

**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: Karen Marie Trujillo  
 Concurrence<sup>1</sup>: Nicole Lancaster / Martha Meyers-Lee

Project No: 15268508.20000  
 Job ID.: 680-88980-3  
 Associated Samples: Refer to Attachment A (Sample Summary)  
 Date Collected: 04/02/13  
 Date: 04/24/13  
 Date: 05/02/13

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 040213-RB-sieve (680-88913-17) was collected during the week of 4/01/13. The rinsate blank was analyzed for metals by EPA Methods 200.7 and 245.1 under Test America Job ID 680-88913-2. The following analytes were detected during the analysis of the rinsate blank: Lead @ 15 µg/L (RL 10, MDL 4.0)	
12. Were contaminants detected in samples below the blank contamination action level? <ul style="list-style-type: none"> <li>○ If blank result &gt; RL, <ul style="list-style-type: none"> <li>• Flag sample results ≤ RL with a U</li> <li>• Flag positive sample results &gt; RL and ≤10x blank result , as J+ positive results</li> </ul> </li> <li>○ If blank result ≤RL, <ul style="list-style-type: none"> <li>• Flag sample results ≤ RL with a U</li> <li>• Flag positive sample results &gt; RL and &lt;10x blank result , as J+ positive results</li> </ul> </li> </ul>		✓		An evaluation of the effect of blank contamination on soil sample results was based on method and rinsate blank results, and not calibration blank results.  A blank contamination action level (BCAL) of 150 µg/L was developed for lead by multiplying the amount observed in the rinsate blank by a factor of 10. Sample-specific BCALs were developed by taking into account sample preparation factors, dilution factors, and percent solids (refer to <b>Attachment B</b> ). Qualification of data is not warranted, as all sample results were greater than sample-specific BCALs.	
13. Are there negative laboratory blank results with the absolute value ≤RL? If yes, then flag positive and non-detect sample results that are < 10x absolute blank value as J- and UJ, respectively.			✓		
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: <ul style="list-style-type: none"> <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</li> </ul> </li> </ul>	✓			<ul style="list-style-type: none"> <li>• 6010C: <ul style="list-style-type: none"> <li>○ 04/05/2013 and 04/06/2013, 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>○ 04/09/2013 through 4/11/2013, instrument</li> </ul> </li> </ul>	

**Data Validation Checklist (Continued)**

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
and as needed ○ 7471A: <ul style="list-style-type: none"> <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> ○ 7196A: <ul style="list-style-type: none"> <li>• ICAL: Blank and minimum of five standards</li> <li>• ICV initially, and CCV every 10<sup>th</sup> sample (15<sup>th</sup> per Method) and at the end of the analytical run</li> </ul>				ICPF. 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. • 7471B: 04/09/2013, instrument LEEMAN2. 6-Point ICAL per analytical batch. ICV initially, CCV every 10 samples and at end of run. CRI after initial calibration blank analysis.	
17. Were these results within lab/project specifications? ○ 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 ≤ 2x RL and J flag positive results &gt;2x RL</li> <li>▪ If CRI %R 50-69% (30-49% for Sb, Pb, TL), then J- and UJ flag positive results &lt;2x RL and ND, respectively</li> <li>▪ If CRI %R &gt;130% and ≤180% (&gt;150%, but ≤200% for Sb, Pb, TL), then J+ flag positive results &lt;2x RL</li> <li>▪ If CRI %R &gt;180% (&gt;200% for Sb, Pb, TL), then R flag positive results</li> </ul> </li> </ul> ○ 7471A <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> </ul>	✓			Mercury correlation coefficient for ICAL of 04/09/2013 is 0.9999524 (page 474).	

**Data Validation Checklist (Continued)**

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
<ul style="list-style-type: none"> <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 <math>&gt;130\%</math> and <math>\leq 180\%</math>, then J+ flag positive results <math>&lt;2x</math> RL</li> <li>▪ If CRI %R <math>&gt;180\%</math>, then R flag positive result</li> </ul> </li> <li>○ 7196A:                             <ul style="list-style-type: none"> <li>• ICV/CCV (Criteria: 90-110%R):                                     <ul style="list-style-type: none"> <li>▪ If correlation coefficients <math>&lt;0.995</math>, then J and UJ flag positive and non-detect results.</li> <li>▪ If %R <math>&lt;65</math>, then J- flag positive results and R-flag non-detects</li> <li>▪ If 65-90%R, then J- flag positive results and UJ flag non-detects</li> <li>▪ If 110-135%R, then J flag positive results</li> <li>▪ If <math>&gt;135\%</math>R, then J+ flag positive results</li> <li>▪ If <math>&gt;170\%</math>R, then R flag positive results</li> </ul> </li> </ul> </li> </ul>					
18. Was the interference check sample (ICS) analyzed at the beginning of each ICP analytical run?	✓				
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 <math>&gt;120\%</math>R (or <math>&gt;</math>true value plus <math>2x</math> CRQL), J+ flag positive results</li> <li>○ If 50-79%R (or less than true value – <math>2x</math> the CRQL), J- flag positive results and UJ flag non-detects</li> <li>○ If <math>&lt;50\%</math>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 <math>&gt;</math> Upper control limit (UCL): J+ flag positive results</li> <li>• LCS result <math>&lt;</math> 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 <math>&lt;50\%</math>R, then J- and R flag positive and ND results, respectively</li> </ul> </li> </ul>	✓				

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
<ul style="list-style-type: none"> <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>					
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>6010C:                             <ul style="list-style-type: none"> <li>Prep Batch 271923: 680-88980-8 (CV0666B-CS), MS/MSD</li> <li>Prep Batch 272030: 680-88980-25 (CV1236B-CS), MS/MSD</li> </ul> </li> <li>7471B: Prep Batch 272218: 680-88980-8 (CV0666B-CS), 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)?	✓			<ul style="list-style-type: none"> <li>6010C:                             <ul style="list-style-type: none"> <li>680-88980-8 (CV0666B-CS)</li> <li>680-88980-25 (CV1236B-CS)</li> </ul> </li> </ul>	
26. For all analytes with sample concentration < 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> If not, <ul style="list-style-type: none"> <li>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 <math>\geq 75</math>, then J flag positive and UJ flag non-detect results</li> </ul> </li> </ul>		✓		CV0666B-CS (680-88980-8) <ul style="list-style-type: none"> <li>Arsenic @ 91 and 53%R (75-125). Qualification of the data is not necessary<sup>2</sup>. PDS recovery (109%) fell within control limits (75-125).</li> <li>Barium @ -4414 and -4270 %R (75-125). Qualification of the data is not necessary<sup>3</sup>. PDS recovery (96%) fell within control limits (75-125).</li> <li>Lead @ 374 and 1029 %R (75-125). Qualification of the data is not necessary<sup>3</sup>.</li> <li>Silver @ 55 and 54 %R (75-125), J-flag sample result. PDS recovery (101%) fell within control limits (75-125).</li> </ul> CV1236B-CS (680-88980-25)	J

<sup>2</sup> The recovery of either the MS or MSD fell within control limits.

<sup>3</sup> The native sample concentration is greater than 4x the MS/MSD spiking level. In addition, native lead sample concentration is greater than 4x PDS spiking level.

## Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
<ul style="list-style-type: none"> <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> <li>○ 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>				<ul style="list-style-type: none"> <li>• Arsenic @ 85 and 62 %R (75-125). Qualification of the data is not necessary<sup>2</sup>. PDS recovery (105%) fell within control limits (75-125).</li> <li>• Barium @ 735 and 32 %R (75-125). Qualification of the data is not necessary<sup>3</sup>. PDS recovery (100%) fell within control limits (75-125).</li> <li>• Lead @ -1888 and -2665 %R (75-125). Qualification of the data is not necessary<sup>3</sup>.</li> <li>• Selenium @ 80 and 71 %R (75-125). Qualification of the data is not necessary<sup>2</sup>. PDS recovery (104%) fell within control limits (75-125).</li> <li>• Silver @ 19 and 41 %R (75-125), J-flag sample result. PDS recovery (102%) fell within control limits (75-125).</li> </ul>	
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> <ul style="list-style-type: none"> <li>○ If RPD &gt;20%, J and UJ flag positive and non-detect results.</li> </ul>		✓		CV1236B-CS (680-88980-25): <ul style="list-style-type: none"> <li>• Barium @ 21%RPD (≤20). Qualification of the data is not necessary<sup>3</sup>.</li> <li>• Silver @ 56%RPD (≤20). J-Flag sample result.</li> </ul>	J
28. Was a serial dilution conducted for 6010C?	✓			<ul style="list-style-type: none"> <li>• 6010C: <ul style="list-style-type: none"> <li>○ 680-88980-8 (CV0666B-CS)</li> <li>○ 680-88980-25 (CV1236B-CS)</li> </ul> </li> </ul>	
29. Is the serial dilution parent sample a project-specific sample?	✓				
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 that are reported under this Job ID are evaluated.</i> <ul style="list-style-type: none"> <li>○ If %D &gt;10, J and UJ flag positive and non-detect results, respectively.</li> </ul>		✓		CV0666B-CS (680-88980-8): <ul style="list-style-type: none"> <li>• Barium @ 13 %D (≤10), J-Flag.</li> <li>• Chromium @ 13 %D (≤10), J-Flag.</li> <li>• Lead @ 13 %D (≤10), J-Flag.</li> </ul>	J
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 that are reported under this Job ID</i>			✓		

**Data Validation Checklist (Continued)**

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
<i>are evaluated.</i> ○ If RPD values >20% (35% for soil/sediment) or absolute difference > RL (2x RL for soil/sediment), then J and UJ flag positive and non-detect results, respectively					
34. Were lab comments included in report? If yes, summarize contents or attach a copy of the narrative.	✓			Refer to <b>Attachment C</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 D</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: 680-88980-3  
SDG: 68088980-3

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-88980-8	CV0666B-CS	Solid	04/02/13 09:17	04/04/13 09:52
680-88980-25	CV1236B-CS	Solid	04/02/13 15:05	04/04/13 09:52
680-88980-26	CV0666B-CS (sieve)	Solid	04/02/13 09:17	04/04/13 09:52
680-88980-27	CV1236B-CS (sieve)	Solid	04/02/13 15:05	04/04/13 09:52

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**ATTACHMENT B**

**BLANK CONTAMINATION EVALUATION**

**Sample-Specific Blank Contamination Action Levels**

6010C:		Sample ID:		CV0666B-CS	CV1236B-CS	CV0666B-CS (sieve)	CV1236B-CS (sieve)	
		Lab Sample ID:		680-88980-8	680-88980-25	680-88980-26	680-88980-27	
		%S:		53.5	55.7	76.9	76.8	
		DF:		1	1	1	1	
		Wt, g:		1.08	1	1.06	1.01	
Analyte	RL, µg/L	Blank Results, µg/L	Maximum Amount Detected <sup>1</sup> , µg/L	Vol, ml:	100	100	100	100
		112712-RB-Sieves		Action Level <sup>2</sup> , µg/L	Sample-Specific Blank Contamination Action Levels, mg/Kg			
Lead (Pb)	10	15	15	150	26	27	18	19
<b>Reported Sample Result, mg/Kg:</b>					450	650	390	380
<b>Reporting Limit, mg/Kg:</b>					1.7	1.8	1.2	1.3
<b>Blank Contamination Action:</b>					None <sup>3</sup>	None <sup>3</sup>	None <sup>3</sup>	None <sup>3</sup>

Rinsate blank results reported in micrograms per liter (µg/L). Laboratory blank results and sample-specific blank contamination action levels reported in milligrams per kilogram (mg/Kg).

<sup>1</sup> Maximum amount detected in among all blanks

<sup>2</sup> Maximum amount detected in blanks multiplied by a factor of 10

<sup>3</sup> Qualification of data is not warranted, because the sample concentration is greater than the sample-spec

**Blank Contamination Actions:**

- o If blank result > RL,
  - Flag sample results ≤ RL with a U
  - Flag positive sample results > RL and ≤10x blank result, as J+ positive results
- o If blank result ≤RL,
  - Flag sample results ≤ RL with a U
  - Flag positive sample results > RL and ≤10x blank result, as J+ positive results

**ATTACHMENT C**  
**CASE NARRATIVE**

# Case Narrative

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

TestAmerica Job ID: 680-88980-3  
SDG: 68088980-3

**Job ID: 680-88980-3**

**Laboratory: TestAmerica Savannah**

**Narrative**

## CASE NARRATIVE

**Client: Oneida Total Integrated Enterprises LLC**

**Project: 35th Avenue Superfund Site**

**Report Number: 680-88980-3**

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 04/04/2013 in Savannah; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 2.8 C. However, in shipping to Tampa the coolers were not delivered due to FEDEX error. The following samples were received at the laboratory outside the required temperature criteria in Tampa on 4/8/2013 at 11.5 degrees C: CV0098A-CS (680-88980-18), CV0135A-CS (680-88980-19), CV0135B-CS (680-88980-20), CV0151A-CS (680-88980-21), CV0151A-CS (680-88980-21 MS), CV0151A-CS (680-88980-21 MSD), CV0151A-CSD (680-88980-22), CV0151B-CS (680-88980-23), CV0380A-CS (680-88980-5), CV0380B-CS (680-88980-6), CV0666A-CS (680-88980-7), CV0666B-CS (680-88980-8), CV0666B-CS (680-88980-8 MS), CV0666B-CS (680-88980-8 MSD), CV0668A-CS (680-88980-9), CV0668A-CSD (680-88980-10), CV0668B-CS (680-88980-11), CV0717A-CS (680-88980-12), CV0717B-CS (680-88980-13), CV0954A-CS-SP (680-88980-16), CV0954B-CS-SP (680-88980-17), CV1236A-CS (680-88980-24), CV1236B-CS (680-88980-25), HP0167A-CS-SP (680-88980-14), HP0167B-CS-SP (680-88980-15), HP0176A-CS-SP (680-88980-1), HP0176B-CS-SP (680-88980-2), HP0257A-CS-SP (680-88980-3), HP0257B-CS-SP (680-88980-4).

### METALS (ICP)

Samples CV0666B-CS (680-88980-8), CV1236B-CS (680-88980-25), CV0666B-CS (sieve) (680-88980-26) and CV1236B-CS (sieve) (680-88980-27) were analyzed for Metals (ICP) in accordance with EPA SW-846 Method 6010C. The samples were prepared on 04/04/2013 and 04/05/2013 and analyzed on 04/06/2013, 04/09/2013 and 04/10/2013.

Sample CV1236B-CS (sieve) (680-88980-27)[5X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

Several analytes recovered outside of the recovery criteria for the MS/MSD of sample CV1236B-CS (680-88980-25) in batch 680-272554. Barium and Silver exceeded the rpd limit.

Several analytes recovered outside of the recovery criteria low for the MS/MSD of sample CV0666B-CS (680-88980-8) in batch 680-272160.

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 metals analyses.

All other quality control parameters were within the acceptance limits.

### TOTAL MERCURY

Samples CV0666B-CS (680-88980-8), CV1236B-CS (680-88980-25), CV0666B-CS (sieve) (680-88980-26) and CV1236B-CS (sieve)

## Case Narrative

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

TestAmerica Job ID: 680-88980-3  
SDG: 68088980-3

---

### Job ID: 680-88980-3 (Continued)

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#### Laboratory: TestAmerica Savannah (Continued)

(680-88980-27) were analyzed for total mercury in accordance with EPA SW-846 Method 7471B. The samples were prepared on 04/08/2013 and analyzed on 04/09/2013.

No difficulties were encountered during the mercury analyses.

All quality control parameters were within the acceptance limits.

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**ATTACHMENT D**  
**QUALIFIED SAMPLE RESULTS**

# Client Sample Results

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

TestAmerica Job ID: 680-88980-3  
 SDG: 68088980-3

**Client Sample ID: CV0666B-CS**

**Lab Sample ID: 680-88980-8**

Date Collected: 04/02/13 09:17

Matrix: Solid

Date Received: 04/04/13 09:52

Percent Solids: 53.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	45		3.5	1.0	mg/Kg	☼	04/04/13 13:27	04/06/13 05:51	1
Barium	1100	J	1.7	0.52	mg/Kg	☼	04/04/13 13:27	04/06/13 05:51	1
Cadmium	2.9		0.86	0.17	mg/Kg	☼	04/04/13 13:27	04/06/13 05:51	1
Chromium	61	J	1.7	0.86	mg/Kg	☼	04/04/13 13:27	04/06/13 05:51	1
Lead	450	J	1.7	0.92	mg/Kg	☼	04/04/13 13:27	04/06/13 05:51	1
Selenium	4.3	U	4.3	1.7	mg/Kg	☼	04/04/13 13:27	04/06/13 05:51	1
Silver	1.7	✓ UJ	1.7	0.17	mg/Kg	☼	04/04/13 13:27	04/06/13 05:51	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	0.44		0.036	0.015	mg/Kg	☼	04/08/13 10:02	04/09/13 16:10	1

**Client Sample ID: CV1236B-CS**

**Lab Sample ID: 680-88980-25**

Date Collected: 04/02/13 15:05

Matrix: Solid

Date Received: 04/04/13 09:52

Percent Solids: 55.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	29		3.6	1.1	mg/Kg	☼	04/05/13 09:31	04/09/13 21:05	1
Barium	540		1.8	0.54	mg/Kg	☼	04/05/13 09:31	04/09/13 21:05	1
Cadmium	5.0		0.90	0.18	mg/Kg	☼	04/05/13 09:31	04/09/13 21:05	1
Chromium	47		1.8	0.90	mg/Kg	☼	04/05/13 09:31	04/09/13 21:05	1
Lead	650		1.8	0.95	mg/Kg	☼	04/05/13 09:31	04/09/13 21:05	1
Selenium	3.8	J	4.5	1.8	mg/Kg	☼	04/05/13 09:31	04/09/13 21:05	1
Silver	0.85	J	1.8	0.17	mg/Kg	☼	04/05/13 09:31	04/09/13 21:05	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	0.23		0.033	0.013	mg/Kg	☼	04/08/13 10:02	04/09/13 16:18	1

**Client Sample ID: CV0666B-CS (sieve)**

**Lab Sample ID: 680-88980-26**

Date Collected: 04/02/13 09:17

Matrix: Solid

Date Received: 04/04/13 09:52

Percent Solids: 76.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	20		2.5	0.72	mg/Kg	☼	04/05/13 09:31	04/09/13 21:32	1
Barium	310		1.2	0.37	mg/Kg	☼	04/05/13 09:31	04/09/13 21:32	1
Cadmium	2.1		0.61	0.12	mg/Kg	☼	04/05/13 09:31	04/09/13 21:32	1
Chromium	49		1.2	0.61	mg/Kg	☼	04/05/13 09:31	04/09/13 21:32	1
Lead	390		1.2	0.65	mg/Kg	☼	04/05/13 09:31	04/09/13 21:32	1
Selenium	2.8	J	3.1	1.2	mg/Kg	☼	04/05/13 09:31	04/09/13 21:32	1
Silver	0.22	J	1.2	0.12	mg/Kg	☼	04/05/13 09:31	04/09/13 21:32	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	0.36		0.024	0.0099	mg/Kg	☼	04/08/13 10:02	04/09/13 16:20	1

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 (OTTE, October 2012)



# Client Sample Results

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

TestAmerica Job ID: 680-88980-3  
 SDG: 68088980-3

**Client Sample ID: CV1236B-CS (sieve)**

**Lab Sample ID: 680-88980-27**

Date Collected: 04/02/13 15:05

Matrix: Solid

Date Received: 04/04/13 09:52

Percent Solids: 76.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	20		2.6	0.76	mg/Kg	☼	04/05/13 09:31	04/09/13 21:37	1
Barium	500		1.3	0.39	mg/Kg	☼	04/05/13 09:31	04/09/13 21:37	1
Cadmium	4.1		0.64	0.13	mg/Kg	☼	04/05/13 09:31	04/09/13 21:37	1
Chromium	34		6.4	3.2	mg/Kg	☼	04/05/13 09:31	04/10/13 18:54	5
Lead	380		1.3	0.68	mg/Kg	☼	04/05/13 09:31	04/09/13 21:37	1
Selenium	16	U	16	6.4	mg/Kg	☼	04/05/13 09:31	04/10/13 18:54	5
Silver	6.4	U	6.4	0.62	mg/Kg	☼	04/05/13 09:31	04/10/13 18:54	5

**Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20		0.023	0.0095	mg/Kg	☼	04/08/13 10:02	04/09/13 16:28	1

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 (OTTE, October 2012)

## ANALYTICAL REPORT

Job Number: 680-88980-3

SDG Number: 68088980-3

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  
4/17/2013 12:15 PM

---

Designee for

Lisa Harvey

Project Manager II

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

04/17/2013

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

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

**TestAmerica Laboratories, Inc.**

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## CASE NARRATIVE

**Client: Oneida Total Integrated Enterprises LLC**

**Project: 35th Avenue Superfund Site**

**Report Number: 680-88980-3**

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 04/04/2013 in Savannah; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 2.8 C. However, in shipping to Tampa the coolers were not delivered due to FEDEX error. The following samples were received at the laboratory outside the required temperature criteria in Tampa on 4/8/2013 at 11.5 degrees C: CV0098A-CS (680-88980-18), CV0135A-CS (680-88980-19), CV0135B-CS (680-88980-20), CV0151A-CS (680-88980-21), CV0151A-CS (680-88980-21 MS), CV0151A-CS (680-88980-21 MSD), CV0151A-CSD (680-88980-22), CV0151B-CS (680-88980-23), CV0380A-CS (680-88980-5), CV0380B-CS (680-88980-6), CV0666A-CS (680-88980-7), CV0666B-CS (680-88980-8), CV0666B-CS (680-88980-8 MS), CV0666B-CS (680-88980-8 MSD), CV0668A-CS (680-88980-9), CV0668A-CSD (680-88980-10), CV0668B-CS (680-88980-11), CV0717A-CS (680-88980-12), CV0717B-CS (680-88980-13), CV0954A-CS-SP (680-88980-16), CV0954B-CS-SP (680-88980-17), CV1236A-CS (680-88980-24), CV1236B-CS (680-88980-25), HP0167A-CS-SP (680-88980-14), HP0167B-CS-SP (680-88980-15), HP0176A-CS-SP (680-88980-1), HP0176B-CS-SP (680-88980-2), HP0257A-CS-SP (680-88980-3), HP0257B-CS-SP (680-88980-4).

### METALS (ICP)

Samples CV0666B-CS (680-88980-8), CV1236B-CS (680-88980-25), CV0666B-CS (sieve) (680-88980-26) and CV1236B-CS (sieve) (680-88980-27) were analyzed for Metals (ICP) in accordance with EPA SW-846 Method 6010C. The samples were prepared on 04/04/2013 and 04/05/2013 and analyzed on 04/06/2013, 04/09/2013 and 04/10/2013.

Sample CV1236B-CS (sieve) (680-88980-27)[5X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

Several analytes recovered outside of the recovery criteria for the MS/MSD of sample CV1236B-CS (680-88980-25) in batch 680-272554. Barium and Silver exceeded the rpd limit.

Several analytes recovered outside of the recovery criteria low for the MS/MSD of sample CV0666B-CS (680-88980-8) in batch 680-272160.

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 metals analyses.

All other quality control parameters were within the acceptance limits.

### TOTAL MERCURY

Samples CV0666B-CS (680-88980-8), CV1236B-CS (680-88980-25), CV0666B-CS (sieve) (680-88980-26) and CV1236B-CS (sieve) (680-88980-27) were analyzed for total mercury in accordance with EPA SW-846 Method 7471B. The samples were prepared on 04/08/2013 and analyzed on 04/09/2013.

No difficulties were encountered during the mercury analyses.

All quality control parameters were within the acceptance limits.

## SAMPLE SUMMARY

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88980-3  
Sdg Number: 68088980-3

<b>Lab Sample ID</b>	<b>Client Sample ID</b>	<b>Client Matrix</b>	<b>Date/Time Sampled</b>	<b>Date/Time Received</b>
680-88980-8	CV0666B-CS	Solid	04/02/2013 0917	04/04/2013 0952
680-88980-8MS	CV0666B-CS	Solid	04/02/2013 0917	04/04/2013 0952
680-88980-8MSD	CV0666B-CS	Solid	04/02/2013 0917	04/04/2013 0952
680-88980-25	CV1236B-CS	Solid	04/02/2013 1505	04/04/2013 0952
680-88980-26	CV0666B-CS (sieve)	Solid	04/02/2013 0917	04/04/2013 0952
680-88980-27	CV1236B-CS (sieve)	Solid	04/02/2013 1505	04/04/2013 0952

## METHOD SUMMARY

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88980-3

Sdg Number: 68088980-3

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: 680-88980-3

Sdg Number: 68088980-3

<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: 680-88980-3

Sdg Number: 68088980-3

<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
	V	Serial Dilution exceeds the control limits

## Quality Control Results

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88980-3

Sdg Number: 68088980-3

### QC Association Summary

Lab Sample ID	Client Sample ID	Report		Method	Prep Batch
		Basis	Client Matrix		
<b>Metals</b>					
<b>Prep Batch: 680-271923</b>					
LCS 680-271923/3-A	Lab Control Sample	T	Solid	3050B	
MB 680-271923/1-A	Method Blank	T	Solid	3050B	
680-88980-8	CV0666B-CS	T	Solid	3050B	
680-88980-8MS	Matrix Spike	T	Solid	3050B	
680-88980-8MSD	Matrix Spike Duplicate	T	Solid	3050B	
<b>Prep Batch: 680-272030</b>					
LCS 680-272030/3-A	Lab Control Sample	T	Solid	3050B	
MB 680-272030/1-A	Method Blank	T	Solid	3050B	
680-88980-25	CV1236B-CS	T	Solid	3050B	
680-88980-25MS	Matrix Spike	T	Solid	3050B	
680-88980-25MSD	Matrix Spike Duplicate	T	Solid	3050B	
680-88980-26	CV0666B-CS (sieve)	T	Solid	3050B	
680-88980-27	CV1236B-CS (sieve)	T	Solid	3050B	
<b>Analysis Batch:680-272160</b>					
LCS 680-271923/3-A	Lab Control Sample	T	Solid	6010C	680-271923
MB 680-271923/1-A	Method Blank	T	Solid	6010C	680-271923
680-88980-8	CV0666B-CS	T	Solid	6010C	680-271923
680-88980-8MS	Matrix Spike	T	Solid	6010C	680-271923
680-88980-8MSD	Matrix Spike Duplicate	T	Solid	6010C	680-271923
<b>Prep Batch: 680-272218</b>					
LCS 680-272218/2-A	Lab Control Sample	T	Solid	7471B	
MB 680-272218/1-A	Method Blank	T	Solid	7471B	
680-88980-8	CV0666B-CS	T	Solid	7471B	
680-88980-8MS	Matrix Spike	T	Solid	7471B	
680-88980-8MSD	Matrix Spike Duplicate	T	Solid	7471B	
680-88980-25	CV1236B-CS	T	Solid	7471B	
680-88980-26	CV0666B-CS (sieve)	T	Solid	7471B	
680-88980-27	CV1236B-CS (sieve)	T	Solid	7471B	
<b>Analysis Batch:680-272484</b>					
LCS 680-272218/2-A	Lab Control Sample	T	Solid	7471B	680-272218
MB 680-272218/1-A	Method Blank	T	Solid	7471B	680-272218
680-88980-8	CV0666B-CS	T	Solid	7471B	680-272218
680-88980-8MS	Matrix Spike	T	Solid	7471B	680-272218
680-88980-8MSD	Matrix Spike Duplicate	T	Solid	7471B	680-272218
680-88980-25	CV1236B-CS	T	Solid	7471B	680-272218
680-88980-26	CV0666B-CS (sieve)	T	Solid	7471B	680-272218
680-88980-27	CV1236B-CS (sieve)	T	Solid	7471B	680-272218

## Quality Control Results

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88980-3

Sdg Number: 68088980-3

### QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
<b>Metals</b>					
<b>Analysis Batch:680-272554</b>					
LCS 680-272030/3-A	Lab Control Sample	T	Solid	6010C	680-272030
MB 680-272030/1-A	Method Blank	T	Solid	6010C	680-272030
680-88980-25	CV1236B-CS	T	Solid	6010C	680-272030
680-88980-25MS	Matrix Spike	T	Solid	6010C	680-272030
680-88980-25MSD	Matrix Spike Duplicate	T	Solid	6010C	680-272030
680-88980-26	CV0666B-CS (sieve)	T	Solid	6010C	680-272030
680-88980-27	CV1236B-CS (sieve)	T	Solid	6010C	680-272030
<b>Analysis Batch:680-272682</b>					
680-88980-27	CV1236B-CS (sieve)	T	Solid	6010C	680-272030

**Report Basis**

T = Total

### General Chemistry

<b>Analysis Batch:660-136226</b>					
680-88980-8	CV0666B-CS	T	Solid	Moisture	
680-88980-8MS	Matrix Spike	T	Solid	Moisture	
680-88980-8MSD	Matrix Spike Duplicate	T	Solid	Moisture	
680-88980-A-21 MS	Matrix Spike	T	Solid	Moisture	
680-88980-A-21 MSD	Matrix Spike Duplicate	T	Solid	Moisture	
680-88980-25	CV1236B-CS	T	Solid	Moisture	
<b>Analysis Batch:680-272365</b>					
680-88980-26	CV0666B-CS (sieve)	T	Solid	Moisture	
<b>Analysis Batch:680-272453</b>					
680-88980-27	CV1236B-CS (sieve)	T	Solid	Moisture	

**Report Basis**

T = Total

# **METALS**

COVER PAGE  
METALS

Lab Name: TestAmerica Savannah Job Number: 680-88980-3

SDG No.: 68088980-3

Project: 35th Avenue Superfund Site

Client Sample ID	Lab Sample ID
<u>CV0666B-CS</u>	<u>680-88980-8</u>
<u>CV1236B-CS</u>	<u>680-88980-25</u>
<u>CV0666B-CS (sieve)</u>	<u>680-88980-26</u>
<u>CV1236B-CS (sieve)</u>	<u>680-88980-27</u>

Comments:

1A-IN  
 INORGANIC ANALYSIS DATA SHEET  
 METALS

Client Sample ID: CV0666B-CS

Lab Sample ID: 680-88980-8

Lab Name: TestAmerica Savannah

Job No.: 680-88980-3

SDG ID.: 68088980-3

Matrix: Solid

Date Sampled: 04/02/2013 09:17

Reporting Basis: DRY

Date Received: 04/04/2013 09:52

% Solids: 53.5

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	45	3.5	1.0	mg/Kg			1	6010C
7440-39-3	Barium	1100	1.7	0.52	mg/Kg			1	6010C
7440-43-9	Cadmium	2.9	0.86	0.17	mg/Kg			1	6010C
7440-47-3	Chromium	61	1.7	0.86	mg/Kg			1	6010C
7439-92-1	Lead	450	1.7	0.92	mg/Kg			1	6010C
7782-49-2	Selenium	4.3	4.3	1.7	mg/Kg	U		1	6010C
7440-22-4	Silver	1.7	1.7	0.17	mg/Kg	U		1	6010C
7439-97-6	Mercury	0.44	0.036	0.015	mg/Kg			1	7471B

1A-IN  
INORGANIC ANALYSIS DATA SHEET  
METALS

Client Sample ID: CV1236B-CS Lab Sample ID: 680-88980-25  
 Lab Name: TestAmerica Savannah Job No.: 680-88980-3  
 SDG ID.: 68088980-3  
 Matrix: Solid Date Sampled: 04/02/2013 15:05  
 Reporting Basis: DRY Date Received: 04/04/2013 09:52  
 % Solids: 55.7

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	29	3.6	1.1	mg/Kg			1	6010C
7440-39-3	Barium	540	1.8	0.54	mg/Kg			1	6010C
7440-43-9	Cadmium	5.0	0.90	0.18	mg/Kg			1	6010C
7440-47-3	Chromium	47	1.8	0.90	mg/Kg			1	6010C
7439-92-1	Lead	650	1.8	0.95	mg/Kg			1	6010C
7782-49-2	Selenium	3.8	4.5	1.8	mg/Kg	J		1	6010C
7440-22-4	Silver	0.85	1.8	0.17	mg/Kg	J		1	6010C
7439-97-6	Mercury	0.23	0.033	0.013	mg/Kg			1	7471B

1A-IN  
INORGANIC ANALYSIS DATA SHEET  
METALS

Client Sample ID: CV0666B-CS (sieve)

Lab Sample ID: 680-88980-26

Lab Name: TestAmerica Savannah

Job No.: 680-88980-3

SDG ID.: 68088980-3

Matrix: Solid

Date Sampled: 04/02/2013 09:17

Reporting Basis: DRY

Date Received: 04/04/2013 09:52

% Solids: 76.9

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	20	2.5	0.72	mg/Kg			1	6010C
7440-39-3	Barium	310	1.2	0.37	mg/Kg			1	6010C
7440-43-9	Cadmium	2.1	0.61	0.12	mg/Kg			1	6010C
7440-47-3	Chromium	49	1.2	0.61	mg/Kg			1	6010C
7439-92-1	Lead	390	1.2	0.65	mg/Kg			1	6010C
7782-49-2	Selenium	2.8	3.1	1.2	mg/Kg	J		1	6010C
7440-22-4	Silver	0.22	1.2	0.12	mg/Kg	J		1	6010C
7439-97-6	Mercury	0.36	0.024	0.0099	mg/Kg			1	7471B



1A-IN  
INORGANIC ANALYSIS DATA SHEET  
METALS

Client Sample ID: CV1236B-CS (sieve)

Lab Sample ID: 680-88980-27

Lab Name: TestAmerica Savannah

Job No.: 680-88980-3

SDG ID.: 68088980-3

Matrix: Solid

Date Sampled: 04/02/2013 15:05

Reporting Basis: DRY

Date Received: 04/04/2013 09:52

% Solids: 76.8

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	20	2.6	0.76	mg/Kg			1	6010C
7440-39-3	Barium	500	1.3	0.39	mg/Kg			1	6010C
7440-43-9	Cadmium	4.1	0.64	0.13	mg/Kg			1	6010C
7440-47-3	Chromium	34	6.4	3.2	mg/Kg			5	6010C
7439-92-1	Lead	380	1.3	0.68	mg/Kg			1	6010C
7782-49-2	Selenium	16	16	6.4	mg/Kg	U		5	6010C
7440-22-4	Silver	6.4	6.4	0.62	mg/Kg	U		5	6010C
7439-97-6	Mercury	0.20	0.023	0.0095	mg/Kg			1	7471B

2A-IN  
CALIBRATION VERIFICATIONS  
METALS

Lab Name: TestAmerica Savannah Job No.: 680-88980-3

SDG No.: 68088980-3

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

CCV Source: P\_CCV\_wk\_00109

Analyte	ICV 680-272160/6 04/05/2013 10:54				CCV 680-272160/152 04/06/2013 02:44				CCV 680-272160/164 04/06/2013 04:01			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
<b>Arsenic</b>	1040		1000	104	485		500	97	484		500	97
<b>Barium</b>	1040		1000	104	4790		5000	96	4790		5000	96
<b>Cadmium</b>	1050		1000	105	475		500	95	475		500	95
<b>Chromium</b>	1050		1000	105	4870		5000	97	4870		5000	97
<b>Lead</b>	1020		1000	102	490		500	98	491		500	98
<b>Selenium</b>	988		1000	99	4830		5000	97	4800		5000	96
<b>Silver</b>	978		1000	98	503		500	101	507		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.: 680-88980-3

SDG No.: 68088980-3

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

CCV Source: P\_CCV\_wk\_00109

Analyte	CCV 680-272160/176 04/06/2013 05:19				CCV 680-272160/188 04/06/2013 06:37							
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
<b>Arsenic</b>	487		500	97	493		500	99				
<b>Barium</b>	4790		5000	96	4790		5000	96				
<b>Cadmium</b>	474		500	95	472		500	94				
<b>Chromium</b>	4850		5000	97	4830		5000	97				
<b>Lead</b>	489		500	98	492		500	98				
<b>Selenium</b>	4800		5000	96	4780		5000	96				
<b>Silver</b>	507		500	101	501		500	100				

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.: 680-88980-3

SDG No.: 68088980-3

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

CCV Source: P\_CCV\_wk\_00109

Analyte	ICV 680-272554/4 04/09/2013 15:22				CCV 680-272554/61 04/09/2013 20:37				CCV 680-272554/73 04/09/2013 21:43			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
<b>Arsenic</b>	1010		1000	101	487		500	97	482		500	96
<b>Barium</b>	1020		1000	102	5090		5000	102	5100		5000	102
<b>Cadmium</b>	1030		1000	103	511		500	102	511		500	102
<b>Chromium</b>	1020		1000	102	5180		5000	104	5200		5000	104
<b>Lead</b>	1000		1000	100	492		500	98	491		500	98
<b>Selenium</b>	962		1000	96	4850		5000	97	4860		5000	97
<b>Silver</b>	972		1000	97	492		500	98	494		500	99

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.: 680-88980-3

SDG No.: 68088980-3

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

CCV Source: P\_CCV\_wk\_00109

Analyte	ICV 680-272682/4 04/10/2013 14:02				CCV 680-272682/47 04/10/2013 18:05				CCV 680-272682/59 04/10/2013 19:11			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
<b>Chromium</b>	1030		1000	103	5150		5000	103	5150		5000	103
<b>Selenium</b>	990		1000	99	5000		5000	100	4990		5000	100
<b>Silver</b>	968		1000	97	500		500	100	495		500	99
<i>Arsenic</i>	1000		1000	100	484		500	97	488		500	98
<i>Barium</i>	1030		1000	103	5140		5000	103	5130		5000	103
<i>Cadmium</i>	1040		1000	104	509		500	102	509		500	102
<i>Lead</i>	1010		1000	101	497		500	99	503		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.: 680-88980-3

SDG No.: 68088980-3

ICV Source: hg\_icvint\_00085 Concentration Units: ug/L

CCV Source: Hg\_Int\_Cal\_00091

Analyte	ICV 680-272221/34-A 04/09/2013 11:51				CCV 680-272221/31-A 04/09/2013 14:54				CCV 680-272221/31-A 04/09/2013 15:24			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
<b>Mercury</b>	3.04		3.00	101	2.69		2.50	108	2.66		2.50	106

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.: 680-88980-3

SDG No.: 68088980-3

ICV Source: hg\_icvint\_00085 Concentration Units: ug/L

CCV Source: Hg\_Int\_Cal\_00091

Analyte	CCV 680-272221/31-A 04/09/2013 15:53				CCV 680-272221/31-A 04/09/2013 16:23				CCV 680-272221/31-A 04/09/2013 16:52			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
<b>Mercury</b>	2.65		2.50	106	2.68		2.50	107	2.58		2.50	103

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.: 680-88980-3  
 SDG No.: 68088980-3  
 Method: 6010C Instrument ID: ICPE  
 Lab Sample ID: CRI 680-272160/8 Concentration Units: ug/L  
 CRQL Check Standard Source: P\_CRI\_00023

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Arsenic	20.0	16.2	J	81	50-150
Barium	10.0	11.1		111	50-150
Cadmium	5.00	5.50		110	50-150
Chromium	10.0	10.6		106	50-150
Lead	10.0	10.8		108	50-150
Selenium	20.0	22.7	J	114	50-150
Silver	10.0	10.5		105	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.: 680-88980-3  
 SDG No.: 68088980-3  
 Method: 6010C Instrument ID: ICPF  
 Lab Sample ID: CRI 680-272554/6 Concentration Units: ug/L  
 CRQL Check Standard Source: P\_CRI\_00023

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Arsenic	20.0	19.3	J	96	50-150
Barium	10.0	10.2		102	50-150
Cadmium	5.00	5.48		110	50-150
Chromium	10.0	10.6		106	50-150
Lead	10.0	7.61	J	76	50-150
Selenium	20.0	22.3	J	112	50-150
Silver	10.0	10.0		100	50-150

Lab Sample ID: CRI 680-272682/6 Concentration Units: ug/L  
 CRQL Check Standard Source: P\_CRI\_00023

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Arsenic	20.0	17.9	J	89	50-150
Barium	10.0	10.3		103	50-150
Cadmium	5.00	5.53		111	50-150
Chromium	10.0	11.1		111	50-150
Lead	10.0	12.8		128	50-150
Selenium	20.0	17.7	J	89	50-150
Silver	10.0	10.1		101	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.: 680-88980-3  
 SDG No.: 68088980-3  
 Method: 7471B Instrument ID: LEEMAN2  
 Lab Sample ID: CRA 680-272221/36-A Concentration Units: ug/L  
 CRQL Check Standard Source: Hg\_Int\_Cal\_00091

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Mercury	0.200	0.180	J	90	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.: 680-88980-3

SDG No.: 68088980-3

Concentration Units: ug/L

Analyte	RL	ICBIS 680-272160/7 04/05/2013 11:01		CCB 680-272160/153 04/06/2013 02:50		CCB 680-272160/165 04/06/2013 04:08		CCB 680-272160/177 04/06/2013 05:25	
		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.: 680-88980-3

SDG No.: 68088980-3

Concentration Units: ug/L

Analyte	RL	CCB 680-272160/189 04/06/2013 06:43							
		Found	C	Found	C	Found	C	Found	C
<b>Arsenic</b>	20	20	U						
<b>Barium</b>	10	5.23	J						
<b>Cadmium</b>	5.0	5.0	U						
<b>Chromium</b>	10	10	U						
<b>Lead</b>	10	10	U						
<b>Selenium</b>	25	25	U						
<b>Silver</b>	10	10	U						

Italicized analytes were not requested for this sequence.

