	10.2603	ppb	1.5298	14.9	5.2125
B 249.678	0.2318	ppb	0.6528	281.6	96.2904
Ba 389.178	1152.79	ppb	3.9390	0.3	23991.6
Be 313.042	1.2782	ppb	0.0043	0.3	2322.04
Ca 370.602	5913	ppb	7.961	0.1	12430
Cd 226.502	-0.3981	ppb	0.1040	26.1	171.312
Co 228.615	3.9338	ppb	0.3758	9.6	74.0952
Cr 267.716	80.9047	ppb	0.3181	0.4	3401.75
Cu 324.754	37.7575	ppb	1.4903	3.9	1956.98
Fe 271.441	82185.4	ppb	280.353	0.3	138325
K 766.491	1632.75	ppb	4.9680	0.3	78559.9
Mg 279.078	1765.01	ppb	5.3515	0.3	3661.80
Mn 257.610	358.010	ppb	1.1359	0.3	82733.5
Mo 202.032	2.9194	ppb	0.2689	9.2	28.7325
Na 330.237	379.421	ppb	182.775	48.2	-14.4790
Ni 231.604	14.2091	ppb	0.7506	5.3	35.1592
Pb 220.353	324.795	ppb	4.4310	1.4	526.453
Sb 206.834	0.0648	ppb	11.7084	18071.5	2.6437
Se 196.026	-7.3845	ppb	2.1332	28.9	-2.2005
Sn 189.925	13.7249	ppb	5.0053	36.5	10.6828
Sr 216.596	48.6881	ppb	0.5866	1.2	494.810
Ti 334.941	623.862	ppb	1.4702	0.2	157882
Tl 190.794	5.8203	ppb	6.0177	103.4	-0.9173
V 292.401	172.961	ppb	0.2112	0.1	4747.98
Zn 206.200	83.0112	ppb	2.2964	2.8	129.922

E03292013.wvq. All Data Report 3/30/2013, 8:54:32 AM

680-88612-a-32-b (Samp) 3/30/2013, 6:02:28 AM Rack 4, Tube 34

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-1.2772u	-0.5289u	-1.0125u
Al 308.215	72239.3	72108.9	72235.4
As 188.980	4.2886	5.9982	5.7377
B 249.678	-9.4559u	-8.9132u	-10.3477u
Ba 389.178	222.005	222.135	222.233
Be 313.042	1.5509	1.5424	1.5640
Ca 370.602	5450	5439	5455
Cd 226.502	-0.2956	-0.5389	-0.3468
Co 228.615	3.1860	4.1095	2.6530
Cr 267.716	96.3782	96.7024	96.7100
Cu 324.754	42.7825	42.2540	43.9947
Fe 271.441	78541.6	78454.1	78558.2
K 766.491	2446.87	2440.84	2436.97
Mg 279.078	2483.55	2482.62	2493.28
Mn 257.610	114.186	114.158	114.309
Mo 202.032	2.4012	1.6264	2.2595
Na 330.237	132.376u	222.902u	385.971u
Ni 231.604	13.0294	11.1180	10.8815
Pb 220.353	54.1379	56.3160	56.4672
Sb 206.834	0.7507	-2.5657	3.5317
Se 196.026	4.7618	-19.5488u	-5.3951u
Sn 189.925	16.7029	14.4280	12.1743
Sr 216.596	29.1964	28.1047	28.3461
Ti 334.941	858.203	856.077	861.192
Tl 190.794	10.4555	4.3621	-0.7145u
V 292.401	355.526	355.075	355.895
Zn 206.200	46.7792	44.5741	45.0556

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.9395	ppb	0.3795	40.4	-122.032
Al 308.215	72194.5	ppb	74.1929	0.1	417264
As 188.980	5.3415	ppb	0.9211	17.2	1.9868
B 249.678	-9.5722	ppb	0.7243	7.6	7.8294
Ba 389.178	222.124	ppb	0.1140	0.1	4662.64
Be 313.042	1.5524	ppb	0.0109	0.7	2846.75
Ca 370.602	5448	ppb	8.452	0.2	11268
Cd 226.502	-0.3938	ppb	0.1283	32.6	163.680
Co 228.615	3.3162	ppb	0.7370	22.2	73.3058
Cr 267.716	96.5969	ppb	0.1894	0.2	4054.63
Cu 324.754	43.0104	ppb	0.8925	2.1	2210.77
Fe 271.441	78518.0	ppb	55.9388	0.1	132154
K 766.491	2441.56	ppb	4.9914	0.2	117361
Mg 279.078	2486.48	ppb	5.9061	0.2	5151.66
Mn 257.610	114.218	ppb	0.0805	0.1	26611.7
Mo 202.032	2.0957	ppb	0.4125	19.7	23.3077
Na 330.237	247.083	ppb	128.516	52.0	-21.7648
Ni 231.604	11.6763	ppb	1.1778	10.1	29.1016
Pb 220.353	55.6404	ppb	1.3034	2.3	91.6051
Sb 206.834	0.5722	ppb	3.0526	533.5	3.0028
Se 196.026	-6.7274	ppb	12.2099	181.5	-2.0407
Sn 189.925	14.4351	ppb	2.2643	15.7	11.2142
Sr 216.596	28.5491	ppb	0.5735	2.0	305.561
Ti 334.941	858.490	ppb	2.5693	0.3	217279
Tl 190.794	4.7010	ppb	5.5927	119.0	-1.2337
V 292.401	355.499	ppb	0.4107	0.1	9751.51
Zn 206.200	45.4696	ppb	1.1594	2.5	571.8241

E03292013.wvq. All Data Report 3/30/2013, 8:54:32 AM

680-88612-a-33-b (Samp) 3/30/2013, 6:07:56 AM Rack 4, Tube 35

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	2.3441	0.3961	0.3635
Al 308.215	33465.4	33538.9	33520.0
As 188.980	21.0912	19.9361	20.1483
B 249.678	-8.1528u	-8.2819u	-10.2579u
Ba 389.178	210.389	207.888	207.408
Be 313.042	0.8136	0.8325	0.8282
Ca 370.602	7004	7041	7041
Cd 226.502	0.0873	-0.0573	0.0984
Co 228.615	5.4622	5.1355	4.9420
Cr 267.716	43.3291	43.7919	43.4583
Cu 324.754	102.207	106.584	107.945
Fe 271.441	45194.6	45228.0	45129.5
K 766.491	1379.25	1376.40	1374.52
Mg 279.078	1783.61	1793.41	1788.56
Mn 257.610	453.924	455.570	454.919
Mo 202.032	1.5740	2.7418	1.2677
Na 330.237	337.720u	50.9369u	214.575u
Ni 231.604	14.8940	13.9629	13.6154
Pb 220.353	2270.13	2292.10	2295.93
Sb 206.834	3.4685	1.7303	4.2751
Se 196.026	-10.5235u	-10.0409u	-7.4121u
Sn 189.925	55.2377	53.5999	49.4003
Sr 216.596	29.1600	29.0961	29.8958
Ti 334.941	427.437	430.053	430.650
Tl 190.794	6.2215	1.1147u	2.5337u
V 292.401	103.418	103.663	102.446
Zn 206.200	406.034	410.885	408.047

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	1.0346	ppb	1.1342	109.6	18.3775
Al 308.215	33508.1	ppb	38.1404	0.1	193812
As 188.980	20.3918	ppb	0.6148	3.0	12.3412
B 249.678	-8.8976	ppb	1.1799	13.3	45.2050
Ba 389.178	208.562	ppb	1.6009	0.8	4358.34
Be 313.042	0.8248	ppb	0.0099	1.2	1446.13
Ca 370.602	7028	ppb	21.42	0.3	19025
Cd 226.502	0.0428	ppb	0.0869	203.0	107.686
Co 228.615	5.1799	ppb	0.2630	5.1	84.4083
Cr 267.716	43.5264	ppb	0.2388	0.5	1832.87
Cu 324.754	105.579	ppb	2.9984	2.8	5260.37
Fe 271.441	45184.1	ppb	50.0725	0.1	76050.7
K 766.491	1376.72	ppb	2.3778	0.2	66277.3
Mg 279.078	1788.53	ppb	4.8965	0.3	3711.39
Mn 257.610	454.804	ppb	0.8293	0.2	104913
Mo 202.032	1.8612	ppb	0.7779	41.8	23.6976
Na 330.237	201.077	ppb	143.867	71.5	-13.5220
Ni 231.604	14.1574	ppb	0.6611	4.7	34.3378
Pb 220.353	2286.05	ppb	13.9250	0.6	3693.44
Sb 206.834	3.1580	ppb	1.3005	41.2	3.8186
Se 196.026	-9.3255	ppb	1.6745	18.0	-2.9569
Sn 189.925	52.7460	ppb	3.0110	5.7	39.8921
Sr 216.596	29.3839	ppb	0.4444	1.5	301.653
Ti 334.941	429.380	ppb	1.7092	0.4	108646
Tl 190.794	3.2900	ppb	2.6361	80.1	-1.4493
V 292.401	103.176	ppb	0.6436	0.6	2835.66
Zn 206.200	408.322	ppb	2.4359	0.6	623.070



E03292013.wvq. All Data Report 3/30/2013, 8:54:32 AM

680-88612-a-34-b (Samp) 3/30/2013, 6:13:24 AM Rack 4, Tube 36

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.6299u	-0.8384u	-1.7228u
Al 308.215	44969.9	45053.4	44975.0
As 188.980	50.5738	41.6047	48.6322
B 249.678	-7.2861u	-7.9876u	-6.3027u
Ba 389.178	1438.35	1428.20	1427.90
Be 313.042	2.5998	2.6026	2.5982
Ca 370.602	181891	183419	182992
Cd 226.502	0.6608	0.8373	0.6963
Co 228.615	13.3483	12.2879	11.7829
Cr 267.716	88.6757	89.5377	89.2974
Cu 324.754	177.663	176.982	178.291
Fe 271.441	109660	109650	109421
K 766.491	2352.41	2349.60	2353.11
Mg 279.078	7699.85	7716.24	7699.28
Mn 257.610	880.362	880.875	880.275
Mo 202.032	2.7191	2.3095	2.6050
Na 330.237	607.341u	817.190u	656.780u
Ni 231.604	30.1701	32.1856	26.6705
Pb 220.353	16400.4	16439.4	16437.1
Sb 206.834	8.4635	5.6888	2.9038
Se 196.026	0.1380	-14.3677u	22.3817
Sn 189.925	102.427	105.139	101.883
Sr 216.596	322.205	325.080	326.070
Ti 334.941	1139.73	1147.37	1145.91
Tl 190.794	8.8226	4.4915u	8.0958
V 292.401	218.069	218.243	217.606
Zn 206.200	1463.96	1468.17	1467.26

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.0637	ppb	0.5803	54.6	-141.147
Al 308.215	44999.4	ppb	46.8093	0.1	260185
As 188.980	46.9369	ppb	4.7188	10.1	30.8546
B 249.678	-7.1921	ppb	0.8464	11.8	1.1816
Ba 389.178	1431.48	ppb	5.9510	0.4	29800.2
Be 313.042	2.6002	ppb	0.0022	0.1	4932.97
Ca 370.602	182767	ppb	788.5	0.4	580178
Cd 226.502	0.7315	ppb	0.0933	12.8	271.012
Co 228.615	12.4730	ppb	0.7990	6.4	184.162
Cr 267.716	89.1703	ppb	0.4449	0.5	3754.97
Cu 324.754	177.645	ppb	0.6546	0.4	8798.64
Fe 271.441	109577	ppb	135.058	0.1	184427
K 766.491	2351.70	ppb	1.8583	0.1	113050
Mg 279.078	7705.13	ppb	9.6303	0.1	15923.6
Mn 257.610	880.504	ppb	0.3244	0.0	203113
Mo 202.032	2.5445	ppb	0.2114	8.3	25.0407
Na 330.237	693.770	ppb	109.706	15.8	-20.9636
Ni 231.604	29.6754	ppb	2.7907	9.4	72.2593
Pb 220.353	16425.6	ppb	21.8775	0.1	26520.3
Sb 206.834	5.6854	ppb	2.7798	48.9	6.5727
Se 196.026	2.7173	ppb	18.5100	681.2	1.2706
Sn 189.925	103.150	ppb	1.7438	1.7	77.6866
Sr 216.596	324.452	ppb	2.0073	0.6	3094.46
Ti 334.941	1144.34	ppb	4.0574	0.4	289663
Tl 190.794	7.1366	ppb	2.3194	32.5	-1.4604
V 292.401	217.973	ppb	0.3292	0.2	5989.19
Zn 206.200	1466.46	ppb	2.2147	0.2	2269.16

E03292013.wvq. All Data Report 3/30/2013, 8:54:32 AM

Cont Calib Verif (CCV)                      3/30/2013, 6:18:52 AM                      Rack 4, Tube 37  
 Weight: 1    Volume: 1    Dilution: 1

Label	Replicates Concentration		
Ag 328.068	510.742	508.719	501.417
Al 308.215	5274.43	5204.14	5230.50
As 188.980	559.980	562.815	566.584
B 249.678	621.587	622.295	625.902
Ba 389.178	4619.89	4563.11	4572.23
Be 313.042	516.641	511.653	513.730
Ca 370.602	4905	4852	4873
Cd 226.502	496.930	494.119	494.504
Co 228.615	496.168	489.171	489.735
Cr 267.716	4992.45	4950.96	4961.48
Cu 324.754	4827.24	4777.94	4744.66
Fe 271.441	5357.61	5303.61	5292.21
K 766.491	10059.2	9940.41	9989.35
Mg 279.078	5422.89	5367.93	5371.60
Mn 257.610	4940.36	4890.69	4901.13
Mo 202.032	500.313	494.111	499.536
Na 330.237	8016.18	7777.66	7843.53
Ni 231.604	2485.98	2467.59	2460.56
Pb 220.353	504.957	504.615	505.021
Sb 206.834	1035.87	1042.07	1041.84
Se 196.026	5355.10	5342.74	5317.71
Sn 189.925	5152.63	5193.06	5156.68
Sr 216.596	2556.65	2541.74	2544.29
Ti 334.941	503.777	499.510	501.505
Tl 190.794	5105.15	5041.08	5059.24
V 292.401	5138.63	5072.90	5095.53
Zn 206.200	2556.76	2563.75	2557.89

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	506.959	ppb	4.9053	1.0	35959.4	101.39185
Al 308.215	5236.35	ppb	35.5086	0.7	30486.7	104.72709
As 188.980	563.126	ppb	3.3131	0.6	372.404	112.62526Q
B 249.678	623.261	ppb	2.3139	0.4	6004.11	24.93045Q
Ba 389.178	4585.08	ppb	30.4950	0.7	95234.2	91.70153
Be 313.042	514.008	ppb	2.5057	0.5	993239	102.80160
Ca 370.602	4877	ppb	26.86	0.6	15549	97.53478
Cd 226.502	495.184	ppb	1.5236	0.3	17736.4	99.03688
Co 228.615	491.691	ppb	3.8875	0.8	5641.18	98.33826
Cr 267.716	4968.29	ppb	21.5666	0.4	207549	99.36589
Cu 324.754	4783.28	ppb	41.5509	0.9	233742	95.66560
Fe 271.441	5317.81	ppb	34.9322	0.7	9077.11	106.35623
K 766.491	9996.30	ppb	59.6775	0.6	479784	99.96304
Mg 279.078	5387.47	ppb	30.7261	0.6	11070.3	107.74944
Mn 257.610	4910.73	ppb	26.1924	0.5	1130490	98.21452
Mo 202.032	497.986	ppb	3.3790	0.7	3197.84	99.59727
Na 330.237	7879.12	ppb	123.177	1.6	376.902	105.05499
Ni 231.604	2471.38	ppb	13.1263	0.5	5847.49	98.85516
Pb 220.353	504.864	ppb	0.2185	0.0	818.448	100.97285
Sb 206.834	1039.93	ppb	3.5190	0.3	672.505	103.99264
Se 196.026	5338.52	ppb	19.0514	0.4	1734.36	106.77032
Sn 189.925	5167.46	ppb	22.2660	0.4	3868.38	103.34914
Sr 216.596	2547.56	ppb	7.9782	0.3	23742.8	101.90240
Ti 334.941	501.598	ppb	2.1352	0.4	126936	100.31953
Tl 190.794	5068.49	ppb	33.0258	0.7	3310.29	101.36978
V 292.401	5102.35	ppb	33.3932	0.7	139398	102.04707
Zn 206.200	2559.46	ppb	3.7505	0.1	3944.69	102.37856

E03292013.vvq. All Data Report 3/30/2013, 8:54:32 AM

Cont Calib Blank (CCB) 3/30/2013, 6:24:21 AM Rack 4, Tube 38

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.1340u	0.3180	-1.1039u
Al 308.215	3.8907	5.8972	4.6072
As 188.980	0.8458	2.2278	3.8756
B 249.678	4.5235	4.1550	1.8004
Ba 389.178	1.1776	0.9268	0.8102
Be 313.042	-0.0687u	-0.0533u	-0.0661u
Ca 370.602	-5.255u	-4.112u	1.018
Cd 226.502	0.0996	0.4101	-0.0718u
Co 228.615	0.2261	0.3451	-0.3512u
Cr 267.716	-0.1471u	-0.1657u	-0.1965u
Cu 324.754	-1.1725u	-0.5509u	-0.8262u
Fe 271.441	1.2862	9.4277	4.8413
K 766.491	-0.3863u	-0.3750u	-1.0640u
Mg 279.078	3.4289	0.5607	2.8633
Mn 257.610	-0.1671u	-0.2761u	-0.2231u
Mo 202.032	1.5757	0.2272	-0.0404u
Na 330.237	54.1154	287.803	30.6343
Ni 231.604	0.9473	0.5336	0.1618
Pb 220.353	0.3242	-5.1130u	-1.5903u
Sb 206.834	0.6824	-6.9114u	3.7666
Se 196.026	4.9755	-0.0213u	-5.1078u
Sn 189.925	-1.2368u	2.1287	0.4544
Sr 216.596	0.4338	0.6999	-0.2219u
Ti 334.941	0.1402	0.0962	0.0121
Tl 190.794	-0.5212u	8.5365	4.6874
V 292.401	-0.5426u	0.2720	-0.3964u
Zn 206.200	-0.8210u	-2.2417u	-2.3528u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	-0.3066	ppb	0.7265	236.9	-78.3958	-0.30664
Al 308.215	4.7983	ppb	1.0168	21.2	294.223	4.79833
As 188.980	2.3164	ppb	1.5169	65.5	0.7848	2.31639
B 249.678	3.4930	ppb	1.4773	42.3	203.360	3.49296
Ba 389.178	0.9715	ppb	0.1878	19.3	16.6605	0.97154
Be 313.042	-0.0627	ppb	0.0082	13.1	-269.707	-0.06268
Ca 370.602	-2.783	ppb	3.341	120.0	-15.87	-2.78299
Cd 226.502	0.1460	ppb	0.2443	167.4	14.2403	0.14598
Co 228.615	0.0733	ppb	0.3725	507.8	16.3933	0.07335
Cr 267.716	-0.1698	ppb	0.0249	14.7	-3.8503	-0.16975
Cu 324.754	-0.8499	ppb	0.3115	36.7	48.7607	-0.84988
Fe 271.441	5.1851	ppb	4.0816	78.7	11.9858	5.18509
K 766.491	-0.6084	ppb	0.3946	64.9	202.662	-0.60843
Mg 279.078	2.2843	ppb	1.5192	66.5	33.9510	2.28430
Mn 257.610	-0.2221	ppb	0.0545	24.5	41.8175	-0.22210
Mo 202.032	0.5875	ppb	0.8662	147.4	17.7008	0.58747
Na 330.237	124.184	ppb	142.183	114.5	2.4720	124.18413
Ni 231.604	0.5476	ppb	0.3930	71.8	1.2825	0.54758
Pb 220.353	-2.1264	ppb	2.7579	129.7	0.0727	-2.12637
Sb 206.834	-0.8208	ppb	5.4954	669.5	0.4633	-0.82080
Se 196.026	-0.0512	ppb	5.0417	9845.5	-0.1926	-0.05121
Sn 189.925	0.4488	ppb	1.6828	375.0	0.7446	0.44876
Sr 216.596	0.3039	ppb	0.4744	156.1	13.8056	0.30394
Ti 334.941	0.0828	ppb	0.0651	78.6	-40.5946	0.08285
Tl 190.794	4.2342	ppb	4.5458	107.4	1.0836	4.23420
V 292.401	-0.2223	ppb	0.4343	195.3	-0.7006	-0.22235
Zn 206.200	-1.8052	ppb	0.8541	47.3	-0.9869	-1.80515

E03292013.wvq. All Data Report 3/30/2013, 8:54:32 AM

680-88612-a-35-b (Samp) 3/30/2013, 6:29:50 AM Rack 4, Tube 39

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	1.1298	1.3826	0.5173
Al 308.215	82970.8	82756.8	83029.9
As 188.980	10.6380	10.0788	4.3135
B 249.678	-11.1986u	-8.6413u	-10.7666u
Ba 389.178	461.364	461.103	464.671
Be 313.042	1.6163	1.6330	1.6329
Ca 370.602	4464	4452	4465
Cd 226.502	-0.3343	-0.6918	-0.3605
Co 228.615	6.5776	6.2941	7.2157
Cr 267.716	103.470	103.386	103.514
Cu 324.754	39.8302	40.1863	41.5542
Fe 271.441	83793.0	83507.9	83822.9
K 766.491	3623.16	3612.76	3634.03
Mg 279.078	3305.41	3294.41	3310.91
Mn 257.610	264.214	263.097	264.008
Mo 202.032	1.9710	1.2997	1.3414
Na 330.237	394.019u	416.483u	323.808u
Ni 231.604	15.7809	17.8078	18.4994
Pb 220.353	56.8454	58.6852	55.4133
Sb 206.834	0.1894	-5.3864u	5.2653
Se 196.026	19.2482	-15.4062u	-23.7824u
Sn 189.925	19.8998	21.1763	18.0961
Sr 216.596	29.1563	28.5611	30.1373
Ti 334.941	1267.69	1266.44	1269.28
Tl 190.794	8.6651	8.9011	3.7270u
V 292.401	181.694	181.065	182.257
Zn 206.200	64.6953	65.3626	62.5315