3-IN  
INSTRUMENT BLANKS  
METALS

Lab Name: TestAmerica Savannah Job No.: 680-88980-3

SDG No.: 68088980-3

Concentration Units: ug/L

Analyte	RL	ICBIS 680-272554/5 04/09/2013 15:28		CCB 680-272554/62 04/09/2013 20:43		CCB 680-272554/74 04/09/2013 21:48		Found	C
		Found	C	Found	C	Found	C		
<b>Arsenic</b>	20	20	U	20	U	20	U		
<b>Barium</b>	10	10	U	10	U	10	U		
<b>Cadmium</b>	5.0	5.0	U	5.0	U	5.0	U		
<b>Chromium</b>	10	10	U	10	U	10	U		
<b>Lead</b>	10	10	U	10	U	10	U		
<b>Selenium</b>	25	25	U	25	U	25	U		
<b>Silver</b>	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.: 680-88980-3

SDG No.: 68088980-3

Concentration Units: ug/L

Analyte	RL	ICBIS 680-272682/5 04/10/2013 14:07		CCB 680-272682/48 04/10/2013 18:11		CCB 680-272682/60 04/10/2013 19:16		Found	C
		Found	C	Found	C	Found	C		
<b>Chromium</b>	10	10	U	10	U	10	U		
<b>Selenium</b>	25	25	U	25	U	25	U		
<b>Silver</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>Lead</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.: 680-88980-3

SDG No.: 68088980-3

Concentration Units: ug/L

Analyte	RL	ICB 680-272221/35-A 04/09/2013 11:53		CCB 680-272221/32-A 04/09/2013 14:57		CCB 680-272221/32-A 04/09/2013 15:26		CCB 680-272221/32-A 04/09/2013 15:56	
		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.: 680-88980-3

SDG No.: 68088980-3

Concentration Units: ug/L

Analyte	RL	CCB 680-272221/32-A 04/09/2013 16:25		CCB 680-272221/32-A 04/09/2013 16:55		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.: 680-88980-3  
SDG No.: 68088980-3  
Concentration Units: mg/Kg Lab Sample ID: MB 680-271923/1-A  
Instrument Code: ICPE Batch No.: 272160

CAS No.	Analyte	Concentration	C	Q	Method
7440-38-2	Arsenic	1.9	U		6010C
7440-39-3	Barium	0.96	U		6010C
7440-43-9	Cadmium	0.48	U		6010C
7440-47-3	Chromium	0.96	U		6010C
7439-92-1	Lead	0.96	U		6010C
7782-49-2	Selenium	2.4	U		6010C
7440-22-4	Silver	0.96	U		6010C

3-IN  
METHOD BLANK  
METALS

Lab Name: TestAmerica Savannah Job No.: 680-88980-3  
SDG No.: 68088980-3  
Concentration Units: mg/Kg Lab Sample ID: MB 680-272030/1-A  
Instrument Code: ICPF Batch No.: 272554

CAS No.	Analyte	Concentration	C	Q	Method
7440-38-2	Arsenic	2.0	U		6010C
7440-39-3	Barium	1.0	U		6010C
7440-43-9	Cadmium	0.50	U		6010C
7440-47-3	Chromium	1.0	U		6010C
7439-92-1	Lead	1.0	U		6010C
7782-49-2	Selenium	2.5	U		6010C
7440-22-4	Silver	1.0	U		6010C

3-IN  
METHOD BLANK  
METALS

Lab Name: TestAmerica Savannah Job No.: 680-88980-3  
SDG No.: 68088980-3  
Concentration Units: mg/Kg Lab Sample ID: MB 680-272218/1-A  
Instrument Code: LEEMAN2 Batch No.: 272484

CAS No.	Analyte	Concentration	C	Q	Method
7439-97-6	Mercury	0.019	U		7471B

4A-IN  
INTERFERENCE CHECK STANDARD  
METALS

Lab Name: TestAmerica Savannah

Job No.: 680-88980-3

SDG No.: 68088980-3

Lab Sample ID: ICSA 680-272160/9

Instrument ID: ICPE

Lab File ID: E04052013.csv

ICS Source: P\_ICSA\_wk\_00030

Concentration Units: ug/L

Analyte	True Solution A	Found Solution A	Percent Recovery
<b>Arsenic</b>		<b>0.0706</b>	
<b>Barium</b>		<b>5.08</b>	
<b>Cadmium</b>		<b>1.06</b>	
<b>Chromium</b>		<b>0.653</b>	
<b>Lead</b>		<b>-0.0859</b>	
<b>Selenium</b>		<b>-4.15</b>	
<b>Silver</b>		<b>0.272</b>	
<i>Aluminum</i>	<i>500000</i>	<i>537425</i>	<i>107</i>
<i>Antimony</i>		<i>2.59</i>	
<i>Beryllium</i>		<i>-0.143</i>	
<i>Boron</i>		<i>-12.6</i>	
<i>Calcium</i>	<i>500000</i>	<i>488490</i>	<i>98</i>
<i>Cobalt</i>		<i>2.06</i>	
<i>Copper</i>		<i>1.36</i>	
<i>Iron</i>	<i>200000</i>	<i>191137</i>	<i>96</i>
<i>Magnesium</i>	<i>500000</i>	<i>529324</i>	<i>106</i>
<i>Manganese</i>		<i>-4.26</i>	
<i>Molybdenum</i>		<i>1.50</i>	
<i>Nickel</i>		<i>0.359</i>	
<i>Potassium</i>		<i>0.181</i>	
<i>Sodium</i>		<i>-241</i>	
<i>Strontium</i>		<i>2.44</i>	
<i>Thallium</i>		<i>-4.82</i>	
<i>Tin</i>		<i>-2.03</i>	
<i>Titanium</i>		<i>0.177</i>	
<i>Vanadium</i>		<i>-1.48</i>	
<i>Zinc</i>		<i>19.3</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.: 680-88980-3

SDG No.: 68088980-3

Lab Sample ID: ICSAB 680-272160/10

Instrument ID: ICPE

Lab File ID: E04052013.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>110</b>	<b>110</b>
<b>Barium</b>	<b>500</b>	<b>531</b>	<b>106</b>
<b>Cadmium</b>	<b>1000</b>	<b>1010</b>	<b>101</b>
<b>Chromium</b>	<b>500</b>	<b>528</b>	<b>106</b>
<b>Lead</b>	<b>50.0</b>	<b>49.4</b>	<b>99</b>
<b>Selenium</b>	<b>50.0</b>	<b>44.8</b>	<b>90</b>
<b>Silver</b>	<b>200</b>	<b>222</b>	<b>111</b>
<i>Aluminum</i>	<i>500000</i>	<i>548293</i>	<i>110</i>
<i>Antimony</i>	<i>600</i>	<i>636</i>	<i>106</i>
<i>Beryllium</i>	<i>500</i>	<i>516</i>	<i>103</i>
<i>Boron</i>		<i>-15.9</i>	
<i>Calcium</i>	<i>500000</i>	<i>496413</i>	<i>99</i>
<i>Cobalt</i>	<i>500</i>	<i>497</i>	<i>99</i>
<i>Copper</i>	<i>500</i>	<i>555</i>	<i>111</i>
<i>Iron</i>	<i>200000</i>	<i>193992</i>	<i>97</i>
<i>Magnesium</i>	<i>500000</i>	<i>538860</i>	<i>108</i>
<i>Manganese</i>	<i>500</i>	<i>510</i>	<i>102</i>
<i>Molybdenum</i>	<i>1000</i>	<i>1087</i>	<i>109</i>
<i>Nickel</i>	<i>1000</i>	<i>975</i>	<i>98</i>
<i>Potassium</i>		<i>1.13</i>	
<i>Sodium</i>		<i>-226</i>	
<i>Strontium</i>		<i>4.20</i>	
<i>Thallium</i>	<i>100</i>	<i>84.2</i>	<i>84</i>
<i>Tin</i>	<i>1000</i>	<i>1044</i>	<i>104</i>
<i>Titanium</i>		<i>-6.10</i>	
<i>Vanadium</i>	<i>500</i>	<i>499</i>	<i>100</i>
<i>Zinc</i>	<i>1000</i>	<i>996</i>	<i>100</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.: 680-88980-3

SDG No.: 68088980-3

Lab Sample ID: ICSA 680-272554/7

Instrument ID: ICPF

Lab File ID: F04092013FIN.csv

ICS Source: P\_ICSA\_wk\_00030

Concentration Units: ug/L

Analyte	True Solution A	Found Solution A	Percent Recovery
<b>Arsenic</b>		<b>-4.22</b>	
<b>Barium</b>		<b>-0.353</b>	
<b>Cadmium</b>		<b>1.81</b>	
<b>Chromium</b>		<b>-0.0384</b>	
<b>Lead</b>		<b>0.656</b>	
<b>Selenium</b>		<b>-15.9</b>	
<b>Silver</b>		<b>-0.571</b>	
<i>Aluminum</i>	<i>500000</i>	<i>555613</i>	<i>111</i>
<i>Antimony</i>		<i>-7.25</i>	
<i>Beryllium</i>		<i>-0.163</i>	
<i>Boron</i>		<i>13.8</i>	
<i>Calcium</i>	<i>500000</i>	<i>503661</i>	<i>101</i>
<i>Cobalt</i>		<i>0.209</i>	
<i>Copper</i>		<i>4.29</i>	
<i>Iron</i>	<i>200000</i>	<i>192288</i>	<i>96</i>
<i>Magnesium</i>	<i>500000</i>	<i>540256</i>	<i>108</i>
<i>Manganese</i>		<i>1.27</i>	
<i>Molybdenum</i>		<i>-1.00</i>	
<i>Nickel</i>		<i>6.20</i>	
<i>Potassium</i>		<i>-0.433</i>	
<i>Sodium</i>		<i>141</i>	
<i>Strontium</i>		<i>-1.53</i>	
<i>Thallium</i>		<i>0.343</i>	
<i>Tin</i>		<i>0.632</i>	
<i>Titanium</i>		<i>5.98</i>	
<i>Vanadium</i>		<i>-0.0596</i>	
<i>Zinc</i>		<i>8.47</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.: 680-88980-3  
 SDG No.: 68088980-3  
 Lab Sample ID: ICSAB 680-272554/8 Instrument ID: ICPF  
 Lab File ID: F04092013FIN.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>105</b>	<b>105</b>
<b>Barium</b>	<b>500</b>	<b>525</b>	<b>105</b>
<b>Cadmium</b>	<b>1000</b>	<b>1004</b>	<b>100</b>
<b>Chromium</b>	<b>500</b>	<b>516</b>	<b>103</b>
<b>Lead</b>	<b>50.0</b>	<b>49.8</b>	<b>100</b>
<b>Selenium</b>	<b>50.0</b>	<b>58.6</b>	<b>117</b>
<b>Silver</b>	<b>200</b>	<b>220</b>	<b>110</b>
<i>Aluminum</i>	<i>500000</i>	<i>562666</i>	<i>113</i>
<i>Antimony</i>	<i>600</i>	<i>607</i>	<i>101</i>
<i>Beryllium</i>	<i>500</i>	<i>513</i>	<i>103</i>
<i>Boron</i>		<i>12.9</i>	
<i>Calcium</i>	<i>500000</i>	<i>510748</i>	<i>102</i>
<i>Cobalt</i>	<i>500</i>	<i>494</i>	<i>99</i>
<i>Copper</i>	<i>500</i>	<i>570</i>	<i>114</i>
<i>Iron</i>	<i>200000</i>	<i>194258</i>	<i>97</i>
<i>Magnesium</i>	<i>500000</i>	<i>548823</i>	<i>110</i>
<i>Manganese</i>	<i>500</i>	<i>524</i>	<i>105</i>
<i>Molybdenum</i>	<i>1000</i>	<i>1087</i>	<i>109</i>
<i>Nickel</i>	<i>1000</i>	<i>979</i>	<i>98</i>
<i>Potassium</i>		<i>-0.0580</i>	
<i>Sodium</i>		<i>564</i>	
<i>Strontium</i>		<i>-2.79</i>	
<i>Thallium</i>	<i>100</i>	<i>92.4</i>	<i>92</i>
<i>Tin</i>	<i>1000</i>	<i>1023</i>	<i>102</i>
<i>Titanium</i>		<i>-0.157</i>	
<i>Vanadium</i>	<i>500</i>	<i>500</i>	<i>100</i>
<i>Zinc</i>	<i>1000</i>	<i>982</i>	<i>98</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.: 680-88980-3

SDG No.: 68088980-3

Lab Sample ID: ICSA 680-272682/7

Instrument ID: ICPF

Lab File ID: F04102013.csv

ICS Source: P\_ICSA\_wk\_00030

Concentration Units: ug/L

Analyte	True	Found	Percent Recovery
	Solution A	Solution A	
<b>Chromium</b>		<b>-0.703</b>	
<b>Selenium</b>		<b>15.0</b>	
<b>Silver</b>		<b>0.235</b>	
<i>Aluminum</i>	<i>500000</i>	<i>573295</i>	<i>115</i>
<i>Antimony</i>		<i>-3.10</i>	
<i>Arsenic</i>		<i>-14.1</i>	
<i>Barium</i>		<i>2.19</i>	
<i>Beryllium</i>		<i>-0.0617</i>	
<i>Boron</i>		<i>13.9</i>	
<i>Cadmium</i>		<i>2.35</i>	
<i>Calcium</i>	<i>500000</i>	<i>517100</i>	<i>103</i>
<i>Cobalt</i>		<i>0.0654</i>	
<i>Copper</i>		<i>4.62</i>	
<i>Iron</i>	<i>200000</i>	<i>194739</i>	<i>97</i>
<i>Lead</i>		<i>-2.79</i>	
<i>Magnesium</i>	<i>500000</i>	<i>554395</i>	<i>111</i>
<i>Manganese</i>		<i>1.40</i>	
<i>Molybdenum</i>		<i>-2.40</i>	
<i>Nickel</i>		<i>4.67</i>	
<i>Potassium</i>		<i>3.56</i>	
<i>Sodium</i>		<i>581</i>	
<i>Strontium</i>		<i>-1.63</i>	
<i>Thallium</i>		<i>-10.2</i>	
<i>Tin</i>		<i>6.04</i>	
<i>Titanium</i>		<i>5.67</i>	
<i>Vanadium</i>		<i>0.710</i>	
<i>Zinc</i>		<i>8.58</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.: 680-88980-3

SDG No.: 68088980-3

Lab Sample ID: ICSAB 680-272682/8

Instrument ID: ICPF

Lab File ID: F04102013.csv

ICS Source: P\_ICSAB\_wk\_00043

Concentration Units: ug/L

Analyte	True	Found	Percent Recovery
	Solution AB	Solution AB	
<b>Chromium</b>	<b>500</b>	<b>528</b>	<b>106</b>
<b>Selenium</b>	<b>50.0</b>	<b>57.9</b>	<b>116</b>
<b>Silver</b>	<b>200</b>	<b>226</b>	<b>113</b>
<i>Aluminum</i>	<i>500000</i>	<i>579436</i>	<i>116</i>
<i>Antimony</i>	<i>600</i>	<i>611</i>	<i>102</i>
<i>Arsenic</i>	<i>100</i>	<i>104</i>	<i>104</i>
<i>Barium</i>	<i>500</i>	<i>539</i>	<i>108</i>
<i>Beryllium</i>	<i>500</i>	<i>526</i>	<i>105</i>
<i>Boron</i>		<i>14.6</i>	
<i>Cadmium</i>	<i>1000</i>	<i>1027</i>	<i>103</i>
<i>Calcium</i>	<i>500000</i>	<i>522100</i>	<i>104</i>
<i>Cobalt</i>	<i>500</i>	<i>504</i>	<i>101</i>
<i>Copper</i>	<i>500</i>	<i>589</i>	<i>118</i>
<i>Iron</i>	<i>200000</i>	<i>196458</i>	<i>98</i>
<i>Lead</i>	<i>50.0</i>	<i>55.8</i>	<i>112</i>
<i>Magnesium</i>	<i>500000</i>	<i>562324</i>	<i>112</i>
<i>Manganese</i>	<i>500</i>	<i>536</i>	<i>107</i>
<i>Molybdenum</i>	<i>1000</i>	<i>1106</i>	<i>111</i>
<i>Nickel</i>	<i>1000</i>	<i>1004</i>	<i>100</i>
<i>Potassium</i>		<i>4.25</i>	
<i>Sodium</i>		<i>393</i>	
<i>Strontium</i>		<i>-0.191</i>	
<i>Thallium</i>	<i>100</i>	<i>82.6</i>	<i>83</i>
<i>Tin</i>	<i>1000</i>	<i>1045</i>	<i>104</i>
<i>Titanium</i>		<i>-0.772</i>	
<i>Vanadium</i>	<i>500</i>	<i>513</i>	<i>103</i>
<i>Zinc</i>	<i>1000</i>	<i>1008</i>	<i>101</i>

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

5A-IN  
 MATRIX SPIKE SAMPLE RECOVERY  
 METALS

Client ID: CV0666B-CS MS

Lab ID: 680-88980-8 MS

Lab Name: TestAmerica Savannah

Job No.: 680-88980-3

SDG No.: 68088980-3

Matrix: Solid

Concentration Units: mg/Kg

% Solids: 53.5

Analyte	SSR C	Sample Result (SR) C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Arsenic	60.8	45	17.1	91	75-125		6010C
Barium	387	1100	17.1	-4414	75-125	4	6010C
Cadmium	10.5	2.9	8.57	89	75-125		6010C
Chromium	80.0	61	17.1	110	75-125		6010C
Lead	485	450	8.57	374	75-125	4	6010C
Selenium	14.0	4.3 U	17.1	82	75-125		6010C
Silver	4.67	1.7 U	8.57	55	75-125	F	6010C
Mercury	0.632	0.44	0.176	108	80-120		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 SAMPLE RECOVERY  
 METALS

Client ID: CV1236B-CS MS

Lab ID: 680-88980-25 MS

Lab Name: TestAmerica Savannah

Job No.: 680-88980-3

SDG No.: 68088980-3

Matrix: Solid

Concentration Units: mg/Kg

% Solids: 55.7

Analyte	SSR C	Sample Result (SR) C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Arsenic	43.7	29	17.8	85	75-125		6010C
Barium	670	540	17.8	735	75-125	4	6010C
Cadmium	14.0	5.0	8.88	102	75-125		6010C
Chromium	64.9	47	17.8	101	75-125		6010C
Lead	484	650	8.88	-1888	75-125	4	6010C
Selenium	18.1	3.8 J	17.8	80	75-125		6010C
Silver	2.52	0.85 J	8.88	19	75-125	F	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.

5A-IN  
 MATRIX SPIKE DUPLICATE SAMPLE RECOVERY  
 METALS

Client ID: CV0666B-CS MSD Lab ID: 680-88980-8 MSD  
 Lab Name: TestAmerica Savannah Job No.: 680-88980-3  
 SDG No.: 68088980-3  
 Matrix: Solid Concentration Units: mg/Kg  
 % Solids: 53.5

Analyte	(SDR) C	Spike Added (SA)	%R	Control Limit %R	RPD	RPD Limit	Q	Method
Arsenic	54.4	17.5	53	75-125	11	20	F	6010C
Barium	398	17.5	-4270	75-125	3	20	4	6010C
Cadmium	10.9	8.73	91	75-125	3	20		6010C
Chromium	76.8	17.5	90	75-125	4	20		6010C
Lead	542	8.73	1029	75-125	11	20	4	6010C
Selenium	15.4	17.5	88	75-125	9	20		6010C
Silver	4.73	8.73	54	75-125	1	20	F	6010C
Mercury	0.590	0.164	91	80-120	7	20		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.

5A-IN  
 MATRIX SPIKE DUPLICATE SAMPLE RECOVERY  
 METALS

Client ID: CV1236B-CS MSD Lab ID: 680-88980-25 MSD  
 Lab Name: TestAmerica Savannah Job No.: 680-88980-3  
 SDG No.: 68088980-3  
 Matrix: Solid Concentration Units: mg/Kg  
 % Solids: 55.7

Analyte	(SDR) C	Spike Added (SA)	%R	Control Limit %R	RPD	RPD Limit	Q	Method
Arsenic	39.5	17.6	62	75-125	10	20	F	6010C
Barium	546	17.6	32	75-125	21	20	4 F	6010C
Cadmium	12.9	8.79	90	75-125	8	20		6010C
Chromium	58.3	17.6	65	75-125	11	20	F	6010C
Lead	417	8.79	-2665	75-125	15	20	4	6010C
Selenium	16.4	17.6	71	75-125	10	20	F	6010C
Silver	4.48	8.79	41	75-125	56	20	F	6010C

SDR = Sample Duplicate Result

Calculations are performed before rounding to avoid round-off errors in calculated results.  
 Note - Results and Reporting Limits have been adjusted for dry weight.

5B-IN  
 POST DIGESTION SPIKE SAMPLE RECOVERY  
 METALS

Client ID: CV0666B-CS PDS

Lab ID: 680-88980-8 PDS

Lab Name: TestAmerica Savannah

Job No.: 680-88980-3

SDG No.: 68088980-3

Matrix: Solid

Concentration Units: mg/Kg

Analyte	SSR C	Sample Result (SR) C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Arsenic	423	45	346	109	75-125		6010C
Barium	1470	1100	346	96	75-125		6010C
Cadmium	11.2	2.9	8.65	96	75-125		6010C
Chromium	94.8	61	34.6	98	75-125		6010C
Lead	522	450	86.5	80	75-125		6010C
Selenium	339	4.3	346	98	75-125		6010C
Silver	8.76	1.7	8.65	101	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.

5B-IN  
 POST DIGESTION SPIKE SAMPLE RECOVERY  
 METALS

Client ID: CV1236B-CS PDS

Lab ID: 680-88980-25 PDS

Lab Name: TestAmerica Savannah

Job No.: 680-88980-3

SDG No.: 68088980-3

Matrix: Solid

Concentration Units: mg/Kg

Analyte	SSR C	Sample Result (SR) C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Arsenic	407	29	359	105	75-125		6010C
Barium	899	540	359	100	75-125		6010C
Cadmium	13.8	5.0	8.97	99	75-125		6010C
Chromium	83.5	47	35.9	102	75-125		6010C
Lead	735	650	89.7	94	75-125		6010C
Selenium	377	3.8	359	104	75-125		6010C
Silver	9.99	0.85	8.97	102	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 680-271923/3-A

Lab Name: TestAmerica Savannah

Job No.: 680-88980-3

Sample Matrix: Solid

LCS Source: MS Cal Stk\_00019

Analyte	Solid(mg/Kg)							
	True	Found	C	%R	Limits		Q	Method
Arsenic	19.4	21.1		109	75	125		6010C
Barium	19.4	19.6		101	75	125		6010C
Cadmium	19.4	19.3		99	75	125		6010C
Chromium	19.4	20.3		104	75	125		6010C
Lead	19.4	19.0		98	75	125		6010C
Selenium	19.4	18.8		97	75	125		6010C
Silver	19.4	19.9		102	75	125		6010C

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

FORM VIIA - IN



7A-IN  
LAB CONTROL SAMPLE  
METALS

Lab ID: LCS 680-272030/3-A

Lab Name: TestAmerica Savannah

Job No.: 680-88980-3

Sample Matrix: Solid

LCS Source: MS Cal Stk\_00019

Analyte	Solid(mg/Kg)							
	True	Found	C	%R	Limits		Q	Method
Arsenic	19.6	19.6		100	75	125		6010C
Barium	19.6	19.5		99	75	125		6010C
Cadmium	19.6	20.2		103	75	125		6010C
Chromium	19.6	20.8		106	75	125		6010C
Lead	19.6	19.5		100	75	125		6010C
Selenium	19.6	19.8		101	75	125		6010C
Silver	19.6	19.8		101	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 680-272218/2-A

Lab Name: TestAmerica Savannah

Job No.: 680-88980-3

Sample Matrix: Solid

LCS Source: Hg\_Int\_Cal\_00091

Analyte	Solid(mg/Kg)						
	True	Found	C	%R	Limits	Q	Method
Mercury	0.245	0.285		116	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: 680-88980-8

SDG No: 68088980-3

Lab Name: TestAmerica Savannah

Job No: 680-88980-3

Matrix: Solid

Concentration Units: mg/Kg

Analyte	Initial Sample Result (I) C	Serial Dilution Result (S) C	% Difference	Q	Method
Arsenic	45	48.0	NC		6010C
Barium	1100	1290	13	V	6010C
Cadmium	2.9	3.13	J	NC	6010C
Chromium	61	68.9	13	V	6010C
Lead	450	512	13	V	6010C
Selenium	4.3	22	U	NC	6010C
Silver	1.7	8.6	U	NC	6010C

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

FORM VIII-IN

8-IN  
ICP-AES AND ICP-MS SERIAL DILUTIONS  
METALS

Lab ID: 680-88980-25

SDG No: 68088980-3

Lab Name: TestAmerica Savannah

Job No: 680-88980-3

Matrix: Solid

Concentration Units: mg/Kg

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	Method
Arsenic	29		19.6		NC		6010C
Barium	540		560		3.6		6010C
Cadmium	5.0		4.94		NC		6010C
Chromium	47		49.1		4.6		6010C
Lead	650		696		6.8		6010C
Selenium	3.8	J	10.7	J	NC		6010C
Silver	0.85	J	9.0	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: 680-88980-3

SDG Number: 68088980-3

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: 680-88980-3

SDG Number: 68088980-3

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: 680-88980-3

SDG Number: 68088980-3

Matrix: Solid

Instrument ID: ICPF

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: 680-88980-3

SDG Number: 68088980-3

Matrix: Solid

Instrument ID: ICPF

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: 680-88980-3

SDG Number: 68088980-3

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: 680-88980-3  
SDG Number: 68088980-3  
Matrix: Solid Instrument ID: LEEMAN2  
Method: 7471B XMDL Date: 06/01/2008 15:53

Analyte	Wavelength/ Mass	XRL (ug/L)	XMDL (ug/L)
Mercury		0.2	0.08

10-IN  
ICP-AES INTERELEMENT CORRECTION FACTORS  
METALS

Lab Name: TestAmerica Savannah

Job Number: 680-88980-3

SDG No.: 68088980-3

ICP-AES Instrument ID: ICPE

Date: 03/05/2013

Analyte	Wave Length	Ag	Al	As	B	Ba	Be	Ca	Cd	Co	Cr	Cu	Fe	K	Mg
Aluminum	308.215														
Antimony	206.834						0.007900				0.009800		0.000023		
Arsenic	188.980							0.000037					-0.000016		
Barium	389.178												0.000062		0.000112
Beryllium	313.042														
Boron	249.678												-0.000101		
Cadmium	226.502												0.000066		
Calcium	370.602												-0.025890		
Chromium	267.716								-0.000200				0.000005		
Cobalt	228.615										0.000280		-0.000003		
Copper	324.754												0.000006		
Iron	271.441									0.090560	0.001160				
Lead	220.353		-0.000011							-0.000200					
Magnesium	279.078		-0.000142										0.000087		
Manganese	257.610												0.000012		0.000025
Molybdenum	202.032												-0.000007		
Nickel	231.604												0.000008		
Potassium	766.491														
Selenium	196.026												0.000012		
Silver	328.068														
Sodium	330.237												-0.005902		
Strontium	216.596							0.000009					0.000039		
Thallium	190.794									0.000530			-0.000052		
Tin	189.925														
Titanium	334.941														
Vanadium	292.401												-0.002240		
Zinc	206.200												-0.001960		

10-IN  
ICP-AES INTERELEMENT CORRECTION FACTORS  
METALS

Lab Name: TestAmerica Savannah Job Number: 680-88980-3

SDG No.: 68088980-3

ICP-AES Instrument ID: ICPE Date: 03/05/2013

Analyte	Wave Length	Mn	Mo	Na	Ni	Pb	Sb	Se	Sn	Sr	Ti	Tl	V	Zn
Aluminum	308.215		0.023030										-0.003100	
Antimony	206.834		-0.013600						0.000200					
Arsenic	188.980		-0.000430											
Barium	389.178		0.000218										0.000095	
Beryllium	313.042		-0.000082										-0.000019	
Boron	249.678													
Cadmium	226.502													
Calcium	370.602	0.008800									0.058100		0.003040	
Chromium	267.716	0.000090											-0.000200	
Cobalt	228.615		-0.002900						-0.000060		0.002250			
Copper	324.754		0.000550										-0.000200	
Iron	271.441		0.000760										0.004220	
Lead	220.353	0.000130	-0.000800									-0.000325		
Magnesium	279.078	-0.007600												
Manganese	257.610													
Molybdenum	202.032												-0.000260	
Nickel	231.604													
Potassium	766.491													
Selenium	196.026	0.000500												
Silver	328.068	0.000061								-0.000600			0.000081	
Sodium	330.237										-0.150825			-0.144400
Strontium	216.596		-0.003360		-0.001575									
Thallium	190.794	-0.001466	-0.000433										0.000500	
Tin	189.925													
Titanium	334.941													
Vanadium	292.401		-0.007130								0.000575			
Zinc	206.200													

10-IN  
ICP-AES INTERELEMENT CORRECTION FACTORS  
METALS

Lab Name: TestAmerica Savannah

Job Number: 680-88980-3

SDG No.: 68088980-3

ICP-AES Instrument ID: ICPF

Date: 03/05/2013

Analyte	Wave Length	Ag	Al	As	B	Ba	Be	Ca	Cd	Co	Cr	Cu	Fe	K	Mg
Aluminum	308.215										0.000440		-0.000039		
Antimony	206.834						0.009150	0.000014			0.014330		0.000041		
Arsenic	188.980							-0.000037			0.000600		-0.000005		
Barium	389.178												0.000071		0.000112
Beryllium	313.042														
Boron	249.678									0.002360			-0.000270		
Cadmium	226.502		0.000003										0.000095		
Calcium	370.602												-0.048770		
Chromium	267.716								-0.000130				-0.000034		
Cobalt	228.615					0.000070			-0.000190		0.000076		0.000002		
Copper	324.754						0.000119	-0.000074					0.000009		0.000002
Iron	271.441									0.060870	-0.002240				
Lead	220.353		-0.000136							-0.000140	-0.001020		-0.000007		
Magnesium	279.078												-0.003105		
Manganese	257.610												0.000012		0.000026
Molybdenum	202.032		0.000004										-0.000038		
Nickel	231.604									-0.000240			0.000021		0.000013
Potassium	766.491					-0.002100									
Selenium	196.026		0.000013					0.000011					-0.000075		0.000022
Silicon								-0.000006							
Silver	328.068										-0.000140	-0.000026	-0.000006		
Sodium	330.237												-0.007294		
Strontium	216.596		0.000003					0.000007				-0.000140	0.000079		
Thallium	190.794		-0.000024					-0.000020		0.003520			-0.000092		
Tin	189.925							-0.000006							
Titanium	334.941							0.000005			0.000270	-0.000008			
Vanadium	292.401										-0.002120		0.000007		
Zinc	206.200										-0.001240		0.000008		0.000011

10-IN  
ICP-AES INTERELEMENT CORRECTION FACTORS  
METALS

Lab Name: TestAmerica Savannah Job Number: 680-88980-3

SDG No.: 68088980-3

ICP-AES Instrument ID: ICPF Date: 03/05/2013

Analyte	Wave Length	Mn	Mo	Na	Ni	Pb	Sb	Se	Si	SiO2	Sn	Sr	Ti	Tl	V
Aluminum	308.215		0.007900												0.017120
Antimony	206.834		-0.003260								-0.002880		-0.002430		-0.001820
Arsenic	188.980		0.000460		-0.000500										0.000060
Barium	389.178		0.000300												0.000175
Beryllium	313.042		-0.000060												0.000390
Boron	249.678		-0.001000												
Cadmium	226.502												0.001740		
Calcium	370.602	0.007600											0.027800		0.003440
Chromium	267.716		0.000040										0.000047		-0.000440
Cobalt	228.615		-0.002040								-0.000032		0.001740		
Copper	324.754	0.000076	0.000200		0.000190								-0.000180		-0.000500
Iron	271.441		0.001700												0.012440
Lead	220.353		-0.001730												
Magnesium	279.078	-0.001500													
Manganese	257.610												0.000110		
Molybdenum	202.032														-0.000540
Nickel	231.604		-0.000050				-0.000029							0.000200	
Potassium	766.491														
Selenium	196.026	0.000690													
Silicon															
Silver	328.068	0.000140	0.00000										-0.000110		0.000028
Sodium	330.237												-0.109400		
Strontium	216.596		-0.002900		-0.006100										
Thallium	190.794		-0.002200										0.001400		0.002320
Tin	189.925												0.000400		
Titanium	334.941														0.000028
Vanadium	292.401	-0.000070	-0.008290										0.000324		
Zinc	206.200														

10-IN  
ICP-AES INTERELEMENT CORRECTION FACTORS  
METALS

Lab Name: TestAmerica Savannah Job Number: 680-88980-3

SDG No.: 68088980-3

ICP-AES Instrument ID: ICPF Date: 03/05/2013

Analyte	Wave Length	Zn													
Aluminum	308.215														
Antimony	206.834														
Arsenic	188.980														
Barium	389.178														
Beryllium	313.042														
Boron	249.678														
Cadmium	226.502														
Calcium	370.602														
Chromium	267.716														
Cobalt	228.615														
Copper	324.754														
Iron	271.441														
Lead	220.353														
Magnesium	279.078														
Manganese	257.610														
Molybdenum	202.032														
Nickel	231.604														
Potassium	766.491														
Selenium	196.026														
Silicon															
Silver	328.068														
Sodium	330.237	0.024999													
Strontium	216.596														
Thallium	190.794														
Tin	189.925														
Titanium	334.941														
Vanadium	292.401														
Zinc	206.200														

12-IN  
PREPARATION LOG  
METALS

Lab Name: TestAmerica Savannah

Job No.: 680-88980-3

SDG No.: 68088980-3

Prep Method: 3050B

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight (g)	Initial Volume	Final Volume (mL)
MB 680-271923/1-A	04/04/2013 13:27	271923	1.04		100
LCS 680-271923/3-A	04/04/2013 13:27	271923	1.03		100
680-88980-8	04/04/2013 13:27	271923	1.08		100
680-88980-8 MS	04/04/2013 13:27	271923	1.09		100
680-88980-8 MSD	04/04/2013 13:27	271923	1.07		100



12-IN  
PREPARATION LOG  
METALS

Lab Name: TestAmerica Savannah

Job No.: 680-88980-3

SDG No.: 68088980-3

Prep Method: 3050B

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight (g)	Initial Volume	Final Volume (mL)
MB 680-272030/1-A	04/05/2013 09:31	272030	1.00		100
LCS 680-272030/3-A	04/05/2013 09:31	272030	1.02		100
680-88980-25	04/05/2013 09:31	272030	1.00		100
680-88980-25 MS	04/05/2013 09:31	272030	1.01		100
680-88980-25 MSD	04/05/2013 09:31	272030	1.02		100
680-88980-26	04/05/2013 09:31	272030	1.06		100
680-88980-27	04/05/2013 09:31	272030	1.01		100

12-IN  
PREPARATION LOG  
METALS

Lab Name: TestAmerica Savannah

Job No.: 680-88980-3

SDG No.: 68088980-3

Prep Method: 7471B

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight (g)	Initial Volume	Final Volume (mL)
MB 680-272218/1-A	04/08/2013 10:02	272218	0.53		50
LCS 680-272218/2-A	04/08/2013 10:02	272218	0.51		50
680-88980-8	04/08/2013 10:02	272218	0.52		50
680-88980-8 MS	04/08/2013 10:02	272218	0.53		50
680-88980-8 MSD	04/08/2013 10:02	272218	0.57		50
680-88980-25	04/08/2013 10:02	272218	0.55		50
680-88980-26	04/08/2013 10:02	272218	0.54		50
680-88980-27	04/08/2013 10:02	272218	0.56		50

13-IN  
ANALYSIS RUN LOG  
METALS

Lab Name: TestAmerica Savannah Job No.: 680-88980-3

SDG No.: 68088980-3

Instrument ID: ICPE Method: 6010C

Start Date: 04/05/2013 10:22 End Date: 04/06/2013 10:36

Lab Sample ID	D / F	Type	Time	Analytes															
				A g	A s	B a	C d	C r	P b	S e									
ZZZZZZ			10:22																
ZZZZZZ			10:29																
ZZZZZZ			10:35																
ZZZZZZ			10:41																
ZZZZZZ			10:48																
ICV 680-272160/6	1		10:54	X	X	X	X	X	X	X									
ICBIS 680-272160/7	1		11:01	X	X	X	X	X	X	X									
CRI 680-272160/8	1		11:07	X	X	X	X	X	X	X									
ICSA 680-272160/9	1		11:13	X	X	X	X	X	X	X									
ICSAB 680-272160/10	1		11:20	X	X	X	X	X	X	X									
ZZZZZZ			11:26																
ZZZZZZ			11:33																
ZZZZZZ			11:39																
CCV 680-272160/14			11:51																
CCB 680-272160/15			11:58																
ZZZZZZ			12:04																
ZZZZZZ			12:10																
ZZZZZZ			12:17																
ZZZZZZ			12:23																
ZZZZZZ			12:30																
ZZZZZZ			12:36																
ZZZZZZ			12:42																
ZZZZZZ			12:49																
ZZZZZZ			12:55																
ZZZZZZ			13:02																
CCV 680-272160/26			13:08																
CCB 680-272160/27			13:15																
ZZZZZZ			13:21																
ZZZZZZ			13:27																
ZZZZZZ			13:34																
ZZZZZZ			13:40																
ZZZZZZ			13:51																
ZZZZZZ			13:57																
ZZZZZZ			14:04																
ZZZZZZ			14:10																
ZZZZZZ			14:17																
ZZZZZZ			14:23																
CCV 680-272160/38			14:30																
CCB 680-272160/39			14:36																
ZZZZZZ			14:42																
ZZZZZZ			14:49																
CCV 680-272160/42			14:55																

13-IN  
ANALYSIS RUN LOG  
METALS

Lab Name: TestAmerica Savannah Job No.: 680-88980-3

SDG No.: 68088980-3

Instrument ID: ICPE Method: 6010C

Start Date: 04/05/2013 10:22 End Date: 04/06/2013 10:36

Lab Sample ID	D / F	T y p e	Time	Analytes															
				A g	A s	B a	C d	C r	P b	S e									
CCB 680-272160/43			15:02																
ZZZZZZ			15:08																
ZZZZZZ			15:14																
ZZZZZZ			15:21																
ZZZZZZ			15:27																
ZZZZZZ			15:34																
ZZZZZZ			15:40																
CCV 680-272160/50			15:47																
CCB 680-272160/51			15:53																
ZZZZZZ			16:00																
ZZZZZZ			16:06																
ZZZZZZ			16:12																
ZZZZZZ			16:19																
ZZZZZZ			16:26																
ZZZZZZ			16:32																
ZZZZZZ			16:38																
ZZZZZZ			16:45																
ZZZZZZ			16:51																
ZZZZZZ			16:58																
CCV 680-272160/62			17:04																
CCB 680-272160/63			17:11																
ZZZZZZ			17:17																
ZZZZZZ			17:24																
ZZZZZZ			17:30																
ZZZZZZ			17:36																
ZZZZZZ			17:43																
ZZZZZZ			17:50																
CCV 680-272160/70			17:56																
CCB 680-272160/71			18:03																
ZZZZZZ			18:09																
ZZZZZZ			18:16																
ZZZZZZ			18:22																
ZZZZZZ			18:28																
ZZZZZZ			18:35																
ZZZZZZ			18:41																
ZZZZZZ			18:48																
ZZZZZZ			18:54																
ZZZZZZ			19:01																
ZZZZZZ			19:07																
CCV 680-272160/82			19:13																
CCB 680-272160/83			19:20																
ZZZZZZ			19:26																

13-IN  
ANALYSIS RUN LOG  
METALS

Lab Name: TestAmerica Savannah Job No.: 680-88980-3

SDG No.: 68088980-3

Instrument ID: ICPE Method: 6010C

Start Date: 04/05/2013 10:22 End Date: 04/06/2013 10:36

Lab Sample ID	D / F	Type	Time	Analytes															
				A g	A s	B a	C d	C r	P b	S e									
ZZZZZZ			19:33																
ZZZZZZ			19:39																
ZZZZZZ			19:45																
ZZZZZZ			19:52																
ZZZZZZ			19:58																
ZZZZZZ			20:05																
ZZZZZZ			20:11																
ZZZZZZ			20:18																
ZZZZZZ			20:24																
CCV 680-272160/94			20:30																
CCB 680-272160/95			20:37																
ZZZZZZ			20:43																
ZZZZZZ			20:50																
ZZZZZZ			20:56																
ZZZZZZ			21:03																
ZZZZZZ			21:09																
ZZZZZZ			21:15																
ZZZZZZ			21:22																
ZZZZZZ			21:28																
ZZZZZZ			21:35																
ZZZZZZ			21:41																
CCV 680-272160/106			21:48																
CCB 680-272160/107			21:54																
ZZZZZZ			22:00																
ZZZZZZ			22:07																
ZZZZZZ			22:13																
ZZZZZZ			22:20																
ZZZZZZ			22:26																
ZZZZZZ			22:33																
ZZZZZZ			22:39																
ZZZZZZ			22:46																
ZZZZZZ			22:52																
ZZZZZZ			22:59																
CCV 680-272160/118			23:05																
CCB 680-272160/119			23:11																
ZZZZZZ			23:18																
ZZZZZZ			23:24																
ZZZZZZ			23:31																
ZZZZZZ			23:37																
ZZZZZZ			23:44																
ZZZZZZ			23:50																
ZZZZZZ			23:56																

13-IN  
ANALYSIS RUN LOG  
METALS

Lab Name: TestAmerica Savannah Job No.: 680-88980-3

SDG No.: 68088980-3

Instrument ID: ICPE Method: 6010C

Start Date: 04/05/2013 10:22 End Date: 04/06/2013 10:36

Lab Sample ID	D / F	Type	Time	Analytes															
				A g	A s	B a	C d	C r	P b	S e									
ZZZZZZ			00:03																
CCV 680-272160/128			00:09																
CCB 680-272160/129			00:16																
ZZZZZZ			00:22																
ZZZZZZ			00:29																
ZZZZZZ			00:35																
ZZZZZZ			00:42																
ZZZZZZ			00:48																
ZZZZZZ			00:55																
ZZZZZZ			01:01																
ZZZZZZ			01:07																
ZZZZZZ			01:14																
ZZZZZZ			01:20																
CCV 680-272160/140			01:27																
CCB 680-272160/141			01:33																
ZZZZZZ			01:40																
ZZZZZZ			01:46																
ZZZZZZ			01:53																
ZZZZZZ			01:59																
ZZZZZZ			02:05																
ZZZZZZ			02:12																
ZZZZZZ			02:18																
ZZZZZZ			02:25																
ZZZZZZ			02:31																
ZZZZZZ			02:38																
CCV 680-272160/152	1		02:44	X	X	X	X	X	X	X									
CCB 680-272160/153	1		02:50	X	X	X	X	X	X	X									
ZZZZZZ			02:57																
ZZZZZZ			03:03																
ZZZZZZ			03:10																
ZZZZZZ			03:16																
ZZZZZZ			03:23																
ZZZZZZ			03:29																
ZZZZZZ			03:36																
MB 680-271923/1-A	1	T	03:42	X	X	X	X	X	X	X									
ZZZZZZ			03:48																
LCS 680-271923/3-A	1	T	03:55	X	X	X	X	X	X	X									
CCV 680-272160/164	1		04:01	X	X	X	X	X	X	X									
CCB 680-272160/165	1		04:08	X	X	X	X	X	X	X									
ZZZZZZ			04:14																
ZZZZZZ			04:21																
ZZZZZZ			04:27																

13-IN  
ANALYSIS RUN LOG  
METALS

Lab Name: TestAmerica Savannah Job No.: 680-88980-3

SDG No.: 68088980-3

Instrument ID: ICPE Method: 6010C

Start Date: 04/05/2013 10:22 End Date: 04/06/2013 10:36

Lab Sample ID	D / F	Type	Time	Analytes															
				A g	A s	B a	C d	C r	P b	S e									
ZZZZZZ			04:34																
ZZZZZZ			04:40																
ZZZZZZ			04:47																
ZZZZZZ			04:53																
ZZZZZZ			05:00																
ZZZZZZ			05:06																
ZZZZZZ			05:13																
CCV 680-272160/176	1		05:19	X	X	X	X	X	X	X									
CCB 680-272160/177	1		05:25	X	X	X	X	X	X	X									
ZZZZZZ			05:32																
ZZZZZZ			05:38																
ZZZZZZ			05:45																
680-88980-8	1	T	05:51	X	X	X	X	X	X	X									
680-88980-8 SD	5	T	05:58	X	X	X	X	X	X	X									
680-88980-8 PDS	1	T	06:04	X	X	X	X	X	X	X									
680-88980-8 MS	1	T	06:11	X	X	X	X	X	X	X									
680-88980-8 MSD	1	T	06:17	X	X	X	X	X	X	X									
ZZZZZZ			06:24																
ZZZZZZ			06:30																
CCV 680-272160/188	1		06:37	X	X	X	X	X	X	X									
CCB 680-272160/189	1		06:43	X	X	X	X	X	X	X									
ZZZZZZ			06:50																
ZZZZZZ			06:56																
ZZZZZZ			07:02																
ZZZZZZ			07:09																
ZZZZZZ			07:15																
ZZZZZZ			07:22																
ZZZZZZ			07:29																
ZZZZZZ			07:35																
ZZZZZZ			07:42																
ZZZZZZ			07:48																
CCV 680-272160/200			07:55																
CCB 680-272160/201			08:01																
ZZZZZZ			08:08																
ZZZZZZ			08:14																
ZZZZZZ			08:20																
ZZZZZZ			08:27																
ZZZZZZ			08:33																
ZZZZZZ			08:40																
ZZZZZZ			08:46																
ZZZZZZ			08:53																
ZZZZZZ			08:59																

13-IN  
ANALYSIS RUN LOG  
METALS

Lab Name: TestAmerica Savannah Job No.: 680-88980-3  
 SDG No.: 68088980-3  
 Instrument ID: ICPE Method: 6010C  
 Start Date: 04/05/2013 10:22 End Date: 04/06/2013 10:36

Lab Sample ID	D / F	T y p e	Time	Analytes																	
				A g	A s	B a	C d	C r	P b	S e											
ZZZZZZ			09:06																		
CCV 680-272160/212			09:12																		
CCB 680-272160/213			09:19																		
ZZZZZZ			09:25																		
ZZZZZZ			09:32																		
ZZZZZZ			09:38																		
ZZZZZZ			09:45																		
ZZZZZZ			09:51																		
ZZZZZZ			09:58																		
ZZZZZZ			10:04																		
ZZZZZZ			10:11																		
ZZZZZZ			10:17																		
ZZZZZZ			10:24																		
CCV 680-272160/224			10:30																		
CCB 680-272160/225			10:36																		

Prep Types  
T = Total/NA



13-IN  
ANALYSIS RUN LOG  
METALS

Lab Name: TestAmerica Savannah Job No.: 680-88980-3

SDG No.: 68088980-3

Instrument ID: ICPF Method: 6010C

Start Date: 04/09/2013 15:06 End Date: 04/10/2013 01:59

Lab Sample ID	D / F	Type	Time	Analytes															
				Ag	As	Ba	Cd	Cr	Pb	Se									
ZZZZZZ			15:06																
ZZZZZZ			15:11																
ZZZZZZ			15:17																
ICV 680-272554/4	1		15:22	X	X	X	X	X	X	X									
ICBIS 680-272554/5	1		15:28	X	X	X	X	X	X	X									
CRI 680-272554/6	1		15:33	X	X	X	X	X	X	X									
ICSA 680-272554/7	1		15:39	X	X	X	X	X	X	X									
ICSAB 680-272554/8	1		15:44	X	X	X	X	X	X	X									
CCV 680-272554/9			15:53																
CCB 680-272554/10			15:58																
ZZZZZZ			16:04																
ZZZZZZ			16:09																
ZZZZZZ			16:15																
ZZZZZZ			16:20																
ZZZZZZ			16:26																
ZZZZZZ			16:31																
ZZZZZZ			16:37																
ZZZZZZ			16:42																
ZZZZZZ			16:47																
ZZZZZZ			16:53																
CCV 680-272554/21			16:58																
CCB 680-272554/22			17:04																
ZZZZZZ			17:09																
ZZZZZZ			17:15																
ZZZZZZ			17:20																
ZZZZZZ			17:26																
ZZZZZZ			17:31																
ZZZZZZ			17:36																
ZZZZZZ			17:42																
ZZZZZZ			17:47																
ZZZZZZ			17:53																
ZZZZZZ			17:58																
CCV 680-272554/33			18:04																
CCB 680-272554/34			18:09																
ZZZZZZ			18:15																
ZZZZZZ			18:20																
ZZZZZZ			18:25																
ZZZZZZ			18:32																
ZZZZZZ			18:38																
ZZZZZZ			18:43																
ZZZZZZ			18:49																
ZZZZZZ			18:54																

13-IN  
ANALYSIS RUN LOG  
METALS

Lab Name: TestAmerica Savannah Job No.: 680-88980-3

SDG No.: 68088980-3

Instrument ID: ICPF Method: 6010C

Start Date: 04/09/2013 15:06 End Date: 04/10/2013 01:59

Lab Sample ID	D / F	Type	Time	Analytes															
				Ag	As	Ba	Cd	Cr	Pb	Se									
ZZZZZZ			18:59																
ZZZZZZ			19:05																
CCV 680-272554/45			19:10																
CCB 680-272554/46			19:16																
ZZZZZZ			19:21																
ZZZZZZ			19:27																
ZZZZZZ			19:32																
ZZZZZZ			19:38																
ZZZZZZ			19:43																
ZZZZZZ			19:48																
ZZZZZZ			19:54																
ZZZZZZ			19:59																
ZZZZZZ			20:05																
ZZZZZZ			20:10																
CCV 680-272554/57			20:16																
CCB 680-272554/58			20:21																
ZZZZZZ			20:27																
ZZZZZZ			20:32																
CCV 680-272554/61	1		20:37	X	X	X	X	X	X	X									
CCB 680-272554/62	1		20:43	X	X	X	X	X	X	X									
MB 680-272030/1-A	1	T	20:48	X	X	X	X	X	X	X									
ZZZZZZ			20:54																
LCS 680-272030/3-A	1	T	20:59	X	X	X	X	X	X	X									
680-88980-25	1	T	21:05	X	X	X	X	X	X	X									
680-88980-25 SD	5	T	21:10	X	X	X	X	X	X	X									
680-88980-25 PDS	1	T	21:16	X	X	X	X	X	X	X									
680-88980-25 MS	1	T	21:21	X	X	X	X	X	X	X									
680-88980-25 MSD	1	T	21:26	X	X	X	X	X	X	X									
680-88980-26	1	T	21:32	X	X	X	X	X	X	X									
680-88980-27	1	T	21:37		X	X	X		X										
CCV 680-272554/73	1		21:43	X	X	X	X	X	X	X									
CCB 680-272554/74	1		21:48	X	X	X	X	X	X	X									
ZZZZZZ			21:54																
ZZZZZZ			21:59																
ZZZZZZ			22:05																
ZZZZZZ			22:10																
ZZZZZZ			22:15																
ZZZZZZ			22:21																
ZZZZZZ			22:26																
ZZZZZZ			22:32																
ZZZZZZ			22:37																
ZZZZZZ			22:43																

13-IN  
ANALYSIS RUN LOG  
METALS

Lab Name: TestAmerica Savannah Job No.: 680-88980-3

SDG No.: 68088980-3

Instrument ID: ICPF Method: 6010C

Start Date: 04/09/2013 15:06 End Date: 04/10/2013 01:59

Lab Sample ID	D / F	Type	Time	Analytes															
				A g	A s	B a	C d	C r	P b	S e									
CCV 680-272554/85			22:48																
CCB 680-272554/86			22:54																
ZZZZZZ			22:59																
ZZZZZZ			23:05																
ZZZZZZ			23:10																
ZZZZZZ			23:15																
ZZZZZZ			23:21																
ZZZZZZ			23:26																
ZZZZZZ			23:32																
ZZZZZZ			23:37																
ZZZZZZ			23:43																
ZZZZZZ			23:48																
CCV 680-272554/97			23:54																
CCB 680-272554/98			23:59																
ZZZZZZ			00:05																
ZZZZZZ			00:10																
ZZZZZZ			00:15																
ZZZZZZ			00:21																
ZZZZZZ			00:26																
ZZZZZZ			00:32																
ZZZZZZ			00:37																
ZZZZZZ			00:43																
ZZZZZZ			00:48																
ZZZZZZ			00:54																
CCV 680-272554/109			00:59																
CCB 680-272554/110			01:05																
ZZZZZZ			01:10																
ZZZZZZ			01:16																
ZZZZZZ			01:21																
ZZZZZZ			01:26																
ZZZZZZ			01:32																
ZZZZZZ			01:37																
ZZZZZZ			01:43																
ZZZZZZ			01:48																
CCV 680-272554/119			01:54																
CCB 680-272554/120			01:59																

Prep Types  
T = Total/NA

13-IN  
ANALYSIS RUN LOG  
METALS

Lab Name: TestAmerica Savannah Job No.: 680-88980-3

SDG No.: 68088980-3

Instrument ID: ICPF Method: 6010C

Start Date: 04/10/2013 13:45 End Date: 04/11/2013 01:32

Lab Sample ID	D / F	Type	Time	Analytes																			
				A g	C r	S e																	
ZZZZZZ			13:45																				
ZZZZZZ			13:51																				
ZZZZZZ			13:56																				
ICV 680-272682/4	1		14:02	X	X	X																	
ICBIS 680-272682/5	1		14:07	X	X	X																	
CRI 680-272682/6	1		14:12	X	X	X																	
ICSA 680-272682/7	1		14:18	X	X	X																	
ICSAB 680-272682/8	1		14:23	X	X	X																	
ZZZZZZ			14:29																				
ZZZZZZ			14:38																				
ZZZZZZ			14:43																				
CCV 680-272682/12			14:49																				
CCB 680-272682/13			14:54																				
ZZZZZZ			15:00																				
ZZZZZZ			15:05																				
ZZZZZZ			15:10																				
ZZZZZZ			15:16																				
ZZZZZZ			15:21																				
ZZZZZZ			15:27																				
ZZZZZZ			15:32																				
ZZZZZZ			15:38																				
ZZZZZZ			15:45																				
ZZZZZZ			15:50																				
CCV 680-272682/24			15:56																				
CCB 680-272682/25			16:01																				
ZZZZZZ			16:09																				
ZZZZZZ			16:15																				
ZZZZZZ			16:20																				
ZZZZZZ			16:26																				
ZZZZZZ			16:31																				
ZZZZZZ			16:37																				
ZZZZZZ			16:42																				
ZZZZZZ			16:48																				
ZZZZZZ			16:53																				
ZZZZZZ			16:58																				
CCV 680-272682/36			17:04																				
CCB 680-272682/37			17:09																				
ZZZZZZ			17:15																				
ZZZZZZ			17:20																				
ZZZZZZ			17:26																				
ZZZZZZ			17:32																				
ZZZZZZ			17:38																				

13-IN  
ANALYSIS RUN LOG  
METALS

Lab Name: TestAmerica Savannah Job No.: 680-88980-3

SDG No.: 68088980-3

Instrument ID: ICPF Method: 6010C

Start Date: 04/10/2013 13:45 End Date: 04/11/2013 01:32

Lab Sample ID	D / F	Type	Time	Analytes															
				A	C	S													
ZZZZZZ			17:43																
ZZZZZZ			17:49																
ZZZZZZ			17:54																
ZZZZZZ			18:00																
CCV 680-272682/47	1		18:05	X	X	X													
CCB 680-272682/48	1		18:11	X	X	X													
ZZZZZZ			18:16																
ZZZZZZ			18:21																
ZZZZZZ			18:27																
ZZZZZZ			18:32																
ZZZZZZ			18:38																
ZZZZZZ			18:43																
ZZZZZZ			18:49																
680-88980-27	5	T	18:54	X	X	X													
ZZZZZZ			19:00																
ZZZZZZ			19:05																
CCV 680-272682/59	1		19:11	X	X	X													
CCB 680-272682/60	1		19:16	X	X	X													
ZZZZZZ			19:21																
ZZZZZZ			19:27																
ZZZZZZ			19:32																
ZZZZZZ			19:38																
ZZZZZZ			19:43																
ZZZZZZ			19:49																
ZZZZZZ			19:54																
ZZZZZZ			19:59																
ZZZZZZ			20:05																
ZZZZZZ			20:10																
CCV 680-272682/71			20:16																
CCB 680-272682/72			20:21																
ZZZZZZ			20:27																
ZZZZZZ			20:32																
ZZZZZZ			20:38																
ZZZZZZ			20:43																
ZZZZZZ			20:49																
ZZZZZZ			20:54																
ZZZZZZ			20:59																
ZZZZZZ			21:05																
ZZZZZZ			21:10																
ZZZZZZ			21:16																
CCV 680-272682/83			21:21																
CCB 680-272682/84			21:27																

13-IN  
ANALYSIS RUN LOG  
METALS

Lab Name: TestAmerica Savannah Job No.: 680-88980-3

SDG No.: 68088980-3

Instrument ID: ICPF Method: 6010C

Start Date: 04/10/2013 13:45 End Date: 04/11/2013 01:32

Lab Sample ID	D / F	Type	Time	Analytes															
				A	C	S													
ZZZZZZ			21:32																
ZZZZZZ			21:38																
ZZZZZZ			21:43																
ZZZZZZ			21:49																
ZZZZZZ			21:54																
ZZZZZZ			21:59																
ZZZZZZ			22:05																
ZZZZZZ			22:10																
ZZZZZZ			22:16																
ZZZZZZ			22:21																
CCV 680-272682/95			22:27																
CCB 680-272682/96			22:32																
ZZZZZZ			22:38																
ZZZZZZ			22:43																
ZZZZZZ			22:49																
ZZZZZZ			22:54																
ZZZZZZ			22:59																
ZZZZZZ			23:05																
ZZZZZZ			23:10																
ZZZZZZ			23:16																
ZZZZZZ			23:21																
ZZZZZZ			23:27																
CCV 680-272682/107			23:32																
CCB 680-272682/108			23:38																
ZZZZZZ			23:43																
ZZZZZZ			23:49																
ZZZZZZ			23:54																
ZZZZZZ			23:59																
ZZZZZZ			00:05																
ZZZZZZ			00:10																
ZZZZZZ			00:16																
ZZZZZZ			00:21																
ZZZZZZ			00:27																
ZZZZZZ			00:32																
CCV 680-272682/119			00:38																
CCB 680-272682/120			00:43																
ZZZZZZ			00:49																
ZZZZZZ			00:54																
ZZZZZZ			01:00																
ZZZZZZ			01:05																
ZZZZZZ			01:10																
ZZZZZZ			01:16																

13-IN  
ANALYSIS RUN LOG  
METALS

Lab Name: TestAmerica Savannah Job No.: 680-88980-3

SDG No.: 68088980-3

Instrument ID: ICPF Method: 6010C

Start Date: 04/10/2013 13:45 End Date: 04/11/2013 01:32

Lab Sample ID	D / F	T y p e	Time	Analytes																																				
				A g	C r	S e																																		
CRI 680-272682/127			01:21																																					
CCV 680-272682/128			01:27																																					
CCB 680-272682/129			01:32																																					

Prep Types  
T = Total/NA

13-IN  
ANALYSIS RUN LOG  
METALS

Lab Name: TestAmerica Savannah Job No.: 680-88980-3

SDG No.: 68088980-3

Instrument ID: LEEMAN2 Method: 7471B

Start Date: 04/09/2013 11:36 End Date: 04/09/2013 17:22

Lab Sample ID	D / F	T y p e	Time	Analytes															
				H g															
IC 680-272221/24-A			11:36	X															
IC 680-272221/25-A			11:39	X															
IC 680-272221/26-A			11:41	X															
IC 680-272221/27-A			11:44	X															
IC 680-272221/28-A			11:46	X															
IC 680-272221/29-A			11:48	X															
ICV 680-272221/34-A	1		11:51	X															
ICB 680-272221/35-A	1		11:53	X															
CRA 680-272221/36-A	1		11:56	X															
CCV 680-272221/31-A			11:58																
CCB 680-272221/32-A			12:01																
ZZZZZZ			12:03																
ZZZZZZ			12:05																
ZZZZZZ			12:08																
ZZZZZZ			12:10																
ZZZZZZ			12:13																
ZZZZZZ			12:15																
ZZZZZZ			12:18																
ZZZZZZ			12:20																
ZZZZZZ			12:22																
ZZZZZZ			12:25																
CCV 680-272221/31-A			12:27																
CCB 680-272221/32-A			12:30																
ZZZZZZ			12:32																
ZZZZZZ			12:35																
ZZZZZZ			12:37																
ZZZZZZ			12:40																
ZZZZZZ			12:42																
ZZZZZZ			12:44																
ZZZZZZ			12:47																
ZZZZZZ			12:49																
ZZZZZZ			12:52																
ZZZZZZ			12:54																
CCV 680-272221/31-A			12:57																
CCB 680-272221/32-A			12:59																
ZZZZZZ			13:01																
ZZZZZZ			13:04																
ZZZZZZ			13:06																
ZZZZZZ			13:09																
ZZZZZZ			13:11																
ZZZZZZ			13:14																
ZZZZZZ			13:16																



13-IN  
ANALYSIS RUN LOG  
METALS

Lab Name: TestAmerica Savannah Job No.: 680-88980-3

SDG No.: 68088980-3

Instrument ID: LEEMAN2 Method: 7471B

Start Date: 04/09/2013 11:36 End Date: 04/09/2013 17:22

Lab Sample ID	D / F	T y p e	Time	Analytes																		
				H g																		
ZZZZZZ			13:19																			
ZZZZZZ			13:21																			
ZZZZZZ			13:24																			
CCV 680-272221/31-A			13:26																			
CCB 680-272221/32-A			13:28																			
ZZZZZZ			13:31																			
ZZZZZZ			13:33																			
ZZZZZZ			13:36																			
ZZZZZZ			13:38																			
ZZZZZZ			13:41																			
ZZZZZZ			13:43																			
ZZZZZZ			13:46																			
ZZZZZZ			13:48																			
ZZZZZZ			13:51																			
ZZZZZZ			13:53																			
CCV 680-272221/31-A			13:55																			
CCB 680-272221/32-A			13:58																			
ZZZZZZ			14:00																			
ZZZZZZ			14:03																			
ZZZZZZ			14:05																			
ZZZZZZ			14:08																			
ZZZZZZ			14:10																			
ZZZZZZ			14:13																			
ZZZZZZ			14:15																			
ZZZZZZ			14:18																			
ZZZZZZ			14:20																			
ZZZZZZ			14:22																			
CCV 680-272221/31-A			14:25																			
CCB 680-272221/32-A			14:27																			
ZZZZZZ			14:30																			
ZZZZZZ			14:32																			
ZZZZZZ			14:35																			
ZZZZZZ			14:37																			
ZZZZZZ			14:40																			
ZZZZZZ			14:42																			
ZZZZZZ			14:44																			
ZZZZZZ			14:47																			
ZZZZZZ			14:49																			
ZZZZZZ			14:52																			
CCV 680-272221/31-A	1		14:54					X														
CCB 680-272221/32-A	1		14:57					X														
ZZZZZZ			14:59																			

13-IN  
ANALYSIS RUN LOG  
METALS

Lab Name: TestAmerica Savannah Job No.: 680-88980-3

SDG No.: 68088980-3

Instrument ID: LEEMAN2 Method: 7471B

Start Date: 04/09/2013 11:36 End Date: 04/09/2013 17:22

Lab Sample ID	D / F	Type	Time	Analytes																		
				H																		
ZZZZZZ			15:02																			
ZZZZZZ			15:04																			
ZZZZZZ			15:07																			
ZZZZZZ			15:09																			
ZZZZZZ			15:11																			
ZZZZZZ			15:14																			
MB 680-272218/1-A	1	T	15:16	X																		
LCS 680-272218/2-A	1	T	15:19	X																		
ZZZZZZ			15:21																			
CCV 680-272221/31-A	1		15:24	X																		
CCB 680-272221/32-A	1		15:26	X																		
ZZZZZZ			15:29																			
ZZZZZZ			15:31																			
ZZZZZZ			15:34																			
ZZZZZZ			15:36																			
ZZZZZZ			15:38																			
ZZZZZZ			15:41																			
ZZZZZZ			15:43																			
ZZZZZZ			15:46																			
ZZZZZZ			15:48																			
ZZZZZZ			15:51																			
CCV 680-272221/31-A	1		15:53	X																		
CCB 680-272221/32-A	1		15:56	X																		
ZZZZZZ			15:58																			
ZZZZZZ			16:01																			
ZZZZZZ			16:03																			
ZZZZZZ			16:05																			
ZZZZZZ			16:08																			
680-88980-8	1	T	16:10	X																		
680-88980-8 MS	1	T	16:13	X																		
680-88980-8 MSD	1	T	16:15	X																		
680-88980-25	1	T	16:18	X																		
680-88980-26	1	T	16:20	X																		
CCV 680-272221/31-A	1		16:23	X																		
CCB 680-272221/32-A	1		16:25	X																		
680-88980-27	1	T	16:28	X																		
ZZZZZZ			16:30																			
ZZZZZZ			16:33																			
ZZZZZZ			16:35																			
ZZZZZZ			16:37																			
ZZZZZZ			16:40																			
ZZZZZZ			16:42																			

13-IN  
ANALYSIS RUN LOG  
METALS

Lab Name: TestAmerica Savannah Job No.: 680-88980-3

SDG No.: 68088980-3

Instrument ID: LEEMAN2 Method: 7471B

Start Date: 04/09/2013 11:36 End Date: 04/09/2013 17:22

Lab Sample ID	D / F	T y p e	Time	Analytes																
				H g																
ZZZZZZ			16:45																	
ZZZZZZ			16:47																	
ZZZZZZ			16:50																	
CCV 680-272221/31-A	1		16:52	X																
CCB 680-272221/32-A	1		16:55	X																
ZZZZZZ			16:57																	
ZZZZZZ			17:00																	
ZZZZZZ			17:02																	
ZZZZZZ			17:05																	
CCV 680-272221/31-A			17:07																	
CCB 680-272221/32-A			17:10																	
ZZZZZZ			17:17																	
CCV 680-272221/31-A			17:20																	
CCB 680-272221/32-A			17:22																	

Prep Types

T = Total/NA

E04052013.vvq. All Data Report 4/8/2013, 10:52:27 AM

Blank (Blk)	4/5/2013, 10:22:37 AM		Rack S, Tube 1
Label	Replicates Concentration		
Ag 328.068	0.3596	-1.0393	0.6798
Al 308.215	-1.8746	2.1552	-0.2807
As 188.980	0.0355	0.5782	-0.6137
B 249.678	0.1464	0.7580	-0.9045
Ba 389.178	0.5453	-0.5054	-0.0399
Be 313.042	0.0000	-0.0045	0.0045
Ca 370.602	0.5723	-0.2773	-0.2949
Cd 226.502	0.1078	-0.0033	-0.1045
Co 228.615	0.0630	-0.4218	0.3588
Cr 267.716	0.0622	0.0093	-0.0715
Cu 324.754	-0.3772	0.4957	-0.1185
Fe 271.441	-0.9187	-0.4076	1.3264
K 766.491	-0.4949	0.2675	0.2275
Mg 279.078	0.0877	-2.6551	2.5674
Mn 257.610	-0.5528	-0.1118	0.6646
Mo 202.032	-0.1015	0.2076	-0.1061
Na 330.237	42.8043	33.6167	-76.4210
Ni 231.604	-0.2698	0.5454	-0.2755
Pb 220.353	-0.5843	-0.6216	1.2059
Sb 206.834	0.0892	3.7305	-3.8197
Se 196.026	2.0643	-5.7606	3.6963
Sn 189.925	2.1385	-1.9235	-0.2150
Sr 216.596	-0.2211	0.3713	-0.1502
Ti 334.941	0.0216	-0.0107	-0.0109
Tl 190.794	1.1208	-0.0930	-1.0278
V 292.401	-0.1310	0.1280	0.0030
Zn 206.200	-0.9508	0.5909	0.3599

Label	Sol'n Conc.	Units	SD(Int)	%RSD(Int)	Int. (c/s)
Ag 328.068	0.0000	ppb	75.368	78.5	-96.0514
Al 308.215	0.0000	ppb	7.278	144.4	5.0419
As 188.980	0.0000	ppb	0.446	19.2	2.3200
B 249.678	0.0000	ppb	10.216	17.1	59.8808
Ba 389.178	0.0000	ppb	14.406	41.4	-34.8083
Be 313.042	0.0000	ppb	9.544	2.8	-335.072
Ca 370.602	0.0000	ppb	1.964	36.9	-5.326
Cd 226.502	0.0000	ppb	4.928	58.4	8.4334
Co 228.615	0.0000	ppb	5.198	116.3	4.4703
Cr 267.716	0.0000	ppb	3.517	31.0	11.3417
Cu 324.754	0.0000	ppb	23.281	19.6	-118.999
Fe 271.441	0.0000	ppb	2.418	262.3	-0.9218
K 766.491	0.0000	ppb	23.071	10.8	214.441
Mg 279.078	0.0000	ppb	6.817	32.0	21.3359
Mn 257.610	0.0000	ppb	169.219	48.9	346.169
Mo 202.032	0.0000	ppb	1.536	15.9	9.6403
Na 330.237	0.0000	ppb	4.026	252.6	-1.5942
Ni 231.604	0.0000	ppb	1.589	293.5	0.5416
Pb 220.353	0.0000	ppb	2.366	93.4	2.5336
Sb 206.834	0.0000	ppb	4.080	137.2	2.9739
Se 196.026	0.0000	ppb	2.993	266.6	1.1227
Sn 189.925	0.0000	ppb	2.070	120.5	-1.7176
Sr 216.596	0.0000	ppb	4.323	46.6	9.2798
Ti 334.941	0.0000	ppb	5.411	4.5	-121.272
Tl 190.794	0.0000	ppb	1.386	36.9	-3.7543
V 292.401	0.0000	ppb	4.091	244.8	-1.6713
Zn 206.200	0.0000	ppb	1.661	93.0	1.7856

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**HIGH STD (Std)**                      **4/5/2013, 10:29:02 AM**                      **Rack S, Tube 2**

<b>Label</b>	<b>Replicates Concentration</b>		
Ag 328.068	1008.56	987.214	1004.23
Al 308.215	10031.8	9965.61	10002.5
As 188.980	998.941	998.530	1002.53
B 249.678	994.301	998.482	1007.22
Ba 389.178	10012.6	9989.51	9997.86
Be 313.042	1002.46	999.034	998.509
Ca 370.602	10032	9973	9995
Cd 226.502	999.037	999.079	1001.88
Co 228.615	1000.37	1000.20	999.432
Cr 267.716	10002.1	9983.34	10014.5
Cu 324.754	10075.9	9855.74	10068.3
Fe 271.441	10007.3	9983.06	10009.7
K 766.491	20082.4	19984.9	19932.7
Mg 279.078	10010.7	9981.44	10007.9
Mn 257.610	10000.9	9984.10	10015.0
Mo 202.032	1001.06	997.599	1001.34
Na 330.237	14927.5	14904.0	15168.5
Ni 231.604	4992.88	5003.85	5003.27
Pb 220.353	1004.41	998.973	996.613
Sb 206.834	2000.98	1987.31	2011.71
Se 196.026	10021.5	9951.48	10027.0
Sn 189.925	10055.5	9983.59	9960.95
Sr 216.596	5013.94	4982.77	5003.29
Ti 334.941	1003.45	996.952	999.596
Tl 190.794	9991.03	10000.9	10008.1
V 292.401	10021.9	9969.21	10008.9
Zn 206.200	4991.06	5001.74	5007.20

<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	930.150	1.1	82342.1
Al 308.215	10000.0	ppb	119.034	0.3	35867.0
As 188.980	1000.00	ppb	1.644	0.2	750.127
B 249.678	1000.00	ppb	80.073	0.7	12209.7
Ba 389.178	10000.0	ppb	320.485	0.1	273591
Be 313.042	1000.00	ppb	4513.312	0.2	2104872
Ca 370.602	10000	ppb	117.980	0.3	39616
Cd 226.502	1000.00	ppb	75.732	0.2	46419.1
Co 228.615	1000.00	ppb	6.578	0.0	13193.2
Cr 267.716	10000.0	ppb	820.364	0.2	522279
Cu 324.754	10000.0	ppb	6490.194	1.3	519143
Fe 271.441	10000.0	ppb	30.244	0.1	20543.8
K 766.491	20000.0	ppb	4085.461	0.4	1075572
Mg 279.078	10000.0	ppb	42.119	0.2	26116.6
Mn 257.610	10000.0	ppb	4248.772	0.2	2745735
Mo 202.032	1000.00	ppb	17.796	0.2	8549.18
Na 330.237	15000.0	ppb	8.885	1.0	908.794
Ni 231.604	5000.00	ppb	20.774	0.1	16827.5
Pb 220.353	1000.00	ppb	9.064	0.4	2268.19
Sb 206.834	2000.00	ppb	13.213	0.6	2164.27
Se 196.026	10000.0	ppb	24.934	0.4	5922.70
Sn 189.925	10000.0	ppb	50.083	0.5	10147.9
Sr 216.596	5000.00	ppb	211.683	0.3	66821.5
Ti 334.941	1000.00	ppb	945.786	0.3	289272
Tl 190.794	10000.0	ppb	11.023	0.1	12861.8
V 292.401	10000.0	ppb	867.194	0.3	315892
Zn 206.200	5000.00	ppb	16.405	0.2	9990.08

**Ag 328.068 Calibration (ppb) 4/5/2013, 10:29:02 AM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-96.0514	0.0000	0.0000	-	-
HIGH STD		82342.1	1000.00	1000.00	0.0000	0.0

Curve Type: Linear Equation:  $y = 82.4 x + -96.1$

**Al 308.215 Calibration (ppb) 4/5/2013, 10:29:02 AM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		5.0419	0.0000	0.0000	-	-
HIGH STD		35867.0	10000.0	10000.0	0.0000	0.0

Curve Type: Linear Equation:  $y = 3.6 x + 5.0$

**As 188.980 Calibration (ppb) 4/5/2013, 10:29:02 AM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		2.3200	0.0000	0.0000	-	-
HIGH STD		750.127	1000.00	1000.000	-0.0002	0.0

Curve Type: Linear Equation:  $y = 0.7 x + 2.3$

**B 249.678 Calibration (ppb) 4/5/2013, 10:29:02 AM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		59.8808	0.0000	0.0000	-	-
HIGH STD		12209.7	1000.00	1000.00	0.0000	0.0

Curve Type: Linear Equation:  $y = 12.1 x + 59.9$

**Ba 389.178 Calibration (ppb) 4/5/2013, 10:29:02 AM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-34.8083	0.0000	0.0000	-	-
HIGH STD		273591	10000.0	10000.0	0.0000	0.0

Curve Type: Linear Equation:  $y = 27.4 x + -34.8$

**Be 313.042 Calibration (ppb) 4/5/2013, 10:29:02 AM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-335.072	0.0000	0.0000	-	-
HIGH STD		2104872	1000.00	1000.00	0.0000	0.0

Curve Type: Linear Equation:  $y = 2105.2 x + -335.1$

**Ca 370.602 Calibration (ppb) 4/5/2013, 10:29:02 AM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-5.326	0.0000	0.0000	-	-
HIGH STD		39616	10000	10000	-0.0010	0.0

Curve Type: Linear Equation:  $y = 4.0 x + -5.3$

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**Cd 226.502 Calibration (ppb) 4/5/2013, 10:29:02 AM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		8.4334	0.0000	0.0000	-	-
HIGH STD		46419.1	1000.00	1000.00	0.0000	0.0

Curve Type: Linear Equation:  $y = 46.4 x + 8.4$ **Co 228.615 Calibration (ppb) 4/5/2013, 10:29:02 AM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		4.4703	0.0000	0.0000	-	-
HIGH STD		13193.2	1000.00	1000.00	0.0000	0.0

Curve Type: Linear Equation:  $y = 13.2 x + 4.5$ **Cr 267.716 Calibration (ppb) 4/5/2013, 10:29:02 AM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		11.3417	0.0000	0.0000	-	-
HIGH STD		522279	10000.0	10000.00	-0.0010	0.0

Curve Type: Linear Equation:  $y = 52.2 x + 11.3$ **Cu 324.754 Calibration (ppb) 4/5/2013, 10:29:02 AM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-118.999	0.0000	0.0000	-	-
HIGH STD		519143	10000.0	10000.0	0.0010	0.0

Curve Type: Linear Equation:  $y = 51.9 x + -119.0$ **Fe 271.441 Calibration (ppb) 4/5/2013, 10:29:02 AM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-0.9218	0.0000	0.0000	-	-
HIGH STD		20543.8	10000.0	10000.0	0.0000	0.0

Curve Type: Linear Equation:  $y = 2.1 x + -0.9$ **K 766.491 Calibration (ppb) 4/5/2013, 10:29:02 AM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		214.441	0.0000	0.0000	-	-
HIGH STD		1075572	20000.0	20000.0	0.0000	0.0

Curve Type: Linear Equation:  $y = 53.8 x + 214.4$ **Mg 279.078 Calibration (ppb) 4/5/2013, 10:29:02 AM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		21.3359	0.0000	0.0000	-	-
HIGH STD		26116.6	10000.0	10000.0	0.0000	0.0

Curve Type: Linear Equation:  $y = 2.6 x + 21.3$

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**Mn 257.610 Calibration (ppb) 4/5/2013, 10:29:02 AM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		346.169	0.0000	0.0000	-	-
HIGH STD		2745735	10000.0	10000.0	0.0010	0.0

Curve Type: Linear Equation:  $y = 274.5 x + 346.2$ **Mo 202.032 Calibration (ppb) 4/5/2013, 10:29:02 AM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		9.6403	0.0000	0.0000	-	-
HIGH STD		8549.18	1000.00	1000.00	0.0001	0.0

Curve Type: Linear Equation:  $y = 8.5 x + 9.6$ **Na 330.237 Calibration (ppb) 4/5/2013, 10:29:02 AM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-1.5942	0.0000	0.0000	-	-
HIGH STD		908.794	15000.0	15000.0	0.0000	0.0

Curve Type: Linear Equation:  $y = 0.1 x + -1.6$ **Ni 231.604 Calibration (ppb) 4/5/2013, 10:29:02 AM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		0.5416	0.0000	0.0000	-	-
HIGH STD		16827.5	5000.00	5000.00	0.0000	0.0

Curve Type: Linear Equation:  $y = 3.4 x + 0.5$ **Pb 220.353 Calibration (ppb) 4/5/2013, 10:29:02 AM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		2.5336	0.0000	0.0000	-	-
HIGH STD		2268.19	1000.00	1000.00	0.0000	0.0

Curve Type: Linear Equation:  $y = 2.3 x + 2.5$ **Sb 206.834 Calibration (ppb) 4/5/2013, 10:29:02 AM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		2.9739	0.0000	0.0000	-	-
HIGH STD		2164.27	2000.00	2000.00	0.0000	0.0

Curve Type: Linear Equation:  $y = 1.1 x + 3.0$ **Se 196.026 Calibration (ppb) 4/5/2013, 10:29:02 AM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		1.1227	0.0000	0.0000	-	-
HIGH STD		5922.70	10000.0	10000.0	0.0000	0.0

Curve Type: Linear Equation:  $y = 0.6 x + 1.1$



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**Sn 189.925 Calibration (ppb) 4/5/2013, 10:29:02 AM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-1.7176	0.0000	0.0000	-	-
HIGH STD		10147.9	10000.0	10000.00	-0.0010	0.0

Curve Type: Linear Equation:  $y = 1.0 x + -1.7$ **Sr 216.596 Calibration (ppb) 4/5/2013, 10:29:02 AM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		9.2798	0.0000	0.0000	-	-
HIGH STD		66821.5	5000.00	5000.00	0.0000	0.0

Curve Type: Linear Equation:  $y = 13.4 x + 9.3$ **Ti 334.941 Calibration (ppb) 4/5/2013, 10:29:02 AM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-121.272	0.0000	0.0000	-	-
HIGH STD		289272	1000.00	1000.000	-0.0001	0.0

Curve Type: Linear Equation:  $y = 289.4 x + -121.3$ **Tl 190.794 Calibration (ppb) 4/5/2013, 10:29:02 AM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-3.7543	0.0000	0.0000	-	-
HIGH STD		12861.8	10000.0	10000.0	0.0000	0.0

Curve Type: Linear Equation:  $y = 1.3 x + -3.8$ **V 292.401 Calibration (ppb) 4/5/2013, 10:29:02 AM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-1.6713	0.0000	0.0000	-	-
HIGH STD		315892	10000.0	10000.0	0.0000	0.0

Curve Type: Linear Equation:  $y = 31.6 x + -1.7$ **Zn 206.200 Calibration (ppb) 4/5/2013, 10:29:02 AM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		1.7856	0.0000	0.0000	-	-
HIGH STD		9990.08	5000.00	5000.00	0.0005	0.0

Curve Type: Linear Equation:  $y = 2.0 x + 1.8$ **Lab Control Sample (LCS) 4/5/2013, 10:35:26 AM Rack S, Tube 2****Weight: 1 Volume: 1 Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	1004.98x	1016.89x	1012.30x
Al 308.215	10140.5	10101.0	10135.0
As 188.980	1004.28	996.819	1016.12
B 249.678	1011.71	1018.17	1022.95
Ba 389.178	10048.2x	10044.8x	10062.3x

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Label	Replicates Concentration		
Be 313.042	1005.27x	1003.37x	1005.53x
Ca 370.602	10013	9996	10001
Cd 226.502	1002.54x	1002.91x	1004.50x
Co 228.615	1002.97	1001.16	1002.88
Cr 267.716	10059.4x	10061.8x	10084.1x
Cu 324.754	10034.6	10133.5	10077.6
Fe 271.441	10043.6	10035.4	10039.1
K 766.491	19937.6	19850.9	19960.4
Mg 279.078	10014.2	9991.04	10009.0
Mn 257.610	10037.1	10040.5	10046.3
Mo 202.032	1007.56x	1007.00x	1008.07x
Na 330.237	14605.7	14818.4	14706.1
Ni 231.604	5013.41	5018.88	5018.35
Pb 220.353	1005.84	1000.90	1003.97
Sb 206.834	2027.85	2020.68	2042.08
Se 196.026	10017.8x	10008.4x	10058.7x
Sn 189.925	9971.00	10158.2x	10003.5x
Sr 216.596	5051.96x	5047.75x	5053.22x
Ti 334.941	1010.14	1009.11	1011.04
Tl 190.794	10027.0x	10006.6	10013.1x
V 292.401	10022.6	10021.9	10026.4
Zn 206.200	4989.25	4989.57	4999.21

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	1011.39xb	ppb	6.0109	0.6	83152.0	101.13889
Al 308.215	10125.5b	ppb	21.4060	0.2	36288.2	101.25471
As 188.980	1005.74b	ppb	9.7335	1.0	754.075	100.57393
B 249.678	1017.61b	ppb	5.6395	0.6	12411.4	20.35226*
Ba 389.178	10051.8xb	ppb	9.3121	0.1	275087	100.51759
Be 313.042	1004.72xb	ppb	1.1801	0.1	2114228	100.47203
Ca 370.602	10003b	ppb	8.477	0.1	39302	100.03251
Cd 226.502	1003.32xb	ppb	1.0406	0.1	46603.8	100.33159
Co 228.615	1002.34b	ppb	1.0187	0.1	13244.3	100.23396
Cr 267.716	10068.4xb	ppb	13.6073	0.1	525788	100.68404
Cu 324.754	10081.9b	ppb	49.5937	0.5	523325	100.81913
Fe 271.441	10039.3b	ppb	4.1148	0.0	20923.5	100.39345
K 766.491	19916.3b	ppb	57.8091	0.3	1071072	99.58150
Mg 279.078	10004.7b	ppb	12.1354	0.1	25928.2	100.04722
Mn 257.610	10041.3b	ppb	4.6993	0.0	2757199	100.41284
Mo 202.032	1007.54xb	ppb	0.5337	0.1	8590.75	100.75443
Na 330.237	14710.1b	ppb	106.397	0.7	834.700	98.06718
Ni 231.604	5016.88b	ppb	3.0169	0.1	16884.6	100.33764
Pb 220.353	1003.57b	ppb	2.4938	0.2	2275.97	100.35670
Sb 206.834	2030.20b	ppb	10.8951	0.5	2299.34	40.60402*
Se 196.026	10028.3xb	ppb	26.7182	0.3	5942.51	100.28320
Sn 189.925	10044.2xb	ppb	100.037	1.0	10192.8	100.44241
Sr 216.596	5050.98xb	ppb	2.8687	0.1	67358.7	101.01952
Ti 334.941	1010.10b	ppb	0.9659	0.1	292242	101.00990
Tl 190.794	10015.6xb	ppb	10.3933	0.1	12868.3	100.15582
V 292.401	10023.6b	ppb	2.4468	0.0	315721	100.23618
Zn 206.200	4992.68b	ppb	5.6577	0.1	9936.19	99.85355

Initial Calib Verif (ICV)

4/5/2013, 10:41:50 AM

Rack S, Tube 3

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	994.666	992.089	1007.94x
Al 308.215	981.346	982.019	968.530

E04052013.wvq. All Data Report 4/8/2013, 10:52:27 AM

Label	Replicates Concentration		
As 188.980	1036.10	1033.97	1039.16
B 249.678	991.424	996.758	1003.66
Ba 389.178	1043.49	1047.08	1046.00
Be 313.042	1052.83x	1054.22x	1052.39x
Ca 370.602	993.6	994.0	983.7
Cd 226.502	1051.79x	1053.41x	1055.89x
Co 228.615	1017.72	1022.21	1017.72
Cr 267.716	1054.94	1055.53	1052.59
Cu 324.754	1047.53	1051.57	1047.90
Fe 271.441	974.404	982.858	980.969
K 766.491	10090.5	10141.5	10113.8
Mg 279.078	1005.90	1015.49	1011.51
Mn 257.610	1073.38	1073.93	1075.06
Mo 202.032	1012.65x	1018.09x	1013.36x
Na 330.237	9445.18	9343.65	9470.81
Ni 231.604	1042.84	1045.07	1045.36
Pb 220.353	1018.74	1022.27	1013.71
Sb 206.834	1017.23	1018.68	1008.24
Se 196.026	1002.46	983.916	990.417
Sn 189.925	5031.83	5056.22	4996.98
Sr 216.596	5004.83	5006.21x	4980.19
Ti 334.941	991.334	993.544	988.692
Tl 190.794	1018.82	1025.45	1032.00
V 292.401	999.494	1000.53	1002.06
Zn 206.200	1049.13	1044.87	1043.96

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	998.231xb	ppb	8.5041	0.9	81960.6	99.82307
Al 308.215	977.299b	ppb	7.6010	0.8	3582.77	97.72987
As 188.980	1036.41b	ppb	2.6089	0.3	777.026	103.64117
B 249.678	997.282b	ppb	6.1373	0.6	12175.4	99.72822
Ba 389.178	1045.53b	ppb	1.8442	0.2	28587.1	104.55261
Be 313.042	1053.15xb	ppb	0.9567	0.1	2216544	105.31493
Ca 370.602	990.4b	ppb	5.840	0.6	4088	99.04198
Cd 226.502	1053.70xb	ppb	2.0613	0.2	48914.5	105.36975
Co 228.615	1019.22b	ppb	2.5920	0.3	13437.1	101.92155
Cr 267.716	1054.35b	ppb	1.5550	0.1	55063.0	105.43529Q
Cu 324.754	1049.00b	ppb	2.2305	0.2	54370.7	104.89996
Fe 271.441	979.411b	ppb	4.4376	0.5	2212.65	97.94106
K 766.491	10115.3b	ppb	25.5318	0.3	544090	101.15250
Mg 279.078	1010.97b	ppb	4.8201	0.5	2638.06	101.09691
Mn 257.610	1074.12b	ppb	0.8574	0.1	295249	107.41239Q
Mo 202.032	1014.70xb	ppb	2.9546	0.3	8672.44	101.46995
Na 330.237	9419.88b	ppb	67.2473	0.7	551.479	94.19881Q
Ni 231.604	1044.42b	ppb	1.3794	0.1	3515.47	104.44234
Pb 220.353	1018.24b	ppb	4.3015	0.4	2306.77	101.82405
Sb 206.834	1014.71b	ppb	5.6567	0.6	1105.82	101.47147
Se 196.026	992.263b	ppb	9.4080	0.9	589.024	99.22635
Sn 189.925	5028.34b	ppb	29.7737	0.6	5101.85	100.56686
Sr 216.596	4997.08xb	ppb	14.6399	0.3	66715.4	99.94154
Ti 334.941	991.190b	ppb	2.4290	0.2	286727	99.11902
Tl 190.794	1025.42b	ppb	6.5909	0.6	1314.12	102.54204
V 292.401	1000.70b	ppb	1.2895	0.1	31323.8	100.06950
Zn 206.200	1045.99b	ppb	2.7571	0.3	2087.18	104.59875

E04052013.vvq. All Data Report 4/8/2013, 10:52:27 AM

Initial Calib Blank (ICB) 4/5/2013, 10:48:15 AM Rack S, Tube 1

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.2350u	0.6672	1.0019
Al 308.215	-1.6617u	0.9525	1.8198
As 188.980	0.6424	-1.4536u	-6.8332u
B 249.678	24.5777	23.6324	21.8829
Ba 389.178	-0.1762u	-0.2075u	0.7557
Be 313.042	0.0227	0.0241	0.0223
Ca 370.602	6.041	4.394	2.601
Cd 226.502	0.0176	-0.0889u	-0.1140u
Co 228.615	-0.2261u	0.5610	-0.2018u
Cr 267.716	0.0563	0.1951	0.0735
Cu 324.754	0.5265	0.8450	1.0735
Fe 271.441	7.2029	2.2075	8.3144
K 766.491	0.8463	0.2082	0.8017
Mg 279.078	-1.3375u	-0.4707u	3.6707
Mn 257.610	1.5835	1.3655	1.4529
Mo 202.032	1.2361	1.3010	0.9609
Na 330.237	91.2136	27.4672	-88.0713u
Ni 231.604	-0.0295u	-1.3781u	-2.2088u
Pb 220.353	-0.0246u	0.5876	1.1613
Sb 206.834	0.8495	-6.5707u	-1.6036u
Se 196.026	6.2740	-7.0437u	-4.6243u
Sn 189.925	-3.2956u	1.6103	2.1283
Sr 216.596	-0.0792u	0.3445	0.3222
Ti 334.941	0.1470	0.2075	0.2132
Tl 190.794	2.9204	1.9426	2.2405
V 292.401	0.2370	0.3205	0.1478
Zn 206.200	0.0873	-0.0089u	-0.1715u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.4780	ppb	0.6398	133.8	-56.6503	0.47802
Al 308.215	0.3702	ppb	1.8123	489.6	6.4635	0.37017
As 188.980	-2.5481	ppb	3.8561	151.3	0.4140	-2.54813
B 249.678	23.3643	ppb	1.3672	5.9	343.748	23.36432
Ba 389.178	0.1240	ppb	0.5473	441.4	-31.3987	0.12400
Be 313.042	0.0230	ppb	0.0010	4.2	-286.795	0.02303
Ca 370.602	4.345	ppb	1.720	39.6	11.52	4.34541
Cd 226.502	-0.0618	ppb	0.0698	113.1	5.5817	-0.06175
Co 228.615	0.0444	ppb	0.4475	1008.3	5.0160	0.04439
Cr 267.716	0.1083	ppb	0.0757	69.9	17.0032	0.10829
Cu 324.754	0.8150	ppb	0.2747	33.7	-76.6464	0.81501
Fe 271.441	5.9083	ppb	3.2528	55.1	11.2283	5.90827
K 766.491	0.6187	ppb	0.3562	57.6	247.708	0.61871
Mg 279.078	0.6208	ppb	2.6766	431.1	22.9292	0.62084
Mn 257.610	1.4673	ppb	0.1097	7.5	749.023	1.46731
Mo 202.032	1.1660	ppb	0.1806	15.5	19.5966	1.16600
Na 330.237	10.2031	ppb	90.8807	890.7	-0.9784	10.20314
Ni 231.604	-1.2055	ppb	1.0999	91.2	-3.5152	-1.20550
Pb 220.353	0.5748	ppb	0.5931	103.2	3.8341	0.57477
Sb 206.834	-2.4416	ppb	3.7804	154.8	0.3202	-2.44157
Se 196.026	-1.7980	ppb	7.0945	394.6	0.0585	-1.79800
Sn 189.925	0.1476	ppb	2.9931	2027.2	-1.5678	0.14765
Sr 216.596	0.1958	ppb	0.2384	121.8	11.8637	0.19581
Ti 334.941	0.1892	ppb	0.0367	19.4	-66.4997	0.18925
Tl 190.794	2.3678	ppb	0.5012	21.2	-0.7118	2.36780
V 292.401	0.2351	ppb	0.0864	36.8	5.4902	0.23511
Zn 206.200	-0.0310	ppb	0.1308	422.0	1.7234	-0.03100