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	1.0099	ppb	0.4449	44.1	16.3523
Al 308.215	82919.2	ppb	143.657	0.2	479214
As 188.980	8.3434	ppb	3.5012	42.0	3.9110
B 249.678	-10.2021	ppb	1.3689	13.4	-2.9506
Ba 389.178	462.380	ppb	1.9891	0.4	9655.53
Be 313.042	1.6274	ppb	0.0096	0.6	2998.56
Ca 370.602	4460	ppb	7.256	0.2	7734
Cd 226.502	-0.4622	ppb	0.1993	43.1	172.500
Co 228.615	6.6958	ppb	0.4720	7.0	122.346
Cr 267.716	103.457	ppb	0.0648	0.1	4345.10
Cu 324.754	40.5236	ppb	0.9101	2.2	2092.45
Fe 271.441	83707.9	ppb	173.891	0.2	140888
K 766.491	3623.32	ppb	10.6396	0.3	174053
Mg 279.078	3303.57	ppb	8.3999	0.3	6833.41
Mn 257.610	263.773	ppb	0.5942	0.2	61055.4
Mo 202.032	1.5374	ppb	0.3761	24.5	19.7856
Na 330.237	378.103	ppb	48.3438	12.8	-19.9152
Ni 231.604	17.3627	ppb	1.4129	8.1	42.6572
Pb 220.353	56.9813	ppb	1.6402	2.9	93.3932
Sb 206.834	0.0228	ppb	5.3278	23397.1	2.7845
Se 196.026	-6.6468	ppb	22.8134	343.2	-1.9700
Sn 189.925	19.7241	ppb	1.5476	7.8	15.1727
Sr 216.596	29.2849	ppb	0.7959	2.7	314.122
Ti 334.941	1267.80	ppb	1.4253	0.1	320897
Tl 190.794	7.0977	ppb	2.9216	41.2	-0.0404
V 292.401	181.672	ppb	0.5962	0.3	4995.62
Zn 206.200	64.1965	ppb	1.4890	2.3	109.763

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**mb 680-270919/23-a (Samp)**      **3/30/2013, 6:35:18 AM**      **Rack 4, Tube 40**  
**Weight: 1**      **Volume: 1**      **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.9358u	-0.0230u	-1.7377u
Al 308.215	16.4643	17.5068	19.3903
As 188.980	0.1103	-4.7824u	-1.1669u
B 249.678	-9.6889u	-8.7029u	-10.1926u
Ba 389.178	-1.5147u	0.3020	0.2528
Be 313.042	-0.0500u	-0.0498u	-0.0453u
Ca 370.602	25.59	26.66	23.00
Cd 226.502	0.2204	0.4353	0.3178
Co 228.615	0.0585	0.1975	0.0967
Cr 267.716	1.0153	1.5784	1.2319
Cu 324.754	0.2848	-0.1549u	-0.1033u
Fe 271.441	38.9363	44.1561	42.9534
K 766.491	21.7434	20.1989	21.0655
Mg 279.078	5.5550	3.6764	12.2030
Mn 257.610	0.7643	0.7877	0.7624
Mo 202.032	-0.2573u	0.5308	0.8471
Na 330.237	308.171	313.091	91.7107
Ni 231.604	1.1213	2.8880	2.3105
Pb 220.353	1.2750	-0.5961u	7.3896
Sb 206.834	-3.7362u	-2.9219u	-9.2343u
Se 196.026	11.4180	6.8105	5.2955
Sn 189.925	27.4480	27.6894	21.9389
Sr 216.596	0.7200	0.1142	0.5928
Ti 334.941	0.9285	0.8999	0.7337
Tl 190.794	-0.4895u	-1.2337u	8.0577
V 292.401	0.1947	-0.1690u	-0.3474u
Zn 206.200	1.0742	2.5950	0.4288

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.8988	ppb	0.8580	95.5	-120.529
Al 308.215	17.7871	ppb	1.4830	8.3	369.202
As 188.980	-1.9464	ppb	2.5378	130.4	-2.0412
B 249.678	-9.5281	ppb	0.7577	8.0	81.3437
Ba 389.178	-0.3200	ppb	1.0349	323.4	-10.1316
Be 313.042	-0.0484	ppb	0.0027	5.5	-241.963
Ca 370.602	25.08	ppb	1.881	7.5	70.64
Cd 226.502	0.3245	ppb	0.1076	33.2	20.7184
Co 228.615	0.1176	ppb	0.0718	61.1	16.9161
Cr 267.716	1.2752	ppb	0.2840	22.3	56.5321
Cu 324.754	0.0088	ppb	0.2404	2722.4	90.7149
Fe 271.441	42.0153	ppb	2.7334	6.5	74.0191
K 766.491	21.0026	ppb	0.7742	3.7	1239.41
Mg 279.078	7.1448	ppb	4.4801	62.7	43.9702
Mn 257.610	0.7715	ppb	0.0141	1.8	270.674
Mo 202.032	0.3735	ppb	0.5687	152.2	16.3272
Na 330.237	237.658	ppb	126.418	53.2	8.2722
Ni 231.604	2.1066	ppb	0.9008	42.8	4.9720
Pb 220.353	2.6895	ppb	4.1765	155.3	7.8475
Sb 206.834	-5.2975	ppb	3.4336	64.8	-2.2887
Se 196.026	7.8414	ppb	3.1888	40.7	2.3709
Sn 189.925	25.6921	ppb	3.2526	12.7	19.6399
Sr 216.596	0.4757	ppb	0.3194	67.2	15.4091
Ti 334.941	0.8541	ppb	0.1052	12.3	154.650
Tl 190.794	2.1115	ppb	5.1630	244.5	-0.3069
V 292.401	-0.1072	ppb	0.2762	257.6	2.4407
Zn 206.200	1.3660	ppb	1.1122	81.4	2.9124

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**190-294-a-1-b (Samp)**                      **3/30/2013, 6:40:47 AM**                      **Rack 4, Tube 41**  
**Weight: 1**                                      **Volume: 1**                                      **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.0027u	-0.3888u	0.5851
Al 308.215	48.1983	44.4877	46.5272
As 188.980	2.8986	2.0771	-2.7125u
B 249.678	-10.4322u	-11.0867u	-10.6696u
Ba 389.178	-0.0823u	-1.3979u	-0.1438u
Be 313.042	-0.0680u	-0.0612u	-0.0555u
Ca 370.602	43.93	43.31	43.62
Cd 226.502	0.0372	0.1515	0.1474
Co 228.615	-0.0416u	-0.0935u	-0.0540u
Cr 267.716	0.3153	0.5261	0.4625
Cu 324.754	-0.5260u	-0.5340u	0.5813
Fe 271.441	33.5221	32.6647	32.9819
K 766.491	18.4405	19.0360	19.5953
Mg 279.078	14.5555	11.5795	15.9427
Mn 257.610	0.7073	0.6146	0.7246
Mo 202.032	0.3774	0.2921	0.1419
Na 330.237	350.183	66.6102	302.979
Ni 231.604	2.5029	3.0504	2.6560
Pb 220.353	3.1409	1.1807	0.2737
Sb 206.834	-1.7661u	-4.7072u	-2.0070u
Se 196.026	10.7924	1.8115	-4.3174u
Sn 189.925	23.7041	25.1060	25.7247
Sr 216.596	0.5940	0.3687	0.3415
Ti 334.941	1.5560	1.7129	1.5462
Tl 190.794	3.8880	-0.9801u	-4.2238u
V 292.401	-0.2534u	-0.4001u	-0.2887u
Zn 206.200	6.2711	3.6845	5.9726

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0645	ppb	0.4905	760.0	-51.9802
Al 308.215	46.4044	ppb	1.8584	4.0	534.480
As 188.980	0.7544	ppb	3.0304	401.7	-0.2504
B 249.678	-10.7295	ppb	0.3313	3.1	70.1012
Ba 389.178	-0.5413	ppb	0.7424	137.2	-14.7346
Be 313.042	-0.0616	ppb	0.0063	10.2	-267.463
Ca 370.602	43.62	ppb	0.3090	0.7	131.5
Cd 226.502	0.1121	ppb	0.0649	57.9	13.0904
Co 228.615	-0.0630	ppb	0.0271	43.0	14.8753
Cr 267.716	0.4346	ppb	0.1081	24.9	21.4153
Cu 324.754	-0.1596	ppb	0.6416	402.1	82.4821
Fe 271.441	33.0562	ppb	0.4335	1.3	58.8914
K 766.491	19.0239	ppb	0.5775	3.0	1144.49
Mg 279.078	14.0259	ppb	2.2293	15.9	58.1626
Mn 257.610	0.6821	ppb	0.0591	8.7	250.111
Mo 202.032	0.2704	ppb	0.1192	44.1	15.6672
Na 330.237	239.924	ppb	151.939	63.3	8.3533
Ni 231.604	2.7364	ppb	0.2825	10.3	6.4621
Pb 220.353	1.5318	ppb	1.4655	95.7	5.9778
Sb 206.834	-2.8268	ppb	1.6329	57.8	-0.7658
Se 196.026	2.7622	ppb	7.5996	275.1	0.7213
Sn 189.925	24.8449	ppb	1.0353	4.2	19.0057
Sr 216.596	0.4347	ppb	0.1386	31.9	15.0345
Ti 334.941	1.6050	ppb	0.0936	5.8	344.783
Tl 190.794	-0.4386	ppb	4.0829	930.9	-1.9745
V 292.401	-0.3141	ppb	0.0766	24.4	-3.1247
Zn 206.200	5.3094	ppb	1.4151	26.7	10.0129

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**X (Samp)** 3/30/2013, 6:46:16 AM Rack 4, Tube 42**Weight: 1** Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.9128u	-0.5539u	-0.6786u
Al 308.215	2.5503	4.0534	3.1123
As 188.980	1.6503	-1.0593u	5.2408
B 249.678	-11.6848u	-13.0007u	-12.7503u
Ba 389.178	0.6559	-0.9701u	0.5255
Be 313.042	-0.0523u	-0.0685u	-0.0598u
Ca 370.602	-4.493u	-3.546u	-2.737u
Cd 226.502	0.0501	0.0284	0.0473
Co 228.615	-0.3574u	0.1984	0.2429
Cr 267.716	-0.1910u	-0.1938u	0.0196
Cu 324.754	-0.2844u	-1.0227u	-0.7890u
Fe 271.441	-2.9174u	0.1659	7.3868
K 766.491	-0.8807u	-0.3475u	0.0954
Mg 279.078	0.4479	-1.0372u	3.5338
Mn 257.610	-0.2626u	-0.1948u	-0.2007u
Mo 202.032	0.0606	-0.6357u	-0.7228u
Na 330.237	-138.381u	-253.146u	338.018
Ni 231.604	2.1321	-1.2636u	-0.7898u
Pb 220.353	-3.4817u	0.4689	0.5638
Sb 206.834	5.1906	8.3101	-0.2998u
Se 196.026	3.0351	1.8626	-1.5735u
Sn 189.925	-2.4031u	-6.7538u	-4.8285u
Sr 216.596	0.8362	-0.3123u	0.3482
Ti 334.941	-0.0425u	-0.0734u	-0.1108u
Tl 190.794	-5.1581u	-0.3010u	5.5011
V 292.401	-0.2166u	-0.3607u	-0.2138u
Zn 206.200	-0.5709u	-1.9065u	-1.3909u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.7151	ppb	0.1822	25.5	-107.457
Al 308.215	3.2386	ppb	0.7595	23.5	285.057
As 188.980	1.9439	ppb	3.1603	162.6	0.5383
B 249.678	-12.4786	ppb	0.6988	5.6	53.7450
Ba 389.178	0.0704	ppb	0.9035	1282.8	-2.0597
Be 313.042	-0.0602	ppb	0.0081	13.5	-264.709
Ca 370.602	-3.592	ppb	0.8791	24.5	-18.42
Cd 226.502	0.0419	ppb	0.0118	28.2	10.5161
Co 228.615	0.0280	ppb	0.3345	1195.4	15.9114
Cr 267.716	-0.1217	ppb	0.1224	100.5	-1.8465
Cu 324.754	-0.6987	ppb	0.3774	54.0	56.1128
Fe 271.441	1.5451	ppb	5.2887	342.3	5.9298
K 766.491	-0.3776	ppb	0.4888	129.4	213.736
Mg 279.078	0.9815	ppb	2.3317	237.6	31.2624
Mn 257.610	-0.2193	ppb	0.0376	17.1	42.4462
Mo 202.032	-0.4326	ppb	0.4294	99.2	11.1608
Na 330.237	-17.8363	ppb	313.476	1757.5	-4.8408
Ni 231.604	0.0262	ppb	1.8390	7018.4	0.0489
Pb 220.353	-0.8163	ppb	2.3088	282.8	2.1892
Sb 206.834	4.4003	ppb	4.3590	99.1	3.7003
Se 196.026	1.1081	ppb	2.3952	216.2	0.1839
Sn 189.925	-4.6618	ppb	2.1801	46.8	-3.0808
Sr 216.596	0.2907	ppb	0.5764	198.3	13.7145
Ti 334.941	-0.0756	ppb	0.0342	45.2	-80.6908
Tl 190.794	0.0140	ppb	5.3366	38085.7	-1.6762
V 292.401	-0.2637	ppb	0.0840	31.9	-1.6059
Zn 206.200	-1.2894	ppb	0.6735	52.2	-0.1895

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**CRI (Samp)** 3/30/2013, 6:51:44 AM **Rack 4, Tube 43**  
**Weight: 1** **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	10.4312	9.2705	10.6182
Al 308.215	227.696	230.770	221.715
As 188.980	26.6076	25.6106	23.4403
B 249.678	108.898	110.637	108.677
Ba 389.178	10.5494	10.8784	10.3030
Be 313.042	4.7987	4.8166	4.6828
Ca 370.602	529.1	530.8	522.1
Cd 226.502	5.9224	5.7547	5.9060
Co 228.615	12.2926	11.7971	11.1774
Cr 267.716	11.3771	11.6073	11.4758
Cu 324.754	20.8532	21.2530	19.7851
Fe 271.441	65.2267	63.6272	64.6243
K 766.491	1096.33	1100.79	1075.10
Mg 279.078	604.133	605.029	591.397
Mn 257.610	11.7165	11.7127	11.3531
Mo 202.032	11.0348	10.7794	10.5237
Na 330.237	1500.27	1365.93	848.636
Ni 231.604	46.1387	45.4944	43.6891
Pb 220.353	11.4447	8.4377	10.7234
Sb 206.834	25.7747	26.4444	17.0934
Se 196.026	22.4149	27.5156	32.7296
Sn 189.925	47.3949	57.1934	55.3864
Sr 216.596	11.0992	11.4230	11.4199
Ti 334.941	10.6058	10.5867	10.3023
Tl 190.794	27.8605	16.6828	16.8033
V 292.401	11.0516	10.6030	11.0252
Zn 206.200	24.2464	22.9126	22.8513

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	10.1066	ppb	0.7301	7.2	662.146
Al 308.215	226.727	ppb	4.6047	2.0	1577.18
As 188.980	25.2195	ppb	1.6194	6.4	15.9692
B 249.678	109.404	ppb	1.0735	1.0	1195.43
Ba 389.178	10.5769	ppb	0.2887	2.7	216.523
Be 313.042	4.7661	ppb	0.0726	1.5	9063.05
Ca 370.602	527.3	ppb	4.598	0.9	1690
Cd 226.502	5.8611	ppb	0.0924	1.6	218.842
Co 228.615	11.7557	ppb	0.5588	4.8	149.801
Cr 267.716	11.4868	ppb	0.1155	1.0	483.105
Cu 324.754	20.6304	ppb	0.7589	3.7	1098.34
Fe 271.441	64.4927	ppb	0.8078	1.3	113.732
K 766.491	1090.74	ppb	13.7262	1.3	52558.0
Mg 279.078	600.187	ppb	7.6248	1.3	1267.69
Mn 257.610	11.5941	ppb	0.2087	1.8	2765.37
Mo 202.032	10.7793	ppb	0.2555	2.4	83.0200
Na 330.237	1238.28	ppb	344.062	27.8	59.5224
Ni 231.604	45.1074	ppb	1.2698	2.8	106.714
Pb 220.353	10.2020	ppb	1.5698	15.4	19.9527
Sb 206.834	23.1041	ppb	5.2162	22.6	15.2708
Se 196.026	27.5534	ppb	5.1575	18.7	8.7743
Sn 189.925	53.3249	ppb	5.2144	9.8	40.3242
Sr 216.596	11.3140	ppb	0.1860	1.6	115.690
Ti 334.941	10.4983	ppb	0.1700	1.6	2598.39
Tl 190.794	20.4489	ppb	6.4190	31.4	11.6808
V 292.401	10.8933	ppb	0.2517	2.3	301.411
Zn 206.200	23.3368	ppb	0.7884	3.4	37.8558



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(Samp) 3/30/2013, 6:57:13 AM Rack 4, Tube 44  
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.5866u	-0.3625u	-0.0432u
Al 308.215	-17.5794u	-17.9119u	-18.2161u
As 188.980	-0.8196u	-4.6962u	-4.5172u
B 249.678	-14.4248u	-13.9309u	-15.0993u
Ba 389.178	-1.3779u	-1.1984u	-0.8591u
Be 313.042	0.0100	0.0172	0.0101
Ca 370.602	-5.910u	-5.544u	-8.121u
Cd 226.502	0.0915	0.1496	-0.1515u
Co 228.615	-0.1469u	-0.4657u	-0.4271u
Cr 267.716	-0.0587u	0.1724	0.0742
Cu 324.754	-1.8228u	-1.9508u	-2.6085u
Fe 271.441	-1.2125u	1.8811	5.1530
K 766.491	-1.2702u	-0.6218u	-1.0270u
Mg 279.078	-2.8179u	-3.5202u	-7.7517u
Mn 257.610	-0.2869u	-0.3510u	-0.3327u
Mo 202.032	-0.1878u	-1.4953u	-1.6267u
Na 330.237	283.350	286.653	253.600
Ni 231.604	-0.5808u	-0.6946u	1.7067
Pb 220.353	-2.5680u	2.9691	-0.4532u
Sb 206.834	4.7302	-11.4988u	-1.5193u
Se 196.026	-1.3222u	0.7324	4.2025
Sn 189.925	0.2356	-5.5373u	0.5528
Sr 216.596	-0.1214u	-0.3557u	-0.6668u
Ti 334.941	-0.1185u	-0.1574u	-0.1136u
Tl 190.794	-3.8240u	-1.6225u	3.0121
V 292.401	-0.0060u	-0.0423u	-0.2659u
Zn 206.200	-0.9367u	-1.3092u	-0.4478u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.3307	ppb	0.2731	82.6	-80.0963
Al 308.215	-17.9024	ppb	0.3184	1.8	162.900
As 188.980	-3.3443	ppb	2.1883	65.4	-2.9674
B 249.678	-14.4850	ppb	0.5865	4.0	34.9495
Ba 389.178	-1.1451	ppb	0.2635	23.0	-27.3072
Be 313.042	0.0124	ppb	0.0041	33.1	-124.295
Ca 370.602	-6.525	ppb	1.394	21.4	-27.90
Cd 226.502	0.0299	ppb	0.1597	534.3	10.0851
Co 228.615	-0.3466	ppb	0.1740	50.2	11.6428
Cr 267.716	0.0626	ppb	0.1160	185.2	5.8603
Cu 324.754	-2.1274	ppb	0.4215	19.8	-13.6917
Fe 271.441	1.9405	ppb	3.1832	164.0	6.5079
K 766.491	-0.9730	ppb	0.3275	33.7	185.173
Mg 279.078	-4.6966	ppb	2.6690	56.8	19.5536
Mn 257.610	-0.3236	ppb	0.0330	10.2	18.4205
Mo 202.032	-1.1033	ppb	0.7955	72.1	6.8611
Na 330.237	274.534	ppb	18.2049	6.6	10.2040
Ni 231.604	0.1438	ppb	1.3547	942.4	0.3270
Pb 220.353	-0.0174	ppb	2.7942	16082.6	3.4801
Sb 206.834	-2.7626	ppb	8.1856	296.3	-0.7208
Se 196.026	1.2042	ppb	2.7924	231.9	0.2151
Sn 189.925	-1.5830	ppb	3.4282	216.6	-0.7762
Sr 216.596	-0.3813	ppb	0.2736	71.8	7.4494
Ti 334.941	-0.1298	ppb	0.0240	18.5	-94.4775
Tl 190.794	-0.8115	ppb	3.4895	430.0	-2.2161
V 292.401	-0.1047	ppb	0.1408	134.4	2.8015
Zn 206.200	-0.8979	ppb	0.4320	48.1	-0.4157

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(Samp) 3/30/2013, 7:02:42 AM Rack 4, Tube 45  
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.3697u	0.1484	-0.7228u
Al 308.215	-18.9386u	-18.4604u	-17.8217u
As 188.980	-1.0759u	-2.4688u	-3.7370u
B 249.678	-15.8816u	-15.6480u	-15.5098u
Ba 389.178	-1.4448u	-0.5517u	-1.5679u
Be 313.042	0.0157	0.0259	0.0104
Ca 370.602	-8.781u	-6.147u	-10.89u
Cd 226.502	0.0849	0.1012	-0.0512u
Co 228.615	-0.4538u	-0.4530u	-0.2927u
Cr 267.716	-0.1611u	-0.2011u	-0.1577u
Cu 324.754	-2.3228u	-1.7822u	-2.3882u
Fe 271.441	-0.1306u	9.0370	2.3196
K 766.491	-0.9220u	-0.8537u	-1.6725u
Mg 279.078	-5.9771u	-5.7127u	-0.6498u
Mn 257.610	-0.2554u	-0.3129u	-0.2872u
Mo 202.032	-1.4609u	-1.2582u	-0.8401u
Na 330.237	58.3465	269.586	196.094
Ni 231.604	0.0312	1.1999	-0.2011u
Pb 220.353	2.0038	0.4536	-1.1720u
Sb 206.834	6.5037	-5.2546u	-5.3894u
Se 196.026	4.3129	4.4154	4.9017
Sn 189.925	0.4592	-1.5122u	-0.8071u
Sr 216.596	-0.2527u	0.3001	0.0495
Ti 334.941	-0.1137u	-0.1022u	-0.2135u
Tl 190.794	-5.0743u	1.9911	-5.1507u
V 292.401	-0.1909u	-0.4447u	-0.3287u
Zn 206.200	-0.7272u	-0.7894u	-0.8129u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.3147	ppb	0.4382	139.3	-78.9619
Al 308.215	-18.4069	ppb	0.5604	3.0	159.968
As 188.980	-2.4272	ppb	1.3311	54.8	-2.3593
B 249.678	-15.6798	ppb	0.1879	1.2	23.7594
Ba 389.178	-1.1881	ppb	0.5546	46.7	-28.2018
Be 313.042	0.0173	ppb	0.0079	45.3	-114.813
Ca 370.602	-8.605	ppb	2.375	27.6	-34.41
Cd 226.502	0.0449	ppb	0.0837	186.2	10.6182
Co 228.615	-0.3998	ppb	0.0927	23.2	11.0374
Cr 267.716	-0.1733	ppb	0.0242	13.9	-3.9981
Cu 324.754	-2.1644	ppb	0.3326	15.4	-15.5051
Fe 271.441	3.7420	ppb	4.7464	126.8	9.5739
K 766.491	-1.1494	ppb	0.4543	39.5	176.709
Mg 279.078	-4.1132	ppb	3.0023	73.0	20.7565
Mn 257.610	-0.2852	ppb	0.0288	10.1	27.2590
Mo 202.032	-1.1864	ppb	0.3166	26.7	6.3286
Na 330.237	174.676	ppb	107.236	61.4	5.0666
Ni 231.604	0.3433	ppb	0.7508	218.7	0.7992
Pb 220.353	0.4284	ppb	1.5881	370.7	4.2000
Sb 206.834	-1.3801	ppb	6.8279	494.7	0.1343
Se 196.026	4.5433	ppb	0.3145	6.9	1.2995
Sn 189.925	-0.6200	ppb	0.9989	161.1	-0.0554
Sr 216.596	0.0323	ppb	0.2768	856.5	11.3271
Ti 334.941	-0.1431	ppb	0.0612	42.8	-97.8302
Tl 190.794	-2.7446	ppb	4.1014	149.4	-3.4804
V 292.401	-0.3214	ppb	0.1270	39.5	-3.0928
Zn 206.200	-0.7765	ppb	0.0443	5.7	0.56039

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(Samp) 3/30/2013, 7:08:10 AM Rack 4, Tube 46  
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.3834u	0.0821	-0.4660u
Al 308.215	-17.1019u	-18.3287u	-17.7997u
As 188.980	-3.1188u	3.9339	-4.7192u
B 249.678	-15.6054u	-17.0749u	-15.9642u
Ba 389.178	-1.0487u	-1.3855u	-2.1885u
Be 313.042	0.0162	0.0213	0.0137
Ca 370.602	-11.80u	-8.931u	-7.586u
Cd 226.502	0.0750	0.1695	-0.1719u
Co 228.615	-0.8609u	-0.1988u	-0.8345u
Cr 267.716	0.1852	-0.2268u	0.0214
Cu 324.754	-2.3431u	-2.2441u	-2.5256u
Fe 271.441	-2.6199u	-0.5545u	7.7683
K 766.491	-1.2738u	-1.6952u	-1.4716u
Mg 279.078	-5.7622u	-3.1948u	-5.7043u
Mn 257.610	-0.3489u	-0.2876u	-0.3383u
Mo 202.032	-1.1550u	-0.8866u	-1.0760u
Na 330.237	425.866	229.269	208.787
Ni 231.604	0.4069	-0.3343u	0.9955
Pb 220.353	-0.9436u	1.1305	-0.3310u
Sb 206.834	-9.2878u	-10.2056u	-9.2662u
Se 196.026	3.9774	-4.4816u	-0.3668u
Sn 189.925	-2.7795u	0.6341	-5.3741u
Sr 216.596	-0.5037u	-0.3929u	-0.3954u
Ti 334.941	-0.2120u	-0.2019u	-0.1171u
Tl 190.794	1.3255	0.4508	1.9025
V 292.401	0.0811	-0.2641u	-0.5122u
Zn 206.200	0.6375	-0.1849u	0.2072

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.2557	ppb	0.2955	115.6	-74.7662
Al 308.215	-17.7434	ppb	0.6153	3.5	163.812
As 188.980	-1.3014	ppb	4.6040	353.8	-1.6131
B 249.678	-16.2148	ppb	0.7661	4.7	18.7440
Ba 389.178	-1.5409	ppb	0.5856	38.0	-35.5265
Be 313.042	0.0171	ppb	0.0038	22.6	-115.329
Ca 370.602	-9.439	ppb	2.152	22.8	-37.39
Cd 226.502	0.0242	ppb	0.1763	727.9	9.8840
Co 228.615	-0.6314	ppb	0.3749	59.4	8.3883
Cr 267.716	-0.0067	ppb	0.2075	3075.4	2.9622
Cu 324.754	-2.3709	ppb	0.1428	6.0	-25.5912
Fe 271.441	1.5313	ppb	5.4993	359.1	5.8019
K 766.491	-1.4802	ppb	0.2108	14.2	160.841
Mg 279.078	-4.8871	ppb	1.4659	30.0	19.1606
Mn 257.610	-0.3249	ppb	0.0328	10.1	18.1028
Mo 202.032	-1.0392	ppb	0.1379	13.3	7.2720
Na 330.237	287.974	ppb	119.857	41.6	10.8899
Ni 231.604	0.3560	ppb	0.6663	187.2	0.8294
Pb 220.353	-0.0480	ppb	1.0656	2218.5	3.4307
Sb 206.834	-9.5865	ppb	0.5363	5.6	-4.9375
Se 196.026	-0.2903	ppb	4.2300	1456.9	-0.2703
Sn 189.925	-2.5065	ppb	3.0134	120.2	-1.4674
Sr 216.596	-0.4307	ppb	0.0632	14.7	6.9916
Ti 334.941	-0.1770	ppb	0.0521	29.5	-106.413
Tl 190.794	1.2263	ppb	0.7309	59.6	-0.8833
V 292.401	-0.2318	ppb	0.2979	128.6	-0.6707
Zn 206.200	0.2199	ppb	0.413	187.0	5.21441

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(Samp) 3/30/2013, 7:13:39 AM Rack 4, Tube 47  
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.0771	-0.6809u	0.2876
Al 308.215	-18.3590u	-18.6465u	-17.9015u
As 188.980	-2.3221u	-2.2613u	0.4170
B 249.678	-16.6224u	-16.3799u	-16.0229u
Ba 389.178	-1.5632u	-1.3451u	-1.2937u
Be 313.042	0.0201	0.0266	0.0177
Ca 370.602	-3.988u	-3.991u	-9.323u
Cd 226.502	-0.1491u	0.0516	-0.1048u
Co 228.615	-0.4348u	-0.2899u	-0.7467u
Cr 267.716	-0.0978u	-0.1787u	0.2248
Cu 324.754	-1.7537u	-2.2695u	-2.1272u
Fe 271.441	-0.7564u	2.3382	10.7616
K 766.491	-2.1238u	-1.3885u	-1.2938u
Mg 279.078	-4.4633u	-3.7473u	-5.3503u
Mn 257.610	-0.2983u	-0.3206u	-0.2800u
Mo 202.032	-1.4273u	-1.2497u	-0.9179u
Na 330.237	291.078	502.617	132.258
Ni 231.604	2.1703	0.2274	1.0428
Pb 220.353	-0.4589u	0.6948	0.3036
Sb 206.834	2.0094	1.8703	-2.3147u
Se 196.026	10.1276	0.0747	-7.3050u
Sn 189.925	0.2978	3.4023	-2.2427u
Sr 216.596	-0.7901u	-0.3932u	0.4893
Ti 334.941	-0.2184u	-0.1768u	-0.2699u
Tl 190.794	-2.9836u	-1.6730u	-1.0076u
V 292.401	-0.2934u	-0.3385u	-0.3473u
Zn 206.200	-0.1535u	-0.4066u	-1.3091u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1054	ppb	0.5094	483.3	-64.0849
Al 308.215	-18.3023	ppb	0.3757	2.1	160.574
As 188.980	-1.3888	ppb	1.5642	112.6	-1.6710
B 249.678	-16.3417	ppb	0.3015	1.8	17.5553
Ba 389.178	-1.4007	ppb	0.1431	10.2	-32.6146
Be 313.042	0.0214	ppb	0.0046	21.5	-106.854
Ca 370.602	-5.767	ppb	3.079	53.4	-25.57
Cd 226.502	-0.0675	ppb	0.1054	156.3	6.6045
Co 228.615	-0.4904	ppb	0.2335	47.6	10.0015
Cr 267.716	-0.0172	ppb	0.2135	1239.4	2.5261
Cu 324.754	-2.0501	ppb	0.2664	13.0	-9.9207
Fe 271.441	4.1144	ppb	5.9609	144.9	10.1838
K 766.491	-1.6020	ppb	0.4543	28.4	154.996
Mg 279.078	-4.5203	ppb	0.8030	17.8	19.9173
Mn 257.610	-0.2996	ppb	0.0203	6.8	23.9364
Mo 202.032	-1.1983	ppb	0.2586	21.6	6.2522
Na 330.237	308.651	ppb	185.804	60.2	11.9621
Ni 231.604	1.1468	ppb	0.9756	85.1	2.7004
Pb 220.353	0.1799	ppb	0.5867	326.2	3.7987
Sb 206.834	0.5217	ppb	2.4574	471.1	1.3107
Se 196.026	0.9658	ppb	8.7504	906.1	0.1376
Sn 189.925	0.4858	ppb	2.8272	582.0	0.7724
Sr 216.596	-0.2313	ppb	0.6548	283.1	8.8629
Ti 334.941	-0.2217	ppb	0.0466	21.0	-117.736
Tl 190.794	-1.8881	ppb	1.0054	53.2	-2.9203
V 292.401	-0.3264	ppb	0.0290	8.9	-3.2449
Zn 206.200	-0.6231	ppb	0.6075	97.5	-0.8405

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(Samp) 3/30/2013, 7:19:07 AM Rack 4, Tube 48  
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.9462u	-0.0823u	-0.6483u
Al 308.215	-20.1138u	-19.0525u	-17.6117u
As 188.980	-7.5136u	4.2933	-5.6823u
B 249.678	-16.8911u	-16.3860u	-16.7098u
Ba 389.178	-0.2451u	-1.5656u	-0.7329u
Be 313.042	0.0153	0.0193	0.0308
Ca 370.602	-4.828u	-5.843u	-2.884u
Cd 226.502	-0.1297u	-0.1024u	-0.0759u
Co 228.615	-0.8010u	0.0811	0.0584
Cr 267.716	0.0522	0.0231	0.1320
Cu 324.754	-1.8497u	-1.8953u	-2.4248u
Fe 271.441	4.5307	4.6942	0.3377
K 766.491	-1.5024u	-0.7580u	-1.2265u
Mg 279.078	-3.1625u	-5.3362u	-7.0711u
Mn 257.610	-0.2690u	-0.2827u	-0.3360u
Mo 202.032	-0.8041u	-1.1650u	-1.4392u
Na 330.237	154.350	233.460	237.887
Ni 231.604	-0.7656u	-0.7787u	-1.0210u
Pb 220.353	-0.4239u	0.8965	-1.4973u
Sb 206.834	-1.2828u	-2.8768u	-3.4096u
Se 196.026	-2.1335u	5.2147	6.5292
Sn 189.925	1.4322	-2.4398u	-3.9790u
Sr 216.596	-0.5546u	-0.2508u	-0.2260u
Ti 334.941	-0.2323u	-0.2296u	-0.2471u
Tl 190.794	-0.3989u	2.1472	1.1577
V 292.401	-0.0170u	-0.6726u	-0.2094u
Zn 206.200	-1.7589u	0.4787	-0.9774u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.5589	ppb	0.4388	78.5	-96.3420
Al 308.215	-18.9260	ppb	1.2559	6.6	156.973
As 188.980	-2.9675	ppb	6.3544	214.1	-2.7176
B 249.678	-16.6623	ppb	0.2559	1.5	14.5524
Ba 389.178	-0.8479	ppb	0.6677	78.8	-21.1347
Be 313.042	0.0218	ppb	0.0081	37.0	-106.190
Ca 370.602	-4.518	ppb	1.504	33.3	-21.53
Cd 226.502	-0.1027	ppb	0.0269	26.2	5.3449
Co 228.615	-0.2205	ppb	0.5029	228.1	13.0840
Cr 267.716	0.0691	ppb	0.0564	81.6	6.1304
Cu 324.754	-2.0566	ppb	0.3197	15.5	-10.2360
Fe 271.441	3.1875	ppb	2.4694	77.5	8.6575
K 766.491	-1.1623	ppb	0.3763	32.4	176.090
Mg 279.078	-5.1899	ppb	1.9584	37.7	18.5354
Mn 257.610	-0.2959	ppb	0.0354	12.0	24.7877
Mo 202.032	-1.1361	ppb	0.3185	28.0	6.6509
Na 330.237	208.566	ppb	47.0045	22.5	6.8112
Ni 231.604	-0.8551	ppb	0.1438	16.8	-2.0363
Pb 220.353	-0.3416	ppb	1.1990	351.0	2.9568
Sb 206.834	-2.5231	ppb	1.1067	43.9	-0.5713
Se 196.026	3.2034	ppb	4.6685	145.7	0.8644
Sn 189.925	-1.6622	ppb	2.7881	167.7	-0.8355
Sr 216.596	-0.3438	ppb	0.1830	53.2	7.8133
Ti 334.941	-0.2363	ppb	0.0094	4.0	-121.428
Tl 190.794	0.9687	ppb	1.2835	132.5	-1.0517
V 292.401	-0.2996	ppb	0.3370	112.5	-2.5154
Zn 206.200	-0.7525	ppb	1.1356	150.8	-0.6403

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Cont Calib Verif (CCV) 3/30/2013, 7:24:36 AM Rack 4, Tube 49  
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	517.765	519.669	518.550
Al 308.215	5370.31	5370.73	5381.67
As 188.980	564.981	562.164	569.603
B 249.678	632.859	638.752	641.898
Ba 389.178	4689.67	4672.12	4667.95
Be 313.042	527.150	526.554	528.726
Ca 370.602	4966	4956	4980
Cd 226.502	508.115	506.024	506.293
Co 228.615	504.733	502.688	504.535
Cr 267.716	5048.85	5057.19	5087.72
Cu 324.754	4897.75	4823.72	4947.35
Fe 271.441	5440.40	5437.25	5415.64
K 766.491	10253.8	10183.3	10191.5
Mg 279.078	5531.15	5520.93	5524.29
Mn 257.610	5018.54	5014.95	5029.82
Mo 202.032	503.863	502.674	509.311
Na 330.237	8093.67	8393.80	8107.16
Ni 231.604	2514.70	2525.05	2530.47
Pb 220.353	508.817	516.670	520.683
Sb 206.834	1068.78	1054.06	1082.84
Se 196.026	5555.24	5559.22	5526.59
Sn 189.925	5207.22	5213.85	5276.03
Sr 216.596	2581.28	2584.91	2605.11
Ti 334.941	507.863	507.079	511.717
Tl 190.794	5159.52	5135.82	5166.86
V 292.401	5222.60	5212.51	5216.79
Zn 206.200	2623.41	2633.95	2616.04

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	518.661	ppb	0.9571	0.2	36790.7	103.73228
Al 308.215	5374.24	ppb	6.4378	0.1	31282.1	107.48475
As 188.980	565.583	ppb	3.7555	0.7	374.030	113.11653Q
B 249.678	637.836	ppb	4.5888	0.7	6140.54	25.51345Q
Ba 389.178	4676.58	ppb	11.5283	0.2	97134.9	93.53163
Be 313.042	527.476	ppb	1.1227	0.2	1019269	105.49529
Ca 370.602	4967	ppb	12.06	0.2	15837	99.33919
Cd 226.502	506.811	ppb	1.1373	0.2	18152.5	101.36214
Co 228.615	503.985	ppb	1.1278	0.2	5781.90	100.79708
Cr 267.716	5064.59	ppb	20.4635	0.4	211572	101.29182
Cu 324.754	4889.61	ppb	62.2154	1.3	238935	97.79214
Fe 271.441	5431.10	ppb	13.4803	0.2	9270.57	108.62199
K 766.491	10209.5	ppb	38.5612	0.4	490013	102.09528
Mg 279.078	5525.46	ppb	5.2083	0.1	11353.3	110.50910Q
Mn 257.610	5021.10	ppb	7.7601	0.2	1155898	100.42208
Mo 202.032	505.283	ppb	3.5387	0.7	3244.42	101.05656
Na 330.237	8198.21	ppb	169.519	2.1	392.697	109.30946
Ni 231.604	2523.41	ppb	8.0117	0.3	5970.59	100.93634
Pb 220.353	515.390	ppb	6.0356	1.2	835.441	103.07798
Sb 206.834	1068.56	ppb	14.3939	1.3	690.892	106.85600
Se 196.026	5547.02	ppb	17.7988	0.3	1802.09	110.94037Q
Sn 189.925	5232.37	ppb	37.9584	0.7	3916.97	104.64735
Sr 216.596	2590.44	ppb	12.8409	0.5	24141.9	103.61747
Ti 334.941	508.886	ppb	2.4826	0.5	128781	101.77726
Tl 190.794	5154.07	ppb	16.2258	0.3	3366.20	103.08133
V 292.401	5217.30	ppb	5.0647	0.1	142539	104.34601
Zn 206.200	2624.47	ppb	9.0931	0.3	4044.86	104.97862

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Cont Calib Blank (CCB) 3/30/2013, 7:30:05 AM Rack 4, Tube 50

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-1.0343u	-0.9817u	0.0924
Al 308.215	3.4233	4.3222	3.4552
As 188.980	4.1745	-0.9509u	2.4398
B 249.678	4.0559	3.2182	0.2911
Ba 389.178	-1.1795u	-0.4342u	0.0735
Be 313.042	-0.0529u	-0.0541u	-0.0652u
Ca 370.602	3.624	-1.134u	-2.627u
Cd 226.502	-0.1801u	0.2156	-0.0558u
Co 228.615	-1.0132u	-0.7877u	0.4923
Cr 267.716	0.2263	-0.0735u	-0.3839u
Cu 324.754	-0.8521u	-0.2490u	-1.2476u
Fe 271.441	1.7106	-1.6994u	-2.8259u
K 766.491	-0.5035u	0.6152	-0.2088u
Mg 279.078	-0.7818u	-3.9401u	-2.1069u
Mn 257.610	-0.1755u	-0.2005u	-0.1527u
Mo 202.032	0.0697	1.1257	0.2734
Na 330.237	-182.166u	-29.2669u	-314.232u
Ni 231.604	1.0705	0.2882	0.9140
Pb 220.353	0.9158	1.5965	-1.7242u
Sb 206.834	3.0049	-0.2057u	5.6216
Se 196.026	21.4467	3.1050	6.2931
Sn 189.925	2.0959	-1.4293u	-2.1596u
Sr 216.596	0.2315	0.2194	0.1151
Ti 334.941	0.0426	-0.0279u	-0.0597u
Tl 190.794	3.8775	5.4273	4.1345
V 292.401	-0.0949u	-0.3163u	-0.3941u
Zn 206.200	-1.0478u	0.1630	1.5429

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	-0.6412	ppb	0.6359	99.2	-102.188	-0.64117
Al 308.215	3.7336	ppb	0.5101	13.7	288.034	3.73356
As 188.980	1.8878	ppb	2.6069	138.1	0.5008	1.88783
B 249.678	2.5217	ppb	1.9767	78.4	194.263	2.52175
Ba 389.178	-0.5134	ppb	0.6302	122.8	-14.1820	-0.51340
Be 313.042	-0.0574	ppb	0.0068	11.8	-259.363	-0.05737
Ca 370.602	-0.0455	ppb	3.264	7171.2	-6.970	-0.04552
Cd 226.502	-0.0067	ppb	0.2024	3006.5	8.7762	-0.00673
Co 228.615	-0.4362	ppb	0.8119	186.1	10.5806	-0.43621
Cr 267.716	-0.0770	ppb	0.3051	396.1	0.0196	-0.07702
Cu 324.754	-0.7829	ppb	0.5029	64.2	52.0234	-0.78293
Fe 271.441	-0.9382	ppb	2.3621	251.8	1.7176	-0.93825
K 766.491	-0.0324	ppb	0.5799	1792.2	230.298	-0.03236
Mg 279.078	-2.2763	ppb	1.5859	69.7	24.5381	-2.27629
Mn 257.610	-0.1762	ppb	0.0239	13.6	52.3463	-0.17623
Mo 202.032	0.4896	ppb	0.5602	114.4	17.0732	0.48957
Na 330.237	-175.222	ppb	142.609	81.4	-12.9517	-175.22162
Ni 231.604	0.7576	ppb	0.4139	54.6	1.7793	0.75756
Pb 220.353	0.2627	ppb	1.7540	667.7	3.9301	0.26269
Sb 206.834	2.8069	ppb	2.9187	104.0	2.7085	2.80693
Se 196.026	10.2816	ppb	9.7997	95.3	3.1630	10.28158Z
Sn 189.925	-0.4977	ppb	2.2756	457.2	0.0361	-0.49768
Sr 216.596	0.1887	ppb	0.0640	33.9	12.7273	0.18866
Ti 334.941	-0.0150	ppb	0.0523	349.1	-65.3609	-0.01499
Tl 190.794	4.4798	ppb	0.8306	18.5	1.2444	4.47978
V 292.401	-0.2684	ppb	0.1552	57.8	-1.9107	-0.26840
Zn 206.200	0.2194	ppb	1.2963	590.8	2.1434	0.21937