E04052013.vvq. All Data Report 4/8/2013, 10:52:27 AM

**Initial Calib Verif (ICV)**                      **4/5/2013, 10:54:38 AM**                      **Rack S, Tube 3**  
**Weight: 1**    **Volume: 1**    **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	975.168	979.520	980.424
Al 308.215	987.353	976.503	971.237
As 188.980	1037.89	1045.17	1031.68
B 249.678	980.684	983.645	975.713
Ba 389.178	1044.97	1041.23	1031.92
Be 313.042	1056.89x	1052.61x	1040.85x
Ca 370.602	995.2	992.2	978.9
Cd 226.502	1053.23x	1049.22x	1038.49x
Co 228.615	1014.63	1006.63	1014.47
Cr 267.716	1057.12	1052.67	1041.95
Cu 324.754	1043.40	1023.12	1026.21
Fe 271.441	981.002	974.332	964.590
K 766.491	10119.4	10115.7	10035.2
Mg 279.078	1016.32	1015.47	1003.93
Mn 257.610	1074.75	1070.12	1058.54
Mo 202.032	1017.92x	1014.67x	1004.96x
Na 330.237	9572.49	9642.36	9369.33
Ni 231.604	1046.06	1037.33	1025.55
Pb 220.353	1021.68	1017.36	1006.60
Sb 206.834	1015.40	1014.52	999.495
Se 196.026	987.436	994.613	983.050
Sn 189.925	5041.38	5000.72	4940.84
Sr 216.596	5019.08x	4987.06	4942.79
Ti 334.941	995.646	993.505	983.134
Tl 190.794	1025.72	1017.46	1004.19
V 292.401	1000.27	998.632	987.558
Zn 206.200	1044.62	1041.49	1030.54

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	978.370b	ppb	2.8101	0.3	80325.4	97.83705
Al 308.215	978.365b	ppb	8.2176	0.8	3586.23	97.83646
As 188.980	1038.25b	ppb	6.7527	0.7	778.399	103.82455
B 249.678	980.014b	ppb	4.0082	0.4	11965.6	98.00142
Ba 389.178	1039.37b	ppb	6.7184	0.6	28418.7	103.93746
Be 313.042	1050.12xb	ppb	8.3040	0.8	2210164	105.01180
Ca 370.602	988.8b	ppb	8.665	0.9	4080	98.87576
Cd 226.502	1046.98xb	ppb	7.6178	0.7	48602.7	104.69800
Co 228.615	1011.91b	ppb	4.5749	0.5	13340.8	101.19078
Cr 267.716	1050.58b	ppb	7.7996	0.7	54866.0	105.05792
Cu 324.754	1030.91b	ppb	10.9244	1.1	53431.3	103.09115
Fe 271.441	973.308b	ppb	8.2537	0.8	2199.08	97.33080
K 766.491	10090.1b	ppb	47.6000	0.5	542738	100.90102
Mg 279.078	1011.91b	ppb	6.9173	0.7	2640.59	101.19069
Mn 257.610	1067.80b	ppb	8.3492	0.8	293513	106.78017Q
Mo 202.032	1012.52xb	ppb	6.7439	0.7	8653.81	101.25164
Na 330.237	9528.06b	ppb	141.834	1.5	558.158	95.28058
Ni 231.604	1036.32b	ppb	10.2938	1.0	3488.18	103.63151
Pb 220.353	1015.21b	ppb	7.7661	0.8	2299.93	101.52122
Sb 206.834	1009.80b	ppb	8.9376	0.9	1100.46	100.98028
Se 196.026	988.366b	ppb	5.8373	0.6	586.715	98.83664
Sn 189.925	4994.31b	ppb	50.5733	1.0	5067.31	99.88627
Sr 216.596	4982.98xb	ppb	38.3106	0.8	66527.5	99.65956
Ti 334.941	990.762b	ppb	6.6916	0.7	286603	99.07616
Tl 190.794	1015.79b	ppb	10.8616	1.1	1301.73	101.57881
V 292.401	995.486b	ppb	6.9138	0.7	31160.8	99.54860
Zn 206.200	1038.88b	ppb	7.3896	0.7	2073.01	103.88835

E04052013.vvq. All Data Report 4/8/2013, 10:52:27 AM

Initial Calib Blank (ICB) 4/5/2013, 11:01:03 AM Rack S, Tube 1

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.0250u	0.7221	0.2091
Al 308.215	-0.3209u	3.7045	-1.0521u
As 188.980	-3.3738u	-1.9937u	-4.0710u
B 249.678	21.9731	19.9534	18.8550
Ba 389.178	-0.3485u	0.4646	0.6673
Be 313.042	0.0345	0.0472	0.0382
Ca 370.602	1.305	-1.849u	3.571
Cd 226.502	0.2093	-0.0629u	0.1228
Co 228.615	0.0622	-0.1028u	-0.0235u
Cr 267.716	-0.0650u	-0.0910u	0.1122
Cu 324.754	1.1113	0.6542	1.4683
Fe 271.441	-1.3493u	3.1075	-0.1120u
K 766.491	-0.0982u	0.8866	0.5461
Mg 279.078	4.5076	-1.9707u	2.2342
Mn 257.610	1.6946	1.7207	1.6859
Mo 202.032	1.1014	1.1344	1.2191
Na 330.237	-203.439u	-138.428u	72.2847
Ni 231.604	-0.7058u	1.0210	-0.5192u
Pb 220.353	0.1328	-2.8378u	-1.0532u
Sb 206.834	1.1514	-4.3807u	1.5626
Se 196.026	-7.1165u	-2.3615u	5.6532
Sn 189.925	-0.3906u	2.9311	-0.1372u
Sr 216.596	0.9989	0.3603	-0.0675u
Ti 334.941	0.2538	0.1659	0.2004
Tl 190.794	-0.5861u	3.2333	3.5982
V 292.401	0.3823	0.2383	0.4916
Zn 206.200	-0.1576u	0.8751	-0.5856u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.3020	ppb	0.3821	126.5	-71.1489	0.30204
Al 308.215	0.7772	ppb	2.5614	329.6	7.9267	0.77716
As 188.980	-3.1462	ppb	1.0572	33.6	-0.0331	-3.14616
B 249.678	20.2605	ppb	1.5816	7.8	306.042	20.26051
Ba 389.178	0.2611	ppb	0.5376	205.9	-27.6503	0.26111
Be 313.042	0.0400	ppb	0.0065	16.3	-251.128	0.03998
Ca 370.602	1.009	ppb	2.722	269.8	-1.227	1.00913
Cd 226.502	0.0897	ppb	0.1391	155.0	12.5989	0.08974
Co 228.615	-0.0214	ppb	0.0825	386.1	4.1457	-0.02137
Cr 267.716	-0.0146	ppb	0.1106	757.5	10.5818	-0.01460
Cu 324.754	1.0779	ppb	0.4081	37.9	-62.9948	1.07793
Fe 271.441	0.5487	ppb	2.3007	419.3	0.2914	0.54874
K 766.491	0.4448	ppb	0.5001	112.4	238.360	0.44485
Mg 279.078	1.5904	ppb	3.2868	206.7	25.4543	1.59038
Mn 257.610	1.7004	ppb	0.0181	1.1	813.015	1.70042
Mo 202.032	1.1516	ppb	0.0607	5.3	19.4739	1.15164
Na 330.237	-89.8610	ppb	144.135	160.4	-7.0506	-89.86096
Ni 231.604	-0.0680	ppb	0.9477	1393.7	0.3128	-0.06800
Pb 220.353	-1.2527	ppb	1.4953	119.4	-0.3066	-1.25275
Sb 206.834	-0.5556	ppb	3.3190	597.4	2.3558	-0.55557
Se 196.026	-1.2749	ppb	6.4538	506.2	0.3683	-1.27492
Sn 189.925	0.8011	ppb	1.8490	230.8	-0.9045	0.80110
Sr 216.596	0.4306	ppb	0.5367	124.6	14.9630	0.43057
Ti 334.941	0.2067	ppb	0.0443	21.4	-61.4379	0.20672
Tl 190.794	2.0818	ppb	2.3176	111.3	-1.0793	2.08179
V 292.401	0.3707	ppb	0.1270	34.3	9.7733	0.37074
Zn 206.200	0.0440	ppb	0.7509	1708.5	1.8738	0.04395

E04052013.vvq. All Data Report 4/8/2013, 10:52:27 AM

**CRI (CRI)** **4/5/2013, 11:07:27 AM** **Rack S, Tube 4**  
**Weight: 1** **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	9.9838	10.7313	10.7553
Al 308.215	208.629	213.251	214.238
As 188.980	19.9032	13.6186	15.1630
B 249.678	106.027	105.804	107.490
Ba 389.178	10.3935	11.5210	11.4401
Be 313.042	4.3423	4.3392	4.3626
Ca 370.602	518.6	518.5	518.5
Cd 226.502	5.4395	5.6452	5.4244
Co 228.615	10.9778	10.8047	10.8744
Cr 267.716	10.6411	10.4575	10.7887
Cu 324.754	22.1386	21.6256	21.1045
Fe 271.441	54.4827	50.0592	50.8871
K 766.491	1079.71	1079.39	1087.40
Mg 279.078	513.904	517.497	522.788
Mn 257.610	10.2480	10.2751	10.2971
Mo 202.032	10.1391	10.9260	10.8511
Na 330.237	945.060	898.646	1025.50
Ni 231.604	43.7116	42.6801	42.4474
Pb 220.353	11.8422	9.2391	11.3870
Sb 206.834	19.9446	18.4549	21.0674
Se 196.026	24.5600	22.5630	21.1260
Sn 189.925	51.7398	54.9912	54.0070
Sr 216.596	10.4884	10.6835	10.5983
Ti 334.941	10.2060	10.2470	10.1784
Tl 190.794	26.5250	24.6345	27.5150
V 292.401	10.8413	10.7441	10.3716
Zn 206.200	22.4450	19.1722	20.5720

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	10.4901	ppb	0.4387	4.2	768.345	104.90105
Al 308.215	212.039	ppb	2.9941	1.4	766.237	106.01968
As 188.980	16.2283	ppb	3.2749	20.2	14.4567	81.14140
B 249.678	106.440	ppb	0.9157	0.9	1353.05	106.44006
Ba 389.178	11.1182	ppb	0.6289	5.7	271.189	111.18165
Be 313.042	4.3480	ppb	0.0127	0.3	8816.15	108.70111
Ca 370.602	518.5	ppb	0.0931	0.0	2047	103.70493
Cd 226.502	5.5030	ppb	0.1234	2.2	263.986	110.06027
Co 228.615	10.8856	ppb	0.0871	0.8	147.920	108.85643
Cr 267.716	10.6291	ppb	0.1659	1.6	566.399	106.29082
Cu 324.754	21.6229	ppb	0.5171	2.4	1004.01	108.11447
Fe 271.441	51.8097	ppb	2.3517	4.5	107.796	103.61934
K 766.491	1082.17	ppb	4.5346	0.4	58400.4	108.21694
Mg 279.078	518.063	ppb	4.4690	0.9	1372.97	103.61261
Mn 257.610	10.2734	ppb	0.0246	0.2	3171.79	102.73378
Mo 202.032	10.6387	ppb	0.4343	4.1	100.463	106.38717
Na 330.237	956.401	ppb	64.1813	6.7	56.1577	95.64007
Ni 231.604	42.9464	ppb	0.6729	1.6	145.074	107.36588
Pb 220.353	10.8228	ppb	1.3902	12.8	27.0201	108.22797
Sb 206.834	19.8223	ppb	1.3105	6.6	24.3972	99.11147
Se 196.026	22.7497	ppb	1.7246	7.6	14.5975	113.74831
Sn 189.925	53.5793	ppb	1.6674	3.1	52.6639	107.15862
Sr 216.596	10.5900	ppb	0.0978	0.9	149.473	105.90047
Ti 334.941	10.2104	ppb	0.0345	0.3	2835.92	102.10443
Tl 190.794	26.2248	ppb	1.4636	5.6	29.9688	104.89938
V 292.401	10.6523	ppb	0.2479	2.3	331.814	106.52333
Zn 206.200	20.7297	ppb	1.6421	7.9	42.1550	103.64862

E04052013.vvq. All Data Report 4/8/2013, 10:52:27 AM

**Interf Check A (ICSA) 4/5/2013, 11:13:53 AM Rack S, Tube 5**  
**Weight: 1 Volume: 1 Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.1821	0.3675	0.2677
Al 308.215	541755	537606	532915
As 188.980	0.4936	-9.6672u	9.3854
B 249.678	-11.1637u	-14.0228u	-12.6245u
Ba 389.178	5.7362	5.1398	4.3518
Be 313.042	-0.1393u	-0.1357u	-0.1527u
Ca 370.602	490260	489679	485532
Cd 226.502	1.1894	1.2537	0.7468
Co 228.615	1.2027	1.9707	2.9997
Cr 267.716	0.5746	0.6586	0.7267
Cu 324.754	-0.1094	2.8037	1.3974
Fe 271.441	191989	191216	190206
K 766.491	0.4794	-0.1239u	0.1869
Mg 279.078	532177	529430	526365
Mn 257.610	-4.1712	-4.2319	-4.3763
Mo 202.032	1.6141	1.1522u	1.7347
Na 330.237	-86.1455u	-293.378u	-343.204u
Ni 231.604	1.5107	-0.4713	0.0383
Pb 220.353	1.7166u	-2.6489u	0.6745u
Sb 206.834	3.0549	5.8273	-1.1130
Se 196.026	-5.7362u	-10.1932u	3.4897
Sn 189.925	0.6433	-2.8670u	-3.8564u
Sr 216.596	2.7901	2.1681	2.3548
Ti 334.941	0.2534	0.2211	0.0558
Tl 190.794	-5.7859u	-7.1299u	-1.5489u
V 292.401	-1.2867u	-1.3918u	-1.7583u
Zn 206.200	20.5017	20.1878	17.1501

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.2724	ppb	0.0928	34.1	-81.7433	0.27243
Al 308.215	537425	ppb	4422.58	0.8	1927319	-
As 188.980	0.0706	ppb	9.5333	13499.2	4.9874	0.07062
B 249.678	-12.6037	ppb	1.4296	11.3	-324.560	-12.60366
Ba 389.178	5.0760	ppb	0.6944	13.7	2056.85	5.07595
Be 313.042	-0.1426	ppb	0.0090	6.3	-417.779	-0.14258
Ca 370.602	488490	ppb	2578	0.5	1916126	-
Cd 226.502	1.0633	ppb	0.2760	26.0	643.448	1.06331
Co 228.615	2.0577	ppb	0.9016	43.8	24.4066	2.05771
Cr 267.716	0.6533	ppb	0.0762	11.7	100.090	0.65332
Cu 324.754	1.3639	ppb	1.4568	106.8	10.5662	1.36390
Fe 271.441	191137	ppb	894.570	0.5	392685	-
K 766.491	0.1808	ppb	0.3017	166.9	224.161	0.18078
Mg 279.078	529324	ppb	2907.67	0.5	1381161	-
Mn 257.610	-4.2598	ppb	0.1053	2.5	4925.25	-4.25981
Mo 202.032	1.5003	ppb	0.3075	20.5	11.1869	1.50032
Na 330.237	-240.909	ppb	136.325	56.6	-83.9804	-240.90906
Ni 231.604	0.3592	ppb	1.0293	286.5	7.0701	0.35922
Pb 220.353	-0.0859	ppb	2.2799	2653.0	-10.3726	-0.08594
Sb 206.834	2.5897	ppb	3.4935	134.9	10.4705	2.58974
Se 196.026	-4.1466	ppb	6.9786	168.3	0.0117	-4.14658
Sn 189.925	-2.0267	ppb	2.3646	116.7	-3.5312	-2.02671
Sr 216.596	2.4377	ppb	0.3192	13.1	200.289	2.43765
Ti 334.941	0.1768	ppb	0.1060	60.0	2446.02	0.17677
Tl 190.794	-4.8216	ppb	2.9128	60.4	-32.3006	-4.82159
V 292.401	-1.4789	ppb	0.2476	16.7	-45.2020	-1.47894
Zn 206.200	19.2799	ppb	1.8511	9.6	40.2939	19.27988



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**Interf Check AB (ICSAB) 4/5/2013, 11:20:19 AM Rack S, Tube 6**  
**Weight: 1 Volume: 1 Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	220.588	220.894	223.258
Al 308.215	546902	548412	549565
As 188.980	107.841	111.883	111.305
B 249.678	-16.1050u	-15.4716u	-16.1568u
Ba 389.178	528.250	531.673	532.202
Be 313.042	515.106	515.783	516.042
Ca 370.602	496646	495350	497242
Cd 226.502	1011.71	1008.71	1009.18
Co 228.615	495.969	493.904	501.574
Cr 267.716	526.864	527.870	528.460
Cu 324.754	553.667	551.738	559.668
Fe 271.441	194423	193797	193756
K 766.491	0.4525	1.1345	1.8051
Mg 279.078	538137	540127	538317
Mn 257.610	511.305	509.646	509.897
Mo 202.032	1083.66	1087.47	1089.65
Na 330.237	-83.4697u	-346.505u	-249.380u
Ni 231.604	973.349	976.437	975.476
Pb 220.353	51.0274	49.0960	48.1699
Sb 206.834	625.414	642.467	640.142
Se 196.026	48.4304	42.9643	42.9618
Sn 189.925	1038.44	1052.44	1039.79
Sr 216.596	3.7987	5.2036	3.5908
Ti 334.941	-6.1123	-6.0784	-6.1141
Tl 190.794	91.1067	78.6100	82.8289
V 292.401	499.695	498.409	498.264
Zn 206.200	991.434	997.267	998.005

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	221.580	ppb	1.4612	0.7	18168.3	110.78989
Al 308.215	548293	ppb	1335.57	0.2	1966377	109.65858
As 188.980	110.343	ppb	2.1859	2.0	87.1230	110.34317
B 249.678	-15.9111	ppb	0.3815	2.4	-368.505	-
Ba 389.178	530.709	ppb	2.1454	0.4	16481.9	106.14176
Be 313.042	515.643	ppb	0.4835	0.1	1085213	103.12868
Ca 370.602	496413	ppb	967.1	0.2	1947225	99.28253
Cd 226.502	1009.87	ppb	1.6118	0.2	47472.2	100.98653
Co 228.615	497.149	ppb	3.9691	0.8	6513.24	99.42976
Cr 267.716	527.731	ppb	0.8073	0.2	27615.3	105.54623
Cu 324.754	555.024	ppb	4.1354	0.7	28787.0	111.00487
Fe 271.441	193992	ppb	373.508	0.2	398649	96.99595
K 766.491	1.1307	ppb	0.6763	59.8	275.237	-
Mg 279.078	538860	ppb	1100.87	0.2	1406035	107.77206
Mn 257.610	510.283	ppb	0.8942	0.2	146290	102.05653
Mo 202.032	1086.93	ppb	3.0304	0.3	9278.94	108.69253
Na 330.237	-226.452	ppb	133.008	58.7	-92.7190	-
Ni 231.604	975.087	ppb	1.5802	0.2	3287.50	97.50871
Pb 220.353	49.4311	ppb	1.4579	2.9	99.6324	98.86226
Sb 206.834	636.008	ppb	9.2478	1.5	689.236	106.00126
Se 196.026	44.7855	ppb	3.1566	7.0	29.1621	89.57101
Sn 189.925	1043.56	ppb	7.7236	0.7	1057.70	104.35570
Sr 216.596	4.1977	ppb	0.8773	20.9	156.770	-
Ti 334.941	-6.1016	ppb	0.0201	0.3	674.236	-
Tl 190.794	84.1819	ppb	6.3573	7.6	80.9148	84.18186
V 292.401	498.789	ppb	0.7873	0.2	15475.6	99.75784
Zn 206.200	995.569	ppb	3.5995	0.4	1988.52	99.55688

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LRA1 (Samp) 4/5/2013, 11:26:46 AM Rack S, Tube 7  
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.3411	0.3841	0.4293
Al 308.215	81.1545	81.6818	100.614
As 188.980	19558.7x	19749.1x	20050.7x
B 249.678	4952.16	4992.75	5033.20
Ba 389.178	-1.6392u	-1.7489u	-0.9307u
Be 313.042	0.1550	0.1608	0.1710
Ca 370.602	513.6	521.5	559.4
Cd 226.502	-0.6484u	-0.5735u	-0.6133u
Co 228.615	10451.9	10471.4	10524.2
Cr 267.716	0.9725	1.0616	0.9663
Cu 324.754	37.6877	37.7364	37.8516
Fe 271.441	-192.042	-194.496	-186.301
K 766.491	33.9579	34.3360	35.2622
Mg 279.078	71.7595u	75.4207u	87.4411u
Mn 257.610	28345.3x	28432.6x	28419.2x
Mo 202.032	1.9554	1.2446	1.2713
Na 330.237	104003x	104260x	104574x
Ni 231.604	10312.6x	10323.0x	10353.2x
Pb 220.353	19834.7x	19865.1x	19879.3x
Sb 206.834	11.4157	12.9641	6.8135
Se 196.026	6.9435	0.7215	12.8538
Sn 189.925	6.7694	4.0557	4.1647
Sr 216.596	-1.0248u	-0.6446u	-0.8834u
Ti 334.941	31944.8	32050.6	32189.2
Tl 190.794	100.701	95.6564	101.559
V 292.401	-2.1382	-2.6305	-2.2947
Zn 206.200	25.4877	25.5042	24.2140

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.3848b	ppb	0.0441	11.5	80.8894
Al 308.215	87.8169b	ppb	11.0860	12.6	319.895
As 188.980	19786.2xb	ppb	248.094	1.3	14798.5
B 249.678	4992.71b	ppb	40.5200	0.8	60719.4
Ba 389.178	-1.4396b	ppb	0.4441	30.8	-73.1731
Be 313.042	0.1623b	ppb	0.0081	5.0	-26.6906
Ca 370.602	531.5b	ppb	24.48	4.6	10369
Cd 226.502	-0.6117b	ppb	0.0375	6.1	-17.7442
Co 228.615	10482.5b	ppb	37.3974	0.4	139204
Cr 267.716	1.0002b	ppb	0.0533	5.3	266.496
Cu 324.754	37.7586b	ppb	0.0841	0.2	1841.61
Fe 271.441	-190.946b	ppb	4.2059	2.2	1568.03
K 766.491	34.5187b	ppb	0.6711	1.9	2070.44
Mg 279.078	78.2071b	ppb	8.2037	10.5	-340.448
Mn 257.610	28399.0xb	ppb	46.9930	0.2	7796986
Mo 202.032	1.4904b	ppb	0.4029	27.0	22.2809
Na 330.237	104279xb	ppb	285.693	0.3	6034.27
Ni 231.604	10329.6xb	ppb	21.0938	0.2	34763.6
Pb 220.353	19859.7xb	ppb	22.7538	0.1	44977.8
Sb 206.834	10.3978b	ppb	3.1992	30.8	14.2292
Se 196.026	6.8396b	ppb	6.0668	88.7	13.6289
Sn 189.925	4.9966b	ppb	1.5363	30.7	3.3977
Sr 216.596	-0.8509b	ppb	0.1922	22.6	-219.414
Ti 334.941	32061.5b	ppb	122.570	0.4	9278277
Tl 190.794	99.3052b	ppb	3.1890	3.2	77.2775
V 292.401	-2.3544b	ppb	0.2516	10.7	503.152
Zn 206.200	25.0686b	ppb	0.7402	3.0	51.8554

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LRA2 (Samp) 4/5/2013, 11:33:13 AM Rack S, Tube 8

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.8825	0.1226u	-0.6200u
Al 308.215	839288	839168	840840
As 188.980	48.6181	34.7596	39.3125
B 249.678	14.4038u	6.8341u	-1.0285u
Ba 389.178	15.8333	16.5250	17.2476
Be 313.042	-0.0774	-0.0587	-0.0755
Ca 370.602	747356	748100	750690
Cd 226.502	4.0967	4.3202	4.7643
Co 228.615	12.0647	11.6396	13.1179
Cr 267.716	7.8921	8.0032	8.8721
Cu 324.754	6.9550	6.8010	7.4509
Fe 271.441	866346	871753	869536
K 766.491	341498x	341807x	340184x
Mg 279.078	813381	814274	815950
Mn 257.610	10.0071	10.1728	10.3357
Mo 202.032	3.6884u	3.8027u	2.8104u
Na 330.237	-279.844u	-277.414u	-30.6182u
Ni 231.604	7.5349	3.2212	2.9065
Pb 220.353	12.0232	17.2316	15.7583
Sb 206.834	12.5540	11.7379	7.1497
Se 196.026	-20.0190u	3.6576	-32.7172u
Sn 189.925	-0.3675u	2.7808	4.6600
Sr 216.596	10.5230	9.0339	11.8029
Ti 334.941	9.2112	8.9248	8.9486
Tl 190.794	-28.5020u	-24.7869u	-37.8175u
V 292.401	0.3866	0.5867	0.5835
Zn 206.200	27523.8	27586.2	27718.4

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1283b	ppb	0.7513	585.4	-100.987
Al 308.215	839765b	ppb	932.941	0.1	3011570
As 188.980	40.8967b	ppb	7.0638	17.3	29.7989
B 249.678	6.7365b	ppb	7.7166	114.5	-909.942
Ba 389.178	16.5353b	ppb	0.7072	4.3	4384.24
Be 313.042	-0.0705b	ppb	0.0103	14.6	-177.882
Ca 370.602	748715b	ppb	1750	0.2	2878542
Cd 226.502	4.3938b	ppb	0.3398	7.7	2852.09
Co 228.615	12.2740b	ppb	0.7611	6.2	133.445
Cr 267.716	8.2558b	ppb	0.5366	6.5	673.875
Cu 324.754	7.0690b	ppb	0.3396	4.8	515.204
Fe 271.441	869212b	ppb	2718.00	0.3	1785774
K 766.491	341163xb	ppb	861.923	0.3	18343822
Mg 279.078	814535b	ppb	1303.92	0.2	2125472
Mn 257.610	10.1719b	ppb	0.1643	1.6	13850.3
Mo 202.032	3.4339b	ppb	0.5429	15.8	-12.3062
Na 330.237	-195.958b	ppb	143.194	73.1	-563.494
Ni 231.604	4.5542b	ppb	2.5861	56.8	39.3737
Pb 220.353	15.0043b	ppb	2.6848	17.9	16.6659
Sb 206.834	10.4805b	ppb	2.9133	27.8	35.7639
Se 196.026	-16.3595b	ppb	18.4615	112.8	-2.4560
Sn 189.925	2.3578b	ppb	2.5403	107.7	1.0297
Sr 216.596	10.4533b	ppb	1.3858	13.3	684.201
Ti 334.941	9.0282b	ppb	0.1589	1.8	6430.34
Tl 190.794	-30.3688b	ppb	6.7129	22.1	-144.423
V 292.401	0.5189b	ppb	0.1146	22.1	19.3873
Zn 206.200	27609.5b	ppb	99.3424	0.4	55156.0

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RINSE (Samp) 4/5/2013, 11:39:39 AM Rack S, Tube 1

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.5111	0.7891	0.7098
Al 308.215	71.0885	123.648	157.586
As 188.980	8.4964	6.4344	7.3613
B 249.678	27.2553	25.9953	24.7468
Ba 389.178	0.2741	-0.0981u	0.8184
Be 313.042	0.0455	0.0512	0.0459
Ca 370.602	95.03	150.9	178.0
Cd 226.502	0.2446	0.0497	0.0755
Co 228.615	-0.6797u	0.2641	0.4141
Cr 267.716	0.1026	-0.4401u	0.0197
Cu 324.754	0.5303	0.7209	1.1812
Fe 271.441	100.956	152.845	194.362
K 766.491	67.7469	99.4972	109.162
Mg 279.078	86.8931	136.256	167.824
Mn 257.610	4.1495	5.6207	6.4749
Mo 202.032	-0.0688u	0.0231	0.2101
Na 330.237	-39.2324u	-49.0457u	59.1048
Ni 231.604	-1.1803u	0.1337	0.9475
Pb 220.353	1.1359	-1.7073u	0.7611
Sb 206.834	-2.2624u	-1.7092u	3.6412
Se 196.026	-1.1878u	-0.9333u	-3.9701u
Sn 189.925	0.6315	-0.5805u	2.4820
Sr 216.596	0.4195	0.6346	0.5008
Ti 334.941	1.4926	1.9904	2.1360
Tl 190.794	2.3755	2.9381	3.0200
V 292.401	0.1151	0.2163	0.3657
Zn 206.200	2.7022	4.8918	6.2413

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.6700	ppb	0.1432	21.4	-40.8320
Al 308.215	117.441	ppb	43.5814	37.1	426.232
As 188.980	7.4307	ppb	1.0327	13.9	7.8762
B 249.678	25.9992	ppb	1.2543	4.8	375.588
Ba 389.178	0.3315	ppb	0.4610	139.1	-25.0895
Be 313.042	0.0475	ppb	0.0032	6.7	-235.076
Ca 370.602	141.3	ppb	42.32	29.9	540.4
Cd 226.502	0.1233	ppb	0.1058	85.9	14.5997
Co 228.615	-0.0005	ppb	0.5930	121360.5	4.4993
Cr 267.716	-0.1059	ppb	0.2923	275.9	5.8742
Cu 324.754	0.8108	ppb	0.3346	41.3	-76.8451
Fe 271.441	149.388	ppb	46.7986	31.3	306.134
K 766.491	92.1353	ppb	21.6668	23.5	5168.36
Mg 279.078	130.324	ppb	40.7900	31.3	361.306
Mn 257.610	5.4150	ppb	1.1763	21.7	1834.54
Mo 202.032	0.0548	ppb	0.1421	259.3	10.0991
Na 330.237	-9.7245	ppb	59.8095	615.0	-2.2942
Ni 231.604	-0.0330	ppb	1.0737	3252.9	0.4345
Pb 220.353	0.0632	ppb	1.5447	2443.5	2.6736
Sb 206.834	-0.1101	ppb	3.2605	2960.3	2.8534
Se 196.026	-2.0304	ppb	1.6846	83.0	-0.0769
Sn 189.925	0.8443	ppb	1.5423	182.7	-0.8606
Sr 216.596	0.5183	ppb	0.1086	21.0	16.2791
Ti 334.941	1.8730	ppb	0.3374	18.0	421.385
Tl 190.794	2.7778	ppb	0.3509	12.6	-0.2074
V 292.401	0.2324	ppb	0.1261	54.3	5.6407
Zn 206.200	4.6117	ppb	1.7861	38.7	10.9988

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Cont Calib Verif (CCV) 4/5/2013, 11:51:29 AM Rack 1, Tube 1  
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	501.191	507.107	506.547
Al 308.215	4967.67	5029.37	5005.33
As 188.980	497.519	495.390	485.967
B 249.678	513.789	517.917	516.963
Ba 389.178	4780.24	4842.44	4826.20
Be 313.042	483.229	489.055	487.450
Ca 370.602	4872	4943	4921
Cd 226.502	479.509	485.114	483.244
Co 228.615	484.917	491.969	489.544
Cr 267.716	4910.97	4966.79	4937.10
Cu 324.754	4744.55	4890.37	4813.70
Fe 271.441	4897.11	4957.28	4926.43
K 766.491	9873.64	10017.2	9978.21
Mg 279.078	4882.68	4940.77	4907.39
Mn 257.610	4825.76	4889.29	4863.75
Mo 202.032	492.897	498.142	495.066
Na 330.237	7118.03	7017.14	7133.02
Ni 231.604	2371.65	2437.33	2413.97
Pb 220.353	492.184	497.058	492.268
Sb 206.834	977.283	988.067	984.907
Se 196.026	4890.71	4978.07	4931.68
Sn 189.925	4971.85	5052.13	4996.19
Sr 216.596	2411.95	2437.84	2423.92
Ti 334.941	492.854	499.379	497.111
Tl 190.794	4943.99	4993.00	4956.25
V 292.401	4855.19	4913.81	4890.63
Zn 206.200	2435.60	2450.59	2449.34

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	504.948	ppb	3.2661	0.6	41470.1	100.98965
Al 308.215	5000.79	ppb	31.0989	0.6	17925.3	100.01581
As 188.980	492.959	ppb	6.1480	1.2	370.788	98.59175
B 249.678	516.223	ppb	2.1611	0.4	6325.86	20.64893Q
Ba 389.178	4816.29	ppb	32.2636	0.7	131790	96.32585
Be 313.042	486.578	ppb	3.0096	0.6	1023728	97.31559
Ca 370.602	4912	ppb	36.48	0.7	19293	98.23790
Cd 226.502	482.622	ppb	2.8541	0.6	22422.4	96.52449
Co 228.615	488.810	ppb	3.5828	0.7	6461.15	97.76192
Cr 267.716	4938.29	ppb	27.9293	0.6	257892	98.76580
Cu 324.754	4816.21	ppb	72.9433	1.5	249934	96.32417
Fe 271.441	4926.94	ppb	30.0862	0.6	10267.8	98.53878
K 766.491	9956.34	ppb	74.2285	0.7	535546	99.56342
Mg 279.078	4910.28	ppb	29.1522	0.6	12737.1	98.20560
Mn 257.610	4859.60	ppb	31.9667	0.7	1334559	97.19200
Mo 202.032	495.369	ppb	2.6357	0.5	4228.71	99.07372
Na 330.237	7089.40	ppb	63.0227	0.9	400.998	94.52532
Ni 231.604	2407.65	ppb	33.2933	1.4	8103.37	96.30601
Pb 220.353	493.837	ppb	2.7899	0.6	1121.24	98.76736
Sb 206.834	983.419	ppb	5.5441	0.6	1115.89	98.34191
Se 196.026	4933.49	ppb	43.7110	0.9	2924.01	98.66975
Sn 189.925	5006.73	ppb	41.1619	0.8	5079.91	100.13451
Sr 216.596	2424.57	ppb	12.9594	0.5	32337.7	96.98277
Ti 334.941	496.448	ppb	3.3128	0.7	143571	99.28964
Tl 190.794	4964.41	ppb	25.5065	0.5	6376.64	99.28823
V 292.401	4886.55	ppb	29.5225	0.6	153911	97.73092
Zn 206.200	2445.18	ppb	8.3203	0.3	4867.14	97.80712

E04052013.vvq. All Data Report 4/8/2013, 10:52:27 AM

Cont Calib Blank (CCB) 4/5/2013, 11:58:04 AM Rack 1, Tube 2

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.0355u	0.6615	-0.3614u
Al 308.215	-0.5693u	2.2330	-1.5288u
As 188.980	-1.2983u	1.3037	0.0077
B 249.678	13.1961	12.5514	12.0011
Ba 389.178	0.4862	0.9505	0.6241
Be 313.042	0.0251	0.0560	0.0648
Ca 370.602	0.1092	7.019	2.813
Cd 226.502	0.0686	0.0738	0.0824
Co 228.615	-0.8606u	0.1535	-0.2278u
Cr 267.716	0.1509	0.2868	0.6907
Cu 324.754	1.1209	1.3370	1.5434
Fe 271.441	4.6215	0.3711	8.8173
K 766.491	2.4250	3.9530	4.8339
Mg 279.078	5.2145	-0.0059u	5.2499
Mn 257.610	-0.3289u	0.1628	0.6523
Mo 202.032	0.6464	0.8905	0.5487
Na 330.237	-42.8247u	45.6908	28.3123
Ni 231.604	0.4083	0.6389	-0.1528u
Pb 220.353	-1.0470u	0.1632	-0.3088u
Sb 206.834	4.1953	-3.8810u	-0.8090u
Se 196.026	6.6715	4.7219	-2.9555u
Sn 189.925	1.9617	-1.2298u	2.9201
Sr 216.596	-0.4183u	0.1920	-0.1793u
Ti 334.941	0.1808	0.3122	0.2305
Tl 190.794	2.1753	5.2605	5.1253
V 292.401	0.3728	0.3451	1.0442
Zn 206.200	-0.1842u	0.9162	0.5564

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.0882	ppb	0.5226	592.4	-88.7873	0.08820
Al 308.215	0.0450	ppb	1.9547	4345.8	5.2552	0.04498
As 188.980	0.0044	ppb	1.3010	29800.6	2.3230	0.00437
B 249.678	12.5829	ppb	0.5981	4.8	212.756	12.58286
Ba 389.178	0.6870	ppb	0.2384	34.7	-15.9884	0.68695
Be 313.042	0.0486	ppb	0.0209	42.9	-232.850	0.04863
Ca 370.602	3.314	ppb	3.482	105.1	7.519	3.31382
Cd 226.502	0.0750	ppb	0.0069	9.3	11.9226	0.07495
Co 228.615	-0.3116	ppb	0.5122	164.4	0.3397	-0.31163
Cr 267.716	0.3761	ppb	0.2808	74.6	30.9818	0.37614
Cu 324.754	1.3338	ppb	0.2113	15.8	-49.7266	1.33376
Fe 271.441	4.6033	ppb	4.2231	91.7	8.5607	4.60330
K 766.491	3.7373	ppb	1.2188	32.6	415.388	3.73730
Mg 279.078	3.4862	ppb	3.0242	86.7	30.4301	3.48618
Mn 257.610	0.1621	ppb	0.4906	302.7	390.712	0.16208
Mo 202.032	0.6952	ppb	0.1760	25.3	15.5755	0.69521
Na 330.237	10.3928	ppb	46.8996	451.3	-0.9708	10.39281
Ni 231.604	0.2981	ppb	0.4072	136.6	1.5450	0.29812
Pb 220.353	-0.3975	ppb	0.6099	153.4	1.6315	-0.39753
Sb 206.834	-0.1649	ppb	4.0765	2471.8	2.7887	-0.16492
Se 196.026	2.8127	ppb	5.0896	181.0	2.7883	2.81266
Sn 189.925	1.2173	ppb	2.1728	178.5	-0.4821	1.21731
Sr 216.596	-0.1352	ppb	0.3075	227.4	7.4290	-0.13521
Ti 334.941	0.2411	ppb	0.0663	27.5	-51.4712	0.24114
Tl 190.794	4.1870	ppb	1.7435	41.6	1.6319	4.18704
V 292.401	0.5874	ppb	0.3958	67.4	16.7119	0.58735
Zn 206.200	0.4294	ppb	0.5611	130.7	2.6426	0.42945

E04052013.vvq. All Data Report 4/8/2013, 10:52:27 AM

640-42729-a-12-b^5 (Samp) 4/5/2013, 12:04:28 PM Rack 1, Tube 3  
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.8737u	0.3017u	0.8290u
Al 308.215	69.2237	63.8305	69.3793
As 188.980	-1.9805	-1.7944	2.1746
B 249.678	43.6588	43.5907	43.1052
Ba 389.178	15.3339	15.2768	15.1607
Be 313.042	0.0540	0.0447	0.0522
Ca 370.602	208605	205296	202063
Cd 226.502	-0.0788u	0.1250	0.2427
Co 228.615	-0.3429u	-0.1727u	0.2493
Cr 267.716	4.3157	4.4761	4.4629
Cu 324.754	-0.0680u	-0.4871u	-0.0547u
Fe 271.441	235.212	228.717	227.303
K 766.491	16010.0	15716.7	15522.6
Mg 279.078	9215.81	9056.63	8928.10
Mn 257.610	14.2935	14.0422	13.9338
Mo 202.032	19.2111	19.6025	19.0944
Na 330.237	23654.9	23317.3	22830.1
Ni 231.604	10.0087	10.7847	9.2941
Pb 220.353	0.1668	-2.3421u	1.0820
Sb 206.834	-5.0861u	-0.9493u	-0.9563u
Se 196.026	-4.9114u	-8.4250u	3.8143
Sn 189.925	-0.9779u	0.5264	0.2486
Sr 216.596	1658.78	1629.81	1604.70
Ti 334.941	0.8436	0.8277	0.8365
Tl 190.794	1.2966	2.6664	1.4898
V 292.401	3.8658	3.6531	3.6785
Zn 206.200	4.3290	2.7309	3.6752

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.6681	ppb	0.3181	47.6	-120.729
Al 308.215	67.4778	ppb	3.1596	4.7	248.559
As 188.980	-0.5334	ppb	2.3471	440.0	3.9823
B 249.678	43.4516	ppb	0.3019	0.7	587.562
Ba 389.178	15.2571	ppb	0.0883	0.6	411.050
Be 313.042	0.0503	ppb	0.0049	9.8	-158.480
Ca 370.602	205321	ppb	3271	1.6	813484
Cd 226.502	0.0963	ppb	0.1626	168.9	13.5811
Co 228.615	-0.0887	ppb	0.3049	343.6	2.6159
Cr 267.716	4.4182	ppb	0.0891	2.0	242.641
Cu 324.754	-0.2033	ppb	0.2458	120.9	-128.978
Fe 271.441	230.411	ppb	4.2175	1.8	472.579
K 766.491	15749.8	ppb	245.384	1.6	847047
Mg 279.078	9066.85	ppb	144.129	1.6	23681.3
Mn 257.610	14.0898	ppb	0.1845	1.3	4305.53
Mo 202.032	19.3027	ppb	0.2661	1.4	174.455
Na 330.237	23267.4	ppb	414.659	1.8	1410.44
Ni 231.604	10.0292	ppb	0.7455	7.4	34.2999
Pb 220.353	-0.3645	ppb	1.7728	486.4	1.6755
Sb 206.834	-2.3306	ppb	2.3864	102.4	0.2280
Se 196.026	-3.1740	ppb	6.3019	198.5	-0.7509
Sn 189.925	-0.0676	ppb	0.8004	1183.2	-1.6722
Sr 216.596	1631.10	ppb	27.0606	1.7	21829.4
Ti 334.941	0.8359	ppb	0.0079	0.9	160.872
Tl 190.794	1.8176	ppb	0.7414	40.8	-1.4784
V 292.401	3.7325	ppb	0.1162	3.1	111.579
Zn 206.200	3.5784	ppb	0.8934	22.5	489173

E04052013.vvq. All Data Report 4/8/2013, 10:52:27 AM

640-42729-a-13-a^5 (Samp) 4/5/2013, 12:10:52 PM Rack 1, Tube 4

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.0797u	0.0316u	-0.4394u
Al 308.215	27.4610	30.6449	23.3091
As 188.980	-6.0431u	-5.9175u	-4.1908u
B 249.678	10.4856	9.4260	10.3206
Ba 389.178	33.5005	33.2424	31.6822
Be 313.042	-0.0141	-0.0147	-0.0233
Ca 370.602	236686	232911	227686
Cd 226.502	-0.2050u	-0.0629u	-0.0128u
Co 228.615	-0.2135u	0.2060	0.6516
Cr 267.716	0.6078	0.3180	0.2971
Cu 324.754	0.1197	-0.1656u	-0.3530u
Fe 271.441	33.3024	33.9439	33.3987
K 766.491	283.615	276.928	272.083
Mg 279.078	1470.60	1440.29	1414.51
Mn 257.610	14.8918	14.6155	14.3039
Mo 202.032	2.1153	1.6006	1.9106
Na 330.237	1190.81	1286.94	1389.63
Ni 231.604	1.1182	0.7463	0.9834
Pb 220.353	-0.5983u	-0.8994u	1.4637
Sb 206.834	-0.9611u	-0.3846u	-4.1855u
Se 196.026	-7.9214u	-3.2924u	3.7405
Sn 189.925	1.2983	-0.0175	1.8971
Sr 216.596	874.199	854.994	834.187
Ti 334.941	0.7525	0.6801	0.7439
Tl 190.794	-0.2136u	1.4549	3.4110
V 292.401	0.3307	-0.1190u	-0.0221u
Zn 206.200	0.7077	1.2752	1.5104

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1094	ppb	0.2868	262.2	-147.317
Al 308.215	27.1383	ppb	3.6785	13.6	102.518
As 188.980	-5.3838	ppb	1.0351	19.2	0.6425
B 249.678	10.0774	ppb	0.5701	5.7	182.290
Ba 389.178	32.8084	ppb	0.9838	3.0	867.406
Be 313.042	-0.0174	ppb	0.0052	29.6	-283.182
Ca 370.602	232427	ppb	4519	1.9	920902
Cd 226.502	-0.0936	ppb	0.0997	106.6	4.1791
Co 228.615	0.2147	ppb	0.4326	201.5	7.2492
Cr 267.716	0.4076	ppb	0.1737	42.6	32.7346
Cu 324.754	-0.1329	ppb	0.2380	179.0	-125.843
Fe 271.441	33.5483	ppb	0.3459	1.0	68.0723
K 766.491	277.542	ppb	5.7904	2.1	15137.3
Mg 279.078	1441.80	ppb	28.0711	1.9	3783.46
Mn 257.610	14.6037	ppb	0.2941	2.0	4373.05
Mo 202.032	1.8755	ppb	0.2592	13.8	25.6547
Na 330.237	1289.12	ppb	99.4290	7.7	76.6227
Ni 231.604	0.9493	ppb	0.1883	19.8	3.7371
Pb 220.353	-0.0113	ppb	1.2862	11375.1	2.5078
Sb 206.834	-1.8437	ppb	2.0484	111.1	0.9591
Se 196.026	-2.4911	ppb	5.8721	235.7	-0.3479
Sn 189.925	1.0593	ppb	0.9794	92.5	-0.5241
Sr 216.596	854.460	ppb	20.0113	2.3	11455.9
Ti 334.941	0.7255	ppb	0.0396	5.5	95.2883
Tl 190.794	1.5508	ppb	1.8142	117.0	-1.7907
V 292.401	0.0632	ppb	0.2367	374.6	-0.1041
Zn 206.200	1.1644	ppb	0.4126	35.4	471102