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(Samp) 3/30/2013, 7:35:33 AM Rack 4, Tube 51  
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.0835	-0.8491u	-0.7563u
Al 308.215	-18.6836u	-19.5380u	-17.5405u
As 188.980	0.0455	1.4001	-0.5466u
B 249.678	-14.0322u	-14.1411u	-13.6996u
Ba 389.178	-1.0044u	-1.2906u	-2.1068u
Be 313.042	0.0068	0.0179	0.0172
Ca 370.602	-3.862u	-3.253u	-8.374u
Cd 226.502	-0.0672u	-0.0682u	0.0092
Co 228.615	0.1440	-0.2216u	-0.1525u
Cr 267.716	-0.2611u	-0.1272u	-0.1918u
Cu 324.754	-2.0593u	-2.6537u	-2.7747u
Fe 271.441	4.6583	1.6023	4.5061
K 766.491	-0.5310u	-0.7475u	-1.0054u
Mg 279.078	0.1849	-3.9808u	-1.8011u
Mn 257.610	-0.3469u	-0.2548u	-0.2992u
Mo 202.032	-1.9447u	-1.2550u	-0.6087u
Na 330.237	353.587	205.071	402.370
Ni 231.604	-0.4045u	-0.4585u	-0.2567u
Pb 220.353	-1.1605u	-1.4952u	-0.3908u
Sb 206.834	-4.5418u	-0.9168u	3.6016
Se 196.026	-5.0254u	-2.2147u	2.1842
Sn 189.925	-3.9677u	1.8964	1.0385
Sr 216.596	-0.4677u	-0.0422u	-0.6402u
Ti 334.941	-0.1683u	-0.1745u	-0.2014u
Tl 190.794	3.3533	-0.4675u	0.6027
V 292.401	-0.3638u	-0.1253u	-0.1364u
Zn 206.200	-0.5704u	-0.5209u	0.0690

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.5073	ppb	0.5138	101.3	-92.6602
Al 308.215	-18.5874	ppb	1.0023	5.4	158.904
As 188.980	0.2997	ppb	0.9980	333.0	-0.5516
B 249.678	-13.9577	ppb	0.2300	1.6	39.8872
Ba 389.178	-1.4673	ppb	0.5721	39.0	-33.9962
Be 313.042	0.0140	ppb	0.0062	44.5	-121.270
Ca 370.602	-5.163	ppb	2.797	54.2	-23.71
Cd 226.502	-0.0421	ppb	0.0444	105.4	7.5148
Co 228.615	-0.0767	ppb	0.1942	253.3	14.7336
Cr 267.716	-0.1934	ppb	0.0670	34.6	-4.8340
Cu 324.754	-2.4959	ppb	0.3829	15.3	-31.7032
Fe 271.441	3.5889	ppb	1.7222	48.0	9.2712
K 766.491	-0.7613	ppb	0.2375	31.2	195.329
Mg 279.078	-1.8657	ppb	2.0836	111.7	25.3963
Mn 257.610	-0.3003	ppb	0.0460	15.3	23.7961
Mo 202.032	-1.2695	ppb	0.6681	52.6	5.7957
Na 330.237	320.343	ppb	102.765	32.1	12.5607
Ni 231.604	-0.3733	ppb	0.1045	28.0	-0.8962
Pb 220.353	-1.0155	ppb	0.5663	55.8	1.8691
Sb 206.834	-0.6190	ppb	4.0799	659.1	0.6059
Se 196.026	-1.6853	ppb	3.6338	215.6	-0.7233
Sn 189.925	-0.3443	ppb	3.1672	920.0	0.1510
Sr 216.596	-0.3833	ppb	0.3078	80.3	7.4515
Ti 334.941	-0.1814	ppb	0.0176	9.7	-107.521
Tl 190.794	1.1628	ppb	1.9710	169.5	-0.9248
V 292.401	-0.2085	ppb	0.1346	64.6	0.0272
Zn 206.200	-0.3408	ppb	0.3557	104.4	-1.2776



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(Samp) 3/30/2013, 7:41:02 AM Rack 4, Tube 52  
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.8118u	-0.0544u	-0.7484u
Al 308.215	-19.0672u	-20.6716u	-17.3933u
As 188.980	1.3662	4.3854	-2.8534u
B 249.678	-15.0465u	-14.2899u	-14.6544u
Ba 389.178	-1.5945u	-1.2630u	-2.5932u
Be 313.042	0.0205	0.0158	0.0093
Ca 370.602	-8.209u	-2.322u	-7.470u
Cd 226.502	0.1296	0.0099	0.1253
Co 228.615	-0.1059u	-0.0221u	-0.9721u
Cr 267.716	0.0471	-0.0871u	-0.2219u
Cu 324.754	-2.5029u	-2.2097u	-2.3441u
Fe 271.441	4.0174	6.5201	4.9683
K 766.491	-1.4697u	-1.3121u	-1.3933u
Mg 279.078	-2.6679u	-6.0061u	4.0378
Mn 257.610	-0.3292u	-0.3094u	-0.2639u
Mo 202.032	-1.0706u	-1.0164u	-0.9575u
Na 330.237	25.7394	441.113	363.846
Ni 231.604	-0.6163u	-0.2677u	0.5690
Pb 220.353	-0.5810u	1.9350	-2.8521u
Sb 206.834	-2.2453u	-11.6652u	-3.4106u
Se 196.026	8.8218	14.9333	-12.3806u
Sn 189.925	-3.3188u	-3.7680u	-1.4078u
Sr 216.596	-0.1562u	0.0477	-0.2911u
Ti 334.941	-0.2446u	-0.2058u	-0.1884u
Tl 190.794	-1.4395u	-2.5666u	-4.9532u
V 292.401	-0.7546u	-0.2448u	-0.4794u
Zn 206.200	-0.7522u	-0.5895u	-0.8401u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.5382	ppb	0.4202	78.1	-94.8656
Al 308.215	-19.0440	ppb	1.6393	8.6	156.318
As 188.980	0.9660	ppb	3.6360	376.4	-0.1100
B 249.678	-14.6636	ppb	0.3784	2.6	33.2746
Ba 389.178	-1.8169	ppb	0.6924	38.1	-41.2549
Be 313.042	0.0152	ppb	0.0056	37.1	-118.963
Ca 370.602	-6.000	ppb	3.207	53.4	-26.38
Cd 226.502	0.0883	ppb	0.0679	76.9	12.1778
Co 228.615	-0.3667	ppb	0.5259	143.4	11.4097
Cr 267.716	-0.0873	ppb	0.1345	154.0	-0.4031
Cu 324.754	-2.3522	ppb	0.1468	6.2	-24.6736
Fe 271.441	5.1686	ppb	1.2633	24.4	11.9717
K 766.491	-1.3917	ppb	0.0788	5.7	165.087
Mg 279.078	-1.5454	ppb	5.1152	331.0	26.0575
Mn 257.610	-0.3009	ppb	0.0335	11.1	23.6716
Mo 202.032	-1.0148	ppb	0.0566	5.6	7.4288
Na 330.237	276.899	ppb	220.915	79.8	10.3270
Ni 231.604	-0.1050	ppb	0.6092	580.1	-0.2615
Pb 220.353	-0.4994	ppb	2.3946	479.5	2.7019
Sb 206.834	-5.7737	ppb	5.1353	88.9	-2.5828
Se 196.026	3.7915	ppb	14.3350	378.1	1.0553
Sn 189.925	-2.8315	ppb	1.2533	44.3	-1.7107
Sr 216.596	-0.1332	ppb	0.1706	128.1	9.7586
Ti 334.941	-0.2130	ppb	0.0288	13.5	-115.504
Tl 190.794	-2.9864	ppb	1.7941	60.1	-3.6388
V 292.401	-0.4930	ppb	0.2552	51.8	-7.8384
Zn 206.200	-0.7273	ppb	0.1271	17.5	-0.6797

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(Samp) 3/30/2013, 7:46:31 AM Rack 4, Tube 53  
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.9879u	0.0580	0.5517
Al 308.215	-20.1932u	-17.9302u	-20.4178u
As 188.980	-4.1212u	-2.4278u	8.4845
B 249.678	-16.8774u	-15.8729u	-15.6220u
Ba 389.178	-0.6604u	-0.5370u	-0.8361u
Be 313.042	0.0185	0.0210	0.0160
Ca 370.602	-4.997u	-9.389u	-3.938u
Cd 226.502	-0.0057u	-0.0149u	-0.1899u
Co 228.615	0.4666	-0.7249u	-0.8029u
Cr 267.716	0.0702	-0.2063u	-0.2100u
Cu 324.754	-2.2701u	-1.8476u	-2.4593u
Fe 271.441	7.4918	1.5656	3.3950
K 766.491	-0.7485u	-1.3313u	-1.4155u
Mg 279.078	-1.7573u	-4.3506u	-6.7599u
Mn 257.610	-0.2834u	-0.3168u	-0.2711u
Mo 202.032	-0.8407u	-1.1336u	-0.6890u
Na 330.237	327.583	89.8042	436.746
Ni 231.604	-0.3747u	-0.2458u	1.7989
Pb 220.353	0.3252	-2.3763u	1.0689
Sb 206.834	-4.7568u	-8.3176u	-5.2943u
Se 196.026	11.2847	-5.5367u	10.1686
Sn 189.925	1.3043	-3.9987u	-3.5356u
Sr 216.596	-0.5787u	-0.6752u	-0.5733u
Ti 334.941	-0.2361u	-0.2677u	-0.2353u
Tl 190.794	1.3064	2.0638	1.4846
V 292.401	-0.1703u	-0.3622u	-0.2310u
Zn 206.200	0.6671	-0.7821u	-0.5807u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1261	ppb	0.7861	623.6	-65.5417
Al 308.215	-19.5137	ppb	1.3760	7.1	153.611
As 188.980	0.6452	ppb	6.8417	1060.5	-0.3227
B 249.678	-16.1241	ppb	0.6643	4.1	19.5951
Ba 389.178	-0.6778	ppb	0.1503	22.2	-17.6016
Be 313.042	0.0185	ppb	0.0025	13.5	-112.541
Ca 370.602	-6.108	ppb	2.891	47.3	-26.60
Cd 226.502	-0.0702	ppb	0.1038	147.9	6.5054
Co 228.615	-0.3538	ppb	0.7115	201.1	11.5525
Cr 267.716	-0.1154	ppb	0.1607	139.3	-1.5760
Cu 324.754	-2.1923	ppb	0.3132	14.3	-16.8614
Fe 271.441	4.1508	ppb	3.0345	73.1	10.2369
K 766.491	-1.1651	ppb	0.3632	31.2	175.956
Mg 279.078	-4.2893	ppb	2.5019	58.3	20.3943
Mn 257.610	-0.2904	ppb	0.0237	8.1	26.0469
Mo 202.032	-0.8878	ppb	0.2260	25.5	8.2430
Na 330.237	284.711	ppb	177.400	62.3	10.7267
Ni 231.604	0.3928	ppb	1.2194	310.4	0.9164
Pb 220.353	-0.3274	ppb	1.8130	553.7	2.9795
Sb 206.834	-6.1229	ppb	1.9196	31.4	-2.7995
Se 196.026	5.3056	ppb	9.4062	177.3	1.5470
Sn 189.925	-2.0767	ppb	2.9371	141.4	-1.1457
Sr 216.596	-0.6091	ppb	0.0573	9.4	5.3217
Ti 334.941	-0.2464	ppb	0.0185	7.5	-123.968
Tl 190.794	1.6183	ppb	0.3960	24.5	-0.6269
V 292.401	-0.2545	ppb	0.0981	38.5	-1.3174
Zn 206.200	-0.2319	ppb	0.7850	338.5	-1.4460

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(Samp) 3/30/2013, 7:51:59 AM Rack 4, Tube 54  
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.4055u	-0.1664u	-0.4318u
Al 308.215	-18.3081u	-17.9812u	-20.9411u
As 188.980	-1.6057u	-3.8421u	0.5763
B 249.678	-15.6945u	-15.9967u	-15.2439u
Ba 389.178	-0.9154u	-1.5321u	-2.0189u
Be 313.042	0.0206	0.0198	0.0201
Ca 370.602	-7.566u	-10.60u	-8.983u
Cd 226.502	-0.3742u	-0.0700u	0.0064
Co 228.615	0.3034	-0.5945u	-0.7154u
Cr 267.716	-0.2120u	-0.2369u	-0.2085u
Cu 324.754	-2.5077u	-1.3545u	-2.6593u
Fe 271.441	4.6538	8.5310	-1.3769u
K 766.491	-1.3407u	-1.1558u	-1.6132u
Mg 279.078	-7.7689u	-3.7537u	-0.4609u
Mn 257.610	-0.2869u	-0.3224u	-0.2977u
Mo 202.032	-0.9653u	-0.9180u	-0.2656u
Na 330.237	235.745	117.038	319.667
Ni 231.604	-0.0890u	-0.5261u	-1.5323u
Pb 220.353	-1.1026u	-1.8709u	-1.1263u
Sb 206.834	-0.2735u	-0.5784u	2.5350
Se 196.026	1.3693	10.4669	-4.6465u
Sn 189.925	-0.3981u	-0.6819u	-2.3334u
Sr 216.596	-0.5726u	-0.5704u	-0.5265u
Ti 334.941	-0.2534u	-0.1887u	-0.1905u
Tl 190.794	6.5272	2.2293	-2.8217u
V 292.401	-0.4799u	-0.5442u	-0.7482u
Zn 206.200	-0.9453u	0.2969	-0.0361u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.3345	ppb	0.1462	43.7	-80.3790
Al 308.215	-19.0768	ppb	1.6228	8.5	156.130
As 188.980	-1.6239	ppb	2.2093	136.0	-1.8269
B 249.678	-15.6450	ppb	0.3788	2.4	24.0827
Ba 389.178	-1.4888	ppb	0.5530	37.1	-34.4448
Be 313.042	0.0202	ppb	0.0004	2.1	-109.327
Ca 370.602	-9.051	ppb	1.520	16.8	-36.08
Cd 226.502	-0.1459	ppb	0.2014	138.0	3.7953
Co 228.615	-0.3355	ppb	0.5566	165.9	11.7642
Cr 267.716	-0.2191	ppb	0.0155	7.1	-5.9076
Cu 324.754	-2.1738	ppb	0.7136	32.8	-15.9572
Fe 271.441	3.9360	ppb	4.9928	126.8	9.8687
K 766.491	-1.3699	ppb	0.2301	16.8	166.130
Mg 279.078	-3.9945	ppb	3.6600	91.6	21.0026
Mn 257.610	-0.3023	ppb	0.0182	6.0	23.3176
Mo 202.032	-0.7163	ppb	0.3910	54.6	9.3430
Na 330.237	224.150	ppb	101.811	45.4	7.6078
Ni 231.604	-0.7158	ppb	0.7401	103.4	-1.7067
Pb 220.353	-1.3666	ppb	0.4369	32.0	1.3019
Sb 206.834	0.5610	ppb	1.7163	305.9	1.3320
Se 196.026	2.3965	ppb	7.6089	317.5	0.6023
Sn 189.925	-1.1378	ppb	1.0451	91.9	-0.4430
Sr 216.596	-0.5565	ppb	0.0260	4.7	5.8267
Ti 334.941	-0.2108	ppb	0.0368	17.5	-114.970
Tl 190.794	1.9783	ppb	4.6795	236.5	-0.3916
V 292.401	-0.5907	ppb	0.1401	23.7	-10.5091
Zn 206.200	-0.2282	ppb	0.6430	281.8	-1.4519

E03292013.vvq. All Data Report 3/30/2013, 8:54:32 AM

(Samp) 3/30/2013, 7:57:28 AM Rack 4, Tube 55  
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.2845u	0.6031	-0.6376u
Al 308.215	-17.2956u	-18.8170u	-18.0727u
As 188.980	1.4584	-3.2817u	2.0912
B 249.678	-16.9548u	-16.3847u	-16.0019u
Ba 389.178	-0.3260u	-0.6735u	-0.8980u
Be 313.042	0.0213	0.0097	0.0166
Ca 370.602	-12.45u	-5.782u	-10.71u
Cd 226.502	-0.0393u	0.1275	0.0294
Co 228.615	-0.4669u	-0.4975u	-1.1881u
Cr 267.716	0.1966	0.3384	-0.3370u
Cu 324.754	-2.2914u	-1.9246u	-2.8811u
Fe 271.441	3.7247	1.4358	5.8202
K 766.491	-1.2398u	-1.4477u	-1.1011u
Mg 279.078	-5.6700u	0.2652	-5.5398u
Mn 257.610	-0.3135u	-0.2799u	-0.2654u
Mo 202.032	-1.4112u	-0.3785u	-1.3299u
Na 330.237	338.063	110.644	-5.3647u
Ni 231.604	-0.4151u	-0.2306u	0.5995
Pb 220.353	-0.1050u	0.7076	2.2792
Sb 206.834	-1.8877u	1.4721	1.8994
Se 196.026	5.5362	8.8087	-0.9253u
Sn 189.925	-1.5285u	0.2944	-7.0741u
Sr 216.596	-0.3895u	-0.2564u	-1.0754u
Ti 334.941	-0.2037u	-0.2782u	-0.2942u
Tl 190.794	4.0675	-1.1853u	-2.6044u
V 292.401	-0.2292u	-0.5473u	-0.1681u
Zn 206.200	-0.3498u	-1.6887u	-0.8791u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1063	ppb	0.6393	601.2	-64.1337
Al 308.215	-18.0618	ppb	0.7608	4.2	161.963
As 188.980	0.0893	ppb	2.9365	3289.0	-0.6912
B 249.678	-16.4471	ppb	0.4795	2.9	16.5673
Ba 389.178	-0.6325	ppb	0.2882	45.6	-16.6599
Be 313.042	0.0159	ppb	0.0058	36.5	-117.611
Ca 370.602	-9.647	ppb	3.458	35.8	-38.14
Cd 226.502	0.0392	ppb	0.0839	213.9	10.4227
Co 228.615	-0.7175	ppb	0.4079	56.8	7.4063
Cr 267.716	0.0660	ppb	0.3561	539.8	5.9986
Cu 324.754	-2.3657	ppb	0.4826	20.4	-25.3357
Fe 271.441	3.6602	ppb	2.1929	59.9	9.3272
K 766.491	-1.2629	ppb	0.1745	13.8	171.266
Mg 279.078	-3.6482	ppb	3.3898	92.9	21.7169
Mn 257.610	-0.2862	ppb	0.0247	8.6	27.0252
Mo 202.032	-1.0399	ppb	0.5742	55.2	7.2678
Na 330.237	147.781	ppb	174.700	118.2	3.6837
Ni 231.604	-0.0154	ppb	0.5404	3511.4	-0.0495
Pb 220.353	0.9606	ppb	1.2121	126.2	5.0594
Sb 206.834	0.4946	ppb	2.0742	419.3	1.2941
Se 196.026	4.4732	ppb	4.9533	110.7	1.2767
Sn 189.925	-2.7694	ppb	3.8378	138.6	-1.6643
Sr 216.596	-0.5738	ppb	0.4395	76.6	5.6596
Ti 334.941	-0.2587	ppb	0.0483	18.7	-127.076
Tl 190.794	0.0926	ppb	3.5147	3795.5	-1.6250
V 292.401	-0.3149	ppb	0.2036	64.7	-2.9308
Zn 206.200	-0.9726	ppb	0.6743	69.3	-0.3000

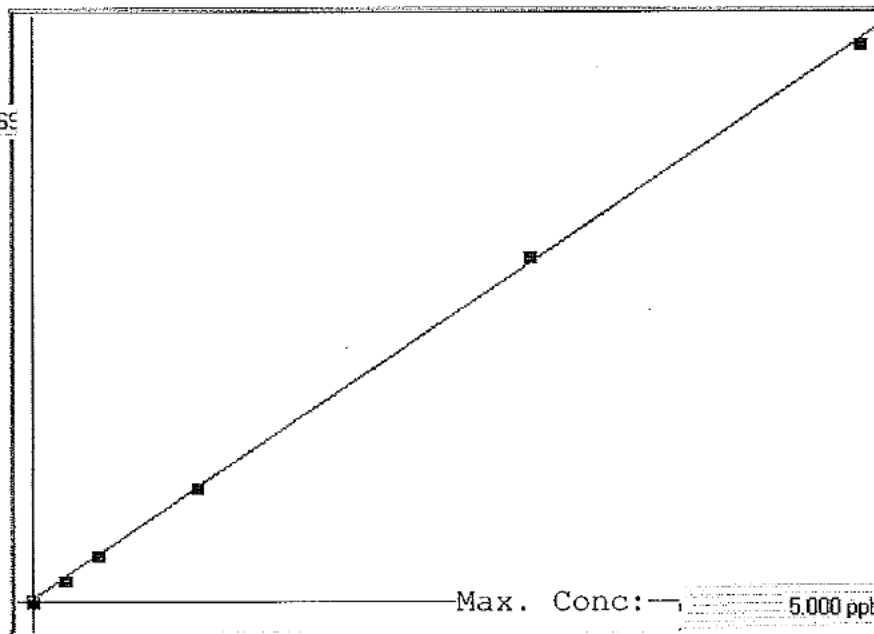


Hg Norm2

Linear

μ Abs.:

19569



A= 0.0000e+000

B= 2.5424e-004

C= -2.1260e-002

Rho= 0.9997884

Accept=Accepted

Std ID	Conc.	Calc.	Dev.	Mean	SD or %RSD	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
blank	0.000	-0.010	-0.010	44	11.025	58	44	31		
0.2	0.200	0.181	-0.019	796	0.1 %	795	797	796		
0.4	0.400	0.404	0.004	1671	0.4 %	1663	1678	1674		
1.0	1.000	0.995	-0.005	3996	0.8 %	3956	4002	4032		
3.0	3.000	3.076	0.076	12182	0.2 %	12194	12200	12154		
5.0	5.000	4.954	-0.046	19569	0.8 %	19392	19550	19766		

## C03272013A

Method: Hg Norm2

Operator: Admin

Date of Analysis: 27 Mar 2013 13:14:28

Sample ID	Extended ID	Mean	RSD	Date
blank		44	24.8689	27 Mar 2013 13:14:52
0.2		796	0.1026	27 Mar 2013 13:17:17
0.4		1672	0.3794	27 Mar 2013 13:19:45
1.0		3997	0.7820	27 Mar 2013 13:22:12
3.0		12183	0.1676	27 Mar 2013 13:24:38
5.0		19569	0.7833	27 Mar 2013 13:27:05
ICV		3.0616	0.7250	27 Mar 2013 13:29:31
ICB		-0.0121	-2.9697	27 Mar 2013 13:31:58
CRA		0.1827	0.1735	27 Mar 2013 13:34:25
CCV		2.5940	0.0647	27 Mar 2013 13:36:52
CCB		-0.0110	-5.7625	27 Mar 2013 13:39:18
680-88612-a-20-a	(BCB 7471 270543 10X)	1.4473	0.1138	27 Mar 2013 13:41:45
mb 680-270664/1-a		-0.0115	-15.1202	27 Mar 2013 13:44:10
lcs 680-270664/2-a		2.5382	0.1154	27 Mar 2013 13:46:38
680-88527-a-35-b		1.6351	0.3398	27 Mar 2013 13:49:04
680-88527-a-35-c ms		2.5443	0.5129	27 Mar 2013 13:51:29
680-88527-a-35-d msd		2.5704	0.9420	27 Mar 2013 13:53:54
680-88527-a-36-b		1.8185	0.1598	27 Mar 2013 13:56:20
680-88527-a-37-b		1.0750	0.6767	27 Mar 2013 13:58:47
680-88527-a-38-b		0.9093	0.7938	27 Mar 2013 14:01:13
680-88592-b-19-d		1.7674	0.9995	27 Mar 2013 14:03:40
CCV		2.6043	0.0708	27 Mar 2013 14:06:07
CCB		-0.0105	-11.4177	27 Mar 2013 14:08:35
680-88592-b-19-e ms		2.9604	0.3598	27 Mar 2013 14:11:02
680-88592-b-19-f msd		3.0985	0.5932	27 Mar 2013 14:13:30
680-88592-b-28-b		2.4104	0.5306	27 Mar 2013 14:15:57
680-88592-b-30-b		3.4410	0.4924	27 Mar 2013 14:18:24
680-88592-a-33-b		1.5872	0.8168	27 Mar 2013 14:20:51
680-88592-a-34-b		4.6123	0.3862	27 Mar 2013 14:23:17
680-88592-a-35-b		3.6087	1.2369	27 Mar 2013 14:25:44
680-88451-b-2-a		0.0628	3.3105	27 Mar 2013 14:28:10
680-88638-a-1-b		0.0514	0.6173	27 Mar 2013 14:30:36
680-88638-a-2-b		0.3711	0.6555	27 Mar 2013 14:33:02
CCV		2.6219	0.1358	27 Mar 2013 14:35:29
CCB		-0.0118	-7.3440	27 Mar 2013 14:37:56
680-88638-a-3-b		0.1086	0.4415	27 Mar 2013 14:40:22
680-88638-a-4-b		0.1785	0.0671	27 Mar 2013 14:42:49
mb 680-270670/1-a		0.0056	15.4193	27 Mar 2013 14:45:16
lcs 680-270670/2-a		2.8248	0.2903	27 Mar 2013 14:47:44
680-88632-b-10-a		5.5597	0.0611	27 Mar 2013 14:50:11
680-88632-b-10-b ms		7.0899	0.4990	27 Mar 2013 14:52:38
680-88632-b-10-c msd		5.5800	0.4862	27 Mar 2013 14:55:05
680-88632-b-23-a		3.3695	0.4787	27 Mar 2013 14:57:31
680-88632-b-29-a		2.7020	0.7875	27 Mar 2013 14:59:58
680-88632-b-34-a		2.1644	0.1199	27 Mar 2013 15:02:25
CCV		2.5984	0.8555	27 Mar 2013 15:04:51
CCB		-0.0129	-6.4519	27 Mar 2013 15:07:18
680-88632-a-41-a		3.4904	0.5929	27 Mar 2013 15:09:44
680-88632-a-42-a		1.7773	0.2219	27 Mar 2013 15:12:09
680-88632-a-43-a		7.4933	0.1861	27 Mar 2013 15:14:36
680-88632-a-44-a		5.9762	0.3385	27 Mar 2013 15:17:03
680-88632-b-48-a		3.0071	0.7438	27 Mar 2013 15:19:32
680-88632-a-50-a		2.8086	0.8306	27 Mar 2013 15:22:01
680-88601-a-2-b		0.1962	0.5827	27 Mar 2013 15:24:28
680-88601-a-4-b		0.0415	2.0239	27 Mar 2013 15:26:57
680-88601-a-6-b		0.1441	0.6497	27 Mar 2013 15:29:23
680-88601-a-8-b		0.1156	0.4147	27 Mar 2013 15:31:50
CCV		2.5916	0.5086	27 Mar 2013 15:34:18
CCB		-0.0081	-10.3268	27 Mar 2013 15:36:44
680-88601-a-10-b		0.8144	0.2045	27 Mar 2013 15:39:10
mb 680-270674/1-a		-0.0085	-25.7014	27 Mar 2013 15:41:36
lcs 680-270674/2-a		2.5208	0.1446	27 Mar 2013 15:44:03
680-88582-a-2-b		0.4853	0.1375	27 Mar 2013 15:46:31
680-88582-a-4-b		0.1473	1.2041	27 Mar 2013 15:48:57
680-88582-a-6-b		0.1548	0.9511	27 Mar 2013 15:51:23
680-88582-a-8-a		1.0668	0.8261	27 Mar 2013 15:53:51
680-88582-a-10-b		2.4297	1.1691	27 Mar 2013 15:56:18

## C03272013A

Method: Hg Norm2

Operator: Admin

Date of Analysis: 27 Mar 2013 13:14:28

Sample ID	Extended ID	Mean	RSD	Date
680-88582-a-12-a		0.3175	1.0830	27 Mar 2013 15:58:47
680-88582-a-14-b		2.8694	0.3996	27 Mar 2013 16:01:13
CCV		2.6084	0.0965	27 Mar 2013 16:03:39
CCB		-0.0101	-8.2431	27 Mar 2013 16:06:07
680-88582-a-16-a		0.1104	0.9653	27 Mar 2013 16:08:33
680-88582-a-18-b		0.0574	0.7530	27 Mar 2013 16:11:00
680-88582-a-20-b		0.4918	0.3044	27 Mar 2013 16:13:26
680-88582-a-22-f		0.0587	0.5398	27 Mar 2013 16:15:52
680-88582-a-22-g ms		1.0874	1.1947	27 Mar 2013 16:18:20
680-88582-a-22-h msd		1.1094	0.6574	27 Mar 2013 16:20:46
680-88582-a-24-b		0.0369	0.6500	27 Mar 2013 16:23:13
mb 680-270694/1-a		-0.0035	-15.8601	27 Mar 2013 16:25:40
lcs 680-270694/2-a		2.6625	0.5321	27 Mar 2013 16:28:07
680-88539-a-2-i		1.5698	0.4707	27 Mar 2013 16:30:35
CCV		2.6881	0.4969	27 Mar 2013 16:33:02
CCB		0.0026	15.7331	27 Mar 2013 16:35:30
680-88539-a-2-j ms		2.1743	0.3771	27 Mar 2013 16:37:57
680-88539-a-2-k msd		2.6950	0.6390	27 Mar 2013 16:40:25
680-88539-a-4-c		0.2093	0.4894	27 Mar 2013 16:42:53
680-88539-a-6-a		0.0515	0.4034	27 Mar 2013 16:45:19
680-88539-a-8-c		0.1511	0.2379	27 Mar 2013 16:47:46
680-88539-a-10-c		0.6006	0.2609	27 Mar 2013 16:50:13
680-88539-a-12-c		0.0982	1.2854	27 Mar 2013 16:52:40
680-88539-a-14-c		0.3069	0.7105	27 Mar 2013 16:55:07
680-88539-a-16-c		0.2637	0.3182	27 Mar 2013 16:57:33
680-88539-a-18-c		0.6683	0.5390	27 Mar 2013 17:00:00
CCV		2.6437	0.2244	27 Mar 2013 17:02:27
CCB		-0.0013	-32.1462	27 Mar 2013 17:04:55
680-88539-a-20-a		3.5893	0.1736	27 Mar 2013 17:07:21
CCV		2.6415	0.0640	27 Mar 2013 17:09:47
CCB		-0.0033	-23.8630	27 Mar 2013 17:12:14
CCV		2.5718	0.2487	28 Mar 2013 09:05:34
CCB		0.0004	360.9793	28 Mar 2013 09:08:00
680-88632-b-10-a	^5	1.1745	0.1840	28 Mar 2013 09:10:27
680-88632-b-10-b ms	^5	1.4166	0.2135	28 Mar 2013 09:12:52
680-88632-b-10-c msd	^5	1.0869	0.3221	28 Mar 2013 09:15:18
680-88632-a-43-a	^5	1.4628	0.3407	28 Mar 2013 09:17:43
680-88632-a-44-a	^5	1.1705	0.4816	28 Mar 2013 09:20:09
CCV		2.6366	0.6211	28 Mar 2013 09:22:35
CCB		0.0083	12.8083	28 Mar 2013 09:25:02



METALS BATCH WORKSHEET

Lab Name: TestAmerica Savannah Job No.: 680-88632-4

SDG No.: 68088632-4

Batch Number: 270845 Batch Start Date: 03/27/13 10:09 Batch Analyst: Lawhon, Jon

Batch Method: 3050B Batch End Date: 03/27/13 14:48

Lab Sample ID	Client Sample ID	Method Chain	Basis	CalcMsg	InitialAmount	FinalAmount	MS Cal Stk 00019	MS LCS1 WK 00001	MS LCS2 wk 00143
MB 680-270845/1		3050B, 6010C		CALC NOT SET TO RUN	1.02 g	100 mL			
LCS 680-270845/3		3050B, 6010C		CALC NOT SET TO RUN	1.01 g	100 mL	2 mL		
680-88632-B-10	CV0090B-CS-SP	3050B, 6010C	T	CALC NOT SET TO RUN	1.02 g	100 mL			
680-88632-B-10 MS	CV0090B-CS-SP	3050B, 6010C	T	CALC NOT SET TO RUN	1.03 g	100 mL		1 mL	1 mL
680-88632-B-10 MSD	CV0090B-CS-SP	3050B, 6010C	T	CALC NOT SET TO RUN	1.03 g	100 mL		1 mL	1 mL
680-88632-B-23	CV0566A-CS-SP	3050B, 6010C	T	CALC NOT SET TO RUN	1.07 g	100 mL			
680-88632-B-29	FM0017C-CS-SP	3050B, 6010C	T	CALC NOT SET TO RUN	1.11 g	100 mL			
680-88632-B-34	CV0197C-CS	3050B, 6010C	T	CALC NOT SET TO RUN	1.09 g	100 mL			
680-88632-A-41	FM0017C-GS-SP-si eve	3050B, 6010C	T	CALC NOT SET TO RUN	1.00 g	100 mL			
680-88632-A-42	CV0197C-CS-sieve	3050B, 6010C	T	CALC NOT SET TO RUN	1.01 g	100 mL			
680-88632-A-43	CV0090B-CS-SP-si eve	3050B, 6010C	T	CALC NOT SET TO RUN	1.04 g	100 mL			
680-88632-A-44	CV0566A-CS-SP-si eve	3050B, 6010C	T	CALC NOT SET TO RUN	1.02 g	100 mL			
680-88632-B-48	HP0084B-CS-SP	3050B, 6010C	T	CALC NOT SET TO RUN	1.00 g	100 mL			
680-88632-A-50	HP0084B-CS-SP-si eve	3050B, 6010C	T	CALC NOT SET TO RUN	1.03 g	100 mL			

Lab Sample ID	Client Sample ID	Method Chain	Basis	AnalysisComment					
MB 680-270845/1		3050B, 6010C							
LCS 680-270845/3		3050B, 6010C		SN LCS					
680-88632-B-10	CV0090B-CS-SP	3050B, 6010C	T						
680-88632-B-10 MS	CV0090B-CS-SP	3050B, 6010C	T						
680-88632-B-10 MSD	CV0090B-CS-SP	3050B, 6010C	T						
680-88632-B-23	CV0566A-CS-SP	3050B, 6010C	T						

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.: 680-88632-4

SDG No.: 68088632-4

Batch Number: 270845 Batch Start Date: 03/27/13 10:09 Batch Analyst: Lawhon, Jon

Batch Method: 3050B Batch End Date: 03/27/13 14:48

Lab Sample ID	Client Sample ID	Method Chain	Basis	AnalysisComment					
680-88632-B-29	FM0017C-CS-SP	3050B, 6010C	T						
680-88632-B-34	CV0197C-CS	3050B, 6010C	T						
680-88632-A-41	FM0017C-GS-SP-si eve	3050B, 6010C	T						
680-88632-A-42	CV0197C-CS-sieve	3050B, 6010C	T						
680-88632-A-43	CV0090B-CS-SP-si eve	3050B, 6010C	T						
680-88632-A-44	CV0566A-CS-SP-si eve	3050B, 6010C	T						
680-88632-B-48	HP0084B-CS-SP	3050B, 6010C	T						
680-88632-A-50	HP0084B-CS-SP-si eve	3050B, 6010C	T						

Batch Notes	
Analyst	JL
Balance ID	25
Blank Soil Lot Number	2958846
Hydrogen peroxide lot number	52223236
Lot # of hydrochloric acid	24317
Lot # of Nitric Acid	L1200
Hood ID or number	FH-8
Hot Block ID number	10
Nominal Amount Used	1.0 g
Pipette ID	ME4
Perform Calculation (0=No, 1=Yes)	0
Temperature	97 Degrees C
ID number of the thermometer	MEPREP16
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.

METALS BATCH WORKSHEET

Lab Name: TestAmerica Savannah Job No.: 680-88632-4

SDG No.: 68088632-4

Batch Number: 270664 Batch Start Date: 03/26/13 10:14 Batch Analyst: Umbehr, Uli

Batch Method: 7471A Batch End Date: 03/26/13 16:00

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	hg_icvint 00084	Hg_Int_Cal 00090	AnalysisComment	
CCV 680-270664/29		7471A, 7471B		50 mL	50 mL		0.25 mL		
CCB 680-270664/30		7471A, 7471B		50 mL	50 mL				
ICV 680-270664/32		7471A, 7471B		50 mL	50 mL	0.15 mL			
ICB 680-270664/33		7471A, 7471B		50 mL	50 mL				
CRA 680-270664/34		7471A, 7471B		50 mL	50 mL		0.02 mL	0.20 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.: 680-88632-4

SDG No.: 68088632-4

Batch Number: 270664 Batch Start Date: 03/26/13 10:14 Batch Analyst: Umbehr, Uli

Batch Method: 7471A Batch End Date: 03/26/13 16:00

Batch Notes	
Hydroxylamine Sulfate Lot Number	2965828
Hydroxylamine Hydrochloride Lot	3001958
Aqua Regia Lot Number	3001953
Balance ID	27
Blank Soil Lot Number	2021822
Sulfuric Acid Lot Number	2956908
Lot # of hydrochloric acid	2968294
Lot # of Nitric Acid	2950992
Hood ID or number	WB2
Hot Block ID number	11, 12
Potassium Persulfate Lot Number	3001730
Potassium Permanganate Lot Number	2384878
NaCL Lot #	2891381
Nominal Amount Used	0.5 - 0.6 g g
Oven, Bath or Block Temperature 1	95 Degrees C
Oven, Bath or Block Temperature 2	95 Degrees C
Pipette ID	ME1, ME7, ME10
Repittetor Volume Check	01/03/13
Stannous Chloride Lot Number	3001827
SOP Number	ME1, ME7, ME10
ID number of the thermometer	ME9, ME10
Digestion Tube/Cup Lot #	J147592-264-100
Uncorrected Temperature	95 Celsius
Uncorrected Temperature 2	95 Celsius

Basis	Basis Description

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.: 680-88632-4

SDG No.: 68088632-4

Batch Number: 270670 Batch Start Date: 03/26/13 10:24 Batch Analyst: Umbehr, Uli

Batch Method: 7471B Batch End Date: 03/26/13 16:00

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Hg_Int_Cal 00090			
MB 680-270670/1		7471B, 7471B		0.50 g	50 mL				
LCS 680-270670/2		7471B, 7471B		0.51 g	50 mL	0.25 mL			
680-88632-B-10	CV0090B-CS-SP	7471B, 7471B	T	0.56 g	50 mL				
680-88632-B-10 MS	CV0090B-CS-SP	7471B, 7471B	T	0.59 g	50 mL	0.1 mL			
680-88632-B-10 MSD	CV0090B-CS-SP	7471B, 7471B	T	0.54 g	50 mL	0.1 mL			
680-88632-B-23	CV0566A-CS-SP	7471B, 7471B	T	0.58 g	50 mL				
680-88632-B-29	FM0017C-CS-SP	7471B, 7471B	T	0.59 g	50 mL				
680-88632-B-34	CV0197C-CS	7471B, 7471B	T	0.58 g	50 mL				
680-88632-A-41	FM0017C-GS-SP-si eve	7471B, 7471B	T	0.51 g	50 mL				
680-88632-A-42	CV0197C-CS-sieve	7471B, 7471B	T	0.54 g	50 mL				
680-88632-A-43	CV0090B-CS-SP-si eve	7471B, 7471B	T	0.58 g	50 mL				
680-88632-A-44	CV0566A-CS-SP-si eve	7471B, 7471B	T	0.53 g	50 mL				
680-88632-B-48	HP0084B-CS-SP	7471B, 7471B	T	0.52 g	50 mL				
680-88632-A-50	HP0084B-CS-SP-si eve	7471B, 7471B	T	0.54 g	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.: 680-88632-4

SDG No.: 68088632-4

Batch Number: 270670 Batch Start Date: 03/26/13 10:24 Batch Analyst: Umbehr, Uli

Batch Method: 7471B Batch End Date: 03/26/13 16:00

Batch Notes	
Hydroxylamine Sulfate Lot Number	2965828
Hydroxylamine Hydrochloride Lot	3001958
Aqua Regia Lot Number	3001953
Balance ID	27
Blank Soil Lot Number	2021822
Sulfuric Acid Lot Number	2956908
Lot # of hydrochloric acid	2968294
Lot # of Nitric Acid	2950992
Hood ID or number	WB2
Hot Block ID number	11, 12
Potassium Persulfate Lot Number	3001730
Potassium Permanganate Lot Number	2384878
NaCL Lot #	2891381
Nominal Amount Used	0.5 - 0.6 g g
Oven, Bath or Block Temperature 1	95 Degrees C
Oven, Bath or Block Temperature 2	95 Degrees C
Pipette ID	ME1, ME7, ME10
Repittetor Volume Check	01/03/13
Stannous Chloride Lot Number	3001827
SOP Number	ME1, ME7, ME10
ID number of the thermometer	ME9, ME10
Digestion Tube/Cup Lot #	J147592-264-100
Uncorrected Temperature	95 Celsius
Uncorrected Temperature 2	95 Celsius

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.