E04052013.wvq. All Data Report 4/8/2013, 10:52:27 AM

640-42729-a-14-a^5 (Samp) 4/5/2013, 12:17:17 PM Rack 1, Tube 5  
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.8307u	0.6411u	-0.0277u
Al 308.215	15.1631	9.9281	10.1985
As 188.980	2.2224	-3.8295u	-1.4671
B 249.678	57.2633	56.1620	53.8086
Ba 389.178	22.4549	20.8625	19.3601
Be 313.042	-0.0354u	-0.0216	-0.0346u
Ca 370.602	259268	252187	244972
Cd 226.502	0.0625	0.0022u	0.1989
Co 228.615	1.2601	1.5555	1.6008
Cr 267.716	-0.0639u	-0.0473u	0.2419
Cu 324.754	0.3197	0.4882	0.1971
Fe 271.441	60.1369	62.0994	56.8591
K 766.491	4404.02	4252.00	4105.06
Mg 279.078	9861.78	9584.07	9279.94
Mn 257.610	97.0752	94.2620	91.4228
Mo 202.032	90.9396	89.1894	85.9429
Na 330.237	81785.0	79072.7	76579.3
Ni 231.604	13.4718	12.1414	13.0122
Pb 220.353	-0.8916u	1.4310	-0.9334u
Sb 206.834	-2.7784u	0.3538u	0.1390u
Se 196.026	-1.6038u	0.3191	-3.1673u
Sn 189.925	-2.3417u	2.1751	-0.5519u
Sr 216.596	1642.19	1598.50	1550.59
Ti 334.941	0.5476	0.6240	0.6347
Tl 190.794	-3.3770u	1.8222	0.3300
V 292.401	-1.2774u	-0.8948u	-1.2316u
Zn 206.200	22.9953	21.4417	20.1733

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.4814	ppb	0.4509	93.7	-134.928
Al 308.215	11.7632	ppb	2.9474	25.1	54.5917
As 188.980	-1.0247	ppb	3.0501	297.7	4.0761
B 249.678	55.7447	ppb	1.7648	3.2	737.107
Ba 389.178	20.8925	ppb	1.5476	7.4	566.953
Be 313.042	-0.0305	ppb	0.0077	25.4	-328.939
Ca 370.602	252142	ppb	7148	2.8	999015
Cd 226.502	0.0879	ppb	0.1008	114.7	12.2760
Co 228.615	1.4721	ppb	0.1850	12.6	20.5011
Cr 267.716	0.0435	ppb	0.1719	394.8	15.6596
Cu 324.754	0.3350	ppb	0.1462	43.6	-99.0284
Fe 271.441	59.6985	ppb	2.6476	4.4	122.129
K 766.491	4253.69	ppb	149.489	3.5	228927
Mg 279.078	9575.26	ppb	291.016	3.0	25006.4
Mn 257.610	94.2533	ppb	2.8262	3.0	26318.3
Mo 202.032	88.6906	ppb	2.5354	2.9	767.018
Na 330.237	79145.7	ppb	2603.60	3.3	4801.74
Ni 231.604	12.8751	ppb	0.6757	5.2	43.8730
Pb 220.353	-0.1313	ppb	1.3532	1030.2	2.1016
Sb 206.834	-0.7619	ppb	1.7497	229.7	0.8445
Se 196.026	-1.4840	ppb	1.7463	117.7	0.2726
Sn 189.925	-0.2395	ppb	2.2745	949.7	-1.7978
Sr 216.596	1597.10	ppb	45.8151	2.9	21377.7
Ti 334.941	0.6021	ppb	0.0475	7.9	91.0030
Tl 190.794	-0.4083	ppb	2.6771	655.7	-4.5160
V 292.401	-1.1346	ppb	0.2089	18.4	-58.1290
Zn 206.200	21.5368	ppb	1.4134	6.5	448090

E04052013.vvq. All Data Report 4/8/2013, 10:52:27 AM

640-42729-a-16-a^5 (Samp) 4/5/2013, 12:23:42 PM Rack 1, Tube 6  
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.9871	0.5318u	1.1738
Al 308.215	17.8251	15.0201	21.1152
As 188.980	-2.2960	-0.3867	-6.8337u
B 249.678	74.0757	73.3694	73.8699
Ba 389.178	15.5728	15.6812	15.2569
Be 313.042	-0.0260	-0.0296	-0.0266
Ca 370.602	221941	221058	217242
Cd 226.502	0.0596	0.1393	0.0686
Co 228.615	0.3064	0.7560	0.5803
Cr 267.716	0.0285	0.0272	0.1576
Cu 324.754	2.2812	2.4349	2.3098
Fe 271.441	40.7023	37.5266	49.0019
K 766.491	3467.87	3458.87	3399.29
Mg 279.078	14445.4	14377.6	14194.1
Mn 257.610	75.2629	74.9706	73.8622
Mo 202.032	13.9785	13.9932	14.5219
Na 330.237	22412.0	22472.8	22061.1
Ni 231.604	12.2917	12.3494	12.5158
Pb 220.353	0.3033	-0.6436u	-0.0477u
Sb 206.834	4.0803	-10.8693u	-0.6512u
Se 196.026	6.3819	2.2991	3.9655
Sn 189.925	-0.3123u	-1.0217u	-0.8132u
Sr 216.596	1399.00	1396.48	1373.39
Ti 334.941	0.4031	0.3644	0.4044
Tl 190.794	0.2033	-0.7349u	0.7992
V 292.401	-1.4286u	-0.7453u	-1.1730u
Zn 206.200	17.1477	15.5502	15.7005

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.8976	ppb	0.3302	36.8	-90.0651
Al 308.215	17.9868	ppb	3.0508	17.0	70.7149
As 188.980	-3.1721	ppb	3.3116	104.4	2.1599
B 249.678	73.7716	ppb	0.3633	0.5	956.153
Ba 389.178	15.5037	ppb	0.2204	1.4	433.662
Be 313.042	-0.0274	ppb	0.0020	7.1	-314.795
Ca 370.602	220080	ppb	2497	1.1	871983
Cd 226.502	0.0892	ppb	0.0437	49.0	12.7574
Co 228.615	0.5476	ppb	0.2266	41.4	11.1723
Cr 267.716	0.0711	ppb	0.0749	105.4	15.8739
Cu 324.754	2.3420	ppb	0.0817	3.5	3.0349
Fe 271.441	42.4103	ppb	5.9253	14.0	86.5012
K 766.491	3442.01	ppb	37.2695	1.1	185284
Mg 279.078	14339.0	ppb	130.002	0.9	37438.0
Mn 257.610	74.6986	ppb	0.7389	1.0	20995.5
Mo 202.032	14.1645	ppb	0.3096	2.2	130.599
Na 330.237	22315.3	ppb	222.253	1.0	1352.62
Ni 231.604	12.3856	ppb	0.1163	0.9	42.2252
Pb 220.353	-0.1293	ppb	0.4787	370.1	2.2362
Sb 206.834	-2.4800	ppb	7.6408	308.1	0.0894
Se 196.026	4.2155	ppb	2.0529	48.7	3.6417
Sn 189.925	-0.7157	ppb	0.3646	50.9	-2.3230
Sr 216.596	1389.62	ppb	14.1183	1.0	18604.6
Ti 334.941	0.3906	ppb	0.0228	5.8	56.5819
Tl 190.794	0.0892	ppb	0.7734	867.2	-3.7949
V 292.401	-1.1157	ppb	0.3452	30.9	-40.0672
Zn 206.200	16.1328	ppb	0.8821	5.5	34.0134

E04052013.vvq. All Data Report 4/8/2013, 10:52:27 AM

680-88770-s-3-b^10 (Samp) 4/5/2013, 12:30:08 PM Rack 1, Tube 7  
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.1867	0.4177	0.1733
Al 308.215	0.2135	2.9904	2.4424
As 188.980	1.3822	-0.0911	-2.7238u
B 249.678	11.4036	11.8681	11.6171
Ba 389.178	3.5474	3.3324	3.3285
Be 313.042	-0.0011u	-0.0008u	-0.0032u
Ca 370.602	21182	20781	19966
Cd 226.502	-0.0056u	0.1175	0.1111
Co 228.615	-0.3767u	-0.1119u	-0.4576u
Cr 267.716	-0.2742u	-0.2773u	-0.3844u
Cu 324.754	0.9411	0.6738	0.8440
Fe 271.441	11.6687	5.3198	9.0993
K 766.491	246.674	243.107	233.951
Mg 279.078	10319.7	10110.8	9724.58
Mn 257.610	11.9099	11.6011	11.1711
Mo 202.032	0.6166	0.1594	0.2795
Na 330.237	58812.6	57507.8	55115.4
Ni 231.604	2.0797	0.9323	0.2239
Pb 220.353	1.1942	-0.2588u	-0.3929u
Sb 206.834	-2.9929u	-0.8288u	-3.2287u
Se 196.026	1.2424	-3.9745u	-3.4668u
Sn 189.925	1.2865	0.2007	0.4511
Sr 216.596	71.2713	69.8705	66.2337
Ti 334.941	0.0335	-0.0161	0.0211
Tl 190.794	3.5745	2.2173	4.4882
V 292.401	-0.0119u	-0.3016u	-0.3997u
Zn 206.200	2.8770	1.0580	2.5075

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.2593	ppb	0.1374	53.0	-78.2231
Al 308.215	1.8821	ppb	1.4708	78.1	11.8506
As 188.980	-0.4776	ppb	2.0801	435.6	2.1712
B 249.678	11.6296	ppb	0.2325	2.0	201.167
Ba 389.178	3.4028	ppb	0.1253	3.7	89.2440
Be 313.042	-0.0017	ppb	0.0013	75.1	-338.868
Ca 370.602	20643	ppb	619.6	3.0	81785
Cd 226.502	0.0743	ppb	0.0693	93.2	11.6651
Co 228.615	-0.3154	ppb	0.1808	57.3	0.2842
Cr 267.716	-0.3120	ppb	0.0627	20.1	-3.7623
Cu 324.754	0.8196	ppb	0.1353	16.5	-76.4149
Fe 271.441	8.6959	ppb	3.1936	36.7	17.0664
K 766.491	241.244	ppb	6.5632	2.7	13185.6
Mg 279.078	10051.7	ppb	301.952	3.0	26251.4
Mn 257.610	11.5607	ppb	0.3711	3.2	3616.96
Mo 202.032	0.3518	ppb	0.2370	67.4	12.6446
Na 330.237	57145.3	ppb	1875.11	3.3	3466.67
Ni 231.604	1.0787	ppb	0.9365	86.8	4.1720
Pb 220.353	0.1808	ppb	0.8802	486.7	2.9452
Sb 206.834	-2.3501	ppb	1.3228	56.3	0.4212
Se 196.026	-2.0663	ppb	2.8767	139.2	-0.0972
Sn 189.925	0.6461	ppb	0.5685	88.0	-1.0261
Sr 216.596	69.1252	ppb	2.6002	3.8	935.488
Ti 334.941	0.0128	ppb	0.0258	201.4	-75.5268
Tl 190.794	3.4267	ppb	1.1426	33.3	0.6304
V 292.401	-0.2377	ppb	0.2016	84.8	-9.6961
Zn 206.200	2.1475	ppb	0.9614	44.8	6.0771

E04052013.vvq. All Data Report 4/8/2013, 10:52:27 AM

680-88770-s-5-b^10 (Samp) 4/5/2013, 12:36:33 PM Rack 1, Tube 8  
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.2613u	0.6637	0.4534
Al 308.215	6.7544	6.6043	9.9806
As 188.980	1.2594	-2.0414u	-5.0479u
B 249.678	6.4184	6.9172	6.8471
Ba 389.178	4.1904	4.9353	4.0251
Be 313.042	-0.0005	-0.0021u	-0.0056u
Ca 370.602	12079	12148	12101
Cd 226.502	0.1427	-0.0453u	0.1996
Co 228.615	-0.4731u	-0.1811u	-0.1068u
Cr 267.716	-0.2920u	-0.0999u	-0.1743u
Cu 324.754	0.4813	0.2859	0.7638
Fe 271.441	6.7500	17.2301	1.3045
K 766.491	202.049	202.199	200.876
Mg 279.078	6016.27	6034.53	6021.68
Mn 257.610	-0.9111u	-0.8523u	-0.7951u
Mo 202.032	1.4259	1.1202	0.5849
Na 330.237	14019.2	14159.9	14052.2
Ni 231.604	1.0318	-0.6407u	0.0781
Pb 220.353	0.1779	-0.6100u	-0.5099u
Sb 206.834	-6.9140u	-1.5479u	-4.3295u
Se 196.026	-7.3871u	0.0607	-2.4141u
Sn 189.925	1.1477	1.8595	2.3480
Sr 216.596	52.7128	52.0143	52.5913
Ti 334.941	0.1055	0.0065	0.1328
Tl 190.794	3.4782	1.8445	4.4980
V 292.401	0.1993	-0.2488u	-0.2407u
Zn 206.200	0.1110	0.5506	0.3117

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.2853	ppb	0.4848	170.0	-75.2330
Al 308.215	7.7798	ppb	1.9074	24.5	33.0302
As 188.980	-1.9433	ppb	3.1548	162.3	0.9891
B 249.678	6.7276	ppb	0.2700	4.0	141.614
Ba 389.178	4.3836	ppb	0.4849	11.1	103.698
Be 313.042	-0.0028	ppb	0.0026	94.4	-338.534
Ca 370.602	12110	ppb	35.01	0.3	47974
Cd 226.502	0.0990	ppb	0.1282	129.5	13.0374
Co 228.615	-0.2537	ppb	0.1936	76.3	1.0864
Cr 267.716	-0.1887	ppb	0.0969	51.3	1.7612
Cu 324.754	0.5103	ppb	0.2402	47.1	-92.4666
Fe 271.441	8.4282	ppb	8.0943	96.0	16.4610
K 766.491	201.708	ppb	0.7247	0.4	11059.9
Mg 279.078	6024.16	ppb	9.3791	0.2	15741.6
Mn 257.610	-0.8528	ppb	0.0580	6.8	170.296
Mo 202.032	1.0437	ppb	0.4257	40.8	18.5527
Na 330.237	14077.1	ppb	73.5911	0.5	852.774
Ni 231.604	0.1564	ppb	0.8390	536.4	1.0681
Pb 220.353	-0.3140	ppb	0.4289	136.6	1.8197
Sb 206.834	-4.2638	ppb	2.6836	62.9	-1.6514
Se 196.026	-3.2468	ppb	3.7931	116.8	-0.8001
Sn 189.925	1.7851	ppb	0.6036	33.8	0.1065
Sr 216.596	52.4395	ppb	0.3732	0.7	711.461
Ti 334.941	0.0816	ppb	0.0665	81.4	-70.7872
Tl 190.794	3.2736	ppb	1.3386	40.9	0.4576
V 292.401	-0.0967	ppb	0.2564	265.0	-4.9918
Zn 206.200	0.3244	ppb	0.2201	67.8	2.4347

E04052013.wvq. All Data Report 4/8/2013, 10:52:27 AM

680-88862-a-3-a^10 (Samp) 4/5/2013, 12:42:59 PM Rack 1, Tube 9  
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	1.0151	-0.0920	0.7382
Al 308.215	8.0797	9.0965	6.3644
As 188.980	-7.5829u	0.9169	-0.9386u
B 249.678	133.787	130.842	130.694
Ba 389.178	-1.2100u	-0.8726u	-1.2976u
Be 313.042	0.0059	-0.0016u	-0.0058u
Ca 370.602	14156	13778	13571
Cd 226.502	-0.2354u	-0.0613u	-0.1405u
Co 228.615	-0.5249u	-0.3074u	0.0016
Cr 267.716	16.0353	16.0293	15.4920
Cu 324.754	0.4073	0.5038	0.2850
Fe 271.441	5.8877	2.8770	-5.8272u
K 766.491	1253.19	1222.22	1207.20
Mg 279.078	1468.31	1434.92	1412.73
Mn 257.610	8630.06	8390.99	8259.24
Mo 202.032	0.4403	0.4615	0.2874
Na 330.237	13740.8	13192.2	12825.5
Ni 231.604	2.0603	-1.3655u	-0.1703u
Pb 220.353	-0.7283	0.1830	0.8515
Sb 206.834	-2.7284u	-1.2157u	-0.6080u
Se 196.026	-4.0546	9.3963	-2.4311
Sn 189.925	0.8032	-0.2738u	-0.6086u
Sr 216.596	111.284	108.525	106.143
Ti 334.941	0.1120	0.1000	0.0858
Tl 190.794	24.2082	24.2608	21.2662
V 292.401	-0.1596u	-0.5038u	-0.1631u
Zn 206.200	1.2848	1.9403	1.9507

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.5538	ppb	0.5761	104.0	-12.9938
Al 308.215	7.8469	ppb	1.3808	17.6	33.2226
As 188.980	-2.5349	ppb	4.4691	176.3	0.5641
B 249.678	131.774	ppb	1.7446	1.3	1660.92
Ba 389.178	-1.1268	ppb	0.2244	19.9	-61.4211
Be 313.042	-0.0005	ppb	0.0059	1135.4	-335.474
Ca 370.602	13835	ppb	296.6	2.1	55108
Cd 226.502	-0.1458	ppb	0.0872	59.8	1.5878
Co 228.615	-0.2769	ppb	0.2646	95.6	0.8631
Cr 267.716	15.8522	ppb	0.3119	2.0	879.476
Cu 324.754	0.3987	ppb	0.1096	27.5	-98.2797
Fe 271.441	0.9792	ppb	6.0837	621.3	1.2126
K 766.491	1227.53	ppb	23.4510	1.9	66216.4
Mg 279.078	1438.65	ppb	27.9798	1.9	3606.94
Mn 257.610	8426.76	ppb	187.980	2.2	2313834
Mo 202.032	0.3964	ppb	0.0950	24.0	13.0260
Na 330.237	13252.8	ppb	460.701	3.5	802.738
Ni 231.604	0.1748	ppb	1.7388	994.6	1.1300
Pb 220.353	0.1021	ppb	0.7930	776.9	5.2677
Sb 206.834	-1.5174	ppb	1.0919	72.0	1.4975
Se 196.026	0.9702	ppb	7.3423	756.8	4.2143
Sn 189.925	-0.0264	ppb	0.7377	2791.9	-1.7315
Sr 216.596	108.651	ppb	2.5731	2.4	1462.80
Ti 334.941	0.0993	ppb	0.0131	13.2	-87.2641
Tl 190.794	23.2451	ppb	1.7139	7.4	10.1177
V 292.401	-0.2755	ppb	0.1977	71.8	-11.7094
Zn 206.200	1.7253	ppb	0.3815	22.1	4571695

E04052013.vvq. All Data Report 4/8/2013, 10:52:27 AM

680-88862-a-4-a^10 (Samp) 4/5/2013, 12:49:25 PM Rack 1, Tube 10

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	1.2871	1.1515	0.9673
Al 308.215	33.7320	27.7311	27.9937
As 188.980	1.0214	0.1397	1.9260
B 249.678	145.408	139.311	131.462
Ba 389.178	-0.7937u	-1.8209u	-0.8857u
Be 313.042	0.0180	0.0123	0.0111
Ca 370.602	14718	14077	13056
Cd 226.502	-0.0189u	-0.0031u	0.1559
Co 228.615	-0.0134u	-0.3415u	-0.1859u
Cr 267.716	18.6938	17.7581	16.4838
Cu 324.754	0.1213	0.3026	0.0661
Fe 271.441	0.1561	4.0143	1.0236
K 766.491	2238.58	2144.61	2007.05
Mg 279.078	1581.59	1524.10	1446.51
Mn 257.610	40766.9x	39092.2x	36703.9x
Mo 202.032	0.4695	0.0322	-0.0192u
Na 330.237	46763.3	44494.7	41796.8
Ni 231.604	-2.5850u	-2.6718u	-2.6456u
Pb 220.353	1.5956	-0.1890	-2.2957
Sb 206.834	-0.8663u	5.1476	-2.2529u
Se 196.026	16.5425	5.3437	11.2265
Sn 189.925	0.7722	-0.1000u	1.5186
Sr 216.596	111.603	106.565	98.1550
Ti 334.941	0.1289	0.1786	0.0991
Tl 190.794	102.621	99.8334	95.9165
V 292.401	-2.2305u	-2.2140u	-1.8312u
Zn 206.200	3.6184	0.8923	1.4518

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	1.1353b	ppb	0.1605	14.1	189.555
Al 308.215	29.8189b	ppb	3.3913	11.4	112.012
As 188.980	1.0290b	ppb	0.8932	86.8	3.2327
B 249.678	138.727b	ppb	6.9917	5.0	1745.40
Ba 389.178	-1.1668b	ppb	0.5684	48.7	-63.0008
Be 313.042	0.0138b	ppb	0.0037	26.7	-318.869
Ca 370.602	13950b	ppb	838.4	6.0	56636
Cd 226.502	0.0446b	ppb	0.0967	216.7	10.1928
Co 228.615	-0.1803b	ppb	0.1641	91.1	2.1575
Cr 267.716	17.6452b	ppb	1.1093	6.3	1118.15
Cu 324.754	0.1634b	ppb	0.1237	75.7	-110.493
Fe 271.441	1.7313b	ppb	2.0241	116.9	2.7011
K 766.491	2130.08b	ppb	116.446	5.5	114745
Mg 279.078	1517.40b	ppb	67.7856	4.5	3203.17
Mn 257.610	38854.3xb	ppb	2041.93	5.3	10667376
Mo 202.032	0.1608b	ppb	0.2685	167.0	11.0188
Na 330.237	44351.6b	ppb	2486.31	5.6	2690.20
Ni 231.604	-2.6341b	ppb	0.0445	1.7	-8.3234
Pb 220.353	-0.2963b	ppb	1.9478	657.3	13.4137
Sb 206.834	0.6761b	ppb	3.9340	581.8	3.8929
Se 196.026	11.0376b	ppb	5.6018	50.8	19.2714
Sn 189.925	0.7303b	ppb	0.8101	110.9	-0.9496
Sr 216.596	105.441b	ppb	6.7940	6.4	1419.98
Ti 334.941	0.1355b	ppb	0.0402	29.6	-80.0263
Tl 190.794	99.4571b	ppb	3.3683	3.4	50.2265
V 292.401	-2.0919b	ppb	0.2259	10.8	-69.4444
Zn 206.200	1.9875b	ppb	1.4398	72.4	5.6857

E04052013.vvq. All Data Report 4/8/2013, 10:52:27 AM

680-88862-a-6-a (Samp) 4/5/2013, 12:55:51 PM Rack 1, Tube 11  
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.8127u	0.4540u	0.8669u
Al 308.215	20.0136	20.0200	19.8315
As 188.980	6.9398u	14.1669	8.1595
B 249.678	1207.41	1218.38	1223.74
Ba 389.178	86.6930	86.2392	85.8285
Be 313.042	0.1428	0.1551	0.1483
Ca 370.602	157522	157629	157387
Cd 226.502	-3.6660	-4.1774	-4.1695
Co 228.615	29.6471	29.1104	29.1737
Cr 267.716	-2.4913	-2.6593	-2.5169
Cu 324.754	1.8499	2.0661	2.2766
Fe 271.441	615880	615854	615441
K 766.491	11339.3	11291.7	11286.0
Mg 279.078	14514.7	14531.6	14547.1
Mn 257.610	943.479	944.230	944.440
Mo 202.032	16.0342	15.4325	15.4870
Na 330.237	41496.6	41774.7	41481.0
Ni 231.604	27.2572	29.6768	29.1965
Pb 220.353	7.4930	3.3593	1.9312
Sb 206.834	-12.4431	-12.9014	-20.9934u
Se 196.026	-3.8897	-4.3218	-7.5418
Sn 189.925	0.8170	0.2277	-1.3752u
Sr 216.596	1689.90	1695.08	1699.79
Ti 334.941	0.0151	0.0659	0.0522
Tl 190.794	-6.6711u	-9.6113u	-9.6923u
V 292.401	2.8134	3.4636	3.1904
Zn 206.200	54.7233	51.7698	52.5156

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.7112	ppb	0.2244	31.5	-118.674
Al 308.215	19.9550	ppb	0.1070	0.5	77.5763
As 188.980	9.7554	ppb	3.8689	39.7	3.6001
B 249.678	1216.51	ppb	8.3263	0.7	14092.6
Ba 389.178	86.2535	ppb	0.4325	0.5	3403.82
Be 313.042	0.1487	ppb	0.0062	4.1	16.1897
Ca 370.602	157513	ppb	121.6	0.1	561619
Cd 226.502	-4.0043	ppb	0.2930	7.3	1688.76
Co 228.615	29.3104	ppb	0.2933	1.0	366.480
Cr 267.716	-2.5558	ppb	0.0905	3.5	41.7468
Cu 324.754	2.0642	ppb	0.2134	10.3	178.311
Fe 271.441	615725	ppb	246.508	0.0	1264995
K 766.491	11305.7	ppb	29.2647	0.3	608098
Mg 279.078	14531.1	ppb	16.1858	0.1	38060.0
Mn 257.610	944.050	ppb	0.5050	0.1	261674
Mo 202.032	15.6513	ppb	0.3328	2.1	106.867
Na 330.237	41584.1	ppb	165.248	0.4	2303.55
Ni 231.604	28.7102	ppb	1.2810	4.5	113.566
Pb 220.353	4.2612	ppb	2.8885	67.8	12.4371
Sb 206.834	-15.4460	ppb	4.8097	31.1	1.2484
Se 196.026	-5.2511	ppb	1.9955	38.0	2.6270
Sn 189.925	-0.1101	ppb	1.1345	1030.0	-1.7489
Sr 216.596	1694.93	ppb	4.9434	0.3	22989.6
Ti 334.941	0.0444	ppb	0.0263	59.2	28.7887
Tl 190.794	-8.6582	ppb	1.7214	19.9	-88.8068
V 292.401	3.1558	ppb	0.3265	10.3	95.0900
Zn 206.200	53.0029	ppb	1.5359	2.8	407.666

E04052013.vvq. All Data Report 4/8/2013, 10:52:27 AM

680-88862-a-7-a^5 (Samp) 4/5/2013, 1:02:18 PM Rack 1, Tube 12

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.3718	-0.7798u	-0.7652u
Al 308.215	14.5424	11.7162	8.6167
As 188.980	-3.9683u	-0.6958u	1.0934u
B 249.678	260.066	261.062	258.752
Ba 389.178	11.8327	10.5087	10.4964
Be 313.042	0.0600	0.0616	0.0637
Ca 370.602	37568	37341	37047
Cd 226.502	-3.5153	-4.2051	-4.3480
Co 228.615	19.3153	18.9314	18.8064
Cr 267.716	-2.6202u	-2.5063u	-2.8385u
Cu 324.754	1.9409	2.3972	2.4185
Fe 271.441	500176	495782	492394
K 766.491	2516.88	2499.86	2464.83
Mg 279.078	3432.35	3413.15	3352.53
Mn 257.610	290.874	290.228	288.250
Mo 202.032	2.1511u	2.2588u	2.3534u
Na 330.237	9150.87	9079.76	9078.53
Ni 231.604	16.3500	17.0039	16.0233
Pb 220.353	2.4668	2.9247	4.4766
Sb 206.834	-4.9469	-10.8897	-10.8898
Se 196.026	-12.4987u	-3.6591	0.2065
Sn 189.925	1.4255	2.3378	2.6758
Sr 216.596	399.964	396.529	390.860
Ti 334.941	-0.0701	-0.1471	-0.1070
Tl 190.794	-7.9905u	-7.7814u	-5.3530u
V 292.401	1.5421	1.4116	1.8626
Zn 206.200	26.6153	28.4043	25.8818

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.3911	ppb	0.6607	169.0	-148.362
Al 308.215	11.6251	ppb	2.9639	25.5	46.6780
As 188.980	-1.1902	ppb	2.5668	215.7	-4.3219
B 249.678	259.960	ppb	1.1588	0.4	2615.66
Ba 389.178	10.9459	ppb	0.7680	7.0	1108.53
Be 313.042	0.0618	ppb	0.0018	2.9	-202.690
Ca 370.602	37319	ppb	261.2	0.7	97486
Cd 226.502	-4.0228	ppb	0.4453	11.1	1326.16
Co 228.615	19.0177	ppb	0.2652	1.4	235.871
Cr 267.716	-2.6550	ppb	0.1688	6.4	2.0955
Cu 324.754	2.2522	ppb	0.2698	12.0	150.931
Fe 271.441	496118	ppb	3901.73	0.8	1019263
K 766.491	2493.86	ppb	26.5377	1.1	134304
Mg 279.078	3399.34	ppb	41.6602	1.2	8997.61
Mn 257.610	289.784	ppb	1.3672	0.5	81554.6
Mo 202.032	2.2544	ppb	0.1012	4.5	-0.4721
Na 330.237	9103.05	ppb	41.4176	0.5	374.729
Ni 231.604	16.4591	ppb	0.4993	3.0	69.1559
Pb 220.353	3.2894	ppb	1.0534	32.0	10.0676
Sb 206.834	-8.9088	ppb	3.4311	38.5	5.5558
Se 196.026	-5.3171	ppb	6.5128	122.5	1.5525
Sn 189.925	2.1464	ppb	0.6468	30.1	0.4696
Sr 216.596	395.784	ppb	4.5975	1.2	5554.96
Ti 334.941	-0.1080	ppb	0.0385	35.6	-78.4991
Tl 190.794	-7.0416	ppb	1.4661	20.8	-71.4972
V 292.401	1.6054	ppb	0.2320	14.5	49.1408
Zn 206.200	26.9671	ppb	1.2976	111.8	55.6582



E04052013.vvq. All Data Report 4/8/2013, 10:52:27 AM

Cont Calib Verif (CCV) 4/5/2013, 1:08:43 PM Rack 1, Tube 13  
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	507.988	501.920	501.027
Al 308.215	4985.27	4948.61	4931.15
As 188.980	496.808	476.218	489.084
B 249.678	515.890	516.364	517.233
Ba 389.178	4835.28	4816.48	4799.46
Be 313.042	484.086	481.327	480.933
Ca 370.602	4935	4904	4887
Cd 226.502	482.722	480.012	479.535
Co 228.615	488.436	486.913	487.189
Cr 267.716	4942.58	4912.56	4894.26
Cu 324.754	4870.63	4867.57	4802.62
Fe 271.441	4933.20	4918.55	4909.29
K 766.491	9980.86	9954.96	9955.63
Mg 279.078	4904.15	4871.44	4851.69
Mn 257.610	4870.05	4834.85	4833.64
Mo 202.032	494.292	492.328	491.502
Na 330.237	7278.33	7065.44	7132.36
Ni 231.604	2392.18	2404.87	2383.05
Pb 220.353	494.494	490.668	492.524
Sb 206.834	988.138	976.956	991.684
Se 196.026	4925.11	4908.13	4896.72
Sn 189.925	4994.86	5010.30	4989.88
Sr 216.596	2430.34	2409.23	2406.53
Ti 334.941	495.172	492.412	491.216
Tl 190.794	4979.66	4952.88	4956.86
V 292.401	4877.10	4861.11	4859.83
Zn 206.200	2440.33	2432.03	2418.71

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	503.645	ppb	3.7874	0.8	41362.5	100.72897
Al 308.215	4955.01	ppb	27.6221	0.6	17761.3	99.10027
As 188.980	487.370	ppb	10.4015	2.1	366.609	97.47402
B 249.678	516.496	ppb	0.6807	0.1	6329.18	20.65983Q
Ba 389.178	4817.07	ppb	17.9192	0.4	131812	96.34145
Be 313.042	482.115	ppb	1.7181	0.4	1014334	96.42305
Ca 370.602	4909	ppb	24.70	0.5	19280	98.17496
Cd 226.502	480.756	ppb	1.7193	0.4	22335.8	96.15128
Co 228.615	487.513	ppb	0.8117	0.2	6443.98	97.50257
Cr 267.716	4916.47	ppb	24.3952	0.5	256752	98.32931
Cu 324.754	4846.94	ppb	38.4135	0.8	251529	96.93876
Fe 271.441	4920.35	ppb	12.0545	0.2	10253.4	98.40692
K 766.491	9963.81	ppb	14.7634	0.1	535948	99.63812
Mg 279.078	4875.76	ppb	26.4957	0.5	12647.2	97.51521
Mn 257.610	4846.18	ppb	20.6796	0.4	1330875	96.92362
Mo 202.032	492.707	ppb	1.4334	0.3	4206.03	98.54146
Na 330.237	7158.71	ppb	108.864	1.5	405.337	95.44952
Ni 231.604	2393.36	ppb	10.9604	0.5	8055.29	95.73456
Pb 220.353	492.562	ppb	1.9130	0.4	1118.35	98.51239
Sb 206.834	985.593	ppb	7.6870	0.8	1118.04	98.55927
Se 196.026	4909.98	ppb	14.2877	0.3	2910.09	98.19968
Sn 189.925	4998.35	ppb	10.6483	0.2	5071.41	99.96696
Sr 216.596	2415.37	ppb	13.0387	0.5	32215.0	96.61478
Ti 334.941	492.933	ppb	2.0285	0.4	142553	98.58666
Tl 190.794	4963.14	ppb	14.4493	0.3	6375.01	99.26270
V 292.401	4866.01	ppb	9.6225	0.2	153263	97.32024
Zn 206.200	2430.35	ppb	10.9061	0.4	4827.59	97.21417

E04052013.wvq. All Data Report 4/8/2013, 10:52:27 AM

Cont Calib Blank (CCB) 4/5/2013, 1:15:07 PM Rack 1, Tube 14

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	1.3225	0.8618	-0.1147u
Al 308.215	-0.5171u	1.1113	2.5790
As 188.980	-0.6512u	1.1868	-0.3016u
B 249.678	15.0684	12.2453	13.0978
Ba 389.178	0.6316	1.2793	0.3976
Be 313.042	0.0135	0.0231	0.0389
Ca 370.602	4.222	5.772	7.995
Cd 226.502	0.0227	0.0496	0.0002
Co 228.615	-1.2447u	0.0678	-0.3826u
Cr 267.716	-0.0752u	0.0483	0.1400
Cu 324.754	0.8872	1.1776	1.6136
Fe 271.441	7.3867	4.0831	14.0411
K 766.491	1.1351	0.9331	2.0886
Mg 279.078	0.8614	1.5143	2.4770
Mn 257.610	-0.6972u	-0.5194u	-0.2754u
Mo 202.032	0.2320	0.1888	0.8044
Na 330.237	-29.2676u	-128.658u	229.084
Ni 231.604	0.1446	1.1188	-0.3731u
Pb 220.353	-1.1172u	1.1335	-1.1597u
Sb 206.834	-2.0588u	-3.5859u	-3.3573u
Se 196.026	-1.3167u	8.5763	0.3299
Sn 189.925	0.4084	-0.9745u	-0.8497u
Sr 216.596	0.1981	0.8771	0.1533
Ti 334.941	0.1395	0.1672	0.1624
Tl 190.794	4.1631	1.7819	5.9010
V 292.401	0.1630	0.3514	0.6762
Zn 206.200	0.8733	0.0995	0.9831

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.6899	ppb	0.7339	106.4	-39.1964	0.68985
Al 308.215	1.0577	ppb	1.5488	146.4	8.8534	1.05774
As 188.980	0.0780	ppb	0.9761	1251.2	2.3782	0.07801
B 249.678	13.4705	ppb	1.4480	10.7	223.537	13.47050
Ba 389.178	0.7695	ppb	0.4568	59.4	-13.7351	0.76952
Be 313.042	0.0251	ppb	0.0128	51.0	-282.207	0.02515
Ca 370.602	5.996	ppb	1.896	31.6	17.82	5.99630
Cd 226.502	0.0242	ppb	0.0247	102.4	9.5730	0.02416
Co 228.615	-0.5199	ppb	0.6669	128.3	-2.3940	-0.51985
Cr 267.716	0.0377	ppb	0.1080	286.5	13.3075	0.03771
Cu 324.754	1.2261	ppb	0.3656	29.8	-55.3246	1.22614
Fe 271.441	8.5036	ppb	5.0721	59.6	16.6126	8.50362
K 766.491	1.3856	ppb	0.6171	44.5	288.942	1.38560
Mg 279.078	1.6175	ppb	0.8128	50.2	25.5691	1.61754
Mn 257.610	-0.4973	ppb	0.2118	42.6	209.660	-0.49735
Mo 202.032	0.4084	ppb	0.3436	84.1	13.1264	0.40839
Na 330.237	23.7197	ppb	184.663	778.5	-0.1628	23.71970
Ni 231.604	0.2968	ppb	0.7575	255.3	1.5405	0.29677
Pb 220.353	-0.3811	ppb	1.3119	344.2	1.6693	-0.38114
Sb 206.834	-3.0006	ppb	0.8237	27.4	-0.2711	-3.00065
Se 196.026	2.5299	ppb	5.3007	209.5	2.6207	2.52987
Sn 189.925	-0.4720	ppb	0.7650	162.1	-2.1966	-0.47196
Sr 216.596	0.4095	ppb	0.4055	99.0	14.7378	0.40949
Ti 334.941	0.1564	ppb	0.0148	9.5	-76.0236	0.15636
Tl 190.794	3.9487	ppb	2.0679	52.4	1.3264	3.94868
V 292.401	0.3969	ppb	0.2596	65.4	10.8024	0.39687
Zn 206.200	0.6520	ppb	0.4816	73.8	2.0878	0.65196

E04052013.vvq. All Data Report 4/8/2013, 10:52:27 AM

680-88862-a-8-a^10 (Samp) 4/5/2013, 1:21:31 PM Rack 1, Tube 15

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.0567u	-0.0998u	0.3141
Al 308.215	801.127	801.418	807.781
As 188.980	-0.4623u	0.6937	-1.1559u
B 249.678	140.288	140.973	140.530
Ba 389.178	4.9540	4.3301	6.1269
Be 313.042	0.8730	0.8827	1.1232
Ca 370.602	17010	16874	16773
Cd 226.502	0.1080	0.1358	0.4228
Co 228.615	0.1030	-0.0797u	0.4050
Cr 267.716	8.5146	8.8916	10.8395
Cu 324.754	1.6178	0.8209	1.5266
Fe 271.441	95.4281	90.4519	183.486
K 766.491	1318.60	1308.13	1305.01
Mg 279.078	1594.11	1581.43	1589.69
Mn 257.610	198.088	196.896	214.031
Mo 202.032	0.0003u	-0.0048u	0.0260
Na 330.237	13622.2	13430.3	13344.6
Ni 231.604	3.6991	3.7781	6.1608
Pb 220.353	-0.1188u	-1.5921u	-1.6220u
Sb 206.834	-2.9716u	-1.8269u	-2.7538u
Se 196.026	4.9294	8.3218	2.4537
Sn 189.925	-1.2075u	-1.1279u	3.6514
Sr 216.596	184.000	182.473	181.907
Ti 334.941	0.1287	0.1453	0.5575
Tl 190.794	4.5016	4.9623	3.1715
V 292.401	0.0371	-0.0371u	2.0806
Zn 206.200	11.3473	9.9504	12.7135

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0525	ppb	0.2276	433.4	-99.6360
Al 308.215	803.442	ppb	3.7606	0.5	2886.34
As 188.980	-0.3082	ppb	0.9344	303.2	2.2582
B 249.678	140.597	ppb	0.3473	0.2	1767.97
Ba 389.178	5.1370	ppb	0.9123	17.8	110.835
Be 313.042	0.9597	ppb	0.1417	14.8	1689.72
Ca 370.602	16885	ppb	119.1	0.7	66892
Cd 226.502	0.2222	ppb	0.1743	78.4	19.0337
Co 228.615	0.1428	ppb	0.2448	171.5	6.3877
Cr 267.716	9.4153	ppb	1.2478	13.3	504.328
Cu 324.754	1.3217	ppb	0.4362	33.0	-50.3348
Fe 271.441	123.122	ppb	52.3361	42.5	252.118
K 766.491	1310.58	ppb	7.1167	0.5	70681.6
Mg 279.078	1588.41	ppb	6.4362	0.4	4162.02
Mn 257.610	203.005	ppb	9.5672	4.7	56094.8
Mo 202.032	0.0072	ppb	0.0166	231.0	9.6930
Na 330.237	13465.7	ppb	142.135	1.1	815.532
Ni 231.604	4.5460	ppb	1.3990	30.8	15.8442
Pb 220.353	-1.1110	ppb	0.8594	77.4	0.0578
Sb 206.834	-2.5175	ppb	0.6078	24.1	0.3623
Se 196.026	5.2350	ppb	2.9460	56.3	4.2841
Sn 189.925	0.4387	ppb	2.7826	634.3	-1.2579
Sr 216.596	182.793	ppb	1.0824	0.6	2453.90
Ti 334.941	0.2772	ppb	0.2429	87.6	-34.7385
Tl 190.794	4.2118	ppb	0.9299	22.1	1.2648
V 292.401	0.6935	ppb	1.2018	173.3	19.4611
Zn 206.200	11.3371	ppb	1.3816	12.2	243968

E04052013.vvq. All Data Report 4/8/2013, 10:52:27 AM

680-88862-a-9-a^10 (Samp) 4/5/2013, 1:27:55 PM Rack 1, Tube 16  
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.0347	1.0518	0.4701
Al 308.215	6250.92	6123.64	6022.66
As 188.980	2.5057	-4.7266u	-3.1372u
B 249.678	141.067	138.177	136.978
Ba 389.178	4.5145	3.5325	3.9095
Be 313.042	2.7064	2.6285	2.5957
Ca 370.602	17895	17573	17297
Cd 226.502	-0.1321u	0.1932	-0.0317u
Co 228.615	1.6747	2.2487	1.4640
Cr 267.716	13.0019	12.7301	12.5126
Cu 324.754	7.6957	7.4866	7.3882
Fe 271.441	389.332	375.810	367.961
K 766.491	2021.14	1985.90	1958.70
Mg 279.078	1696.44	1667.79	1645.63
Mn 257.610	23016.5	22589.9	22264.6
Mo 202.032	-0.1549u	0.3608	-0.2467u
Na 330.237	35310.8	34311.1	34129.3
Ni 231.604	9.3006	10.9799	9.2835
Pb 220.353	2.0056	-0.8986	0.7891
Sb 206.834	-2.8157u	-2.5398u	-0.2335u
Se 196.026	0.4262	-2.1636	2.3326
Sn 189.925	-0.9051u	0.9593	-0.0502u
Sr 216.596	196.225	190.993	188.619
Ti 334.941	0.2303	0.2614	0.2263
Tl 190.794	58.6941	58.7950	58.6151
V 292.401	-1.3553u	-1.6099u	-0.8721u
Zn 206.200	20.8946	21.2574	18.7520

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.4957	ppb	0.5437	109.7	50.1696
Al 308.215	6132.41	ppb	114.381	1.9	21997.1
As 188.980	-1.7861	ppb	3.8008	212.8	1.1588
B 249.678	138.741	ppb	2.1021	1.5	1745.11
Ba 389.178	3.9855	ppb	0.4954	12.4	79.4626
Be 313.042	2.6435	ppb	0.0568	2.1	5225.67
Ca 370.602	17588	ppb	299.6	1.7	70441
Cd 226.502	0.0098	ppb	0.1666	1695.7	9.7861
Co 228.615	1.7958	ppb	0.4061	22.6	28.1956
Cr 267.716	12.7482	ppb	0.2451	1.9	785.243
Cu 324.754	7.5235	ppb	0.1571	2.1	271.796
Fe 271.441	377.701	ppb	10.8101	2.9	775.437
K 766.491	1988.58	ppb	31.3043	1.6	107136
Mg 279.078	1669.95	ppb	25.4738	1.5	3924.56
Mn 257.610	22623.7	ppb	377.118	1.7	6211444
Mo 202.032	-0.0136	ppb	0.3275	2402.8	9.5049
Na 330.237	34583.7	ppb	636.165	1.8	2097.07
Ni 231.604	9.8546	ppb	0.9745	9.9	33.7190
Pb 220.353	0.6320	ppb	1.4585	230.8	10.5421
Sb 206.834	-1.8630	ppb	1.4179	76.1	1.1295
Se 196.026	0.1984	ppb	2.2567	1137.4	7.9985
Sn 189.925	0.0014	ppb	0.9333	68985.0	-1.6920
Sr 216.596	191.946	ppb	3.8919	2.0	2576.30
Ti 334.941	0.2393	ppb	0.0193	8.0	-47.5589
Tl 190.794	58.7014	ppb	0.0902	0.2	28.6900
V 292.401	-1.2791	ppb	0.3748	29.3	-43.3390
Zn 206.200	20.3013	ppb	1.3540	6.7	42.2900