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

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Alternate Laboratory Name/Location

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Fax:

PROJECT REFERENCE <i>35th Ave Removal</i>	PROJECT NO. <i>2005148-1356</i>	PROJECT LOCATION (STATE)	MATRIX TYPE	REQUIRED ANALYSIS					PAGE <i>1</i> OF <i>4</i>
TAL (LAB) PROJECT MANAGER <i>Lisa Harven</i>	P.O. NUMBER	CONTRACT NO.	COMPOSITE (C) OR GRAB (G) INDICATE AQUEOUS (WATER) SOLID OR SEMISOLID AIR NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	LL PAH	ROA 8 Metals	PRESERVATIVE			STANDARD REPORT DELIVERY <input type="radio"/>
CLIENT PHONE	CLIENT FAX	DATE DUE _____							
CLIENT E-MAIL	EXPEDITED REPORT DELIVERY (SURCHARGE) <input type="radio"/>	DATE DUE _____							

CLIENT ADDRESS \_\_\_\_\_

COMPANY CONTRACTING THIS WORK (if applicable) \_\_\_\_\_

NUMBER OF COOLERS SUBMITTED PER SHIPMENT: \_\_\_\_\_

SAMPLE		SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	NUMBER OF CONTAINERS SUBMITTED					REMARKS
DATE	TIME												
<i>3-21-13</i>	<i>0825</i>	<i>CVD697A-CS</i>	<i>C</i>	<i>X</i>			<i>X</i>						
	<i>0840</i>	<i>CV0697B-CS</i>	<i>C</i>	<i>X</i>									
	<i>1130</i>	<i>Fm0341A-CS</i>	<i>C</i>	<i>X</i>									
	<i>1145</i>	<i>Fm0341B-CS</i>	<i>C</i>	<i>X</i>									
	<i>1154</i>	<i>Fm0341C-GS</i>	<i>G</i>	<i>X</i>									
	<i>1030</i>	<i>Fm0343A-CS</i>	<i>C</i>	<i>X</i>									
	<i>1030</i>	<i>Fm0343A-CSD</i>	<i>C</i>	<i>X</i>									
	<i>1050</i>	<i>Fm0343B-CS</i>	<i>C</i>	<i>X</i>									
	<i>1123</i>	<i>CV0090A-CS-SP</i>	<i>C</i>	<i>X</i>									
	<i>1135</i>	<i>CV0090B-CS-SP</i>	<i>C</i>	<i>X</i>				<i>X</i>					
	<i>1046</i>	<i>CV0092A-CS-SP</i>	<i>C</i>	<i>X</i>									
	<i>1055</i>	<i>CV0092B-CS-SP</i>	<i>C</i>	<i>X</i>									

RELINQUISHED BY: (SIGNATURE) <i>[Signature]</i>	DATE <i>3-22-13</i>	TIME <i>1130</i>	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE) <i>[Signature]</i>	DATE <i>03/23/13</i>	TIME <i>0939</i>	CUSTODY INTACT YES <input type="radio"/> NO <input type="radio"/>	CUSTODY SEAL NO.	SAVANNAH LOG NO. <i>680</i> <i>08632</i>	LABORATORY REMARKS <i>1.2c</i>
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ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

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Alternate Laboratory Name/Location

Phone:  
Fax:

PROJECT REFERENCE <i>35th Ave Removal</i>	PROJECT NO. <i>2005148-1356</i>	PROJECT LOCATION (STATE) <i>AL</i>	MATRIX TYPE	REQUIRED ANALYSIS	PAGE <i>2</i> OF <i>4</i>
TAL (LAB) PROJECT MANAGER <i>Lisa Harven</i>	P.O. NUMBER	CONTRACT NO.	CLIENT FAX	STANDARD REPORT DELIVERY <input type="radio"/>	DATE DUE _____

COMPANY CONTRACTING THIS WORK (if applicable)	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	LLPAH BCPA8 Metals	STANDARD REPORT DELIVERY <input type="radio"/>	DATE DUE _____
							EXPEDITED REPORT DELIVERY (SURCHARGE) <input type="radio"/>	DATE DUE _____

NUMBER OF COOLERS SUBMITTED PER SHIPMENT:	PRESERVATIVE
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SAMPLE		SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	NUMBER OF CONTAINERS SUBMITTED										REMARKS
DATE	TIME							1	2	3	4	5	6	7	8	9	10	
<i>3-21-13</i>	<i>0929</i>	<i>FM0312A-CS-SP</i>	<i>C</i>	<i>X</i>	<i>X</i>		<i>X</i>											
	<i>0932</i>	<i>Fm0312B-CS-SP</i>	<i>C</i>	<i>X</i>	<i>X</i>		<i>X</i>											
	<i>0951</i>	<i>Fm0312C-CS-SP</i>	<i>C</i>	<i>X</i>	<i>X</i>		<i>X</i>											
	<i>0945</i>	<i>Fm0312D-CS-SP</i>	<i>C</i>	<i>X</i>	<i>X</i>		<i>X</i>											
	<i>0816</i>	<i>FM0368A-CS-SP CV0368A-CS-SP</i>	<i>C</i>	<i>X</i>	<i>X</i>		<i>X</i>											
	<i>0832</i>	<i>FM0368B-CS-SP CV0368B-CS-SP</i>	<i>C</i>	<i>X</i>	<i>X</i>		<i>X</i>											
	<i>1457</i>	<i>CV0473A-CS-SP</i>	<i>C</i>	<i>X</i>	<i>X</i>		<i>X</i>											
	<i>1459</i>	<i>CV0473B-CS-SP</i>	<i>C</i>	<i>X</i>	<i>X</i>		<i>X</i>											
	<i>1535</i>	<i>CV0476A-CS-SP</i>	<i>C</i>	<i>X</i>	<i>X</i>		<i>X</i>											
	<i>1544</i>	<i>CV0476B-CS-SP</i>	<i>C</i>	<i>X</i>	<i>X</i>		<i>X</i>											
	<i>1601</i>	<i>CV0566A-CS-SP</i>	<i>C</i>	<i>X</i>	<i>X</i>		<i>X</i>	<i>X</i>										
	<i>1610</i>	<i>CV0566B-CS-SP</i>	<i>C</i>	<i>X</i>	<i>X</i>		<i>X</i>											

RELINQUISHED BY: (SIGNATURE) <i>[Signature]</i>	DATE <i>3-22-13</i>	TIME <i>1130</i>	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
RECEIVED BY: (SIGNATURE) <i>[Signature]</i>	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

RECEIVED FOR LABORATORY BY: (SIGNATURE) <i>[Signature]</i>	DATE <i>03/23/13</i>	TIME <i>0939</i>	CUSTODY INTACT YES <input type="radio"/> NO <input type="radio"/>	CUSTODY SEAL NO.	SAVANNAH LOG NO. <i>680-58632</i>	LABORATORY REMARKS <i>1.2c</i>
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ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

# TestAmerica

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Alternate Laboratory Name/Location

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PROJECT REFERENCE <i>35th Ave Removal</i>	PROJECT NO. <i>2005148-1356</i>	PROJECT LOCATION (STATE) <i>AL</i>	MATRIX TYPE	REQUIRED ANALYSIS	PAGE <i>3</i> OF <i>4</i>
TAL (LAB) PROJECT MANAGER <i>Eric Williams</i>	P.O. NUMBER	CONTRACT NO.	CLIENT FAX		STANDARD REPORT DELIVERY <input type="radio"/>

CLIENT ADDRESS	COMPANY CONTRACTING THIS WORK (if applicable)	COMPOSITE (C) OR GRAV (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	REMARKS
							DATE DUE _____
							EXPEDITED REPORT DELIVERY (SURCHARGE) <input type="radio"/>
							DATE DUE _____
							NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE		SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAV (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	NUMBER OF CONTAINERS SUBMITTED										REMARKS
DATE	TIME							1	2	3	4	5	6	7	8	9	10	
<i>3-21-13</i>	<i>1315</i>	<i>CV0663A-CS-SP</i>	<i>C</i>	<i>X</i>			<i>X</i>											
	<i>1320</i>	<i>CV0663B-CS-SP</i>	<i>C</i>	<i>X</i>			<i>X</i>											
	<i>1355</i>	<i>Fm0017A-CS-SP</i>	<i>C</i>	<i>X</i>			<i>X</i>											
	<i>1405</i>	<i>Fm0017B-CS-SP</i>	<i>C</i>	<i>X</i>			<i>X</i>											
	<i>1400</i>	<i>Fm0017C-CS-SP</i>	<i>C</i>	<i>X</i>			<i>X</i>	<i>X</i>										
	<i>1410</i>	<i>Fm0017D-CS-SP</i>	<i>C</i>	<i>X</i>			<i>X</i>											
	<i>1330</i>	<i>CV0197A-CS</i>	<i>C</i>	<i>X</i>			<i>X</i>											
	<i>1345</i>	<i>CV0197B-CS</i>	<i>C</i>	<i>X</i>			<i>X</i>											
	<i>1345</i>	<i>CV0197B-CSD</i>	<i>C</i>	<i>X</i>			<i>X</i>											
	<i>1350</i>	<i>CV0197C-CS</i>	<i>C</i>	<i>X</i>			<i>X</i>	<i>X</i>										
	<i>1420</i>	<i>CV0813A-CS</i>	<i>C</i>	<i>X</i>			<i>X</i>											
	<i>1430</i>	<i>CV0813B-CS</i>	<i>C</i>	<i>X</i>			<i>X</i>											

RELINQUISHED BY: (SIGNATURE) <i>[Signature]</i>	DATE <i>3-21-13</i>	TIME <i>1130</i>	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
RECEIVED BY: (SIGNATURE) <i>[Signature]</i>	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

LABORATORY USE ONLY							
RECEIVED FOR LABORATORY BY: (SIGNATURE) <i>[Signature]</i>	DATE <i>03/23/13</i>	TIME <i>0939</i>	CUSTODY INTACT YES <input type="radio"/> NO <input type="radio"/>	CUSTODY SEAL NO.	SAVANNAH LOG NO. <i>88032</i>	LABORATORY REMARKS <i>1.2c</i>	

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

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Fax:

PROJECT REFERENCE <i>35th Ave Removal</i>	PROJECT NO. <i>200548-1356</i>	PROJECT LOCATION (STATE) <i>AL</i>	MATRIX TYPE	REQUIRED ANALYSIS	PAGE <i>4</i> OF <i>4</i>
TAL (LAB) PROJECT MANAGER <i>Lisa Harvey</i>	P.O. NUMBER	CONTRACT NO.	CLIENT FAX	STANDARD REPORT DELIVERY <input type="radio"/>	DATE DUE _____

CLIENT ADDRESS

COMPANY CONTRACTING THIS WORK (if applicable)

SAMPLE		SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	REQUIRED ANALYSIS										REMARKS					
DATE	TIME							LL PAH	PCRB8 Metals	PRESERVATIVE													
<i>3-21-13</i>	<i>1520</i>	<i>FM0346 A-CS</i>	<i>C</i>	<i>X</i>			<i>X</i>																
	<i>1540</i>	<i>FM0346 B-CS</i>	<i>C</i>	<i>X</i>			<i>X</i>																
	<i>1600</i>	<i>HP0323A-CS</i>	<i>C</i>	<i>X</i>			<i>X</i>																
	<i>1610</i>	<i>HP0323B-CS</i>	<i>C</i>	<i>X</i>			<i>X</i>																
	<i>1400</i>	<i>FM0017C-GS-SP-sieve</i>																					<i>X</i>
	<i>1350</i>	<i>CV0197C-CS-sieve</i>																					<i>X</i>
	<i>1135</i>	<i>CV0090B-CS-sp-sieve</i>																					<i>X</i>
	<i>1601</i>	<i>CV0566A-CS-sp-sieve</i>																					<i>X</i>

RELINQUISHED BY: (SIGNATURE) <i>[Signature]</i>	DATE <i>3-22-13</i>	TIME <i>1130</i>	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

RECEIVED FOR LABORATORY BY: (SIGNATURE) <i>[Signature]</i>	DATE <i>6/23/13</i>	TIME <i>0939</i>	CUSTODY INTACT YES <input type="radio"/> NO <input type="radio"/>	CUSTODY SEAL NO.	SAVANNAH LOG NO. <i>680-88632</i>	LABORATORY REMARKS <i>1-2c</i>
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ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

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PROJECT REFERENCE <i>35th Ave Removal</i>	PROJECT NO. <i>2005148</i>	PROJECT LOCATION (STATE) <i>AL</i>	MATRIX TYPE	REQUIRED ANALYSIS	PAGE <i>1</i>	OF <i>1</i>
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TAL (LAB) PROJECT MANAGER <i>Lisa Harvum</i>	P.O. NUMBER	CONTRACT NO.	CLIENT FAX	STANDARD REPORT DELIVERY <input type="radio"/>	DATE DUE
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EXPEDITED REPORT DELIVERY (SURCHARGE) <input type="radio"/>	DATE DUE
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CLIENT ADDRESS

COMPANY CONTRACTING THIS WORK (if applicable)

SAMPLE	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	NUMBER OF CONTAINERS SUBMITTED	REMARKS
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DATE	TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	NUMBER OF CONTAINERS SUBMITTED	REMARKS
<i>3-22-13</i>	<i>0856</i>	<i>CV0664A-CS-SP</i>	<i>C</i>	<i>X</i>			<i>X</i>		
	<i>0905</i>	<i>CV0664B-CS-SP</i>	<i>C</i>	<i>X</i>			<i>X</i>		
	<i>0805</i>	<i>HP 0084A-CS-SP</i>	<i>C</i>	<i>X</i>			<i>X</i>		
	<i>0815</i>	<i>HP 0084B-CS-SP</i>	<i>C</i>	<i>X</i>			<i>X</i>	<i>X</i>	
	<i>0808</i>	<i>HP0084C-GS-SP</i>	<i>G</i>	<i>X</i>			<i>X</i>		
	<i>0815</i>	<i>HP0084B-CS-SP-sieve</i>	<i>C</i>	<i>X</i>				<i>X</i>	

RELINQUISHED BY: (SIGNATURE) <i>[Signature]</i>	DATE <i>3-22-13</i>	TIME <i>11:30</i>	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE) <i>[Signature]</i>	DATE <i>03/23/13</i>	TIME <i>0939</i>	CUSTODY INTACT YES <input type="radio"/> NO <input type="radio"/>	CUSTODY SEAL NO.	SAVANNAH LOG NO. <i>620-88632</i>	LABORATORY REMARKS <i>1.2c</i>
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# 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: 680-88632-4

TestAmerica Sample Delivery Group: 68088632-4

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:

4/4/2013 6:49:09 AM

Bernard Kirkland

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Designee for

Lisa Harvey

Project Manager II

[lisa.harvey@testamericainc.com](mailto:lisa.harvey@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.*



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# Case Narrative

Client: Oneida Total Integrated Enterprises LLC  
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-88632-4  
SDG: 68088632-4

**Job ID: 680-88632-4**

**Laboratory: TestAmerica Savannah**

**Narrative**

## CASE NARRATIVE

**Client: Oneida Total Integrated Enterprises LLC**

**Project: 35th Avenue Superfund Site**

**Report Number: 680-88632-4**

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 03/23/2013; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 1.2 C.

### METALS (ICP)

Samples CV0090B-CS-SP (680-88632-10), CV0566A-CS-SP (680-88632-23), FM0017C-CS-SP (680-88632-29), CV0197C-CS (680-88632-34), FM0017C-GS-SP-sieve (680-88632-41), CV0197C-CS-sieve (680-88632-42), CV0090B-CS-SP-sieve (680-88632-43), CV0566A-CS-SP-sieve (680-88632-44), HP0084B-CS-SP (680-88632-48) and HP0084B-CS-SP-sieve (680-88632-50) were analyzed for Metals (ICP) in accordance with EPA SW-846 Method 6010C. The samples were prepared on 03/27/2013 and analyzed on 03/28/2013 and 03/29/2013.

Sample CV0090B-CS-SP (680-88632-10)[10X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

Several analytes recovered outside the recovery criteria for the MS/MSD of sample CV0090B-CS-SP (680-88632-10) in batch 680-271226. Also, Chromium, Silver and Lead exceeded the rpd limit.

No other difficulties were encountered during the metals analyses.

All other quality control parameters were within the acceptance limits.

### TOTAL MERCURY

Samples CV0090B-CS-SP (680-88632-10), CV0566A-CS-SP (680-88632-23), FM0017C-CS-SP (680-88632-29), CV0197C-CS (680-88632-34), FM0017C-GS-SP-sieve (680-88632-41), CV0197C-CS-sieve (680-88632-42), CV0090B-CS-SP-sieve (680-88632-43), CV0566A-CS-SP-sieve (680-88632-44), HP0084B-CS-SP (680-88632-48) and HP0084B-CS-SP-sieve (680-88632-50) were analyzed for total mercury in accordance with EPA SW-846 Method 7471B. The samples were prepared on 03/26/2013 and analyzed on 03/27/2013 and 03/28/2013.

Samples CV0090B-CS-SP (680-88632-10)[5X], CV0090B-CS-SP-sieve (680-88632-43)[5X] and CV0566A-CS-SP-sieve (680-88632-44)[5X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

Mercury recovered outside the recovery criteria for the MSD of sample CV0090B-CS-SPMSD (680-88632-10) in batch 680-271035.

The presence of the '4' qualifier in the data indicates analytes where the concentration in the unspiked sample exceeded four times the spiking amount.

## Case Narrative

Client: Oneida Total Integrated Enterprises LLC  
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-88632-4  
SDG: 68088632-4

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### Job ID: 680-88632-4 (Continued)

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#### Laboratory: TestAmerica Savannah (Continued)

No other difficulties were encountered during the mercury analyses.

All other quality control parameters were within the acceptance limits.

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# Sample Summary

Client: Oneida Total Integrated Enterprises LLC  
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-88632-4  
SDG: 68088632-4

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-88632-10	CV0090B-CS-SP	Solid	03/21/13 11:35	03/23/13 09:39
680-88632-23	CV0566A-CS-SP	Solid	03/21/13 16:01	03/23/13 09:39
680-88632-29	FM0017C-CS-SP	Solid	03/21/13 14:00	03/23/13 09:39
680-88632-34	CV0197C-CS	Solid	03/21/13 13:50	03/23/13 09:39
680-88632-41	FM0017C-GS-SP-sieve	Solid	03/21/13 14:00	03/23/13 09:39
680-88632-42	CV0197C-CS-sieve	Solid	03/21/13 13:50	03/23/13 09:39
680-88632-43	CV0090B-CS-SP-sieve	Solid	03/21/13 11:35	03/23/13 09:39
680-88632-44	CV0566A-CS-SP-sieve	Solid	03/21/13 16:01	03/23/13 09:39
680-88632-48	HP0084B-CS-SP	Solid	03/22/13 08:15	03/23/13 09:39
680-88632-50	HP0084B-CS-SP-sieve	Solid	03/22/13 08:15	03/23/13 09:39

# Method Summary

Client: Oneida Total Integrated Enterprises LLC  
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-88632-4  
SDG: 68088632-4

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
Moisture	Percent Moisture	EPA	TAL SAV

**Protocol References:**

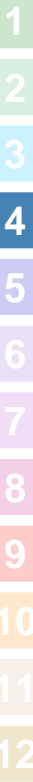
EPA = US Environmental Protection Agency

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

TAL TAM = TestAmerica Tampa, 6712 Benjamin Road, Suite 100, Tampa, FL 33634, TEL (813)885-7427





## Definitions/Glossary

Client: Oneida Total Integrated Enterprises LLC  
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-88632-4  
SDG: 68088632-4

### Qualifiers

#### Metals

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
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 or MSD exceeds the control limits
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.
α	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)
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 Results

Client: Oneida Total Integrated Enterprises LLC  
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-88632-4  
 SDG: 68088632-4

**Client Sample ID: CV0090B-CS-SP**

**Lab Sample ID: 680-88632-10**

Date Collected: 03/21/13 11:35

Matrix: Solid

Date Received: 03/23/13 09:39

Percent Solids: 78.4

**Method: 6010C - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	58		2.5	0.74	mg/Kg	☼	03/27/13 10:09	03/28/13 09:54	1
Barium	450		1.2	0.37	mg/Kg	☼	03/27/13 10:09	03/28/13 09:54	1
Cadmium	1.6		0.62	0.12	mg/Kg	☼	03/27/13 10:09	03/28/13 09:54	1
Chromium	40		1.2	0.62	mg/Kg	☼	03/27/13 10:09	03/28/13 09:54	1
Lead	4300		12	6.6	mg/Kg	☼	03/27/13 10:09	03/29/13 12:32	10
Selenium	3.1	U	3.1	1.2	mg/Kg	☼	03/27/13 10:09	03/28/13 09:54	1
Silver	0.34	J	1.2	0.12	mg/Kg	☼	03/27/13 10:09	03/28/13 09:54	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	0.67		0.11	0.047	mg/Kg	☼	03/26/13 10:24	03/28/13 09:10	5

**Client Sample ID: CV0566A-CS-SP**

**Lab Sample ID: 680-88632-23**

Date Collected: 03/21/13 16:01

Matrix: Solid

Date Received: 03/23/13 09:39

Percent Solids: 74.1

**Method: 6010C - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	23		2.5	0.74	mg/Kg	☼	03/27/13 10:09	03/28/13 10:11	1
Barium	190		1.3	0.38	mg/Kg	☼	03/27/13 10:09	03/28/13 10:11	1
Cadmium	5.9		0.63	0.13	mg/Kg	☼	03/27/13 10:09	03/28/13 10:11	1
Chromium	39		1.3	0.63	mg/Kg	☼	03/27/13 10:09	03/28/13 10:11	1
Lead	660		1.3	0.67	mg/Kg	☼	03/27/13 10:09	03/28/13 10:11	1
Selenium	3.2	U	3.2	1.3	mg/Kg	☼	03/27/13 10:09	03/28/13 10:11	1
Silver	2.3		1.3	0.12	mg/Kg	☼	03/27/13 10:09	03/28/13 10:11	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	0.39		0.023	0.0095	mg/Kg	☼	03/26/13 10:24	03/27/13 14:57	1

**Client Sample ID: FM0017C-CS-SP**

**Lab Sample ID: 680-88632-29**

Date Collected: 03/21/13 14:00

Matrix: Solid

Date Received: 03/23/13 09:39

Percent Solids: 77.0

**Method: 6010C - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	28		2.3	0.69	mg/Kg	☼	03/27/13 10:09	03/28/13 10:16	1
Barium	170		1.2	0.35	mg/Kg	☼	03/27/13 10:09	03/28/13 10:16	1
Cadmium	0.61		0.59	0.12	mg/Kg	☼	03/27/13 10:09	03/28/13 10:16	1
Chromium	29		1.2	0.59	mg/Kg	☼	03/27/13 10:09	03/28/13 10:16	1
Lead	110		1.2	0.62	mg/Kg	☼	03/27/13 10:09	03/28/13 10:16	1
Selenium	2.9	U	2.9	1.2	mg/Kg	☼	03/27/13 10:09	03/28/13 10:16	1
Silver	1.2	U	1.2	0.11	mg/Kg	☼	03/27/13 10:09	03/28/13 10:16	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	0.30		0.022	0.0090	mg/Kg	☼	03/26/13 10:24	03/27/13 14:59	1

TestAmerica Savannah

# Client Sample Results

Client: Oneida Total Integrated Enterprises LLC  
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-88632-4  
 SDG: 68088632-4

## Client Sample ID: CV0197C-CS

## Lab Sample ID: 680-88632-34

Date Collected: 03/21/13 13:50

Matrix: Solid

Date Received: 03/23/13 09:39

Percent Solids: 69.4

### Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	370		2.6	0.78	mg/Kg	☼	03/27/13 10:09	03/28/13 10:22	1
Barium	250		1.3	0.40	mg/Kg	☼	03/27/13 10:09	03/28/13 10:22	1
Cadmium	14		0.66	0.13	mg/Kg	☼	03/27/13 10:09	03/28/13 10:22	1
Chromium	140		1.3	0.66	mg/Kg	☼	03/27/13 10:09	03/28/13 10:22	1
Lead	360		1.3	0.70	mg/Kg	☼	03/27/13 10:09	03/28/13 10:22	1
Selenium	3.2	J	3.3	1.3	mg/Kg	☼	03/27/13 10:09	03/28/13 10:22	1
Silver	1.1	J	1.3	0.13	mg/Kg	☼	03/27/13 10:09	03/28/13 10:22	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	0.27		0.025	0.010	mg/Kg	☼	03/26/13 10:24	03/27/13 15:02	1

## Client Sample ID: FM0017C-GS-SP-sieve

## Lab Sample ID: 680-88632-41

Date Collected: 03/21/13 14:00

Matrix: Solid

Date Received: 03/23/13 09:39

Percent Solids: 87.2

### Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	38		2.3	0.68	mg/Kg	☼	03/27/13 10:09	03/28/13 10:27	1
Barium	210		1.1	0.34	mg/Kg	☼	03/27/13 10:09	03/28/13 10:27	1
Cadmium	0.74		0.57	0.11	mg/Kg	☼	03/27/13 10:09	03/28/13 10:27	1
Chromium	34		1.1	0.57	mg/Kg	☼	03/27/13 10:09	03/28/13 10:27	1
Lead	150		1.1	0.61	mg/Kg	☼	03/27/13 10:09	03/28/13 10:27	1
Selenium	2.9	U	2.9	1.1	mg/Kg	☼	03/27/13 10:09	03/28/13 10:27	1
Silver	0.14	J	1.1	0.11	mg/Kg	☼	03/27/13 10:09	03/28/13 10:27	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	0.39		0.022	0.0092	mg/Kg	☼	03/26/13 10:24	03/27/13 15:09	1