E04052013.vvq. All Data Report 4/8/2013, 10:52:27 AM

680-88862-a-10-a^10 (Samp) 4/5/2013, 1:34:19 PM Rack 1, Tube 17

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	3.7693	4.4168	3.4105
Al 308.215	6277.86	6066.64	5887.92
As 188.980	-0.5844u	7.7571	5.5714
B 249.678	130.352	127.486	124.655
Ba 389.178	10.0639	8.8052	8.6738
Be 313.042	3.2571	3.1618	3.0539
Ca 370.602	19127	18482	17908
Cd 226.502	-0.4343	-0.4338	-0.5733
Co 228.615	9.8617	10.2355	10.0176
Cr 267.716	23.4382	22.6580	21.4858
Cu 324.754	11.3272	10.7960	10.7352
Fe 271.441	42470.3	41052.4	39815.0
K 766.491	4240.65	4087.65	3928.82
Mg 279.078	1596.20	1577.70	1543.02
Mn 257.610	102189x	100449o	97415.1x
Mo 202.032	0.1658u	0.1776u	0.4637
Na 330.237	117758x	113041x	108723x
Ni 231.604	10.9804	10.5232	10.2077
Pb 220.353	3.2535	1.5006	0.4526
Sb 206.834	-5.5058u	-1.2564u	-5.2012u
Se 196.026	31.6884	38.4743	34.8903
Sn 189.925	-0.6606u	-0.4122u	1.9471
Sr 216.596	205.660	198.856	192.909
Ti 334.941	0.7777	0.8599	0.7091
Tl 190.794	282.719	271.411	272.743
V 292.401	-6.1554u	-5.9032u	-5.4666u
Zn 206.200	28.9045	25.5526	26.7701

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	3.8655b	ppb	0.5100	13.2	719.846
Al 308.215	6077.47b	ppb	195.197	3.2	21800.1
As 188.980	4.2480b	ppb	4.3254	101.8	5.1811
B 249.678	127.498b	ppb	2.8488	2.2	1559.02
Ba 389.178	9.1809b	ppb	0.7675	8.4	287.938
Be 313.042	3.1576b	ppb	0.1017	3.2	6272.92
Ca 370.602	18506b	ppb	609.7	3.3	72659
Cd 226.502	-0.4805b	ppb	0.0804	16.7	110.020
Co 228.615	10.0383b	ppb	0.1878	1.9	135.359
Cr 267.716	22.5273b	ppb	0.9827	4.4	1674.84
Cu 324.754	10.9528b	ppb	0.3256	3.0	462.476
Fe 271.441	41112.6b	ppb	1328.65	3.2	84465.7
K 766.491	4085.71b	ppb	155.923	3.8	219894
Mg 279.078	1572.30b	ppb	26.9977	1.7	2131.45
Mn 257.610	100018oxb	ppb	2415.98	2.4	27459240
Mo 202.032	0.2690b	ppb	0.1687	62.7	9.5174
Na 330.237	113174xb	ppb	4519.09	4.0	6852.39
Ni 231.604	10.5705b	ppb	0.3885	3.7	37.2139
Pb 220.353	1.7356b	ppb	1.4152	81.5	36.0224
Sb 206.834	-3.9878b	ppb	2.3704	59.4	-0.0645
Se 196.026	35.0177b	ppb	3.3947	9.7	52.0060
Sn 189.925	0.2914b	ppb	1.4392	493.8	-1.3633
Sr 216.596	199.142b	ppb	6.3802	3.2	2693.23
Ti 334.941	0.7823b	ppb	0.0755	9.7	104.749
Tl 190.794	275.624b	ppb	6.1805	2.2	155.835
V 292.401	-5.8417b	ppb	0.3485	6.0	-188.803
Zn 206.200	27.0757b	ppb	1.6967	6.3	5577880

E04052013.vvq. All Data Report 4/8/2013, 10:52:27 AM

mb 680-271953/1-a (Samp) 4/5/2013, 1:40:44 PM Rack 1, Tube 18

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.9210	0.2770	-0.3550u
Al 308.215	4.5391	0.3911	6.1051
As 188.980	0.1900	-2.3260u	-4.1362u
B 249.678	7.4904	7.2847	5.3058
Ba 389.178	0.2086	-0.5669u	0.1358
Be 313.042	-0.0077u	-0.0059u	0.0050
Ca 370.602	0.0076u	4.379	5.942
Cd 226.502	-0.0191u	-0.1057u	0.1313
Co 228.615	-0.4926u	-0.2326u	-0.3829u
Cr 267.716	-0.2843u	-0.0005u	-0.3037u
Cu 324.754	0.6190	-0.2001u	0.4444
Fe 271.441	29.2526	33.5988	30.9914
K 766.491	0.6879	0.5843	0.0420
Mg 279.078	1.9149	-0.0587u	-0.9268u
Mn 257.610	2.4848	2.5593	2.2204
Mo 202.032	0.3845	-0.2214u	-0.1806u
Na 330.237	-5.9362u	58.0806	3.1906
Ni 231.604	-0.5922u	-0.6055u	-0.3465u
Pb 220.353	1.1647	2.2463	1.6768
Sb 206.834	-3.0231u	2.1357	-1.1977u
Se 196.026	-3.5134u	-1.4541u	1.8131
Sn 189.925	1.3560	0.5086	0.7949
Sr 216.596	0.1834	0.0047	-0.0747u
Ti 334.941	-0.0151u	0.1089	0.0869
Tl 190.794	2.9186	0.8874	0.4441
V 292.401	-0.0403u	-0.1419u	0.1666
Zn 206.200	-1.0714u	1.5094	0.5538

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.2810	ppb	0.6380	227.0	-72.8696
Al 308.215	3.6784	ppb	2.9526	80.3	18.2122
As 188.980	-2.0907	ppb	2.1726	103.9	0.7562
B 249.678	6.6936	ppb	1.2063	18.0	141.167
Ba 389.178	-0.0742	ppb	0.4283	577.4	-36.7837
Be 313.042	-0.0029	ppb	0.0069	240.8	-341.057
Ca 370.602	3.443	ppb	3.076	89.3	5.057
Cd 226.502	0.0022	ppb	0.1199	5552.9	8.6332
Co 228.615	-0.3694	ppb	0.1305	35.3	-0.3919
Cr 267.716	-0.1962	ppb	0.1697	86.5	1.1179
Cu 324.754	0.2877	ppb	0.4314	149.9	-104.055
Fe 271.441	31.2809	ppb	2.1875	7.0	63.3428
K 766.491	0.4381	ppb	0.3469	79.2	237.997
Mg 279.078	0.3098	ppb	1.4562	470.1	22.1023
Mn 257.610	2.4215	ppb	0.1781	7.4	1011.07
Mo 202.032	-0.0058	ppb	0.3386	5790.4	9.5884
Na 330.237	18.4450	ppb	34.6275	187.7	-0.4886
Ni 231.604	-0.5148	ppb	0.1458	28.3	-1.1898
Pb 220.353	1.6959	ppb	0.5411	31.9	6.3771
Sb 206.834	-0.6950	ppb	2.6159	376.4	2.2245
Se 196.026	-1.0515	ppb	2.6859	255.4	0.5010
Sn 189.925	0.8865	ppb	0.4311	48.6	-0.8178
Sr 216.596	0.0378	ppb	0.1322	349.8	9.8169
Ti 334.941	0.0602	ppb	0.0661	109.8	-103.838
Tl 190.794	1.4167	ppb	1.3194	93.1	-1.9400
V 292.401	-0.0052	ppb	0.1572	3030.4	-1.7595
Zn 206.200	0.3306	ppb	1.3048	394.6	2.4470

E04052013.vvq. All Data Report 4/8/2013, 10:52:27 AM

ics 680-271953/3-a (Samp) 4/5/2013, 1:51:27 PM Rack 1, Tube 19  
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	205.361	203.403	201.500
Al 308.215	2044.71	2003.03	2009.22
As 188.980	218.626	219.392	222.147
B 249.678	384.795	380.402	381.920
Ba 389.178	204.429	200.033	200.240
Be 313.042	212.893	208.058	208.051
Ca 370.602	19751	19364	19385
Cd 226.502	205.658	202.255	201.335
Co 228.615	208.881	202.704	204.225
Cr 267.716	213.517	209.652	210.089
Cu 324.754	211.247	208.289	206.528
Fe 271.441	20702.8	20200.5	20147.1
K 766.491	20013.6	19598.2	19528.5
Mg 279.078	20096.9	19645.4	19635.1
Mn 257.610	2144.15	2117.62	2088.68
Mo 202.032	204.623	199.749	199.618
Na 330.237	16914.0	16438.9	16596.2
Ni 231.604	205.087	204.088	200.300
Pb 220.353	200.542	197.308	194.920
Sb 206.834	202.771	192.701	194.789
Se 196.026	195.035	200.455	200.803
Sn 189.925	204.888	195.451	199.483
Sr 216.596	214.079	210.444	210.581
Ti 334.941	200.412	196.323	196.645
Tl 190.794	44.0930	43.8263	47.1389
V 292.401	201.864	197.439	196.947
Zn 206.200	196.463	189.879	192.724

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	203.421	ppb	1.9307	0.9	16674.9
Al 308.215	2018.99	ppb	22.4886	1.1	7259.88
As 188.980	220.055	ppb	1.8519	0.8	166.761
B 249.678	382.372	ppb	2.2311	0.6	4680.96
Ba 389.178	201.567	ppb	2.4800	1.2	5577.60
Be 313.042	209.667	ppb	2.7938	1.3	441018
Ca 370.602	19500	ppb	217.6	1.1	75312
Cd 226.502	203.083	ppb	2.2774	1.1	9495.54
Co 228.615	205.270	ppb	3.2182	1.6	2709.74
Cr 267.716	211.086	ppb	2.1164	1.0	11047.5
Cu 324.754	208.688	ppb	2.3846	1.1	10727.3
Fe 271.441	20350.1	ppb	306.559	1.5	41848.6
K 766.491	19713.5	ppb	262.255	1.3	1060165
Mg 279.078	19792.5	ppb	263.692	1.3	51632.2
Mn 257.610	2116.82	ppb	27.7474	1.3	581753
Mo 202.032	201.330	ppb	2.8526	1.4	1727.26
Na 330.237	16649.7	ppb	242.062	1.5	998.201
Ni 231.604	203.158	ppb	2.5251	1.2	684.793
Pb 220.353	197.590	ppb	2.8217	1.4	450.181
Sb 206.834	196.754	ppb	5.3151	2.7	217.197
Se 196.026	198.764	ppb	3.2342	1.6	119.594
Sn 189.925	199.941	ppb	4.7351	2.4	201.231
Sr 216.596	211.701	ppb	2.0600	1.0	2837.66
Ti 334.941	197.793	ppb	2.2730	1.1	57212.3
Tl 190.794	45.0194	ppb	1.8404	4.1	47.9321
V 292.401	198.750	ppb	2.7082	1.4	6220.44
Zn 206.200	193.022	ppb	3.3021	1.7	386.555

E04052013.vvq. All Data Report 4/8/2013, 10:52:27 AM

680-88888-a-9-a (Samp) 4/5/2013, 1:57:52 PM Rack 1, Tube 20

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.6877	0.9428	0.8744
Al 308.215	450.717	456.317	450.608
As 188.980	-4.7310u	-6.3483u	-1.8218u
B 249.678	102.434	102.062	102.313
Ba 389.178	49.7772	49.4456	48.7719
Be 313.042	0.0438	0.0386	0.0298
Ca 370.602	44261	44343	44388
Cd 226.502	42.4737	42.5305	42.5747
Co 228.615	-0.4580u	0.7281	0.4800
Cr 267.716	41.5396	41.2904	41.2492
Cu 324.754	17.7466	17.4087	17.6178
Fe 271.441	917.151	928.156	927.002
K 766.491	30348.3	30415.1	30471.8
Mg 279.078	2067.69	2065.00	2061.02
Mn 257.610	78.3512	78.4926	78.4265
Mo 202.032	148.309	149.233	148.940
Na 330.237	38068.7	38117.0	37993.9
Ni 231.604	6.0788	6.8749	5.3917
Pb 220.353	0.7122	2.3531	1.9982
Sb 206.834	-5.2726u	-0.5044u	-8.2264u
Se 196.026	7.9794	4.7222	-0.0951u
Sn 189.925	-1.0586u	0.1613	0.1713
Sr 216.596	254.988	254.635	254.394
Ti 334.941	6.6414	7.2749	6.8994
Tl 190.794	-1.3038u	1.7592	1.6192
V 292.401	2.1214	2.2346	2.0414
Zn 206.200	66.9132	68.3382	68.9098

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.8350	ppb	0.1320	15.8	-39.3683
Al 308.215	452.547	ppb	3.2650	0.7	1640.15
As 188.980	-4.3004	ppb	2.2938	53.3	-0.5059
B 249.678	102.269	ppb	0.1897	0.2	1301.39
Ba 389.178	49.3316	ppb	0.5122	1.0	1323.82
Be 313.042	0.0374	ppb	0.0071	19.0	-271.677
Ca 370.602	44331	ppb	64.45	0.1	175551
Cd 226.502	42.5263	ppb	0.0506	0.1	1984.66
Co 228.615	0.2500	ppb	0.6256	250.2	2.4635
Cr 267.716	41.3597	ppb	0.1571	0.4	2172.35
Cu 324.754	17.5911	ppb	0.1705	1.0	798.928
Fe 271.441	924.103	ppb	6.0484	0.7	1898.01
K 766.491	30411.7	ppb	61.7931	0.2	1635388
Mg 279.078	2064.57	ppb	3.3563	0.2	5407.37
Mn 257.610	78.4234	ppb	0.0708	0.1	21899.8
Mo 202.032	148.827	ppb	0.4721	0.3	1280.50
Na 330.237	38059.9	ppb	62.0579	0.2	2307.37
Ni 231.604	6.1151	ppb	0.7423	12.1	21.1462
Pb 220.353	1.6878	ppb	0.8633	51.1	6.0976
Sb 206.834	-4.6678	ppb	3.8963	83.5	-3.7820
Se 196.026	4.2021	ppb	4.0623	96.7	3.6408
Sn 189.925	-0.2420	ppb	0.7072	292.3	-1.9239
Sr 216.596	254.672	ppb	0.2985	0.1	3411.58
Ti 334.941	6.9386	ppb	0.3186	4.6	1893.33
Tl 190.794	0.6915	ppb	1.7294	250.1	-3.2024
V 292.401	2.1324	ppb	0.0971	4.6	29.3192
Zn 206.200	68.0537	ppb	1.0283	1.5	487.573



E04052013.wvq. All Data Report 4/8/2013, 10:52:27 AM

680-88888-a-10-a (Samp) 4/5/2013, 2:04:17 PM Rack 1, Tube 21  
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.6089	0.6754	0.8457
Al 308.215	703.397	706.285	697.769
As 188.980	-1.4818u	-4.8061u	-6.7749u
B 249.678	127.388	127.358	128.950
Ba 389.178	56.1541	55.4663	58.3891
Be 313.042	0.0369	0.0468	0.0529
Ca 370.602	42766	42811	42685
Cd 226.502	47.2324	47.0022	47.1946
Co 228.615	0.4137	-0.0297u	1.0124
Cr 267.716	53.2302	53.2486	53.2174
Cu 324.754	11.9617	11.4277	11.4181
Fe 271.441	1510.31	1523.15	1510.52
K 766.491	33854.7	33894.8	33777.7
Mg 279.078	2224.66	2220.91	2218.29
Mn 257.610	97.3457	97.4120	97.3433
Mo 202.032	120.731	119.080	119.962
Na 330.237	37684.4	37875.6	37822.4
Ni 231.604	5.3069	7.0715	6.1056
Pb 220.353	1.6452	1.6568	0.9767
Sb 206.834	0.8711u	-0.0261u	7.8863
Se 196.026	-0.2998u	-3.8760u	0.2018
Sn 189.925	1.2262	2.9803	-0.4827u
Sr 216.596	244.506	244.455	244.362
Ti 334.941	10.5362	9.4730	9.0785
Tl 190.794	2.5162	1.4750	-1.0974u
V 292.401	3.1321	3.1974	2.7236
Zn 206.200	106.684	108.130	107.462

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.7100	ppb	0.1221	17.2	-49.0392
Al 308.215	702.484	ppb	4.3305	0.6	2534.09
As 188.980	-4.3543	ppb	2.6753	61.4	-0.5601
B 249.678	127.899	ppb	0.9108	0.7	1612.07
Ba 389.178	56.6698	ppb	1.5281	2.7	1525.92
Be 313.042	0.0455	ppb	0.0081	17.8	-250.402
Ca 370.602	42754	ppb	64.27	0.2	169245
Cd 226.502	47.1431	ppb	0.1235	0.3	2200.71
Co 228.615	0.4655	ppb	0.5230	112.3	6.5072
Cr 267.716	53.2321	ppb	0.0157	0.0	2792.58
Cu 324.754	11.6025	ppb	0.3111	2.7	487.314
Fe 271.441	1514.66	ppb	7.3552	0.5	3111.25
K 766.491	33842.4	ppb	59.5081	0.2	1819850
Mg 279.078	2221.29	ppb	3.2002	0.1	5816.00
Mn 257.610	97.3670	ppb	0.0390	0.0	27104.0
Mo 202.032	119.924	ppb	0.8261	0.7	1033.64
Na 330.237	37794.1	ppb	98.6833	0.3	2290.67
Ni 231.604	6.1614	ppb	0.8836	14.3	21.3177
Pb 220.353	1.4263	ppb	0.3894	27.3	5.5550
Sb 206.834	2.9104	ppb	4.3325	148.9	4.9690
Se 196.026	-1.3246	ppb	2.2237	167.9	0.3779
Sn 189.925	1.2413	ppb	1.7316	139.5	-0.4194
Sr 216.596	244.441	ppb	0.0732	0.0	3276.25
Ti 334.941	9.6959	ppb	0.7540	7.8	2692.13
Tl 190.794	0.9646	ppb	1.8601	192.8	-2.9394
V 292.401	3.0177	ppb	0.2568	8.5	62.9839
Zn 206.200	107.425	ppb	0.7242	0.7	216.178

E04052013.vvq. All Data Report 4/8/2013, 10:52:27 AM

680-88905-a-1-a (Samp) 4/5/2013, 2:10:43 PM Rack 1, Tube 22

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.5412	0.5998	0.8260
Al 308.215	1807.19	1824.70	1833.51
As 188.980	-3.8018u	-3.0787u	-2.1438u
B 249.678	33.5836	34.8234	34.4161
Ba 389.178	77.9071	77.2703	77.6945
Be 313.042	0.0117	0.0169	0.0107
Ca 370.602	11204	11314	11303
Cd 226.502	0.2025	0.1446	-0.0959u
Co 228.615	0.4674	-0.2231u	0.2459
Cr 267.716	1.2423	1.0611	1.0469
Cu 324.754	2.5695	2.5684	3.1882
Fe 271.441	585.734	595.230	590.238
K 766.491	5342.96	5354.96	5343.05
Mg 279.078	2341.51	2357.04	2349.93
Mn 257.610	707.612	712.084	710.546
Mo 202.032	0.4700	0.2176	0.2595
Na 330.237	7712.71	7868.47	7774.43
Ni 231.604	-1.1360u	0.0364	0.5434
Pb 220.353	-0.6527u	2.6537	0.7450
Sb 206.834	0.5511	-3.8602u	-3.9298u
Se 196.026	0.1064	2.1268	5.0538
Sn 189.925	0.4360	1.0484	-0.1198u
Sr 216.596	126.664	127.965	127.759
Ti 334.941	7.9478	7.6535	8.3094
Tl 190.794	4.1572	5.8542	1.5129
V 292.401	1.2091	0.7790	1.2639
Zn 206.200	2.6683	2.5628	2.7848

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.6557	ppb	0.1504	22.9	-44.6113
Al 308.215	1821.80	ppb	13.3972	0.7	6538.40
As 188.980	-3.0081	ppb	0.8312	27.6	0.1770
B 249.678	34.2744	ppb	0.6319	1.8	475.609
Ba 389.178	77.6240	ppb	0.3242	0.4	2097.40
Be 313.042	0.0131	ppb	0.0033	25.4	-304.758
Ca 370.602	11274	ppb	60.46	0.5	44631
Cd 226.502	0.0837	ppb	0.1582	189.0	14.0745
Co 228.615	0.1634	ppb	0.3525	215.7	6.8292
Cr 267.716	1.1168	ppb	0.1090	9.8	73.3484
Cu 324.754	2.7754	ppb	0.3575	12.9	25.2960
Fe 271.441	590.401	ppb	4.7501	0.8	1212.16
K 766.491	5346.99	ppb	6.9010	0.1	287711
Mg 279.078	2349.49	ppb	7.7778	0.3	6137.76
Mn 257.610	710.081	ppb	2.2716	0.3	195316
Mo 202.032	0.3157	ppb	0.1353	42.8	12.2990
Na 330.237	7785.20	ppb	78.4368	1.0	470.605
Ni 231.604	-0.1854	ppb	0.8614	464.6	-0.0660
Pb 220.353	0.9154	ppb	1.6597	181.3	4.7686
Sb 206.834	-2.4130	ppb	2.5672	106.4	0.3866
Se 196.026	2.4290	ppb	2.4875	102.4	2.7764
Sn 189.925	0.4549	ppb	0.5843	128.4	-1.2468
Sr 216.596	127.463	ppb	0.6992	0.5	1714.18
Ti 334.941	7.9702	ppb	0.3285	4.1	2195.70
Tl 190.794	3.8414	ppb	2.1878	57.0	-0.2256
V 292.401	1.0840	ppb	0.2655	24.5	32.4983
Zn 206.200	2.6720	ppb	0.1410	1214.3	4871192

E04052013.vvq. All Data Report 4/8/2013, 10:52:27 AM

**680-88905-a-1-b ms (Samp) 4/5/2013, 2:17:09 PM Rack 1, Tube 23****Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	18.4064	19.4782	19.3495
Al 308.215	7034.47	7062.93	7020.91
As 188.980	102.249	104.796	104.812
B 249.678	220.194	221.108	223.731
Ba 389.178	182.951	182.777	183.052
Be 313.042	52.9628	53.0352	52.7935
Ca 370.602	16435	16483	16379
Cd 226.502	51.7511	51.9023	52.0507
Co 228.615	52.1751	51.7597	52.2376
Cr 267.716	108.322	108.579	107.514
Cu 324.754	107.346	107.103	107.550
Fe 271.441	5540.40	5530.62	5521.27
K 766.491	10210.6	10250.5	10235.1
Mg 279.078	7317.87	7324.93	7291.26
Mn 257.610	1258.79	1259.34	1254.98
Mo 202.032	102.622	103.586	102.981
Na 330.237	12838.1	12852.2	12742.5
Ni 231.604	103.399	102.846	102.484
Pb 220.353	52.0184	54.1596	50.0613
Sb 206.834	48.4640	49.1278	48.1594
Se 196.026	92.9993	98.6507	100.347
Sn 189.925	199.958	202.011	201.251
Sr 216.596	230.414	231.515	229.843
Ti 334.941	109.415	110.325	109.646
Tl 190.794	44.2025	40.7049	39.3472
V 292.401	102.262	102.471	101.483
Zn 206.200	107.140	107.984	103.335

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	19.0781	ppb	0.5852	3.1	1472.58
Al 308.215	7039.44	ppb	21.4485	0.3	25257.1
As 188.980	103.952	ppb	1.4749	1.4	80.1209
B 249.678	221.677	ppb	1.8359	0.8	2746.52
Ba 389.178	182.927	ppb	0.1391	0.1	5003.18
Be 313.042	52.9305	ppb	0.1240	0.2	111077
Ca 370.602	16432	ppb	52.11	0.3	64610
Cd 226.502	51.9014	ppb	0.1498	0.3	2434.01
Co 228.615	52.0575	ppb	0.2597	0.5	690.398
Cr 267.716	108.139	ppb	0.5562	0.5	5665.38
Cu 324.754	107.333	ppb	0.2237	0.2	5457.95
Fe 271.441	5530.76	ppb	9.5626	0.2	11373.0
K 766.491	10232.1	ppb	20.1292	0.2	550371
Mg 279.078	7311.35	ppb	17.7533	0.2	19074.3
Mn 257.610	1257.70	ppb	2.3764	0.2	345724
Mo 202.032	103.063	ppb	0.4874	0.5	889.198
Na 330.237	12811.0	ppb	59.6916	0.5	772.052
Ni 231.604	102.910	ppb	0.4612	0.4	347.024
Pb 220.353	52.0798	ppb	2.0498	3.9	120.450
Sb 206.834	48.5838	ppb	0.4952	1.0	55.7404
Se 196.026	97.3323	ppb	3.8472	4.0	59.1719
Sn 189.925	201.074	ppb	1.0379	0.5	202.378
Sr 216.596	230.591	ppb	0.8497	0.4	3088.68
Ti 334.941	109.795	ppb	0.4731	0.4	31686.7
Tl 190.794	41.4182	ppb	2.5050	6.0	46.5453
V 292.401	102.072	ppb	0.5206	0.5	3194.19
Zn 206.200	106.153	ppb	2.4766	2.3	213.425

E04052013.vvq. All Data Report 4/8/2013, 10:52:27 AM

**680-88905-a-1-c msd (Samp) 4/5/2013, 2:23:35 PM Rack 1, Tube 24****Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	19.3530	20.4790	19.3851
Al 308.215	7978.44	7972.35	7990.61
As 188.980	100.737	98.6761	101.928
B 249.678	223.859	224.970	227.420
Ba 389.178	183.716	184.052	184.935
Be 313.042	53.3833	53.3316	53.5472
Ca 370.602	16402	16388	16444
Cd 226.502	52.1602	52.1302	52.3712
Co 228.615	52.8596	52.6178	52.3418
Cr 267.716	109.222	108.460	109.144
Cu 324.754	108.395	106.266	108.654
Fe 271.441	6020.00	6013.70	6033.62
K 766.491	10287.2	10290.5	10334.7
Mg 279.078	7362.17	7350.39	7368.14
Mn 257.610	1260.79	1258.63	1261.88
Mo 202.032	102.888	104.230	103.760
Na 330.237	12950.4	12862.3	12863.8
Ni 231.604	103.470	102.315	103.174
Pb 220.353	51.3190	50.0974	51.2379
Sb 206.834	54.0391	46.3532	52.0373
Se 196.026	99.1095	91.5794	104.285
Sn 189.925	197.502	203.419	201.861
Sr 216.596	231.235	230.023	230.594
Ti 334.941	144.343	142.666	139.458
Tl 190.794	39.8629	43.7390	43.1010
V 292.401	103.091	103.282	103.875
Zn 206.200	107.078	108.225	107.611

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	19.7390	ppb	0.6410	3.2	1527.05
Al 308.215	7980.47	ppb	9.2981	0.1	28631.9
As 188.980	100.447	ppb	1.6455	1.6	77.4933
B 249.678	225.416	ppb	1.8216	0.8	2791.35
Ba 389.178	184.235	ppb	0.6295	0.3	5039.95
Be 313.042	53.4207	ppb	0.1126	0.2	112109
Ca 370.602	16411	ppb	29.29	0.2	64484
Cd 226.502	52.2205	ppb	0.1314	0.3	2450.31
Co 228.615	52.6064	ppb	0.2591	0.5	698.525
Cr 267.716	108.942	ppb	0.4196	0.4	5707.55
Cu 324.754	107.772	ppb	1.3107	1.2	5480.90
Fe 271.441	6022.44	ppb	10.1806	0.2	12383.3
K 766.491	10304.2	ppb	26.5307	0.3	554247
Mg 279.078	7360.23	ppb	9.0356	0.1	19201.5
Mn 257.610	1260.44	ppb	1.6538	0.1	346476
Mo 202.032	103.626	ppb	0.6812	0.7	893.973
Na 330.237	12892.2	ppb	50.4336	0.4	776.506
Ni 231.604	102.986	ppb	0.5998	0.6	347.296
Pb 220.353	50.8848	ppb	0.6831	1.3	117.696
Sb 206.834	50.8099	ppb	3.9872	7.8	58.1538
Se 196.026	98.3247	ppb	6.3891	6.5	59.7641
Sn 189.925	200.927	ppb	3.0674	1.5	202.229
Sr 216.596	230.617	ppb	0.6062	0.3	3089.23
Ti 334.941	142.156	ppb	2.4822	1.7	41052.0
Tl 190.794	42.2343	ppb	2.0783	4.9	47.5311
V 292.401	103.416	ppb	0.4085	0.4	3236.91
Zn 206.200	107.638	ppb	0.5741	0.5	416.388

E04052013.vvq. All Data Report 4/8/2013, 10:52:27 AM

Cont Calib Verif (CCV) 4/5/2013, 2:30:00 PM Rack 1, Tube 25  
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	512.757	500.953	515.932
Al 308.215	5064.91	5016.76	5076.63
As 188.980	486.045	488.362	495.125
B 249.678	516.610	518.521	525.558
Ba 389.178	4871.30	4835.68	4870.74
Be 313.042	491.444	488.378	491.920
Ca 370.602	4969	4949	5014
Cd 226.502	486.676	485.331	490.072
Co 228.615	491.069	489.289	492.520
Cr 267.716	5024.77	4991.74	5044.87
Cu 324.754	4753.79	4811.43	4850.17
Fe 271.441	4958.31	4962.10	4993.21
K 766.491	9974.15	9915.06	9945.63
Mg 279.078	4936.20	4925.95	4974.59
Mn 257.610	4921.74	4916.78	4943.83
Mo 202.032	502.282	499.841	502.463
Na 330.237	7115.55	7125.76	7329.73
Ni 231.604	2443.29	2459.00	2459.20
Pb 220.353	497.328	492.965	499.002
Sb 206.834	992.658	985.092	1005.09
Se 196.026	4936.43	4914.24	4943.02
Sn 189.925	5074.31	4998.64	5083.29
Sr 216.596	2464.77	2447.21	2477.14
Ti 334.941	502.201	497.492	501.737
Tl 190.794	5002.46	4982.72	5029.02
V 292.401	4928.09	4911.85	4937.33
Zn 206.200	2444.30	2442.17	2471.73

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	509.881	ppb	7.8933	1.5	41876.6	101.97615
Al 308.215	5052.77	ppb	31.7298	0.6	18111.5	101.05533
As 188.980	489.844	ppb	4.7180	1.0	368.458	97.96883
B 249.678	520.230	ppb	4.7125	0.9	6374.49	20.80919Q
Ba 389.178	4859.24	ppb	20.4037	0.4	132966	97.18482
Be 313.042	490.581	ppb	1.9225	0.4	1032153	98.11617
Ca 370.602	4978	ppb	33.27	0.7	19552	99.55329
Cd 226.502	487.360	ppb	2.4434	0.5	22642.4	97.47196
Co 228.615	490.959	ppb	1.6184	0.3	6489.62	98.19189
Cr 267.716	5020.46	ppb	26.8274	0.5	262183	100.40920
Cu 324.754	4805.13	ppb	48.4950	1.0	249358	96.10263
Fe 271.441	4971.21	ppb	19.1492	0.4	10359.9	99.42412
K 766.491	9944.95	ppb	29.5533	0.3	534933	99.44946
Mg 279.078	4945.58	ppb	25.6393	0.5	12828.1	98.91155
Mn 257.610	4927.45	ppb	14.4007	0.3	1353188	98.54905
Mo 202.032	501.529	ppb	1.4639	0.3	4281.23	100.30571
Na 330.237	7190.35	ppb	120.819	1.7	406.998	95.87129
Ni 231.604	2453.83	ppb	9.1325	0.4	8258.79	98.15329
Pb 220.353	496.432	ppb	3.1171	0.6	1127.12	99.28631
Sb 206.834	994.280	ppb	10.0976	1.0	1128.21	99.42799
Se 196.026	4931.23	ppb	15.0762	0.3	2922.69	98.62464
Sn 189.925	5052.08	ppb	46.5002	0.9	5125.94	101.04157
Sr 216.596	2463.04	ppb	15.0409	0.6	32850.8	98.52167
Ti 334.941	500.477	ppb	2.5952	0.5	144737	100.09532
Tl 190.794	5004.73	ppb	23.2328	0.5	6428.44	100.09467
V 292.401	4925.75	ppb	12.9009	0.3	155145	98.51508
Zn 206.200	2452.74	ppb	16.4866	0.7	4882.02	98.10944

E04052013.vvq. All Data Report 4/8/2013, 10:52:27 AM

Cont Calib Blank (CCB)                      4/5/2013, 2:36:24 PM                      Rack 1, Tube 26  
 Weight: 1    Volume: 1    Dilution: 1

Label	Replicates Concentration		
Ag 328.068	1.1212	1.3149	1.1753
Al 308.215	3.9517	-1.1060u	6.0398
As 188.980	-5.2536u	-0.3771u	-1.7996u
B 249.678	11.5407	9.9764	9.0709
Ba 389.178	0.9142	0.7182	1.6006
Be 313.042	0.0577	0.1053	0.1401
Ca 370.602	1.860	4.209	9.610
Cd 226.502	-0.0286u	0.1370	0.2164
Co 228.615	0.4300	-0.1727u	0.1511
Cr 267.716	0.2853	0.8080	1.1748
Cu 324.754	0.6074	1.4164	1.7107
Fe 271.441	5.4654	0.9955	3.4047
K 766.491	4.4416	5.1374	6.7212
Mg 279.078	1.7672	3.3073	1.3652
Mn 257.610	0.0202	0.5129	0.9276
Mo 202.032	0.6339	0.3725	0.6217
Na 330.237	-157.805u	1.3542	-17.9926u
Ni 231.604	-0.0996u	-1.4407u	0.4777
Pb 220.353	1.1734	-0.7046u	1.0747
Sb 206.834	1.2979	-2.8744u	-1.9795u
Se 196.026	4.9074	2.3813	3.4521
Sn 189.925	-2.4047u	0.9126	-1.5353u
Sr 216.596	0.7938	0.7671	0.4688
Ti 334.941	0.2385	0.1942	0.2788
Tl 190.794	4.9321	5.1150	5.4543
V 292.401	0.7978	1.0531	1.7035
Zn 206.200	2.6507	-0.2402u	0.5874

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	1.2038	ppb	0.1000	8.3	3.1619	1.20382
Al 308.215	2.9618	ppb	3.6743	124.1	15.6955	2.96184
As 188.980	-2.4768	ppb	2.5078	101.3	0.4676	-2.47677
B 249.678	10.1960	ppb	1.2495	12.3	183.757	10.19599
Ba 389.178	1.0777	ppb	0.4633	43.0	-5.3029	1.07766
Be 313.042	0.1010	ppb	0.0414	41.0	-122.543	0.10102
Ca 370.602	5.227	ppb	3.974	76.0	15.17	5.22653
Cd 226.502	0.1083	ppb	0.1250	115.5	13.4669	0.10827
Co 228.615	0.1362	ppb	0.3016	221.5	6.2529	0.13615
Cr 267.716	0.7560	ppb	0.4470	59.1	50.8165	0.75603
Cu 324.754	1.2448	ppb	0.5713	45.9	-54.3552	1.24484
Fe 271.441	3.2885	ppb	2.2372	68.0	5.9258	3.28853
K 766.491	5.4334	ppb	1.1683	21.5	506.584	5.43340
Mg 279.078	2.1465	ppb	1.0251	47.8	26.9285	2.14654
Mn 257.610	0.4869	ppb	0.4543	93.3	479.873	0.48690
Mo 202.032	0.5427	ppb	0.1476	27.2	14.2718	0.54270
Na 330.237	-58.1479	ppb	86.8463	149.4	-5.1342	-58.14793
Ni 231.604	-0.3542	ppb	0.9842	277.9	-0.6503	-0.35420
Pb 220.353	0.5145	ppb	1.0569	205.4	3.6980	0.51446
Sb 206.834	-1.1853	ppb	2.1966	185.3	1.6932	-1.18535
Se 196.026	3.5802	ppb	1.2679	35.4	3.2430	3.58025
Sn 189.925	-1.0091	ppb	1.7201	170.5	-2.7419	-1.00914
Sr 216.596	0.6766	ppb	0.1805	26.7	18.2891	0.67656
Ti 334.941	0.2372	ppb	0.0423	17.8	-52.6161	0.23720
Tl 190.794	5.1671	ppb	0.2650	5.1	2.8930	5.16711
V 292.401	1.1848	ppb	0.4670	39.4	35.5884	1.18478
Zn 206.200	0.9993	ppb	1.4888	149.0	2.77792	0.99931

E04052013.vvq. All Data Report 4/8/2013, 10:52:27 AM

680-88862-a-4-a^20 (Samp) 4/5/2013, 2:42:48 PM Rack 1, Tube 27  
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	1.2810	0.6350	0.0701
Al 308.215	13.5060	17.0996	11.8776
As 188.980	-0.7444u	-0.9561u	-6.9564u
B 249.678	69.0049	69.9333	69.1724
Ba 389.178	-0.3373u	-1.8454u	-0.9951u
Be 313.042	-0.0035u	-0.0073u	-0.0019u
Ca 370.602	6694	6669	6592
Cd 226.502	-0.0302u	-0.0767u	0.0034
Co 228.615	-0.6697u	-0.1637u	-0.2220u
Cr 267.716	8.4303	8.2578	8.0133
Cu 324.754	0.3370	0.7461	0.2565
Fe 271.441	-4.5294u	-0.5567u	2.0086
K 766.491	996.628	1002.54	995.175
Mg 279.078	754.525	747.937	740.811
Mn 257.610	20643.2	20585.4	20616.7
Mo 202.032	-0.3014u	0.0673	-0.4027u
Na 330.237	21113.0	21056.1	20852.3
Ni 231.604	-1.6857u	0.3481	-1.8958u
Pb 220.353	-0.7396	0.5749	-0.1347
Sb 206.834	3.7927	1.7439	-3.3903u
Se 196.026	0.6040	5.1223	2.4064
Sn 189.925	-0.0057	-1.1336u	1.3508
Sr 216.596	50.7113	51.1839	50.3768
Ti 334.941	0.1336	0.0795	0.1147
Tl 190.794	51.7867	51.1707	49.9692
V 292.401	-1.0509u	-1.1680u	-1.1454u
Zn 206.200	1.4572	0.4338	1.9233

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.6620	ppb	0.6059	91.5	60.1124
Al 308.215	14.1611	ppb	2.6719	18.9	55.8296
As 188.980	-2.8856	ppb	3.5270	122.2	0.2307
B 249.678	69.3702	ppb	0.4948	0.7	902.723
Ba 389.178	-1.0593	ppb	0.7561	71.4	-61.9763
Be 313.042	-0.0042	ppb	0.0028	66.0	-350.658
Ca 370.602	6652	ppb	53.33	0.8	27072
Cd 226.502	-0.0345	ppb	0.0402	116.6	6.6834
Co 228.615	-0.3518	ppb	0.2769	78.7	-0.1313
Cr 267.716	8.2338	ppb	0.2095	2.5	539.102
Cu 324.754	0.4465	ppb	0.2625	58.8	-95.8059
Fe 271.441	-1.0259	ppb	3.2942	321.1	-2.9844
K 766.491	998.114	ppb	3.9002	0.4	53880.9
Mg 279.078	747.758	ppb	6.8583	0.9	1562.05
Mn 257.610	20615.1	ppb	28.9129	0.1	5659998
Mo 202.032	-0.2123	ppb	0.2473	116.5	7.8301
Na 330.237	21007.2	ppb	137.108	0.7	1273.37
Ni 231.604	-1.0778	ppb	1.2393	115.0	-3.0856
Pb 220.353	-0.0998	ppb	0.6579	659.2	8.4050
Sb 206.834	0.7155	ppb	3.7003	517.2	3.8396
Se 196.026	2.7109	ppb	2.2745	83.9	8.8575
Sn 189.925	0.0705	ppb	1.2440	1764.8	-1.6333
Sr 216.596	50.7573	ppb	0.4055	0.8	688.359
Ti 334.941	0.1093	ppb	0.0275	25.1	-88.6231
Tl 190.794	50.9755	ppb	0.9244	1.8	22.7821
V 292.401	-1.1214	ppb	0.0621	5.5	-37.8660
Zn 206.200	1.2714	ppb	0.7619	59.9	4.2919

E04052013.vvq. All Data Report 4/8/2013, 10:52:27 AM

680-88862-a-10-a^100 (Samp) 4/5/2013, 2:49:12 PM Rack 1, Tube 28

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.0416	0.0726	0.6233
Al 308.215	522.370	524.895	523.447
As 188.980	-0.8433u	-1.9872u	-6.7073u
B 249.678	12.0122	12.9192	13.6466
Ba 389.178	0.1865	0.9567	0.1815
Be 313.042	0.2624	0.2641	0.2564
Ca 370.602	1593	1584	1589
Cd 226.502	0.0029	0.0657	-0.0325
Co 228.615	0.9121	-0.1044u	1.2261
Cr 267.716	1.6659	1.3455	1.8138
Cu 324.754	0.8425	1.0846	1.8274
Fe 271.441	3597.87	3609.06	3600.90
K 766.491	320.944	321.899	322.861
Mg 279.078	165.382	162.882	159.658
Mn 257.610	11772.6	11792.0	11789.3
Mo 202.032	0.1119	0.9983	0.1670
Na 330.237	9030.68	9051.61	9020.31
Ni 231.604	0.0369	0.9809	2.6046
Pb 220.353	1.2400	0.6284	-0.8960
Sb 206.834	0.2728	3.2428	-0.0892
Se 196.026	-1.6829	5.0856	-2.8779
Sn 189.925	-0.0525u	1.1353	2.2648
Sr 216.596	17.4405	17.5912	17.4892
Ti 334.941	0.1297	0.1035	0.1407
Tl 190.794	30.4788	32.8555	31.2335
V 292.401	-0.0661u	-0.8400u	-0.3099u
Zn 206.200	2.4365	2.7728	1.6348

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.2458	ppb	0.3272	133.1	-17.0749
Al 308.215	523.571	ppb	1.2672	0.2	1882.70
As 188.980	-3.1793	ppb	3.1084	97.8	-0.0851
B 249.678	12.8593	ppb	0.8188	6.4	211.756
Ba 389.178	0.4416	ppb	0.4461	101.0	-16.4660
Be 313.042	0.2610	ppb	0.0040	1.5	210.014
Ca 370.602	1589	ppb	4.771	0.3	6337
Cd 226.502	0.0121	ppb	0.0498	412.9	19.8227
Co 228.615	0.6779	ppb	0.6954	102.6	13.2656
Cr 267.716	1.6084	ppb	0.2394	14.9	152.137
Cu 324.754	1.2515	ppb	0.5133	41.0	-52.8913
Fe 271.441	3602.61	ppb	5.7867	0.2	7400.78
K 766.491	321.901	ppb	0.9585	0.3	17522.4
Mg 279.078	162.641	ppb	2.8696	1.8	211.452
Mn 257.610	11784.6	ppb	10.4916	0.1	3235698
Mo 202.032	0.4257	ppb	0.4967	116.7	13.0642
Na 330.237	9034.20	ppb	15.9441	0.2	545.419
Ni 231.604	1.2075	ppb	1.2988	107.6	4.7012
Pb 220.353	0.3241	ppb	1.1000	339.4	6.7436
Sb 206.834	1.1421	ppb	1.8282	160.1	4.3139
Se 196.026	0.1749	ppb	4.2945	2455.1	4.7588
Sn 189.925	1.1159	ppb	1.1588	103.8	-0.5803
Sr 216.596	17.5069	ppb	0.0769	0.4	245.190
Ti 334.941	0.1246	ppb	0.0191	15.3	-85.1644
Tl 190.794	31.5226	ppb	1.2144	3.9	14.0389
V 292.401	-0.4053	ppb	0.3957	97.6	-14.7744
Zn 206.200	2.2813	ppb	0.5846	25.6	46.3355



E04052013.vvq. All Data Report 4/8/2013, 10:52:27 AM

CCV (Samp) 4/5/2013, 2:55:36 PM Rack 1, Tube 29

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	512.945	500.256	500.714
Al 308.215	5074.19	4960.07	5030.56
As 188.980	480.606	476.602	484.096
B 249.678	510.169	504.864	515.383
Ba 389.178	4850.06	4774.51	4810.20
Be 313.042	488.636	481.219	484.936
Ca 370.602	4944	4859	4916
Cd 226.502	485.556	479.171	484.887
Co 228.615	488.548	482.724	488.454
Cr 267.716	4994.14	4919.01	4971.06
Cu 324.754	4773.66	4844.73	4802.16
Fe 271.441	4944.12	4883.48	4913.58
K 766.491	9962.17	9814.61	9889.20
Mg 279.078	4924.47	4860.45	4905.24
Mn 257.610	4889.46	4823.67	4861.90
Mo 202.032	498.382	491.903	498.559
Na 330.237	7186.53	7111.32	7208.67
Ni 231.604	2429.33	2403.73	2404.01
Pb 220.353	492.849	490.413	493.248
Sb 206.834	1000.92	982.183	1000.20
Se 196.026	4940.91	4889.92	4956.04
Sn 189.925	5003.11	4947.91	5001.15
Sr 216.596	2457.49	2411.96	2440.73
Ti 334.941	500.669	491.726	496.634
Tl 190.794	5008.75	4927.73	4985.10
V 292.401	4903.91	4843.43	4875.66
Zn 206.200	2444.54	2413.92	2439.13

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	504.638	ppb	7.1978	1.4	41444.7
Al 308.215	5021.61	ppb	57.5839	1.1	18000.0
As 188.980	480.435	ppb	3.7501	0.8	361.423
B 249.678	510.138	ppb	5.2594	1.0	6251.94
Ba 389.178	4811.59	ppb	37.7948	0.8	131662
Be 313.042	484.930	ppb	3.7085	0.8	1020259
Ca 370.602	4906	ppb	43.49	0.9	19271
Cd 226.502	483.205	ppb	3.5095	0.7	22449.4
Co 228.615	486.575	ppb	3.3357	0.7	6431.65
Cr 267.716	4961.41	ppb	38.4834	0.8	259099
Cu 324.754	4806.85	ppb	35.7642	0.7	249448
Fe 271.441	4913.73	ppb	30.3220	0.6	10240.3
K 766.491	9888.66	ppb	73.7803	0.7	531907
Mg 279.078	4896.72	ppb	32.8514	0.7	12701.8
Mn 257.610	4858.34	ppb	33.0420	0.7	1334214
Mo 202.032	496.281	ppb	3.7927	0.8	4236.54
Na 330.237	7168.84	ppb	51.0284	0.7	405.938
Ni 231.604	2412.36	ppb	14.6988	0.6	8119.21
Pb 220.353	492.170	ppb	1.5346	0.3	1117.46
Sb 206.834	994.436	ppb	10.6179	1.1	1127.81
Se 196.026	4928.96	ppb	34.6435	0.7	2921.32
Sn 189.925	4984.06	ppb	31.3189	0.6	5056.90
Sr 216.596	2436.73	ppb	23.0274	0.9	32500.1
Ti 334.941	496.343	ppb	4.4788	0.9	143540
Tl 190.794	4973.86	ppb	41.6601	0.8	6388.81
V 292.401	4874.34	ppb	30.2620	0.6	153525
Zn 206.200	2432.53	ppb	16.3401	0.7	4841.87

E04052013.vvq. All Data Report 4/8/2013, 10:52:27 AM

CCB (Samp) 4/5/2013, 3:02:01 PM Rack 1, Tube 30

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.5008	-0.2468u	0.5101
Al 308.215	3.1898	0.6232	3.5452
As 188.980	-3.8268u	-0.5393u	-2.0033u
B 249.678	9.5370	9.6360	8.6878
Ba 389.178	0.8973	0.3919	0.8835
Be 313.042	0.0207	0.0343	0.0659
Ca 370.602	1.728	6.379	1.910
Cd 226.502	0.2359	0.1398	0.1675
Co 228.615	0.0744	-0.5894u	0.4506
Cr 267.716	0.0725	0.2423	0.5099
Cu 324.754	1.1903	0.5454	1.4451
Fe 271.441	0.5935	-1.1240u	0.4435
K 766.491	1.0136	1.8091	2.9446
Mg 279.078	0.6401	0.8247	3.8134
Mn 257.610	-0.5418u	-0.1805u	0.2311
Mo 202.032	1.2290	0.6317	0.8513
Na 330.237	-62.9864u	-60.1014u	-33.0212u
Ni 231.604	-0.1657u	1.8454	-0.5740u
Pb 220.353	-2.0374u	-1.7223u	0.6765
Sb 206.834	-2.8678u	0.8764	2.0931
Se 196.026	0.4114	1.5668	1.9583
Sn 189.925	0.6026	1.3106	2.3163
Sr 216.596	0.4462	0.4857	0.3570
Ti 334.941	0.1657	0.1184	0.1586
Tl 190.794	2.6305	3.4286	5.3053
V 292.401	-0.2010u	0.5117	0.8061
Zn 206.200	-0.8911u	0.5132	0.9377

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.2547	ppb	0.4344	170.5	-75.0774
Al 308.215	2.4528	ppb	1.5944	65.0	13.8996
As 188.980	-2.1232	ppb	1.6470	77.6	0.7320
B 249.678	9.2869	ppb	0.5213	5.6	172.716
Ba 389.178	0.7243	ppb	0.2879	39.8	-14.9803
Be 313.042	0.0403	ppb	0.0232	57.5	-250.354
Ca 370.602	3.339	ppb	2.634	78.9	7.994
Cd 226.502	0.1811	ppb	0.0495	27.3	16.8359
Co 228.615	-0.0215	ppb	0.5266	2450.1	4.1596
Cr 267.716	0.2749	ppb	0.2205	80.2	25.6909
Cu 324.754	1.0603	ppb	0.4637	43.7	-63.9238
Fe 271.441	-0.0290	ppb	0.9513	3280.0	-0.8576
K 766.491	1.9224	ppb	0.9704	50.5	317.807
Mg 279.078	1.7594	ppb	1.7812	101.2	25.9305
Mn 257.610	-0.1638	ppb	0.3867	236.2	301.227
Mo 202.032	0.9040	ppb	0.3021	33.4	17.3591
Na 330.237	-52.0363	ppb	16.5307	31.8	-4.7544
Ni 231.604	0.3686	ppb	1.2952	351.4	1.7820
Pb 220.353	-1.0277	ppb	1.4843	144.4	0.2032
Sb 206.834	0.0339	ppb	2.5855	7633.7	3.0012
Se 196.026	1.3122	ppb	0.8043	61.3	1.8997
Sn 189.925	1.4099	ppb	0.8611	61.1	-0.2867
Sr 216.596	0.4296	ppb	0.0660	15.4	14.9743
Ti 334.941	0.1476	ppb	0.0255	17.3	-78.5580
Tl 190.794	3.7881	ppb	1.3731	36.2	1.1200
V 292.401	0.3723	ppb	0.5178	139.1	9.9002
Zn 206.200	0.1866	ppb	0.9571	513.0	2.1577

E04052013.vvq. All Data Report 4/8/2013, 10:52:27 AM

680-88888-a-1-a (Samp)                      4/5/2013, 3:08:26 PM                      Rack 1, Tube 31  
 Weight: 1                                      Volume: 1                                      Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.5438	0.6751	1.0155
Al 308.215	423.180	423.657	419.806
As 188.980	-4.1756u	-2.6929u	-7.9104u
B 249.678	84.6072	84.0954	84.7309
Ba 389.178	46.5192	46.0583	45.5805
Be 313.042	0.0208	0.0329	0.0278
Ca 370.602	11317	11377	11333
Cd 226.502	0.0366	0.2667	0.0727
Co 228.615	1.1752	0.0432	-0.1165u
Cr 267.716	0.6074	0.4781	0.6515
Cu 324.754	16.9205	16.5170	16.3080
Fe 271.441	1504.50	1505.74	1502.08
K 766.491	6320.64	6349.48	6333.98
Mg 279.078	2238.94	2247.66	2233.44
Mn 257.610	174.585	175.509	174.837
Mo 202.032	0.2357	0.6586	0.9511
Na 330.237	23494.3	23978.9	23680.0
Ni 231.604	1.5341	-0.1302u	1.7895
Pb 220.353	3.4270	5.2046	2.5761
Sb 206.834	-3.1960u	0.2333	-2.4606u
Se 196.026	0.6132	9.4672	7.0611
Sn 189.925	-0.3667u	1.6169	0.4610
Sr 216.596	60.6134	61.3962	61.3850
Ti 334.941	9.4393	9.2567	9.9300
Tl 190.794	5.6484	4.3759	4.3553
V 292.401	0.8082	0.7034	0.9236
Zn 206.200	49.0091	48.5493	47.9809

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.7448	ppb	0.2434	32.7	-36.7651
Al 308.215	422.214	ppb	2.0993	0.5	1519.21
As 188.980	-4.9263	ppb	2.6885	54.6	-1.2682
B 249.678	84.4778	ppb	0.3369	0.4	1084.46
Ba 389.178	46.0527	ppb	0.4694	1.0	1234.74
Be 313.042	0.0272	ppb	0.0061	22.3	-277.273
Ca 370.602	11342	ppb	31.10	0.3	44790
Cd 226.502	0.1253	ppb	0.1237	98.7	18.6793
Co 228.615	0.3673	ppb	0.7042	191.7	9.5276
Cr 267.716	0.5790	ppb	0.0901	15.6	43.2781
Cu 324.754	16.5818	ppb	0.3114	1.9	742.499
Fe 271.441	1504.11	ppb	1.8600	0.1	3089.44
K 766.491	6334.70	ppb	14.4304	0.2	340818
Mg 279.078	2240.01	ppb	7.1687	0.3	5863.41
Mn 257.610	174.977	ppb	0.4779	0.3	48410.7
Mo 202.032	0.6151	ppb	0.3597	58.5	14.8024
Na 330.237	23717.7	ppb	244.510	1.0	1436.85
Ni 231.604	1.0645	ppb	1.0424	97.9	4.1643
Pb 220.353	3.7359	ppb	1.3412	35.9	11.0319
Sb 206.834	-1.8077	ppb	1.8055	99.9	1.0578
Se 196.026	5.7138	ppb	4.5782	80.1	4.5690
Sn 189.925	0.5704	ppb	0.9963	174.7	-1.1225
Sr 216.596	61.1315	ppb	0.4487	0.7	828.285
Ti 334.941	9.5420	ppb	0.3482	3.6	2648.79
Tl 190.794	4.7932	ppb	0.7407	15.5	1.9048
V 292.401	0.8117	ppb	0.1101	13.6	23.8322
Zn 206.200	48.5131	ppb	0.5151	1.1	487.6962

E04052013.wvq. All Data Report 4/8/2013, 10:52:27 AM

680-88888-a-1-aSD^5 (Samp) 4/5/2013, 3:14:51 PM Rack 1, Tube 32

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.0859u	0.5251	0.1365
Al 308.215	92.8339	85.6361	92.9761
As 188.980	-10.2518u	-6.4675u	-5.8191u
B 249.678	18.9845	17.6937	19.5351
Ba 389.178	9.1029	9.1384	9.9545
Be 313.042	0.0047	0.0089	0.0237
Ca 370.602	2380	2307	2397
Cd 226.502	0.1340	-0.1941u	0.0904
Co 228.615	0.6215	-0.4946u	-0.3532u
Cr 267.716	-0.0973u	-0.0154u	0.2118
Cu 324.754	4.0875	4.5400	3.5943
Fe 271.441	310.783	301.934	323.476
K 766.491	1319.94	1282.88	1328.15
Mg 279.078	474.081	457.659	479.955
Mn 257.610	36.0553	35.0787	37.1381
Mo 202.032	0.0504	-0.2052u	0.4135
Na 330.237	5141.83	4797.80	5170.29
Ni 231.604	0.1255	-0.0076u	0.9789
Pb 220.353	-0.1627u	-0.9780u	-0.5047u
Sb 206.834	-3.2682u	-6.4259u	-5.6767u
Se 196.026	-6.6413u	-2.3684u	-3.1852u
Sn 189.925	1.3577	4.5066	-0.7146u
Sr 216.596	14.0488	12.1046	13.3515
Ti 334.941	1.8819	2.3324	1.8327
Tl 190.794	1.6471	4.6138	3.7848
V 292.401	0.4032	0.2383	0.2078
Zn 206.200	9.8429	10.2042	9.8480

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1919	ppb	0.3092	161.2	-80.6748
Al 308.215	90.4820	ppb	4.1973	4.6	329.527
As 188.980	-7.5128	ppb	2.3941	31.9	-3.2783
B 249.678	18.7378	ppb	0.9452	5.0	287.162
Ba 389.178	9.3986	ppb	0.4817	5.1	224.336
Be 313.042	0.0124	ppb	0.0100	80.4	-308.805
Ca 370.602	2361	ppb	47.64	2.0	9321
Cd 226.502	0.0101	ppb	0.1782	1765.9	9.8278
Co 228.615	-0.0754	ppb	0.6077	805.5	3.5213
Cr 267.716	0.0330	ppb	0.1601	484.8	13.4208
Cu 324.754	4.0739	ppb	0.4730	11.6	92.6402
Fe 271.441	312.064	ppb	10.8281	3.5	640.304
K 766.491	1310.32	ppb	24.1224	1.8	70667.7
Mg 279.078	470.565	ppb	11.5565	2.5	1248.61
Mn 257.610	36.0907	ppb	1.0302	2.9	10260.0
Mo 202.032	0.0863	ppb	0.3109	360.4	10.3578
Na 330.237	5036.64	ppb	207.330	4.1	303.875
Ni 231.604	0.3656	ppb	0.5353	146.4	1.7804
Pb 220.353	-0.5485	ppb	0.4094	74.6	1.2979
Sb 206.834	-5.1236	ppb	1.6499	32.2	-2.5556
Se 196.026	-4.0650	ppb	2.2682	55.8	-1.2714
Sn 189.925	1.7166	ppb	2.6290	153.2	0.0280
Sr 216.596	13.1683	ppb	0.9849	7.5	185.682
Ti 334.941	2.0157	ppb	0.2754	13.7	463.862
Tl 190.794	3.3486	ppb	1.5307	45.7	0.4488
V 292.401	0.2831	ppb	0.1051	37.1	7.2656
Zn 206.200	9.9650	ppb	0.2972	2.9	21.6925

E04052013.vvq. All Data Report 4/8/2013, 10:52:27 AM

680-88888-a-1-aPDS (Samp) 4/5/2013, 3:21:17 PM Rack 1, Tube 33

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	50.0644	50.7680	51.7117
Al 308.215	2423.56	2419.25	2424.26
As 188.980	2238.68	2237.41	2247.23
B 249.678	82.1649	82.6012	83.7103
Ba 389.178	2131.98	2137.77	2136.52
Be 313.042	52.4464	52.6348	52.5711
Ca 370.602	11192	11243	11244
Cd 226.502	51.3934	51.8890	52.3064
Co 228.615	520.181	534.464	528.369
Cr 267.716	214.473	215.558	215.684
Cu 324.754	279.342	280.896	283.923
Fe 271.441	2473.70	2495.60	2492.38
K 766.491	6286.55	6300.88	6282.30
Mg 279.078	2208.49	2213.20	2215.79
Mn 257.610	706.874	709.873	710.727
Mo 202.032	0.8321	0.0796 <sub>u</sub>	0.9137
Na 330.237	23254.0	23337.6	23222.0
Ni 231.604	520.914	520.393	523.928
Pb 220.353	499.842	504.396	506.781
Sb 206.834	505.452	508.330	513.158
Se 196.026	1990.33	2006.38	2006.23
Sn 189.925	3.3750	1.4461	2.1088
Sr 216.596	61.8347	61.8483	63.2536
Ti 334.941	9.3954	8.7398	8.8999
Tl 190.794	2041.93	2048.12	2061.92
V 292.401	500.415	503.693	503.606
Zn 206.200	562.581	564.161	566.920

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	50.8480	ppb	0.8266	1.6	4099.74
Al 308.215	2422.36	ppb	2.7121	0.1	8686.53
As 188.980	2241.11	ppb	5.3399	0.2	1678.32
B 249.678	82.8255	ppb	0.7968	1.0	1063.12
Ba 389.178	2135.43	ppb	3.0459	0.1	58408.4
Be 313.042	52.5508	ppb	0.0958	0.2	110273
Ca 370.602	11226	ppb	29.64	0.3	44251
Cd 226.502	51.8629	ppb	0.4571	0.9	2423.00
Co 228.615	527.672	ppb	7.1669	1.4	6964.74
Cr 267.716	215.238	ppb	0.6661	0.3	11251.2
Cu 324.754	281.387	ppb	2.3293	0.8	14487.9
Fe 271.441	2487.23	ppb	11.8243	0.5	5212.65
K 766.491	6289.91	ppb	9.7371	0.2	338410
Mg 279.078	2212.49	ppb	3.7044	0.2	5780.47
Mn 257.610	709.158	ppb	2.0238	0.3	195067
Mo 202.032	0.6085	ppb	0.4598	75.6	13.5679
Na 330.237	23271.2	ppb	59.6788	0.3	1404.86
Ni 231.604	521.745	ppb	1.9083	0.4	1756.49
Pb 220.353	503.673	ppb	3.5255	0.7	1143.59
Sb 206.834	508.980	ppb	3.8939	0.8	555.763
Se 196.026	2000.98	ppb	9.2245	0.5	1186.25
Sn 189.925	2.3100	ppb	0.9800	42.4	0.6428
Sr 216.596	62.3122	ppb	0.8153	1.3	833.590
Ti 334.941	9.0117	ppb	0.3418	3.8	2495.44
Tl 190.794	2050.66	ppb	10.2341	0.5	2633.58
V 292.401	502.571	ppb	1.8683	0.4	15859.0
Zn 206.200	564.554	ppb	2.1960	0.4	4128.74

E04052013.vvq. All Data Report 4/8/2013, 10:52:27 AM

680-88888-a-1-b ms (Samp) 4/5/2013, 3:27:42 PM Rack 1, Tube 34

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	21.4531	21.2679	21.3391
Al 308.215	5565.10	5585.19	5601.37
As 188.980	108.170	111.549	108.696
B 249.678	273.485	273.200	275.725
Ba 389.178	148.887	149.172	149.806
Be 313.042	54.0255	54.0250	54.0937
Ca 370.602	15881	15886	15925
Cd 226.502	53.2198	53.0917	52.9785
Co 228.615	54.2663	53.6867	54.2405
Cr 267.716	108.504	108.976	109.261
Cu 324.754	121.736	122.125	122.684
Fe 271.441	6443.30	6448.24	6458.73
K 766.491	10996.3	10992.5	11009.4
Mg 279.078	7170.74	7167.45	7189.30
Mn 257.610	710.100	709.676	711.012
Mo 202.032	103.906	104.886	105.448
Na 330.237	27632.2	27580.7	27645.6
Ni 231.604	106.760	104.158	105.604
Pb 220.353	52.8439	52.2239	53.0639
Sb 206.834	46.8255	52.0970	54.6869
Se 196.026	100.644	103.233	99.0106
Sn 189.925	206.245	202.545	206.548
Sr 216.596	163.283	162.908	162.853
Ti 334.941	108.622	108.212	108.543
Tl 190.794	45.3030	41.1826	45.0828
V 292.401	103.151	103.280	103.461
Zn 206.200	151.814	150.862	151.335

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	21.3534	ppb	0.0934	0.4	1660.58
Al 308.215	5583.89	ppb	18.1710	0.3	20037.4
As 188.980	109.472	ppb	1.8184	1.7	84.2310
B 249.678	274.137	ppb	1.3828	0.5	3382.78
Ba 389.178	149.288	ppb	0.4704	0.3	4083.88
Be 313.042	54.0481	ppb	0.0395	0.1	113427
Ca 370.602	15898	ppb	23.96	0.2	62379
Cd 226.502	53.0967	ppb	0.1207	0.2	2492.16
Co 228.615	54.0645	ppb	0.3274	0.6	716.726
Cr 267.716	108.914	ppb	0.3823	0.4	5703.78
Cu 324.754	122.182	ppb	0.4768	0.4	6229.32
Fe 271.441	6450.09	ppb	7.8782	0.1	13262.1
K 766.491	10999.4	ppb	8.8761	0.1	591629
Mg 279.078	7175.83	ppb	11.7804	0.2	18732.2
Mn 257.610	710.262	ppb	0.6829	0.1	195431
Mo 202.032	104.747	ppb	0.7807	0.7	903.519
Na 330.237	27619.5	ppb	34.2979	0.1	1670.11
Ni 231.604	105.508	ppb	1.3036	1.2	355.790
Pb 220.353	52.7106	ppb	0.4356	0.8	121.747
Sb 206.834	51.2031	ppb	4.0062	7.8	58.5832
Se 196.026	100.963	ppb	2.1293	2.1	61.1655
Sn 189.925	205.113	ppb	2.2288	1.1	206.483
Sr 216.596	163.015	ppb	0.2342	0.1	2185.94
Ti 334.941	108.459	ppb	0.2179	0.2	31298.2
Tl 190.794	43.8561	ppb	2.3180	5.3	50.6106
V 292.401	103.297	ppb	0.1556	0.2	3232.19
Zn 206.200	151.337	ppb	0.4762	0.3	307.683

E04052013.vvq. All Data Report 4/8/2013, 10:52:27 AM

680-88888-a-1-c msd (Samp) 4/5/2013, 3:34:08 PM Rack 1, Tube 35

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	17.2013	17.5715	17.6364
Al 308.215	5667.73	5646.01	5661.03
As 188.980	109.597	106.694	110.557
B 249.678	278.015	280.797	280.880
Ba 389.178	151.901	151.984	152.305
Be 313.042	54.1270	54.0202	54.0575
Ca 370.602	16392	16366	16360
Cd 226.502	53.4636	53.3853	53.2354
Co 228.615	53.6092	53.1030	53.5707
Cr 267.716	109.650	108.820	109.137
Cu 324.754	123.296	122.985	123.690
Fe 271.441	6548.10	6545.23	6540.62
K 766.491	11270.7	11293.3	11291.3
Mg 279.078	7264.44	7266.82	7260.91
Mn 257.610	717.594	717.434	717.495
Mo 202.032	105.474	104.717	105.113
Na 330.237	28455.6	28435.8	28490.3
Ni 231.604	106.396	106.476	104.689
Pb 220.353	50.4840	54.2020	52.3344
Sb 206.834	54.1075	55.2310	56.3927
Se 196.026	99.8504	103.348	102.263
Sn 189.925	205.737	204.365	209.038
Sr 216.596	166.932	165.751	165.530
Ti 334.941	113.205	111.598	110.453
Tl 190.794	42.3774	42.4586	43.4884
V 292.401	104.001	103.310	104.197
Zn 206.200	154.653	156.537	155.810

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	17.4697	ppb	0.2347	1.3	1340.35
Al 308.215	5658.26	ppb	11.1196	0.2	20304.1
As 188.980	108.949	ppb	2.0114	1.8	83.8436
B 249.678	279.897	ppb	1.6306	0.6	3452.65
Ba 389.178	152.063	ppb	0.2134	0.1	4160.25
Be 313.042	54.0682	ppb	0.0542	0.1	113469
Ca 370.602	16373	ppb	17.24	0.1	64253
Cd 226.502	53.3614	ppb	0.1159	0.2	2504.75
Co 228.615	53.4276	ppb	0.2818	0.5	708.413
Cr 267.716	109.203	ppb	0.4186	0.4	5718.93
Cu 324.754	123.324	ppb	0.3533	0.3	6288.66
Fe 271.441	6544.65	ppb	3.7738	0.1	13456.4
K 766.491	11285.1	ppb	12.4946	0.1	606990
Mg 279.078	7264.06	ppb	2.9708	0.0	18962.3
Mn 257.610	717.508	ppb	0.0807	0.0	197421
Mo 202.032	105.102	ppb	0.3783	0.4	906.542
Na 330.237	28460.6	ppb	27.6021	0.1	1721.05
Ni 231.604	105.854	ppb	1.0092	1.0	356.958
Pb 220.353	52.3402	ppb	1.8590	3.6	120.907
Sb 206.834	55.2437	ppb	1.1427	2.1	62.9529
Se 196.026	101.821	ppb	1.7902	1.8	61.6766
Sn 189.925	206.380	ppb	2.4016	1.2	207.771
Sr 216.596	166.071	ppb	0.7537	0.5	2226.87
Ti 334.941	111.752	ppb	1.3827	1.2	32251.5
Tl 190.794	42.7748	ppb	0.6194	1.4	49.1927
V 292.401	103.836	ppb	0.4660	0.4	3249.25
Zn 206.200	155.666	ppb	0.9500	0.6	417.331

E04052013.vvq. All Data Report 4/8/2013, 10:52:27 AM

680-88888-a-2-a (Samp) 4/5/2013, 3:40:46 PM Rack 1, Tube 36

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.1734	-0.1765u	-0.0185u
Al 308.215	974.600	980.594	974.365
As 188.980	-3.2499u	-7.8960u	-1.8536u
B 249.678	109.174	108.291	108.885
Ba 389.178	115.758	115.069	115.671
Be 313.042	0.0396	0.0557	0.0444
Ca 370.602	32110	32105	32101
Cd 226.502	0.1597	0.1384	0.5316
Co 228.615	0.7586	0.3371	0.2962
Cr 267.716	2.5609	2.5543	2.5541
Cu 324.754	1.6586	1.7093	2.1257
Fe 271.441	401.754	400.101	407.349
K 766.491	61450.4x	61445.0x	61724.3x
Mg 279.078	5466.67	5441.86	5464.80
Mn 257.610	1449.43	1444.68	1448.68
Mo 202.032	2.0321	2.3207	1.8533
Na 330.237	560317x	560746x	568277x
Ni 231.604	2.9267	2.7352	3.0144
Pb 220.353	1.7932	3.0449	1.0429
Sb 206.834	-0.2207u	-8.4289u	-0.7445u
Se 196.026	-2.1157u	-3.3021u	-1.9795u
Sn 189.925	1.7199	1.7854	0.5926
Sr 216.596	149.786	149.243	149.801
Ti 334.941	51.0933	54.2771	53.9301
Tl 190.794	7.8551	4.5758	4.3086
V 292.401	4.5466	4.9605	4.6486
Zn 206.200	50.7482	51.5028	50.1947

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0072b	ppb	0.1752	2429.7	-96.6567
Al 308.215	976.520b	ppb	3.5304	0.4	3507.16
As 188.980	-4.3332b	ppb	3.1635	73.0	-0.6029
B 249.678	108.783b	ppb	0.4501	0.4	1381.22
Ba 389.178	115.499b	ppb	0.3749	0.3	3143.01
Be 313.042	0.0465b	ppb	0.0083	17.8	-303.658
Ca 370.602	32105b	ppb	4.748	0.0	127223
Cd 226.502	0.2766b	ppb	0.2211	80.0	18.5774
Co 228.615	0.4640b	ppb	0.2560	55.2	12.1017
Cr 267.716	2.5564b	ppb	0.0039	0.2	162.983
Cu 324.754	1.8312b	ppb	0.2563	14.0	-23.7729
Fe 271.441	403.068b	ppb	3.7983	0.9	827.333
K 766.491	61539.9xb	ppb	159.735	0.3	3309083
Mg 279.078	5457.78b	ppb	13.8184	0.3	14234.4
Mn 257.610	1447.60b	ppb	2.5532	0.2	397818
Mo 202.032	2.0687b	ppb	0.2358	11.4	27.2720
Na 330.237	563114xb	ppb	4476.90	0.8	34174.1
Ni 231.604	2.8921b	ppb	0.1428	4.9	10.2857
Pb 220.353	1.9603b	ppb	1.0114	51.6	7.3388
Sb 206.834	-3.1314b	ppb	4.5953	146.7	-0.4042
Se 196.026	-2.4658b	ppb	0.7275	29.5	0.0967
Sn 189.925	1.3660b	ppb	0.6706	49.1	-0.0664
Sr 216.596	149.610b	ppb	0.3179	0.2	2012.47
Ti 334.941	53.1002b	ppb	1.7467	3.3	15224.8
Tl 190.794	5.5799b	ppb	1.9749	35.4	0.6321
V 292.401	4.7186b	ppb	0.2156	4.6	142.494
Zn 206.200	50.8152b	ppb	0.6566	1.3	407.286



E04052013.vvq. All Data Report 4/8/2013, 10:52:27 AM

Cont Calib Verif (CCV) 4/5/2013, 3:47:11 PM Rack 1, Tube 37  
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	505.793	505.787	505.171
Al 308.215	5033.43	5010.15	5039.45
As 188.980	471.505	495.522	496.747
B 249.678	512.312	516.070	517.796
Ba 389.178	4819.50	4812.92	4834.76
Be 313.042	487.477	486.118	488.604
Ca 370.602	4957	4949	4975
Cd 226.502	484.704	484.443	486.228
Co 228.615	488.456	486.673	488.703
Cr 267.716	4979.74	4973.72	5003.23
Cu 324.754	4800.75	4788.88	4800.49
Fe 271.441	4923.93	4940.13	4967.93
K 766.491	9978.01	9968.81	9938.28
Mg 279.078	4919.21	4902.99	4927.59
Mn 257.610	4891.29	4889.12	4909.46
Mo 202.032	499.170	498.078	502.877
Na 330.237	7551.66	7966.70	7694.61
Ni 231.604	2406.32	2411.48	2454.20
Pb 220.353	493.989	492.554	496.195
Sb 206.834	993.082	987.986	994.504
Se 196.026	4945.62	4967.06	4970.14
Sn 189.925	5023.76	4992.74	5049.28
Sr 216.596	2441.48	2442.08	2453.76
Ti 334.941	497.938	495.813	498.462
Tl 190.794	4958.78	4957.88	4996.84
V 292.401	4889.75	4890.82	4904.46
Zn 206.200	2435.13	2438.81	2452.02

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	505.584	ppb	0.3575	0.1	41522.7	101.11673
Al 308.215	5027.68	ppb	15.4703	0.3	18021.8	100.55353
As 188.980	487.925	ppb	14.2328	2.9	367.023	97.58495
B 249.678	515.393	ppb	2.8044	0.5	6315.75	20.61570Q
Ba 389.178	4822.39	ppb	11.2045	0.2	131957	96.44787
Be 313.042	487.400	ppb	1.2449	0.3	1025457	97.47997
Ca 370.602	4960	ppb	13.44	0.3	19485	99.20955
Cd 226.502	485.125	ppb	0.9642	0.2	22538.6	97.02502
Co 228.615	487.944	ppb	1.1077	0.2	6449.67	97.58876
Cr 267.716	4985.56	ppb	15.5938	0.3	260361	99.71129
Cu 324.754	4796.71	ppb	6.7792	0.1	248921	95.93411
Fe 271.441	4944.00	ppb	22.2544	0.5	10303.1	98.87995
K 766.491	9961.70	ppb	20.7993	0.2	535834	99.61699
Mg 279.078	4916.60	ppb	12.5046	0.3	12753.0	98.33193
Mn 257.610	4896.62	ppb	11.1684	0.2	1344723	97.93244
Mo 202.032	500.042	ppb	2.5153	0.5	4268.60	100.00831
Na 330.237	7737.65	ppb	210.841	2.7	440.352	103.16871
Ni 231.604	2424.00	ppb	26.2811	1.1	8158.40	96.96006
Pb 220.353	494.246	ppb	1.8340	0.4	1122.17	98.84914
Sb 206.834	991.857	ppb	3.4272	0.3	1125.24	99.18571
Se 196.026	4960.94	ppb	13.3543	0.3	2940.27	99.21880
Sn 189.925	5021.92	ppb	28.3119	0.6	5095.34	100.43850
Sr 216.596	2445.77	ppb	6.9254	0.3	32620.7	97.83096
Ti 334.941	497.404	ppb	1.4031	0.3	143847	99.48087
Tl 190.794	4971.17	ppb	22.2400	0.4	6385.28	99.42330
V 292.401	4895.01	ppb	8.1994	0.2	154176	97.90018
Zn 206.200	2441.99	ppb	8.8816	0.4	4860.67	97.67941

E04052013.vvq. All Data Report 4/8/2013, 10:52:27 AM

Cont Calib Blank (CCB) 4/5/2013, 3:53:36 PM Rack 1, Tube 38  
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.5512	0.8041	0.4420
Al 308.215	3.3345	4.8271	2.2377
As 188.980	4.0754	-1.9762u	-0.8188u
B 249.678	11.8900	10.2334	9.4699
Ba 389.178	0.7414	1.1970	1.5933
Be 313.042	0.0604	0.0944	0.1430
Ca 370.602	1.527	5.544	5.884
Cd 226.502	-0.0682u	0.1396	0.0971
Co 228.615	-0.3504u	-0.5049u	0.3820
Cr 267.716	0.3829	0.8143	1.0669
Cu 324.754	1.1604	1.2586	1.9406
Fe 271.441	-0.9143u	1.8687	0.6319
K 766.491	5.7273	7.5042	10.1475
Mg 279.078	-1.0890u	3.5326	2.8319
Mn 257.610	-0.0707u	0.3990	0.9526
Mo 202.032	0.0200	0.7033	0.4575
Na 330.237	-14.3999u	43.6770	-3.3591u
Ni 231.604	-1.2027u	-0.2901u	0.5625
Pb 220.353	-0.7203u	-0.7096u	-1.8305u
Sb 206.834	0.2564	-0.9171u	0.1074
Se 196.026	-0.0363u	-0.4131u	3.1709
Sn 189.925	2.1290	2.7646	3.1523
Sr 216.596	0.5778	0.2857	0.8450
Ti 334.941	0.1960	0.2656	0.2217
Tl 190.794	8.8371	7.7591	6.3528
V 292.401	0.8321	1.3135	1.3685
Zn 206.200	0.5334	-0.9649u	-0.2028u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.5991	ppb	0.1857	31.0	-46.6876	0.59909
Al 308.215	3.4664	ppb	1.2997	37.5	17.5037	3.46643
As 188.980	0.4268	ppb	3.2124	752.7	2.6390	0.42679
B 249.678	10.5311	ppb	1.2372	11.7	187.833	10.53110
Ba 389.178	1.1772	ppb	0.4263	36.2	-2.5847	1.17723
Be 313.042	0.0993	ppb	0.0415	41.8	-126.229	0.09927
Ca 370.602	4.318	ppb	2.423	56.1	11.92	4.31808
Cd 226.502	0.0562	ppb	0.1098	195.4	11.0386	0.05618
Co 228.615	-0.1578	ppb	0.4738	300.3	2.3769	-0.15779
Cr 267.716	0.7547	ppb	0.3459	45.8	50.7478	0.75471
Cu 324.754	1.4532	ppb	0.4249	29.2	-43.5362	1.45322
Fe 271.441	0.5287	ppb	1.3944	263.7	0.2295	0.52874
K 766.491	7.7930	ppb	2.2242	28.5	633.454	7.79299
Mg 279.078	1.7585	ppb	2.4908	141.6	25.9157	1.75849
Mn 257.610	0.4270	ppb	0.5122	120.0	463.409	0.42698
Mo 202.032	0.3936	ppb	0.3461	87.9	12.9988	0.39359
Na 330.237	8.6393	ppb	30.8416	357.0	-1.0682	8.63932
Ni 231.604	-0.3101	ppb	0.8828	284.7	-0.5020	-0.31010
Pb 220.353	-1.0868	ppb	0.6441	59.3	0.0702	-1.08679
Sb 206.834	-0.1844	ppb	0.6389	346.4	2.7751	-0.18443
Se 196.026	0.9072	ppb	1.9695	217.1	1.6600	0.90716
Sn 189.925	2.6819	ppb	0.5166	19.3	1.0045	2.68195
Sr 216.596	0.5695	ppb	0.2798	49.1	16.8527	0.56950
Ti 334.941	0.2277	ppb	0.0352	15.5	-55.3566	0.22774
Tl 190.794	7.6496	ppb	1.2457	16.3	6.0873	7.64965
V 292.401	1.1714	ppb	0.2951	25.2	35.1677	1.17136
Zn 206.200	-0.2115	ppb	0.7492	354.3	487.3605	-0.21145

E04052013.vvq. All Data Report 4/8/2013, 10:52:27 AM

680-88888-a-3-a (Samp) 4/5/2013, 4:00:00 PM Rack 1, Tube 39

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.8704	0.2404	0.6869
Al 308.215	446.393	448.250	443.346
As 188.980	0.6223	-3.3784u	-4.7767u
B 249.678	83.8785	83.9178	85.0581
Ba 389.178	46.5563	47.4676	47.1334
Be 313.042	0.0227	0.0321	0.0198
Ca 370.602	31784	31782	31708
Cd 226.502	48.5472	48.6854	48.5782
Co 228.615	0.5274	-0.1022u	0.0140u
Cr 267.716	39.0848	39.1539	39.0259
Cu 324.754	16.0251	16.3755	16.3399
Fe 271.441	1238.24	1247.42	1241.74
K 766.491	18537.2	18549.7	18574.8
Mg 279.078	2016.56	2005.62	2006.99
Mn 257.610	94.8005	95.0075	95.0195
Mo 202.032	80.1952	80.3305	80.0450
Na 330.237	25056.0	25323.9	25276.8
Ni 231.604	6.8860	5.6418	6.4456
Pb 220.353	3.1323	0.5072	1.6219
Sb 206.834	-5.3561u	-8.0614u	-4.3211u
Se 196.026	3.8680	6.8833	2.6821
Sn 189.925	0.3669	1.5846	0.0705
Sr 216.596	169.407	170.542	172.316
Ti 334.941	9.8127	10.6222	9.4690
Tl 190.794	3.1260	2.0961	1.8128
V 292.401	1.0708	1.3636	1.5395
Zn 206.200	56.8894	56.5443	55.7056

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.5992	ppb	0.3240	54.1	-54.4167
Al 308.215	445.996	ppb	2.4757	0.6	1611.00
As 188.980	-2.5109	ppb	2.8021	111.6	0.7212
B 249.678	84.2848	ppb	0.6700	0.8	1082.46
Ba 389.178	47.0524	ppb	0.4610	1.0	1261.40
Be 313.042	0.0249	ppb	0.0064	25.8	-288.736
Ca 370.602	31758	ppb	43.38	0.1	125703
Cd 226.502	48.6036	ppb	0.0725	0.1	2267.76
Co 228.615	0.1464	ppb	0.3351	228.8	3.7749
Cr 267.716	39.0882	ppb	0.0641	0.2	2053.57
Cu 324.754	16.2468	ppb	0.1929	1.2	727.272
Fe 271.441	1242.47	ppb	4.6323	0.4	2551.96
K 766.491	18553.9	ppb	19.1220	0.1	997818
Mg 279.078	2009.72	ppb	5.9608	0.3	5263.99
Mn 257.610	94.9425	ppb	0.1231	0.1	26435.3
Mo 202.032	80.1903	ppb	0.1428	0.2	694.354
Na 330.237	25218.9	ppb	143.036	0.6	1527.98
Ni 231.604	6.3245	ppb	0.6308	10.0	21.8592
Pb 220.353	1.7538	ppb	1.3175	75.1	6.3741
Sb 206.834	-5.9129	ppb	1.9313	32.7	-4.1388
Se 196.026	4.4778	ppb	2.1659	48.4	3.8113
Sn 189.925	0.6740	ppb	0.8024	119.1	-1.0064
Sr 216.596	170.755	ppb	1.4663	0.9	2291.88
Ti 334.941	9.9680	ppb	0.5921	5.9	2770.84
Tl 190.794	2.3450	ppb	0.6911	29.5	-1.1061
V 292.401	1.3246	ppb	0.2367	17.9	19.5827
Zn 206.200	56.3797	ppb	0.6088	1.1	414.262

E04052013.wvq. All Data Report 4/8/2013, 10:52:27 AM

680-88888-a-4-a (Samp) 4/5/2013, 4:06:24 PM Rack 1, Tube 40

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.1359	0.5426	-0.1354u
Al 308.215	388.921	387.538	390.987
As 188.980	-6.1352u	-5.7763u	-0.5690u
B 249.678	86.9294	88.8183	88.1469
Ba 389.178	49.9338	49.8358	48.8881
Be 313.042	0.0512	0.0429	0.0510
Ca 370.602	12226	12265	12230
Cd 226.502	0.2148	0.0924	0.2248
Co 228.615	0.4811	-0.1407u	0.4358
Cr 267.716	0.7745	0.9812	0.8075
Cu 324.754	20.3895	19.5986	19.5445
Fe 271.441	1477.30	1491.14	1484.18
K 766.491	7582.29	7618.16	7619.47
Mg 279.078	2436.44	2441.74	2430.42
Mn 257.610	199.217	199.805	199.130
Mo 202.032	0.3910	0.3393	0.5079
Na 330.237	27860.5	27975.9	27905.4
Ni 231.604	1.9425	1.1997	1.0456
Pb 220.353	-0.6906u	2.0095	2.8898
Sb 206.834	-1.4751u	-2.5888u	-7.5421u
Se 196.026	-3.6097u	-5.1324u	3.3864
Sn 189.925	3.1487	2.3298	1.1385
Sr 216.596	66.1965	66.7522	66.7462
Ti 334.941	3.7962	3.3503	3.8295
Tl 190.794	1.4397	3.5247	4.7353
V 292.401	0.9181	1.0311	0.5154
Zn 206.200	59.2086	57.1525	58.8092

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1810	ppb	0.3412	188.5	-83.3901
Al 308.215	389.148	ppb	1.7358	0.4	1400.63
As 188.980	-4.1602	ppb	3.1152	74.9	-0.6863
B 249.678	87.9649	ppb	0.9575	1.1	1126.85
Ba 389.178	49.5526	ppb	0.5775	1.2	1331.07
Be 313.042	0.0484	ppb	0.0047	9.8	-232.975
Ca 370.602	12241	ppb	21.56	0.2	48351
Cd 226.502	0.1773	ppb	0.0737	41.6	21.0046
Co 228.615	0.2587	ppb	0.3466	134.0	7.9228
Cr 267.716	0.8544	ppb	0.1111	13.0	57.8423
Cu 324.754	19.8442	ppb	0.4730	2.4	911.898
Fe 271.441	1484.20	ppb	6.9167	0.5	3048.53
K 766.491	7606.64	ppb	21.0984	0.3	409207
Mg 279.078	2436.20	ppb	5.6638	0.2	6374.88
Mn 257.610	199.384	ppb	0.3673	0.2	55113.2
Mo 202.032	0.4127	ppb	0.0864	20.9	13.0751
Na 330.237	27913.9	ppb	58.1610	0.2	1691.50
Ni 231.604	1.3959	ppb	0.4796	34.4	5.2793
Pb 220.353	1.4029	ppb	1.8656	133.0	5.7584
Sb 206.834	-3.8687	ppb	3.2296	83.5	-1.1668
Se 196.026	-1.7852	ppb	4.5430	254.5	0.1355
Sn 189.925	2.2056	ppb	1.0108	45.8	0.5395
Sr 216.596	66.5650	ppb	0.3191	0.5	900.976
Ti 334.941	3.6587	ppb	0.2676	7.3	946.746
Tl 190.794	3.2332	ppb	1.6670	51.6	-0.1464
V 292.401	0.8215	ppb	0.2711	33.0	23.9581
Zn 206.200	58.3901	ppb	1.0993	1.9	417.426

E04052013.vvq. All Data Report 4/8/2013, 10:52:27 AM

680-88888-a-5-a (Samp) 4/5/2013, 4:12:59 PM Rack 1, Tube 41

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.4077	0.0988	0.9414
Al 308.215	630.076	627.033	628.762
As 188.980	-6.4513u	-4.7407u	0.5743
B 249.678	123.621	123.215	125.023
Ba 389.178	154.530	154.145	153.010
Be 313.042	0.0373	0.0395	0.0390
Ca 370.602	50078	49944	50057
Cd 226.502	0.2852	0.0660	0.1626
Co 228.615	0.6125	0.2392	0.2446
Cr 267.716	3.6735	3.4914	3.6564
Cu 324.754	1.9241	2.0390	1.5095
Fe 271.441	1051.92	1069.47	1066.17
K 766.491	75138.8x	74924.2x	74813.2x
Mg 279.078	7804.70	7779.68	7814.63
Mn 257.610	1909.87	1909.70	1910.46
Mo 202.032	1.4456	1.3391	2.0045
Na 330.237	613023x	614408x	612037x
Ni 231.604	3.4934	4.5312	5.0159
Pb 220.353	8.0942	8.8302	5.8364
Sb 206.834	-2.4752u	-3.6176u	-8.7479u
Se 196.026	-0.5322	3.3761	7.8847
Sn 189.925	-1.9646u	-0.3749u	2.1528
Sr 216.596	198.382	197.447	198.367
Ti 334.941	33.8914	30.5899	30.0695
Tl 190.794	6.3260	5.4766	6.3266
V 292.401	4.0163	4.0297	4.2885
Zn 206.200	42.6329	40.1328	41.6795