## Client Sample ID: CV0197C-CS-sieve

## Lab Sample ID: 680-88632-42

Date Collected: 03/21/13 13:50

Matrix: Solid

Date Received: 03/23/13 09:39

Percent Solids: 66.3

### Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	340		3.0	0.88	mg/Kg	☼	03/27/13 10:09	03/28/13 10:33	1
Barium	300		1.5	0.45	mg/Kg	☼	03/27/13 10:09	03/28/13 10:33	1
Cadmium	14		0.75	0.15	mg/Kg	☼	03/27/13 10:09	03/28/13 10:33	1
Chromium	130		1.5	0.75	mg/Kg	☼	03/27/13 10:09	03/28/13 10:33	1
Lead	540		1.5	0.79	mg/Kg	☼	03/27/13 10:09	03/28/13 10:33	1
Selenium	1.5	J	3.7	1.5	mg/Kg	☼	03/27/13 10:09	03/28/13 10:33	1
Silver	0.54	J	1.5	0.14	mg/Kg	☼	03/27/13 10:09	03/28/13 10:33	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		0.028	0.011	mg/Kg	☼	03/26/13 10:24	03/27/13 15:12	1

TestAmerica Savannah

# Client Sample Results

Client: Oneida Total Integrated Enterprises LLC  
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-88632-4  
 SDG: 68088632-4

**Client Sample ID: CV0090B-CS-SP-sieve**

**Lab Sample ID: 680-88632-43**

Date Collected: 03/21/13 11:35

Matrix: Solid

Date Received: 03/23/13 09:39

Percent Solids: 75.7

**Method: 6010C - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	38		2.5	0.75	mg/Kg	☼	03/27/13 10:09	03/28/13 10:38	1
Barium	510		1.3	0.38	mg/Kg	☼	03/27/13 10:09	03/28/13 10:38	1
Cadmium	1.7		0.63	0.13	mg/Kg	☼	03/27/13 10:09	03/28/13 10:38	1
Chromium	50		1.3	0.63	mg/Kg	☼	03/27/13 10:09	03/28/13 10:38	1
Lead	420		1.3	0.67	mg/Kg	☼	03/27/13 10:09	03/28/13 10:38	1
Selenium	3.2	U	3.2	1.3	mg/Kg	☼	03/27/13 10:09	03/28/13 10:38	1
Silver	0.28	J	1.3	0.12	mg/Kg	☼	03/27/13 10:09	03/28/13 10:38	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	0.83		0.11	0.047	mg/Kg	☼	03/26/13 10:24	03/28/13 09:17	5

**Client Sample ID: CV0566A-CS-SP-sieve**

**Lab Sample ID: 680-88632-44**

Date Collected: 03/21/13 16:01

Matrix: Solid

Date Received: 03/23/13 09:39

Percent Solids: 71.6

**Method: 6010C - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	27		2.7	0.81	mg/Kg	☼	03/27/13 10:09	03/28/13 10:54	1
Barium	250		1.4	0.41	mg/Kg	☼	03/27/13 10:09	03/28/13 10:54	1
Cadmium	7.1		0.68	0.14	mg/Kg	☼	03/27/13 10:09	03/28/13 10:54	1
Chromium	54		1.4	0.68	mg/Kg	☼	03/27/13 10:09	03/28/13 10:54	1
Lead	790		1.4	0.73	mg/Kg	☼	03/27/13 10:09	03/28/13 10:54	1
Selenium	1.7	J	3.4	1.4	mg/Kg	☼	03/27/13 10:09	03/28/13 10:54	1
Silver	2.7		1.4	0.13	mg/Kg	☼	03/27/13 10:09	03/28/13 10:54	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	0.77		0.13	0.054	mg/Kg	☼	03/26/13 10:24	03/28/13 09:20	5

**Client Sample ID: HP0084B-CS-SP**

**Lab Sample ID: 680-88632-48**

Date Collected: 03/22/13 08:15

Matrix: Solid

Date Received: 03/23/13 09:39

Percent Solids: 74.4

**Method: 6010C - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	47		2.7	0.79	mg/Kg	☼	03/27/13 10:09	03/28/13 11:00	1
Barium	430		1.3	0.40	mg/Kg	☼	03/27/13 10:09	03/28/13 11:00	1
Cadmium	4.3		0.67	0.13	mg/Kg	☼	03/27/13 10:09	03/28/13 11:00	1
Chromium	57		1.3	0.67	mg/Kg	☼	03/27/13 10:09	03/28/13 11:00	1
Lead	460		1.3	0.71	mg/Kg	☼	03/27/13 10:09	03/28/13 11:00	1
Selenium	3.4	U	3.4	1.3	mg/Kg	☼	03/27/13 10:09	03/28/13 11:00	1
Silver	0.26	J	1.3	0.13	mg/Kg	☼	03/27/13 10:09	03/28/13 11:00	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	0.39		0.026	0.011	mg/Kg	☼	03/26/13 10:24	03/27/13 15:19	1

TestAmerica Savannah

# Client Sample Results

Client: Oneida Total Integrated Enterprises LLC  
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-88632-4  
 SDG: 68088632-4

**Client Sample ID: HP0084B-CS-SP-sieve**

**Lab Sample ID: 680-88632-50**

Date Collected: 03/22/13 08:15

Matrix: Solid

Date Received: 03/23/13 09:39

Percent Solids: 79.1

**Method: 6010C - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	28		2.5	0.72	mg/Kg	☼	03/27/13 10:09	03/28/13 11:05	1
Barium	480		1.2	0.37	mg/Kg	☼	03/27/13 10:09	03/28/13 11:05	1
Cadmium	5.5		0.61	0.12	mg/Kg	☼	03/27/13 10:09	03/28/13 11:05	1
Chromium	51		1.2	0.61	mg/Kg	☼	03/27/13 10:09	03/28/13 11:05	1
Lead	540		1.2	0.65	mg/Kg	☼	03/27/13 10:09	03/28/13 11:05	1
Selenium	2.0	J	3.1	1.2	mg/Kg	☼	03/27/13 10:09	03/28/13 11:05	1
Silver	0.20	J	1.2	0.12	mg/Kg	☼	03/27/13 10:09	03/28/13 11:05	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	0.33		0.023	0.0096	mg/Kg	☼	03/26/13 10:24	03/27/13 15:22	1

# QC Sample Results

Client: Oneida Total Integrated Enterprises LLC  
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-88632-4  
 SDG: 68088632-4

## Method: 6010C - Metals (ICP)

**Lab Sample ID: MB 680-270845/1-A**  
**Matrix: Solid**  
**Analysis Batch: 271075**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 270845**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.0	U	2.0	0.58	mg/Kg		03/27/13 10:09	03/28/13 07:59	1
Barium	0.98	U	0.98	0.29	mg/Kg		03/27/13 10:09	03/28/13 07:59	1
Cadmium	0.49	U	0.49	0.098	mg/Kg		03/27/13 10:09	03/28/13 07:59	1
Chromium	0.98	U	0.98	0.49	mg/Kg		03/27/13 10:09	03/28/13 07:59	1
Lead	0.98	U	0.98	0.52	mg/Kg		03/27/13 10:09	03/28/13 07:59	1
Selenium	2.5	U	2.5	0.98	mg/Kg		03/27/13 10:09	03/28/13 07:59	1
Silver	0.98	U	0.98	0.094	mg/Kg		03/27/13 10:09	03/28/13 07:59	1

**Lab Sample ID: LCS 680-270845/3-A**  
**Matrix: Solid**  
**Analysis Batch: 271075**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 270845**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	19.8	20.8		mg/Kg		105	75 - 125
Barium	19.8	19.8		mg/Kg		100	75 - 125
Cadmium	19.8	19.8		mg/Kg		100	75 - 125
Chromium	19.8	19.8		mg/Kg		100	75 - 125
Lead	19.8	19.6		mg/Kg		99	75 - 125
Selenium	19.8	19.9		mg/Kg		100	75 - 125
Silver	19.8	20.8		mg/Kg		105	75 - 125

**Lab Sample ID: 680-88632-10 MS**  
**Matrix: Solid**  
**Analysis Batch: 271075**

**Client Sample ID: CV0090B-CS-SP**  
**Prep Type: Total/NA**  
**Prep Batch: 270845**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	58		12.4	37.9	4	mg/Kg	☼	-164	75 - 125
Barium	450		12.4	355	4	mg/Kg	☼	-808	75 - 125
Cadmium	1.6		6.19	5.82	F	mg/Kg	☼	69	75 - 125
Chromium	40		12.4	42.5	F	mg/Kg	☼	21	75 - 125
Selenium	3.1	U	12.4	8.80	F	mg/Kg	☼	71	75 - 125
Silver	0.34	J	6.19	1.90	F	mg/Kg	☼	25	75 - 125

**Lab Sample ID: 680-88632-10 MS**  
**Matrix: Solid**  
**Analysis Batch: 271226**

**Client Sample ID: CV0090B-CS-SP**  
**Prep Type: Total/NA**  
**Prep Batch: 270845**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Lead	4300		6.19	367	4	mg/Kg	☼	-6353	75 - 125

3

**Lab Sample ID: 680-88632-10 MSD**  
**Matrix: Solid**  
**Analysis Batch: 271075**

**Client Sample ID: CV0090B-CS-SP**  
**Prep Type: Total/NA**  
**Prep Batch: 270845**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic	58		12.4	42.9	4	mg/Kg	☼	-123	75 - 125	12	20
Barium	450		12.4	364	4	mg/Kg	☼	-729	75 - 125	3	20
Cadmium	1.6		6.19	6.58		mg/Kg	☼	81	75 - 125	12	20

TestAmerica Savannah

# QC Sample Results

Client: Oneida Total Integrated Enterprises LLC  
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-88632-4  
 SDG: 68088632-4

## Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: 680-88632-10 MSD  
 Matrix: Solid  
 Analysis Batch: 271075

Client Sample ID: CV0090B-CS-SP  
 Prep Type: Total/NA  
 Prep Batch: 270845

Analyte	Sample	Sample	Spike	MSD		Unit	D	%Rec	%Rec.		RPD	
	Result	Qualifier		Result	Qualifier				Limits	RPD	Limit	
Chromium	40		12.4	57.0	F	mg/Kg	☼	138	75 - 125	29	20	
Selenium	3.1	U	12.4	10.5		mg/Kg	☼	85	75 - 125	18	20	
Silver	0.34	J	6.19	2.39	F	mg/Kg	☼	33	75 - 125	23	20	

Lab Sample ID: 680-88632-10 MSD  
 Matrix: Solid  
 Analysis Batch: 271226

Client Sample ID: CV0090B-CS-SP  
 Prep Type: Total/NA  
 Prep Batch: 270845

Analyte	Sample	Sample	Spike	MSD		Unit	D	%Rec	%Rec.		RPD	
	Result	Qualifier		Result	Qualifier				Limits	RPD	Limit	
Lead	4300		6.19	660	4 F	mg/Kg	☼	-5880	75 - 125	57	20	

## Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Lab Sample ID: MB 680-270670/1-A  
 Matrix: Solid  
 Analysis Batch: 271035

Client Sample ID: Method Blank  
 Prep Type: Total/NA  
 Prep Batch: 270670

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil
	Result	Qualifier							
Mercury	0.020	U	0.020	0.0082	mg/Kg		03/26/13 10:24	03/27/13 14:45	1

Lab Sample ID: LCS 680-270670/2-A  
 Matrix: Solid  
 Analysis Batch: 271035

Client Sample ID: Lab Control Sample  
 Prep Type: Total/NA  
 Prep Batch: 270670

Analyte	Spike	LCS		Unit	D	%Rec	%Rec.	
		Result	Qualifier				Limits	RPD
Mercury	0.245	0.277		mg/Kg		113	80 - 120	

Lab Sample ID: 680-88632-10 MS  
 Matrix: Solid  
 Analysis Batch: 271035

Client Sample ID: CV0090B-CS-SP  
 Prep Type: Total/NA  
 Prep Batch: 270670

Analyte	Sample	Sample	Spike	MS		Unit	D	%Rec	%Rec.	
	Result	Qualifier		Result	Qualifier				Limits	RPD
Mercury	0.67		0.108	0.765	4	mg/Kg	☼	90	80 - 120	

Lab Sample ID: 680-88632-10 MSD  
 Matrix: Solid  
 Analysis Batch: 271035

Client Sample ID: CV0090B-CS-SP  
 Prep Type: Total/NA  
 Prep Batch: 270670

Analyte	Sample	Sample	Spike	MSD		Unit	D	%Rec	%Rec.		RPD	
	Result	Qualifier		Result	Qualifier				Limits	RPD	Limit	
Mercury	0.67		0.118	0.642	4	mg/Kg	☼	-23	80 - 120	18	20	

TestAmerica Savannah

# QC Association Summary

Client: Oneida Total Integrated Enterprises LLC  
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-88632-4  
 SDG: 68088632-4

## Metals

### Prep Batch: 270670

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88632-10	CV0090B-CS-SP	Total/NA	Solid	7471B	
680-88632-10 MS	CV0090B-CS-SP	Total/NA	Solid	7471B	
680-88632-10 MSD	CV0090B-CS-SP	Total/NA	Solid	7471B	
680-88632-23	CV0566A-CS-SP	Total/NA	Solid	7471B	
680-88632-29	FM0017C-CS-SP	Total/NA	Solid	7471B	
680-88632-34	CV0197C-CS	Total/NA	Solid	7471B	
680-88632-41	FM0017C-GS-SP-sieve	Total/NA	Solid	7471B	
680-88632-42	CV0197C-CS-sieve	Total/NA	Solid	7471B	
680-88632-43	CV0090B-CS-SP-sieve	Total/NA	Solid	7471B	
680-88632-44	CV0566A-CS-SP-sieve	Total/NA	Solid	7471B	
680-88632-48	HP0084B-CS-SP	Total/NA	Solid	7471B	
680-88632-50	HP0084B-CS-SP-sieve	Total/NA	Solid	7471B	
LCS 680-270670/2-A	Lab Control Sample	Total/NA	Solid	7471B	
MB 680-270670/1-A	Method Blank	Total/NA	Solid	7471B	

### Prep Batch: 270845

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88632-10	CV0090B-CS-SP	Total/NA	Solid	3050B	
680-88632-10 MS	CV0090B-CS-SP	Total/NA	Solid	3050B	
680-88632-10 MSD	CV0090B-CS-SP	Total/NA	Solid	3050B	
680-88632-23	CV0566A-CS-SP	Total/NA	Solid	3050B	
680-88632-29	FM0017C-CS-SP	Total/NA	Solid	3050B	
680-88632-34	CV0197C-CS	Total/NA	Solid	3050B	
680-88632-41	FM0017C-GS-SP-sieve	Total/NA	Solid	3050B	
680-88632-42	CV0197C-CS-sieve	Total/NA	Solid	3050B	
680-88632-43	CV0090B-CS-SP-sieve	Total/NA	Solid	3050B	
680-88632-44	CV0566A-CS-SP-sieve	Total/NA	Solid	3050B	
680-88632-48	HP0084B-CS-SP	Total/NA	Solid	3050B	
680-88632-50	HP0084B-CS-SP-sieve	Total/NA	Solid	3050B	
LCS 680-270845/3-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 680-270845/1-A	Method Blank	Total/NA	Solid	3050B	

### Analysis Batch: 271035

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88632-10	CV0090B-CS-SP	Total/NA	Solid	7471B	270670
680-88632-10 MS	CV0090B-CS-SP	Total/NA	Solid	7471B	270670
680-88632-10 MSD	CV0090B-CS-SP	Total/NA	Solid	7471B	270670
680-88632-23	CV0566A-CS-SP	Total/NA	Solid	7471B	270670
680-88632-29	FM0017C-CS-SP	Total/NA	Solid	7471B	270670
680-88632-34	CV0197C-CS	Total/NA	Solid	7471B	270670
680-88632-41	FM0017C-GS-SP-sieve	Total/NA	Solid	7471B	270670
680-88632-42	CV0197C-CS-sieve	Total/NA	Solid	7471B	270670
680-88632-43	CV0090B-CS-SP-sieve	Total/NA	Solid	7471B	270670
680-88632-44	CV0566A-CS-SP-sieve	Total/NA	Solid	7471B	270670
680-88632-48	HP0084B-CS-SP	Total/NA	Solid	7471B	270670
680-88632-50	HP0084B-CS-SP-sieve	Total/NA	Solid	7471B	270670
LCS 680-270670/2-A	Lab Control Sample	Total/NA	Solid	7471B	270670
MB 680-270670/1-A	Method Blank	Total/NA	Solid	7471B	270670



# QC Association Summary

Client: Oneida Total Integrated Enterprises LLC  
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-88632-4  
 SDG: 68088632-4

## Metals (Continued)

### Analysis Batch: 271075

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88632-10	CV0090B-CS-SP	Total/NA	Solid	6010C	270845
680-88632-10 MS	CV0090B-CS-SP	Total/NA	Solid	6010C	270845
680-88632-10 MSD	CV0090B-CS-SP	Total/NA	Solid	6010C	270845
680-88632-23	CV0566A-CS-SP	Total/NA	Solid	6010C	270845
680-88632-29	FM0017C-CS-SP	Total/NA	Solid	6010C	270845
680-88632-34	CV0197C-CS	Total/NA	Solid	6010C	270845
680-88632-41	FM0017C-GS-SP-sieve	Total/NA	Solid	6010C	270845
680-88632-42	CV0197C-CS-sieve	Total/NA	Solid	6010C	270845
680-88632-43	CV0090B-CS-SP-sieve	Total/NA	Solid	6010C	270845
680-88632-44	CV0566A-CS-SP-sieve	Total/NA	Solid	6010C	270845
680-88632-48	HP0084B-CS-SP	Total/NA	Solid	6010C	270845
680-88632-50	HP0084B-CS-SP-sieve	Total/NA	Solid	6010C	270845
LCS 680-270845/3-A	Lab Control Sample	Total/NA	Solid	6010C	270845
MB 680-270845/1-A	Method Blank	Total/NA	Solid	6010C	270845

### Analysis Batch: 271226

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88632-10	CV0090B-CS-SP	Total/NA	Solid	6010C	270845
680-88632-10 MS	CV0090B-CS-SP	Total/NA	Solid	6010C	270845
680-88632-10 MSD	CV0090B-CS-SP	Total/NA	Solid	6010C	270845

## General Chemistry

### Analysis Batch: 135786

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88632-10	CV0090B-CS-SP	Total/NA	Solid	Moisture	
680-88632-10 MS	CV0090B-CS-SP	Total/NA	Solid	Moisture	
680-88632-10 MSD	CV0090B-CS-SP	Total/NA	Solid	Moisture	
680-88632-23	CV0566A-CS-SP	Total/NA	Solid	Moisture	
680-88632-29	FM0017C-CS-SP	Total/NA	Solid	Moisture	
680-88632-34	CV0197C-CS	Total/NA	Solid	Moisture	
680-88632-48	HP0084B-CS-SP	Total/NA	Solid	Moisture	

### Analysis Batch: 270486

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88632-41	FM0017C-GS-SP-sieve	Total/NA	Solid	Moisture	
680-88632-42	CV0197C-CS-sieve	Total/NA	Solid	Moisture	
680-88632-43	CV0090B-CS-SP-sieve	Total/NA	Solid	Moisture	
680-88632-44	CV0566A-CS-SP-sieve	Total/NA	Solid	Moisture	
680-88632-50	HP0084B-CS-SP-sieve	Total/NA	Solid	Moisture	

# Lab Chronicle

Client: Oneida Total Integrated Enterprises LLC  
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-88632-4  
 SDG: 68088632-4

## Client Sample ID: CV0090B-CS-SP

Lab Sample ID: 680-88632-10

Date Collected: 03/21/13 11:35

Matrix: Solid

Date Received: 03/23/13 09:39

Percent Solids: 78.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471B			270670	03/26/13 10:24	UU	TAL SAV
Total/NA	Analysis	7471B		5	271035	03/28/13 09:10	BCB	TAL SAV
Total/NA	Prep	3050B			270845	03/27/13 10:09	JKL	TAL SAV
Total/NA	Analysis	6010C		1	271075	03/28/13 09:54	BCB	TAL SAV
Total/NA	Analysis	6010C		10	271226	03/29/13 12:32	BCB	TAL SAV
Total/NA	Analysis	Moisture		1	135786	03/26/13 12:38	AG	TAL TAM

## Client Sample ID: CV0566A-CS-SP

Lab Sample ID: 680-88632-23

Date Collected: 03/21/13 16:01

Matrix: Solid

Date Received: 03/23/13 09:39

Percent Solids: 74.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471B			270670	03/26/13 10:24	UU	TAL SAV
Total/NA	Analysis	7471B		1	271035	03/27/13 14:57	BCB	TAL SAV
Total/NA	Prep	3050B			270845	03/27/13 10:09	JKL	TAL SAV
Total/NA	Analysis	6010C		1	271075	03/28/13 10:11	BCB	TAL SAV
Total/NA	Analysis	Moisture		1	135786	03/26/13 12:38	AG	TAL TAM

## Client Sample ID: FM0017C-CS-SP

Lab Sample ID: 680-88632-29

Date Collected: 03/21/13 14:00

Matrix: Solid

Date Received: 03/23/13 09:39

Percent Solids: 77.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471B			270670	03/26/13 10:24	UU	TAL SAV
Total/NA	Analysis	7471B		1	271035	03/27/13 14:59	BCB	TAL SAV
Total/NA	Prep	3050B			270845	03/27/13 10:09	JKL	TAL SAV
Total/NA	Analysis	6010C		1	271075	03/28/13 10:16	BCB	TAL SAV
Total/NA	Analysis	Moisture		1	135786	03/26/13 12:38	AG	TAL TAM

## Client Sample ID: CV0197C-CS

Lab Sample ID: 680-88632-34

Date Collected: 03/21/13 13:50

Matrix: Solid

Date Received: 03/23/13 09:39

Percent Solids: 69.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471B			270670	03/26/13 10:24	UU	TAL SAV
Total/NA	Analysis	7471B		1	271035	03/27/13 15:02	BCB	TAL SAV
Total/NA	Prep	3050B			270845	03/27/13 10:09	JKL	TAL SAV
Total/NA	Analysis	6010C		1	271075	03/28/13 10:22	BCB	TAL SAV
Total/NA	Analysis	Moisture		1	135786	03/26/13 12:38	AG	TAL TAM

# Lab Chronicle

Client: Oneida Total Integrated Enterprises LLC  
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-88632-4  
 SDG: 68088632-4

## Client Sample ID: FM0017C-GS-SP-sieve

Lab Sample ID: 680-88632-41

Date Collected: 03/21/13 14:00

Matrix: Solid

Date Received: 03/23/13 09:39

Percent Solids: 87.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471B			270670	03/26/13 10:24	UU	TAL SAV
Total/NA	Analysis	7471B		1	271035	03/27/13 15:09	BCB	TAL SAV
Total/NA	Prep	3050B			270845	03/27/13 10:09	JKL	TAL SAV
Total/NA	Analysis	6010C		1	271075	03/28/13 10:27	BCB	TAL SAV
Total/NA	Analysis	Moisture		1	270486	03/25/13 10:49	FS	TAL SAV

## Client Sample ID: CV0197C-CS-sieve

Lab Sample ID: 680-88632-42

Date Collected: 03/21/13 13:50

Matrix: Solid

Date Received: 03/23/13 09:39

Percent Solids: 66.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471B			270670	03/26/13 10:24	UU	TAL SAV
Total/NA	Analysis	7471B		1	271035	03/27/13 15:12	BCB	TAL SAV
Total/NA	Prep	3050B			270845	03/27/13 10:09	JKL	TAL SAV
Total/NA	Analysis	6010C		1	271075	03/28/13 10:33	BCB	TAL SAV
Total/NA	Analysis	Moisture		1	270486	03/25/13 10:49	FS	TAL SAV

## Client Sample ID: CV0090B-CS-SP-sieve

Lab Sample ID: 680-88632-43

Date Collected: 03/21/13 11:35

Matrix: Solid

Date Received: 03/23/13 09:39

Percent Solids: 75.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471B			270670	03/26/13 10:24	UU	TAL SAV
Total/NA	Analysis	7471B		5	271035	03/28/13 09:17	BCB	TAL SAV
Total/NA	Prep	3050B			270845	03/27/13 10:09	JKL	TAL SAV
Total/NA	Analysis	6010C		1	271075	03/28/13 10:38	BCB	TAL SAV
Total/NA	Analysis	Moisture		1	270486	03/25/13 10:49	FS	TAL SAV

## Client Sample ID: CV0566A-CS-SP-sieve

Lab Sample ID: 680-88632-44

Date Collected: 03/21/13 16:01

Matrix: Solid

Date Received: 03/23/13 09:39

Percent Solids: 71.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471B			270670	03/26/13 10:24	UU	TAL SAV
Total/NA	Analysis	7471B		5	271035	03/28/13 09:20	BCB	TAL SAV
Total/NA	Prep	3050B			270845	03/27/13 10:09	JKL	TAL SAV
Total/NA	Analysis	6010C		1	271075	03/28/13 10:54	BCB	TAL SAV
Total/NA	Analysis	Moisture		1	270486	03/25/13 10:49	FS	TAL SAV

# Lab Chronicle

Client: Oneida Total Integrated Enterprises LLC  
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-88632-4  
 SDG: 68088632-4

**Client Sample ID: HP0084B-CS-SP**

**Lab Sample ID: 680-88632-48**

Date Collected: 03/22/13 08:15

Matrix: Solid

Date Received: 03/23/13 09:39

Percent Solids: 74.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471B			270670	03/26/13 10:24	UU	TAL SAV
Total/NA	Analysis	7471B		1	271035	03/27/13 15:19	BCB	TAL SAV
Total/NA	Prep	3050B			270845	03/27/13 10:09	JKL	TAL SAV
Total/NA	Analysis	6010C		1	271075	03/28/13 11:00	BCB	TAL SAV
Total/NA	Analysis	Moisture		1	135786	03/26/13 12:38	AG	TAL TAM

**Client Sample ID: HP0084B-CS-SP-sieve**

**Lab Sample ID: 680-88632-50**

Date Collected: 03/22/13 08:15

Matrix: Solid

Date Received: 03/23/13 09:39

Percent Solids: 79.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471B			270670	03/26/13 10:24	UU	TAL SAV
Total/NA	Analysis	7471B		1	271035	03/27/13 15:22	BCB	TAL SAV
Total/NA	Prep	3050B			270845	03/27/13 10:09	JKL	TAL SAV
Total/NA	Analysis	6010C		1	271075	03/28/13 11:05	BCB	TAL SAV
Total/NA	Analysis	Moisture		1	270486	03/25/13 10:49	FS	TAL SAV

**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

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 <i>35<sup>th</sup> Ave Removal</i>	PROJECT NO. <i>2005148-1356</i>	PROJECT LOCATION (STATE)	MATRIX TYPE	REQUIRED ANALYSIS					PAGE <i>1</i> OF <i>4</i>
TAL (LAB) PROJECT MANAGER <i>Lisa Harven</i>	P.O. NUMBER	CONTRACT NO.	COMPOSITE (C) OR GRAB (G) INDICATE AQUEOUS (WATER) SOLID OR SEMISOLID AIR NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	LL PAH RCRA 8 Metals	PRESERVATIVE				STANDARD REPORT DELIVERY <input type="checkbox"/>
CLIENT PHONE	CLIENT FAX	DATE DUE _____							
CLIENT E-MAIL		EXPEDITED REPORT DELIVERY (SURCHARGE) <input type="checkbox"/>							
CLIENT ADDRESS <i>(b) (6)</i>	COMPANY CONTRACTING THIS WORK (if applicable)							DATE DUE _____	NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE		SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	NUMBER OF CONTAINERS SUBMITTED					REMARKS
DATE	TIME												
<i>3-21-13</i>	<i>0845</i>	<i>CVD697A-CS</i>	<i>C</i>	<i>X</i>			<i>X</i>						
	<i>0840</i>	<i>CV0697B-CS</i>	<i>C</i>	<i>X</i>									
	<i>1130</i>	<i>FM0341A-CS</i>	<i>C</i>	<i>X</i>									
	<i>1145</i>	<i>FM0341B-CS</i>	<i>C</i>	<i>X</i>									
	<i>1154</i>	<i>FM0341C-GS</i>	<i>G</i>	<i>X</i>									
	<i>1030</i>	<i>FM0343A-CS</i>	<i>C</i>	<i>X</i>									
	<i>1030</i>	<i>FM0343A-CSD</i>	<i>C</i>	<i>X</i>									
	<i>1050</i>	<i>FM0343B-CS</i>	<i>C</i>	<i>X</i>									
	<i>1123</i>	<i>CV0090A-CS-SP</i>	<i>C</i>	<i>X</i>									
	<i>1135</i>	<i>CV0090B-CS-SP</i>	<i>C</i>	<i>X</i>				<i>X</i>					
	<i>1046</i>	<i>CV0092A-CS-SP</i>	<i>C</i>	<i>X</i>									
	<i>1055</i>	<i>CV0092B-CS-SP</i>	<i>C</i>	<i>X</i>									

RELINQUISHED BY: (SIGNATURE) <i>[Signature]</i>	DATE <i>3-22-13</i>	TIME <i>1130</i>	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

RECEIVED FOR LABORATORY BY: (SIGNATURE) <i>[Signature]</i>	DATE <i>03/23/13</i>	TIME <i>0939</i>	CUSTODY INTACT YES <input type="checkbox"/> NO <input type="checkbox"/>	CUSTODY SEAL NO.	SAVANNAH LQG NO. <i>680</i> <i>08632</i>	LABORATORY REMARKS <i>1.2<sup>c</sup></i>
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(b) (6)  
(b) (6)

(b) (6)

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4/4/2013



ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah  
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Savannah, GA 31404

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Phone: (912) 354-7858  
Fax: (912) 352-0165

Alternate Laboratory Name/Location

Phone:  
Fax:

PROJECT REFERENCE <i>35th Ave Removal</i>	PROJECT NO. <i>2005148-1356</i>	PROJECT LOCATION (STATE) <i>AL</i>	MATRIX TYPE	REQUIRED ANALYSIS	PAGE <i>2</i> OF <i>4</i>
TAL (LAB) PROJECT MANAGER <i>Lisa Harven</i>	P.O. NUMBER	CONTRACT NO.			STANDARD REPORT DELIVERY <input type="radio"/>

(b) (6)

CLIENT FAX \_\_\_\_\_

DATE DUE \_\_\_\_\_

EXPEDITED REPORT DELIVERY (SURCHARGE)

DATE DUE \_\_\_\_\_

(b) (6)

COMPANY CONTRACTING THIS WORK (if applicable)

NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

PRESERVATIVE

SAMPLE		SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	NUMBER OF CONTAINERS SUBMITTED										REMARKS			
DATE	TIME							1	2	3	4	5	6	7	8	9	10		11	12	
<i>3-21-13</i>	<i>0929</i>	<i>FM0312A-CS-SP</i>	<i>C</i>	<i>X</i>			<i>X</i>														
	<i>0932</i>	<i>Fm0312B-CS-SP</i>	<i>C</i>	<i>X</i>			<i>X</i>														
	<i>0951</i>	<i>Fm0312C-CS-SP</i>	<i>C</i>	<i>X</i>			<i>X</i>														
	<i>0945</i>	<i>Fm0312D-CS-SP</i>	<i>C</i>	<i>X</i>			<i>X</i>														
	<i>0816</i>	<i>Fm0368A-CS-SP CV0368A-CS-SP</i>	<i>C</i>	<i>X</i>			<i>X</i>														
	<i>0832</i>	<i>Fm0368B-CS-SP CV0368B-CS-SP</i>	<i>C</i>	<i>X</i>			<i>X</i>														
	<i>1457</i>	<i>CV0443A-CS-SP</i>	<i>C</i>	<i>X</i>			<i>X</i>														
	<i>1459</i>	<i>CV0443B-CS-SP</i>	<i>C</i>	<i>X</i>			<i>X</i>														
	<i>1535</i>	<i>CV0476A-CS-SP</i>	<i>C</i>	<i>X</i>			<i>X</i>														
	<i>1544</i>	<i>CV0476B-CS-SP</i>	<i>C</i>	<i>X</i>			<i>X</i>														
	<i>1601</i>	<i>CV0566A-CS-SP</i>	<i>C</i>	<i>X</i>			<i>X</i>	<i>X</i>													
	<i>1610</i>	<i>CV0566B-CS-SP</i>	<i>C</i>	<i>X</i>			<i>X</i>														

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RELINQUISHED BY: (SIGNATURE) <i>[Signature]</i>	DATE <i>3-22-13</i>	TIME <i>1130</i>	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

4/4/2013

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE) <i>[Signature]</i>	DATE <i>03/23/13</i>	TIME <i>0939</i>	CUSTODY INTACT YES <input type="radio"/> NO <input type="radio"/>	CUSTODY SEAL NO.	SAVANNAH LOG NO. <i>690-58632</i>	LABORATORY REMARKS <i>1.2c</i>
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ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

# TestAmerica

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Savannah, GA 31404

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Alternate Laboratory Name/Location

Phone:  
Fax:

PROJECT REFERENCE <i>35th Ave Removal</i>	PROJECT NO. <i>2005148-1356</i>	PROJECT LOCATION (STATE) <i>AL</i>	MATRIX TYPE	REQUIRED ANALYSIS	PAGE <i>3</i> OF <i>4</i>
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TAL (LAB) PROJECT MANAGER <i>1:00 4/23/13</i>	P.O. NUMBER	CONTRACT NO.	CLIENT FAX	STANDARD REPORT DELIVERY <input type="radio"/>	DATE DUE _____
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(b) (6)  
(b) (6)

CLIENT ADDRESS	COMPANY CONTRACTING THIS WORK (if applicable)	COMPOSITE (C) OR GYRO (G) / INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	REMARKS
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PRESERVATIVE

SAMPLE		SAMPLE IDENTIFICATION	COMPOSITE (C) OR GYRO (G)	INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	NUMBER OF CONTAINERS SUBMITTED										REMARKS					
DATE	TIME								1	2	3	4	5	6	7	8	9	10		11	12			
<i>3-21-13</i>	<i>1315</i>	<i>CV0663A-CS-SP</i>	<i>C</i>	<i>X</i>				<i>X</i>																
	<i>1320</i>	<i>CV0663B-CS-SP</i>	<i>C</i>	<i>X</i>				<i>X</i>																
	<i>1355</i>	<i>Fm0017A-CS-SP</i>	<i>C</i>	<i>X</i>				<i>X</i>																
	<i>1405</i>	<i>Fm0017B-CS-SP</i>	<i>C</i>	<i>X</i>				<i>X</i>																
	<i>1400</i>	<i>Fm0017C-CS-SP</i>	<i>C</i>	<i>X</i>				<i>X</i>	<i>X</i>															
	<i>1410</i>	<i>Fm0017D-CS-SP</i>	<i>C</i>	<i>X</i>				<i>X</i>																
	<i>1330</i>	<i>CV0197A-CS</i>	<i>C</i>	<i>X</i>				<i>X</i>																
	<i>1345</i>	<i>CV0197B-CS</i>	<i>C</i>	<i>X</i>				<i>X</i>																
	<i>1345</i>	<i>CV0197B-CSD</i>	<i>C</i>	<i>X</i>				<i>X</i>																
	<i>1350</i>	<i>CV0197C-CS</i>	<i>C</i>	<i>X</i>				<i>X</i>	<i>X</i>															
	<i>1420</i>	<i>CV0813A-CS</i>	<i>C</i>	<i>X</i>				<i>X</i>																
	<i>1430</i>	<i>CV0813B-CS</i>	<i>C</i>	<i>X</i>				<i>X</i>																

RELINQUISHED BY: (SIGNATURE) <i>[Signature]</i>	DATE <i>3-21-13</i>	TIME <i>1130</i>	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

RECEIVED FOR LABORATORY BY: (SIGNATURE) <i>[Signature]</i>	DATE <i>03/23/13</i>	TIME <i>8939</i>	CUSTODY INTACT YES <input type="radio"/> NO <input type="radio"/>	CUSTODY SEAL NO.	SAVANNAH LOG NO. <i>88632</i>	LABORATORY REMARKS <i>1.2°</i>
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4/4/2013



ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

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Fax: (912) 352-0165

Alternate Laboratory Name/Location

Phone:  
Fax:

PROJECT REFERENCE <i>35th Ave Removal</i>	PROJECT NO. <i>200548-1356</i>	PROJECT LOCATION (STATE) <i>AL</i>	MATRIX TYPE	REQUIRED ANALYSIS	PAGE <i>4</i> OF <i>4</i>
TAL (LAB) PROJECT MANAGER <i>Lisa Harvey</i>	P.O. NUMBER	CONTRACT NO.	COMPOSITE (C) OR GRAB (G) / INDICATE AQUEOUS (WATER) SOLID OR SEMISOLID AIR NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	<i>LL PAH</i> <i>PCPAB Metals</i>	STANDARD REPORT DELIVERY <input type="radio"/>
CLIENT ADDRESS		CLIENT FAX			EXPEDITED REPORT DELIVERY (SURCHARGE) <input type="radio"/>

COMPANY CONTRACTING THIS WORK (if applicable)

NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE		SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) / INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	NUMBER OF CONTAINERS SUBMITTED										REMARKS			
DATE	TIME							1	2	3	4	5	6	7	8	9	10		11	12	
<i>3-21-13</i>	<i>1520</i>	<i>FM0346 A-CS</i>	<i>C</i>	<i>X</i>			<i>X</i>														
	<i>1540</i>	<i>Fm0346 B-CS</i>	<i>C</i>	<i>X</i>			<i>X</i>														
	<i>1600</i>	<i>HP0323A-CS</i>	<i>C</i>	<i>X</i>			<i>X</i>														
	<i>1610</i>	<i>HP0323B-CS</i>	<i>C</i>	<i>X</i>			<i>X</i>														
	<i>1400</i>	<i>FM007C-GS-SP-sieve</i>																			<i>X</i>
	<i>1350</i>	<i>CV0197C-CS-sieve</i>																			<i>X</i>
	<i>1135</i>	<i>CV0090B-CS-sp-sieve</i>																			<i>X</i>
	<i>1601</i>	<i>CV0566A-CS-sp-sieve</i>																			<i>X</i>

RELINQUISHED BY: (SIGNATURE) <i>[Signature]</i>	DATE <i>3-22-13</i>	TIME <i>1130</i>	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

RECEIVED FOR LABORATORY BY: (SIGNATURE) <i>[Signature]</i>	DATE <i>03/23/13</i>	TIME <i>0939</i>	CUSTODY INTACT YES <input type="radio"/> NO <input type="radio"/>	CUSTODY SEAL NO.	SAVANNAH LOG NO. <i>680-88632</i>	LABORATORY REMARKS <i>1-2c</i>
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(b) (6)  
(b) (6)

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4/4/2013





ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

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Fax: (912) 352-0165

Alternate Laboratory Name/Location

Phone:  
Fax:

PROJECT REFERENCE <b>35<sup>th</sup> Ave Removal</b>	PROJECT NO. <b>2005148</b>	PROJECT LOCATION (STATE) <b>AL</b>	MATRIX TYPE	REQUIRED ANALYSIS	PAGE <b>1</b>	OF <b>1</b>
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TAL (LAB) PROJECT MANAGER <b>Lisa Harison</b>	P.O. NUMBER	CONTRACT NO.	CLIENT FAX	STANDARD REPORT DELIVERY <input type="radio"/>	DATE DUE
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CLIENT ADDRESS	COMPANY CONTRACTING THIS WORK (if applicable)	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	LL PAH ROPA & Metals	EXPEDITED REPORT DELIVERY (SURCHARGE) <input type="radio"/>	DATE DUE
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PRESERVATIVE							NUMBER OF COOLERS SUBMITTED PER SHIPMENT:
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SAMPLE		SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	NUMBER OF CONTAINERS SUBMITTED										REMARKS
DATE	TIME							1	2	3	4	5	6	7	8	9	10	

3-22-13	0856	CV0664A-CS-SP	C	X			X													
	0905	CV0664B-CS-SP	C	X			X													
	0805	HP0084A-CS-SP	C	X			X													
	0815	HP0084B-CS-SP	C	X			X	X												
	0808	HP0084C-GS-SP	G	X			X													
	0815	HP0084B-CS-SP-sieve	C	X				X												

RELINQUISHED BY: (SIGNATURE) <i>[Signature]</i>	DATE 3-22-13	TIME 11:30	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

LABORATORY USE ONLY									
RECEIVED FOR LABORATORY BY: (SIGNATURE) <i>[Signature]</i>	DATE 03/23/13	TIME 0939	CUSTODY INTACT YES <input type="radio"/> NO <input type="radio"/>	CUSTODY SEAL NO.	SAVANNAH LOG NO. <b>880-88632</b>	LABORATORY REMARKS <b>1.2c</b>			

(b) (6)  
(b) (6)

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4/4/2013

## Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88632-4

SDG Number: 68088632-4

**Login Number: 88632**

**List Number: 1**

**Creator: Barnett, Eddie T**

**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 leg ble 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: 680-88632-4

SDG Number: 68088632-4

**Login Number: 88632**

**List Number: 1**

**Creator: McNulty, Carol**

**List Source: TestAmerica Tampa**

**List Creation: 03/26/13 12:20 PM**

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 leg ble 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: 680-88632-4  
 SDG: 68088632-4

## 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
Alabama	State Program	4	41450	06-30-13
Alaska (UST)	State Program	10	UST-104	06-19-13
California	NELAP	9	3217CA	07-31-13
Colorado	State Program	8	N/A	12-31-13
Florida	NELAP	4	E87052	06-30-13
GA Dept. of Agriculture	State Program	4	N/A	12-31-13
Georgia	State Program	4	N/A	06-30-13
Georgia	State Program	4	803	06-30-13
Guam	State Program	9	09-005r	04-17-13
Hawaii	State Program	9	N/A	06-30-13
Illinois	NELAP	5	200022	11-30-13
Indiana	State Program	5	N/A	06-30-13
Iowa	State Program	7	353	07-01-13
Kentucky	State Program	4	90084	12-31-12
Kentucky (UST)	State Program	4	18	03-31-13
Louisiana	NELAP	6	30690	06-30-13
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	06-30-13
Michigan	State Program	5	9925	06-30-13
Mississippi	State Program	4	N/A	06-30-13
Montana	State Program	8	CERT0081	01-01-14
Nebraska	State Program	7	TestAmerica-Savannah	06-30-13
New Jersey	NELAP	2	GA769	06-30-13
New Mexico	State Program	6	N/A	06-30-13
North Carolina DENR	State Program	4	269	12-31-13
North Carolina DHHS	State Program	4	13701	07-31-13
Oklahoma	State Program	6	9984	08-31-13
Pennsylvania	NELAP	3	68-00474	06-30-13
Puerto Rico	State Program	2	GA00006	01-01-14
South Carolina	State Program	4	98001	06-30-13
Tennessee	State Program	4	TN02961	06-30-13
Texas	NELAP	6	T104704185-08-TX	11-30-13
USDA	Federal		SAV 3-04	04-07-14
Virginia	NELAP	3	460161	06-14-13
Washington	State Program	10	C1794	06-10-13
West Virginia	State Program	3	9950C	12-31-13
West Virginia DEP	State Program	3	94	06-30-13
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	06-30-13
Florida	NELAP	4	E84282	06-30-13
Georgia	State Program	4	905	06-30-13
USDA	Federal		P330-11-00177	04-20-14