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.4826b	ppb	0.4262	88.3	-56.4107
Al 308.215	628.623b	ppb	1.5262	0.2	2259.50
As 188.980	-3.5393b	ppb	3.6636	103.5	0.1642
B 249.678	123.953b	ppb	0.9484	0.8	1564.76
Ba 389.178	153.895b	ppb	0.7902	0.5	4201.94
Be 313.042	0.0386b	ppb	0.0012	3.0	-321.038
Ca 370.602	50026b	ppb	72.24	0.1	198172
Cd 226.502	0.1713b	ppb	0.1099	64.2	15.3767
Co 228.615	0.3654b	ppb	0.2140	58.6	10.1845
Cr 267.716	3.6071b	ppb	0.1006	2.8	221.163
Cu 324.754	1.8242b	ppb	0.2785	15.3	-23.9408
Fe 271.441	1062.52b	ppb	9.3277	0.9	2182.10
K 766.491	74958.8xb	ppb	165.538	0.2	4030588
Mg 279.078	7799.67b	ppb	18.0134	0.2	20336.7
Mn 257.610	1910.01b	ppb	0.3984	0.0	524794
Mo 202.032	1.5964b	ppb	0.3574	22.4	23.2010
Na 330.237	613156xb	ppb	1190.87	0.2	37211.4
Ni 231.604	4.3468b	ppb	0.7778	17.9	15.1989
Pb 220.353	7.5869b	ppb	1.5600	20.6	20.2484
Sb 206.834	-4.9469b	ppb	3.3410	67.5	-2.3314
Se 196.026	3.5762b	ppb	4.2120	117.8	3.8171
Sn 189.925	-0.0622b	ppb	2.0764	3336.4	-1.4847
Sr 216.596	198.065b	ppb	0.5359	0.3	2662.52
Ti 334.941	31.5169b	ppb	2.0727	6.6	8985.64
Tl 190.794	6.0431b	ppb	0.4906	8.1	0.2718
V 292.401	4.1115b	ppb	0.1534	3.7	122.541
Zn 206.200	41.4817b	ppb	1.2617	3.0	84.6371

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680-88888-a-6-a (Samp) 4/5/2013, 4:19:36 PM Rack 1, Tube 42

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.5894	0.5026	0.4093
Al 308.215	702.101	702.431	706.239
As 188.980	-4.8823u	-3.6105u	-4.9094u
B 249.678	96.3827	95.9258	96.6659
Ba 389.178	62.8598	63.0014	61.9409
Be 313.042	0.0818	0.0794	0.0801
Ca 370.602	23568	23632	23623
Cd 226.502	43.1089	42.9455	42.9432
Co 228.615	0.8089	0.6366	0.5958
Cr 267.716	36.2646	36.3229	36.1653
Cu 324.754	15.4753	15.9306	16.4542
Fe 271.441	2077.32	2073.99	2072.10
K 766.491	16192.1	16217.6	16232.2
Mg 279.078	2254.11	2251.81	2261.22
Mn 257.610	109.907	109.292	110.562
Mo 202.032	45.0184	45.1901	44.6265
Na 330.237	25678.8	25731.7	25908.2
Ni 231.604	6.2885	5.5653	5.5178
Pb 220.353	0.9725	-1.0764u	2.4473
Sb 206.834	-6.2702u	-2.9441u	-2.6464u
Se 196.026	6.4488	-8.2332u	4.0055
Sn 189.925	0.3973	3.5393	2.3263
Sr 216.596	135.570	136.451	135.871
Ti 334.941	6.6944	7.0069	6.8744
Tl 190.794	-1.6823u	5.6770	3.3203
V 292.401	1.8857	2.2883	2.3832
Zn 206.200	97.5231	98.8783	100.234

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.5004	ppb	0.0901	18.0	-60.8436
Al 308.215	703.590	ppb	2.2995	0.3	2531.91
As 188.980	-4.4674	ppb	0.7422	16.6	-0.8230
B 249.678	96.3248	ppb	0.3734	0.4	1227.73
Ba 389.178	62.6007	ppb	0.5757	0.9	1688.80
Be 313.042	0.0804	ppb	0.0013	1.6	-168.944
Ca 370.602	23607	ppb	34.70	0.1	93325
Cd 226.502	42.9992	ppb	0.0950	0.2	2010.20
Co 228.615	0.6804	ppb	0.1131	16.6	12.0066
Cr 267.716	36.2509	ppb	0.0797	0.2	1905.73
Cu 324.754	15.9533	ppb	0.4898	3.1	711.287
Fe 271.441	2074.47	ppb	2.6438	0.1	4261.34
K 766.491	16214.0	ppb	20.2734	0.1	872006
Mg 279.078	2255.71	ppb	4.9049	0.2	5905.72
Mn 257.610	109.920	ppb	0.6355	0.6	30552.3
Mo 202.032	44.9450	ppb	0.2889	0.6	393.323
Na 330.237	25772.9	ppb	120.141	0.5	1560.97
Ni 231.604	5.7905	ppb	0.4319	7.5	20.0847
Pb 220.353	0.7811	ppb	1.7697	226.6	4.2339
Sb 206.834	-3.9536	ppb	2.0118	50.9	-1.5201
Se 196.026	0.7404	ppb	7.8668	1062.5	1.6085
Sn 189.925	2.0876	ppb	1.5845	75.9	0.4245
Sr 216.596	135.964	ppb	0.4479	0.3	1827.97
Ti 334.941	6.8586	ppb	0.1569	2.3	1872.20
Tl 190.794	2.4383	ppb	3.7581	154.1	-1.0919
V 292.401	2.1857	ppb	0.2641	12.1	54.7396
Zn 206.200	98.8785	ppb	1.3554	141.4	199.171

E04052013.vvq. All Data Report 4/8/2013, 10:52:27 AM

680-88888-a-7-a (Samp) 4/5/2013, 4:26:01 PM Rack 1, Tube 43

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.8785	0.5645	1.0920
Al 308.215	210.842	210.139	212.897
As 188.980	-7.5053u	-10.1241u	-7.6540u
B 249.678	53.4462	55.4942	54.8027
Ba 389.178	25.8841	26.2499	24.3599
Be 313.042	0.0301	0.0402	0.0380
Ca 370.602	7761	7757	7777
Cd 226.502	0.0178	0.1481	0.1496
Co 228.615	-0.1610u	-0.0027	-0.4029u
Cr 267.716	0.3456	0.0186	0.3038
Cu 324.754	36.0819	34.3244	33.5165
Fe 271.441	519.789	522.431	521.656
K 766.491	5031.14	5042.99	5058.29
Mg 279.078	1339.99	1339.76	1345.80
Mn 257.610	35.0754	35.0813	35.1219
Mo 202.032	0.8678	-0.0340u	-0.0268u
Na 330.237	14401.1	14444.5	14460.8
Ni 231.604	1.2854	1.2782	-0.0955u
Pb 220.353	1.3244	1.6086	2.1209
Sb 206.834	-1.7707u	0.2721	-0.0484u
Se 196.026	0.5670	-2.3354u	0.6891
Sn 189.925	2.0504	0.7892	1.8032
Sr 216.596	20.9934	21.3066	21.6014
Ti 334.941	2.8923	2.2576	2.7081
Tl 190.794	0.0480u	0.2142	2.1913
V 292.401	1.4583	1.2672	1.1349
Zn 206.200	40.9003	41.4005	39.5215

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.8450	ppb	0.2653	31.4	-27.2961
Al 308.215	211.293	ppb	1.4334	0.7	762.808
As 188.980	-8.4278	ppb	1.4709	17.5	-3.9109
B 249.678	54.5810	ppb	1.0418	1.9	722.414
Ba 389.178	25.4980	ppb	1.0024	3.9	667.891
Be 313.042	0.0361	ppb	0.0053	14.7	-258.513
Ca 370.602	7765	ppb	10.69	0.1	30709
Cd 226.502	0.1051	ppb	0.0756	71.9	14.7976
Co 228.615	-0.1889	ppb	0.2015	106.7	2.0214
Cr 267.716	0.2227	ppb	0.1779	79.9	23.5467
Cu 324.754	34.6409	ppb	1.3117	3.8	1679.93
Fe 271.441	521.292	ppb	1.3582	0.3	1070.20
K 766.491	5044.14	ppb	13.6117	0.3	271427
Mg 279.078	1341.85	ppb	3.4215	0.3	3522.27
Mn 257.610	35.0929	ppb	0.0253	0.1	9995.20
Mo 202.032	0.2690	ppb	0.5186	192.8	11.9042
Na 330.237	14435.5	ppb	30.8563	0.2	873.968
Ni 231.604	0.8227	ppb	0.7952	96.7	3.3242
Pb 220.353	1.6846	ppb	0.4037	24.0	6.3528
Sb 206.834	-0.5157	ppb	1.0986	213.1	2.4246
Se 196.026	-0.3598	ppb	1.7121	475.9	0.9238
Sn 189.925	1.5476	ppb	0.6683	43.2	-0.1366
Sr 216.596	21.3005	ppb	0.3041	1.4	295.090
Ti 334.941	2.6193	ppb	0.3265	12.5	641.881
Tl 190.794	0.8178	ppb	1.1924	145.8	-2.8282
V 292.401	1.2868	ppb	0.1626	12.6	38.7767
Zn 206.200	40.6074	ppb	0.9732	2.4	829044

E04052013.vvq. All Data Report 4/8/2013, 10:52:27 AM

680-88888-a-8-a (Samp) 4/5/2013, 4:32:27 PM Rack 1, Tube 44

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.0139u	0.5907	-0.0334u
Al 308.215	324.439	323.513	314.950
As 188.980	-2.5317u	-0.2363u	-5.2656u
B 249.678	77.0797	75.7485	76.8571
Ba 389.178	32.8825	32.3867	32.0488
Be 313.042	0.0620	0.0629	0.0486
Ca 370.602	8831	8800	8769
Cd 226.502	0.1843	-0.1635u	0.2056
Co 228.615	-0.3997u	0.4231	0.8233
Cr 267.716	0.2113	0.8197	0.5134
Cu 324.754	33.1255	31.6863	33.5334
Fe 271.441	834.264	825.202	831.049
K 766.491	5595.50	5581.15	5575.88
Mg 279.078	1503.44	1496.46	1485.26
Mn 257.610	40.9851	40.8814	40.7861
Mo 202.032	0.1274	0.2184	0.0400
Na 330.237	15292.2	14971.4	15279.6
Ni 231.604	0.9955	1.1759	1.8747
Pb 220.353	3.2005	1.8502	2.7425
Sb 206.834	0.4250	1.4192	-2.1646u
Se 196.026	-2.2352u	4.4704	9.1989
Sn 189.925	2.6259	2.5258	2.3198
Sr 216.596	22.6517	21.8050	22.5354
Ti 334.941	3.0006	2.6681	3.1787
Tl 190.794	4.3984	1.1097	3.4913
V 292.401	1.2922	1.2516	1.3970
Zn 206.200	61.0306	60.7296	59.9614

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1811	ppb	0.3548	195.9	-82.0319
Al 308.215	320.967	ppb	5.2318	1.6	1156.09
As 188.980	-2.6779	ppb	2.5178	94.0	0.3959
B 249.678	76.5618	ppb	0.7131	0.9	989.098
Ba 389.178	32.4394	ppb	0.4193	1.3	858.823
Be 313.042	0.0578	ppb	0.0080	13.8	-212.394
Ca 370.602	8800	ppb	31.00	0.4	34779
Cd 226.502	0.0755	ppb	0.2072	274.6	14.3644
Co 228.615	0.2823	ppb	0.6236	220.9	8.2488
Cr 267.716	0.5148	ppb	0.3042	59.1	38.9291
Cu 324.754	32.7817	ppb	0.9704	3.0	1583.48
Fe 271.441	830.172	ppb	4.5945	0.6	1704.82
K 766.491	5584.18	ppb	10.1564	0.2	300464
Mg 279.078	1495.05	ppb	9.1694	0.6	3921.98
Mn 257.610	40.8842	ppb	0.0996	0.2	11587.7
Mo 202.032	0.1286	ppb	0.0892	69.4	10.6862
Na 330.237	15181.1	ppb	181.645	1.2	918.930
Ni 231.604	1.3487	ppb	0.4644	34.4	5.1028
Pb 220.353	2.5977	ppb	0.6867	26.4	8.4212
Sb 206.834	-0.1068	ppb	1.8501	1732.3	2.8833
Se 196.026	3.8114	ppb	5.7455	150.7	3.3977
Sn 189.925	2.4905	ppb	0.1561	6.3	0.8213
Sr 216.596	22.3307	ppb	0.4590	2.1	309.152
Ti 334.941	2.9491	ppb	0.2591	8.8	738.020
Tl 190.794	2.9998	ppb	1.6985	56.6	-0.0682
V 292.401	1.3136	ppb	0.0750	5.7	39.6949
Zn 206.200	60.5739	ppb	0.5513	0.9	122.789



E04052013.vvq. All Data Report 4/8/2013, 10:52:27 AM

680-88913-c-17-b (Samp) 4/5/2013, 4:38:52 PM Rack 1, Tube 45

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.5358	0.3548	-0.0802u
Al 308.215	6.0962	4.2392	3.8441
As 188.980	-3.5420u	-1.6788u	-2.3126u
B 249.678	1.4036	1.3850	-0.3480u
Ba 389.178	-0.0991u	0.1153	-0.1907u
Be 313.042	0.0013	0.0138	0.0521
Ca 370.602	94.00	88.53	106.4
Cd 226.502	0.0611	0.0765	0.1970
Co 228.615	-0.6280u	-0.2963u	-0.3289u
Cr 267.716	0.2223	0.5373	0.5543
Cu 324.754	1.4168	2.0100	1.4354
Fe 271.441	4.8727	4.5239	10.5315
K 766.491	10.3457	12.0099	27.8646
Mg 279.078	9.1590	11.1462	11.0043
Mn 257.610	-0.1101u	0.2187	2.0364
Mo 202.032	0.5213	-0.3330u	0.0913
Na 330.237	65.9868	-51.8968u	111.358
Ni 231.604	-0.7002u	-1.0211u	0.2016
Pb 220.353	15.2928	14.3125	14.5046
Sb 206.834	-5.3888u	-1.6327u	1.8201
Se 196.026	-7.0082u	-2.0167u	-3.7156u
Sn 189.925	17.3384	20.0054	15.8298
Sr 216.596	0.5303	0.4445	0.5957
Ti 334.941	0.1575	0.1185	0.2748
Tl 190.794	0.5354	3.3460	3.1977
V 292.401	-0.4195u	-0.4836u	0.5634
Zn 206.200	-0.9494u	0.6142	1.3478

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.2702	ppb	0.3166	117.2	-73.8044
Al 308.215	4.7265	ppb	1.2025	25.4	21.9958
As 188.980	-2.5111	ppb	0.9474	37.7	0.4430
B 249.678	0.8135	ppb	1.0059	123.6	69.7541
Ba 389.178	-0.0582	ppb	0.1570	269.9	-36.3538
Be 313.042	0.0224	ppb	0.0264	118.1	-287.920
Ca 370.602	96.32	ppb	9.177	9.5	375.5
Cd 226.502	0.1115	ppb	0.0744	66.7	13.6364
Co 228.615	-0.4177	ppb	0.1828	43.8	-1.0484
Cr 267.716	0.4380	ppb	0.1869	42.7	34.2232
Cu 324.754	1.6207	ppb	0.3372	20.8	-34.8357
Fe 271.441	6.6427	ppb	3.3723	50.8	12.8235
K 766.491	16.7401	ppb	9.6700	57.8	1114.52
Mg 279.078	10.4365	ppb	1.1086	10.6	48.5572
Mn 257.610	0.7150	ppb	1.1561	161.7	542.588
Mo 202.032	0.0932	ppb	0.4272	458.2	10.4360
Na 330.237	41.8160	ppb	84.2685	201.5	0.9363
Ni 231.604	-0.5066	ppb	0.6339	125.1	-1.1630
Pb 220.353	14.7033	ppb	0.5195	3.5	35.8460
Sb 206.834	-1.7338	ppb	3.6055	208.0	1.1081
Se 196.026	-4.2468	ppb	2.5378	59.8	-1.3918
Sn 189.925	17.7245	ppb	2.1144	11.9	16.2722
Sr 216.596	0.5235	ppb	0.0759	14.5	16.2878
Ti 334.941	0.1836	ppb	0.0813	44.3	-68.0952
Tl 190.794	2.3597	ppb	1.5816	67.0	-0.7206
V 292.401	-0.1132	ppb	0.5869	518.2	-5.2826
Zn 206.200	0.3376	ppb	1.1733	144.8	487.4583

E04052013.vvq. All Data Report 4/8/2013, 10:52:27 AM

680-88899-a-1-a (Samp) 4/5/2013, 4:45:18 PM Rack 1, Tube 46

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.0103u	0.3517	-0.2924u
Al 308.215	12731.4	12792.5	12919.6
As 188.980	-4.9386u	-4.4260u	-4.1122u
B 249.678	9.3480	10.1806	8.0121
Ba 389.178	65.0326	66.2999	65.8543
Be 313.042	0.6738	0.6867	0.6802
Ca 370.602	8529	8581	8592
Cd 226.502	0.3051	0.3886	0.4029
Co 228.615	4.5040	4.3176	4.7829
Cr 267.716	13.6383	13.8159	13.8588
Cu 324.754	220.495	219.639	220.819
Fe 271.441	2961.01	2967.79	2977.04
K 766.491	7709.72	7712.14	7730.18
Mg 279.078	4763.01	4779.71	4764.73
Mn 257.610	33.0210	33.0698	33.0846
Mo 202.032	0.0261	0.0314	-0.0666u
Na 330.237	43273.6	43345.2	43357.8
Ni 231.604	6.7946	6.9812	6.7962
Pb 220.353	2.3634	1.8909	3.7560
Sb 206.834	-6.1031u	-1.8272u	-5.1139u
Se 196.026	5.3329	-1.5105u	2.4115
Sn 189.925	2.2538	-0.0028	-0.8855u
Sr 216.596	55.9831	56.5371	56.0918
Ti 334.941	14.3582	14.4412	14.5458
Tl 190.794	1.3696	-0.6275u	0.5493
V 292.401	2.2894	2.2285	2.0385
Zn 206.200	25.2780	23.1631	24.5660

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0232	ppb	0.3223	1389.4	-96.7210
Al 308.215	12814.5	ppb	95.9948	0.7	45960.5
As 188.980	-4.4922	ppb	0.4172	9.3	-0.9896
B 249.678	9.1802	ppb	1.0939	11.9	167.832
Ba 389.178	65.7290	ppb	0.6429	1.0	1783.37
Be 313.042	0.6802	ppb	0.0065	1.0	1095.00
Ca 370.602	8568	ppb	33.56	0.4	33644
Cd 226.502	0.3655	ppb	0.0528	14.4	34.1590
Co 228.615	4.5348	ppb	0.2342	5.2	64.6412
Cr 267.716	13.7710	ppb	0.1169	0.8	732.464
Cu 324.754	220.318	ppb	0.6095	0.3	11322.2
Fe 271.441	2968.61	ppb	8.0453	0.3	6099.07
K 766.491	7717.35	ppb	11.1792	0.1	415160
Mg 279.078	4769.15	ppb	9.1834	0.2	12462.1
Mn 257.610	33.0585	ppb	0.0333	0.1	9477.53
Mo 202.032	-0.0030	ppb	0.0551	1821.1	9.4341
Na 330.237	43325.5	ppb	45.3762	0.1	2626.54
Ni 231.604	6.8573	ppb	0.1073	1.6	23.7040
Pb 220.353	2.6701	ppb	0.9696	36.3	8.2818
Sb 206.834	-4.3481	ppb	2.2385	51.5	-1.5028
Se 196.026	2.0780	ppb	3.4338	165.2	2.3840
Sn 189.925	0.4552	ppb	1.6190	355.7	-1.2323
Sr 216.596	56.2040	ppb	0.2936	0.5	762.729
Ti 334.941	14.4484	ppb	0.0940	0.7	4079.59
Tl 190.794	0.4304	ppb	1.0039	233.2	-3.6062
V 292.401	2.1855	ppb	0.1309	6.0	66.1971
Zn 206.200	24.3357	ppb	1.0761	4.4	503463

E04052013.vvq. All Data Report 4/8/2013, 10:52:27 AM

680-88899-a-2-a (Samp) 4/5/2013, 4:51:55 PM Rack 1, Tube 47

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.3831	0.2436	0.1942
Al 308.215	54.1869	54.2581	47.0089
As 188.980	-7.0474u	-5.2726u	-2.4510u
B 249.678	14.5420	15.1699	16.3314
Ba 389.178	47.9776	47.8177	47.2534
Be 313.042	0.1873	0.1830	0.1745
Ca 370.602	26874	26900	26804
Cd 226.502	0.8720	0.8848	0.7481
Co 228.615	4.1319	4.3657	3.9926
Cr 267.716	-0.3671u	-0.1569u	-0.3944u
Cu 324.754	2690.70	2690.13	2674.74
Fe 271.441	40.1086	42.0613	35.8730
K 766.491	3894.23	3893.80	3892.06
Mg 279.078	5869.72	5871.07	5850.40
Mn 257.610	67.5629	67.5767	67.2711
Mo 202.032	0.9069	1.3030	1.2668
Na 330.237	196403x	196748x	196645x
Ni 231.604	13.8640	14.4336	15.6384
Pb 220.353	0.6687	2.7154	-0.2736u
Sb 206.834	1.5247	-1.2522u	-4.0328u
Se 196.026	7.0759	-4.5239u	-2.3469u
Sn 189.925	-1.0107u	1.6692	1.2763
Sr 216.596	86.9312	88.0125	86.1414
Ti 334.941	0.7717	0.6670	0.7299
Tl 190.794	2.8341	0.1689	3.5115
V 292.401	0.2103	0.3462	0.1676
Zn 206.200	24.0912	23.3670	23.1241

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.2737b	ppb	0.0980	35.8	-77.5280
Al 308.215	51.8180b	ppb	4.1649	8.0	190.960
As 188.980	-4.9236b	ppb	2.3180	47.1	-1.0915
B 249.678	15.3478b	ppb	0.9079	5.9	246.322
Ba 389.178	47.6829b	ppb	0.3805	0.8	1288.04
Be 313.042	0.1816b	ppb	0.0065	3.6	31.3424
Ca 370.602	26860b	ppb	49.57	0.2	106416
Cd 226.502	0.8350b	ppb	0.0755	9.0	45.9850
Co 228.615	4.1634b	ppb	0.1885	4.5	59.3620
Cr 267.716	-0.3061b	ppb	0.1300	42.5	-0.4462
Cu 324.754	2685.19b	ppb	9.0559	0.3	139313
Fe 271.441	39.3476b	ppb	3.1635	8.0	80.7456
K 766.491	3893.36b	ppb	1.1476	0.0	209552
Mg 279.078	5863.73b	ppb	11.5634	0.2	15321.5
Mn 257.610	67.4702b	ppb	0.1726	0.3	18925.2
Mo 202.032	1.1589b	ppb	0.2190	18.9	19.5342
Na 330.237	196599xb	ppb	177.017	0.1	11930.3
Ni 231.604	14.6453b	ppb	0.9060	6.2	49.8299
Pb 220.353	1.0368b	ppb	1.5281	147.4	4.8970
Sb 206.834	-1.2534b	ppb	2.7788	221.7	1.6024
Se 196.026	0.0684b	ppb	6.1656	9016.8	1.1836
Sn 189.925	0.6450b	ppb	1.4472	224.4	-0.9625
Sr 216.596	87.0284b	ppb	0.9393	1.1	1175.20
Ti 334.941	0.7228b	ppb	0.0527	7.3	99.0735
Tl 190.794	2.1715b	ppb	1.7670	81.4	-1.0903
V 292.401	0.2414b	ppb	0.0933	38.6	3.9910
Zn 206.200	23.5274b	ppb	0.5931	2.1	487863

E04052013.vvq. All Data Report 4/8/2013, 10:52:27 AM

680-88938-a-1-a (Samp) 4/5/2013, 4:58:22 PM Rack 1, Tube 48  
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	2.3347	1.9507u	1.6901u
Al 308.215	129.785	133.545	130.664
As 188.980	0.6218	-0.5389	1.1162
B 249.678	2430.48	2449.09	2468.19
Ba 389.178	16.7763	17.9487	17.7833
Be 313.042	0.3222u	0.3126u	0.3056u
Ca 370.602	201067	199772	199862
Cd 226.502	2.3594	2.4054	2.7338
Co 228.615	1.2268	1.0737	1.2668
Cr 267.716	-2.4251u	-2.1348	-2.6475u
Cu 324.754	286.378	285.781	287.566
Fe 271.441	2408.29	2400.42	2400.97
K 766.491	284264x	283713x	283219x
Mg 279.078	657890	655545	655990
Mn 257.610	944.026	942.611	942.868
Mo 202.032	5.1850	5.7201	5.3440
Na 330.237	5831806x	5824703x	5824692x
Ni 231.604	443.025	442.551	443.210
Pb 220.353	0.0764	2.7810	-2.9805u
Sb 206.834	0.5233	-2.5965u	-1.7461u
Se 196.026	8.6704	15.2606	-3.1315u
Sn 189.925	-2.7620u	-3.2384u	2.6904
Sr 216.596	3795.50	3781.15	3764.72
Ti 334.941	-7.2861	-7.4988	-7.4307
Tl 190.794	1.0665u	-0.8571u	0.8172u
V 292.401	7.5971	7.5456	7.5832
Zn 206.200	562.948	564.865	566.250

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	1.9918b	ppb	0.3243	16.3	-121.961
Al 308.215	131.332b	ppb	1.9668	1.5	476.417
As 188.980	0.3997b	ppb	0.8496	212.6	4.6053
B 249.678	2449.26b	ppb	18.8572	0.8	29815.6
Ba 389.178	17.5027b	ppb	0.6346	3.6	2470.75
Be 313.042	0.3135b	ppb	0.0084	2.7	-410.010
Ca 370.602	200234b	ppb	723.1	0.4	793136
Cd 226.502	2.4995b	ppb	0.2041	8.2	100.841
Co 228.615	1.1891b	ppb	0.1019	8.6	20.1144
Cr 267.716	-2.4025b	ppb	0.2571	10.7	5.7734
Cu 324.754	286.575b	ppb	0.9090	0.3	14762.6
Fe 271.441	2403.23b	ppb	4.3930	0.2	4936.74
K 766.491	283732xb	ppb	522.395	0.2	15255895
Mg 279.078	656475b	ppb	1245.70	0.2	1713093
Mn 257.610	943.168b	ppb	0.7541	0.1	265597
Mo 202.032	5.4163b	ppb	0.2748	5.1	55.7359
Na 330.237	5827068xb	ppb	4104.24	0.1	353652
Ni 231.604	442.929b	ppb	0.3400	0.1	1491.24
Pb 220.353	-0.0410b	ppb	2.8826	7028.6	2.7122
Sb 206.834	-1.2731b	ppb	1.6128	126.7	1.5694
Se 196.026	6.9331b	ppb	9.3183	134.4	5.5332
Sn 189.925	-1.1033b	ppb	3.2941	298.6	-0.1663
Sr 216.596	3780.46b	ppb	15.4041	0.4	50542.1
Ti 334.941	-7.4052b	ppb	0.1086	1.5	314.588
Tl 190.794	0.3422b	ppb	1.0461	305.7	-5.4310
V 292.401	7.5753b	ppb	0.0267	0.4	191.495
Zn 206.200	564.688b	ppb	1.6583	0.3	4129.84

E04052013.vvq. All Data Report 4/8/2013, 10:52:27 AM

Cont Calib Verif (CCV) 4/5/2013, 5:04:48 PM Rack 1, Tube 49  
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	507.204	500.016	502.752
Al 308.215	4971.49	4982.46	5042.09
As 188.980	479.007	477.785	480.498
B 249.678	527.702	529.701	536.470
Ba 389.178	4793.50	4773.48	4821.39
Be 313.042	483.828	482.590	488.896
Ca 370.602	4985	5029	5123
Cd 226.502	482.266	480.546	485.687
Co 228.615	485.711	484.430	490.377
Cr 267.716	4944.05	4947.41	5004.75
Cu 324.754	4784.29	4790.72	4834.35
Fe 271.441	4912.32	4895.87	4949.69
K 766.491	10000.5	10035.4	10147.9
Mg 279.078	5163.86	5369.05	5496.01
Mn 257.610	4862.32	4854.52	4896.95
Mo 202.032	493.523	494.432	500.262
Na 330.237	9353.66	11526.1	12474.0
Ni 231.604	2426.63	2403.72	2433.94
Pb 220.353	490.281	493.056	492.428
Sb 206.834	981.291	991.834	996.933
Se 196.026	4894.44	4899.00	4948.92
Sn 189.925	4970.44	4942.07	5000.57
Sr 216.596	2425.91	2425.40	2454.48
Ti 334.941	492.336	491.278	497.524
Tl 190.794	4953.44	4933.98	4979.97
V 292.401	4869.20	4854.18	4901.04
Zn 206.200	2435.90	2430.13	2453.26

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	503.324	ppb	3.6278	0.7	41336.2	100.66479
Al 308.215	4998.68	ppb	37.9895	0.8	17917.8	99.97359
As 188.980	479.097	ppb	1.3587	0.3	360.423	95.81931
B 249.678	531.291	ppb	4.5952	0.9	6508.94	21.25164Q
Ba 389.178	4796.12	ppb	24.0641	0.5	131240	95.92247
Be 313.042	485.105	ppb	3.3412	0.7	1020626	97.02090
Ca 370.602	5046	ppb	70.65	1.4	19823	100.91511
Cd 226.502	482.833	ppb	2.6167	0.5	22432.2	96.56662
Co 228.615	486.839	ppb	3.1301	0.6	6435.12	97.36788
Cr 267.716	4965.41	ppb	34.1138	0.7	259308	99.30813
Cu 324.754	4803.12	ppb	27.2342	0.6	249254	96.06239
Fe 271.441	4919.29	ppb	27.5775	0.6	10251.8	98.38588
K 766.491	10061.3	ppb	77.0163	0.8	541187	100.61263
Mg 279.078	5342.97	ppb	167.604	3.1	13866.1	106.85949
Mn 257.610	4871.26	ppb	22.5860	0.5	1337765	97.42525
Mo 202.032	496.072	ppb	3.6565	0.7	4234.75	99.21446
Na 330.237	11117.9	ppb	1599.72	14.4	645.530	148.23909Q
Ni 231.604	2421.43	ppb	15.7663	0.7	8149.75	96.85732
Pb 220.353	491.921	ppb	1.4553	0.3	1116.90	98.38426
Sb 206.834	990.019	ppb	7.9769	0.8	1123.13	99.00194
Se 196.026	4914.12	ppb	30.2206	0.6	2912.54	98.28237
Sn 189.925	4971.03	ppb	29.2542	0.6	5043.68	99.42056
Sr 216.596	2435.26	ppb	16.6432	0.7	32480.3	97.41054
Ti 334.941	493.713	ppb	3.3429	0.7	142781	98.74261
Tl 190.794	4955.79	ppb	23.0850	0.5	6365.54	99.11587
V 292.401	4874.80	ppb	23.9276	0.5	153539	97.49609
Zn 206.200	2439.76	ppb	12.0344	0.5	4856.28	97.59055

E04052013.vvq. All Data Report 4/8/2013, 10:52:27 AM

Cont Calib Blank (CCB) 4/5/2013, 5:11:12 PM Rack 1, Tube 50  
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.5040	-0.2113u	1.2432
Al 308.215	3.4656	3.5105	5.9118
As 188.980	3.9267	-2.6837u	-5.7016u
B 249.678	17.3720	16.9443	16.4037
Ba 389.178	0.7971	2.7001	2.5755
Be 313.042	0.0553	0.1221	0.2860
Ca 370.602	8.393	25.03	46.58
Cd 226.502	0.1413	0.2606	0.3762
Co 228.615	0.0372	0.1385	-0.0044u
Cr 267.716	0.4328	0.9928	2.8602
Cu 324.754	0.0257	2.3275	3.3681
Fe 271.441	0.1142	0.2070	2.6524
K 766.491	9.0715	28.5052	53.8557
Mg 279.078	20.4546	67.8587	114.311
Mn 257.610	-0.4231u	0.6552	2.6063
Mo 202.032	0.2526	1.4897	0.5933
Na 330.237	90.3511	543.647	940.354
Ni 231.604	-0.5472u	-1.3080u	1.9635
Pb 220.353	0.9512	-0.2040u	0.3459
Sb 206.834	2.1779	0.1368	1.9479
Se 196.026	4.1141	-3.3171u	5.1306
Sn 189.925	3.1621	5.2407	4.0804
Sr 216.596	0.5606	1.3031	2.4822
Ti 334.941	0.1340	0.2377	0.5035
Tl 190.794	5.7676	9.3015	8.9543
V 292.401	0.6526	1.6094	3.3732
Zn 206.200	0.1783	1.7834	1.7535

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.5120	ppb	0.7273	142.1	-53.8813	0.51197
Al 308.215	4.2960	ppb	1.3996	32.6	20.4855	4.29598
As 188.980	-1.4862	ppb	4.9246	331.4	1.2086	-1.48622
B 249.678	16.9067	ppb	0.4852	2.9	265.295	16.90667
Ba 389.178	2.0242	ppb	1.0645	52.6	20.7967	2.02424
Be 313.042	0.1545	ppb	0.1187	76.9	-10.1250	0.15448
Ca 370.602	26.67	ppb	19.15	71.8	100.5	26.66893
Cd 226.502	0.2594	ppb	0.1174	45.3	20.4661	0.25936
Co 228.615	0.0571	ppb	0.0735	128.7	5.2089	0.05711
Cr 267.716	1.4286	ppb	1.2710	89.0	85.9460	1.42861
Cu 324.754	1.9071	ppb	1.7104	89.7	-19.9698	1.90711
Fe 271.441	0.9912	ppb	1.4394	145.2	1.1945	0.99120
K 766.491	30.4775	ppb	22.4571	73.7	1853.15	30.47748
Mg 279.078	67.5416	ppb	46.9293	69.5	197.568	67.54158
Mn 257.610	0.9462	ppb	1.5355	162.3	606.573	0.94615
Mo 202.032	0.7786	ppb	0.6390	82.1	16.2846	0.77855
Na 330.237	524.784	ppb	425.315	81.0	30.2423	524.78387Z
Ni 231.604	0.0361	ppb	1.7120	4746.8	0.6630	0.03607
Pb 220.353	0.3644	ppb	0.5778	158.6	3.3577	0.36435
Sb 206.834	1.4208	ppb	1.1180	78.7	4.5148	1.42084
Se 196.026	1.9759	ppb	4.6119	233.4	2.2930	1.97586
Sn 189.925	4.1611	ppb	1.0416	25.0	2.5059	4.16106
Sr 216.596	1.4486	ppb	0.9690	66.9	28.5902	1.44865
Ti 334.941	0.2917	ppb	0.1906	65.3	-36.5705	0.29174
Tl 190.794	8.0078	ppb	1.9478	24.3	6.5475	8.00778
V 292.401	1.8784	ppb	1.3801	73.5	57.4138	1.87841
Zn 206.200	1.2384	ppb	0.9182	74.1	4.2542	1.23839

E04052013.wvq. All Data Report 4/8/2013, 10:52:27 AM

680-88938-a-2-a (Samp) 4/5/2013, 5:17:36 PM Rack 1, Tube 51

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.3392	0.5424	0.4206
Al 308.215	1033.48	1028.23	1028.63
As 188.980	-1.3695u	1.7023	1.1494
B 249.678	28.8126	29.7170	30.2909
Ba 389.178	10.0998	11.5871	9.8623
Be 313.042	0.0239u	0.0209u	0.0368
Ca 370.602	886.7	894.0	887.2
Cd 226.502	32.3316	32.3914	32.4061
Co 228.615	4.2997	4.0620	4.6640
Cr 267.716	67.9062	68.4281	68.3431
Cu 324.754	5069.82	5080.07	5071.51
Fe 271.441	13409.1	13413.2	13422.8
K 766.491	1106.29	1083.34	1095.44
Mg 279.078	336.047	336.158	339.135
Mn 257.610	216.368	216.573	216.098
Mo 202.032	12.6480	12.3272	11.7977
Na 330.237	474394x	474802x	475331x
Ni 231.604	2318.18	2320.91	2325.01
Pb 220.353	628.714	627.788	626.019
Sb 206.834	14.0649	9.9079	11.8350
Se 196.026	4.5648	-0.1132	-2.3424u
Sn 189.925	671.897	674.339	671.537
Sr 216.596	10.8987	10.9055	11.0257
Ti 334.941	20.7565	20.8201	21.2583
Tl 190.794	3.4761	-1.3900u	2.2409
V 292.401	3.6113	3.7362	3.6040
Zn 206.200	922.773	919.263	923.209

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.4340b	ppb	0.1022	23.6	-59.4124
Al 308.215	1030.11b	ppb	2.9259	0.3	3700.18
As 188.980	0.4941b	ppb	1.6374	331.4	2.5289
B 249.678	29.6068b	ppb	0.7453	2.5	403.294
Ba 389.178	10.5164b	ppb	0.9348	8.9	276.608
Be 313.042	0.0272b	ppb	0.0085	31.1	-341.866
Ca 370.602	889.3b	ppb	4.068	0.5	2168
Cd 226.502	32.3764b	ppb	0.0394	0.1	1548.40
Co 228.615	4.3419b	ppb	0.3032	7.0	61.0927
Cr 267.716	68.2258b	ppb	0.2800	0.4	3588.07
Cu 324.754	5073.80b	ppb	5.4964	0.1	263349
Fe 271.441	13415.0b	ppb	6.9876	0.1	27561.0
K 766.491	1095.03b	ppb	11.4814	1.0	59091.6
Mg 279.078	337.113b	ppb	1.7521	0.5	899.381
Mn 257.610	216.346b	ppb	0.2383	0.1	59785.4
Mo 202.032	12.2577b	ppb	0.4294	3.5	113.513
Na 330.237	474842xb	ppb	469.953	0.1	28804.7
Ni 231.604	2321.37b	ppb	3.4353	0.1	7813.20
Pb 220.353	627.507b	ppb	1.3693	0.2	1424.25
Sb 206.834	11.9359b	ppb	2.0803	17.4	16.8879
Se 196.026	0.7031b	ppb	3.5252	501.4	1.6980
Sn 189.925	672.591b	ppb	1.5243	0.2	681.145
Sr 216.596	10.9433b	ppb	0.0714	0.7	113.021
Ti 334.941	20.9449b	ppb	0.2732	1.3	5904.33
Tl 190.794	1.4423b	ppb	2.5294	175.4	-3.8842
V 292.401	3.6505b	ppb	0.0743	2.0	102.141
Zn 206.200	921.748b	ppb	2.1637	0.2	1842.86

E04052013.wvq. All Data Report 4/8/2013, 10:52:27 AM

680-88938-a-3-a (Samp) 4/5/2013, 5:24:00 PM Rack 1, Tube 52

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.8486	0.5092u	0.7807
Al 308.215	2376.71	2378.21	2362.37
As 188.980	4.7073	4.9080	10.5721
B 249.678	631.451	635.858	640.542
Ba 389.178	50.3017	50.4463	49.8028
Be 313.042	0.1021	0.1110	0.0985
Ca 370.602	51521	51462	51295
Cd 226.502	40.5054	40.5880	40.5710
Co 228.615	2.6186	3.2643	2.5355
Cr 267.716	14.4455	14.7067	14.5979
Cu 324.754	10450.5	10440.4	10355.7
Fe 271.441	3654.01	3664.27	3666.75
K 766.491	29505.9	29578.0	29505.2
Mg 279.078	44788.5	44722.9	44772.9
Mn 257.610	306.492	306.765	306.485
Mo 202.032	5.4138	4.6253	4.1772
Na 330.237	438269x	439121x	437890x
Ni 231.604	78.8837	77.5175	79.0693
Pb 220.353	92.2272	90.8220	90.5975
Sb 206.834	-1.5763u	6.2129	-0.0434
Se 196.026	3.1549	8.7949	-4.4816u
Sn 189.925	36.2691	34.4864	37.8351
Sr 216.596	1048.45	1045.23	1042.28
Ti 334.941	55.5021	55.1762	54.8588
Tl 190.794	5.3723	6.6074	1.6796
V 292.401	26.8632	27.0107	26.5601
Zn 206.200	21948.7	21923.0	21945.6

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.7128b	ppb	0.1796	25.2	-87.0775
Al 308.215	2372.43b	ppb	8.7441	0.4	8513.11
As 188.980	6.7291b	ppb	3.3296	49.5	7.8247
B 249.678	635.951b	ppb	4.5460	0.7	7782.18
Ba 389.178	50.1836b	ppb	0.3376	0.7	1482.51
Be 313.042	0.1038b	ppb	0.0065	6.2	-156.400
Ca 370.602	51426b	ppb	117.3	0.2	203404
Cd 226.502	40.5548b	ppb	0.0437	0.1	1899.34
Co 228.615	2.8061b	ppb	0.3989	14.2	42.8537
Cr 267.716	14.5834b	ppb	0.1312	0.9	783.001
Cu 324.754	10415.5b	ppb	52.0465	0.5	540721
Fe 271.441	3661.68b	ppb	6.7571	0.2	7522.75
K 766.491	29529.7b	ppb	41.8077	0.1	1587964
Mg 279.078	44761.4b	ppb	34.3047	0.1	116821
Mn 257.610	306.581b	ppb	0.1600	0.1	84956.5
Mo 202.032	4.7388b	ppb	0.6261	13.2	49.8311
Na 330.237	438426xb	ppb	630.657	0.1	26412.9
Ni 231.604	78.4902b	ppb	0.8475	1.1	264.817
Pb 220.353	91.2156b	ppb	0.8833	1.0	209.182
Sb 206.834	1.5311b	ppb	4.1264	269.5	4.8138
Se 196.026	2.4894b	ppb	6.6632	267.7	2.7144
Sn 189.925	36.1969b	ppb	1.6755	4.6	35.2390
Sr 216.596	1045.32b	ppb	3.0845	0.3	13983.7
Ti 334.941	55.1790b	ppb	0.3216	0.6	16020.4
Tl 190.794	4.5531b	ppb	2.5640	56.3	1.1059
V 292.401	26.8113b	ppb	0.2297	0.9	840.800
Zn 206.200	21939.1b	ppb	14.0574	0.1	43828.5



E04052013.vvq. All Data Report 4/8/2013, 10:52:27 AM

680-88938-a-4-a (Samp) 4/5/2013, 5:30:24 PM Rack 1, Tube 53

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	3.7603	3.8746	3.8270
Al 308.215	16615.5	16609.5	16710.1
As 188.980	77.4846	71.5356	69.3857
B 249.678	1165.28	1174.60	1182.79
Ba 389.178	42.6050	42.3112	42.5616
Be 313.042	2.6962	2.6977	2.6913
Ca 370.602	163409	163170	163562
Cd 226.502	83.9648	84.7577	83.9453
Co 228.615	688.431	688.248	687.622
Cr 267.716	1493.29	1494.66	1498.56
Cu 324.754	62839.3x	63557.4x	63308.9x
Fe 271.441	273216	274091	273687
K 766.491	142716x	142700x	142343x
Mg 279.078	311774	312279	313225
Mn 257.610	4480.67	4501.94	4496.86
Mo 202.032	15.7463	16.0264	14.6677
Na 330.237	2871552x	2875505x	2873594x
Ni 231.604	23359.9x	23440.6x	23479.4x
Pb 220.353	149.749	147.624	152.773
Sb 206.834	11.9426	0.7934	10.9095
Se 196.026	7.3990	-0.0185	-2.8346
Sn 189.925	15.1127	14.8398	15.0985
Sr 216.596	2434.88	2443.55	2443.75
Ti 334.941	295.593	295.070	295.952
Tl 190.794	4.1390u	7.2553u	8.2486u
V 292.401	85.3323	86.6046	85.2331
Zn 206.200	19505.7	19581.9	19556.4

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	3.8206b	ppb	0.0574	1.5	120.049
Al 308.215	16645.0b	ppb	56.4492	0.3	59697.7
As 188.980	72.8020b	ppb	4.1953	5.8	55.0295
B 249.678	1174.22b	ppb	8.7652	0.7	13994.3
Ba 389.178	42.4926b	ppb	0.1586	0.4	2550.32
Be 313.042	2.6951b	ppb	0.0033	0.1	5001.41
Ca 370.602	163380b	ppb	197.5	0.1	619764
Cd 226.502	84.2226b	ppb	0.4635	0.6	4731.79
Co 228.615	688.100b	ppb	0.4239	0.1	9082.86
Cr 267.716	1495.50b	ppb	2.7364	0.2	78263.7
Cu 324.754	63235.2xb	ppb	364.647	0.6	3283532
Fe 271.441	273665b	ppb	437.548	0.2	562369
K 766.491	142586xb	ppb	211.267	0.1	7666782
Mg 279.078	312426b	ppb	736.594	0.2	815272
Mn 257.610	4493.16b	ppb	11.1090	0.2	1237786
Mo 202.032	15.4801b	ppb	0.7174	4.6	125.454
Na 330.237	2873550xb	ppb	1977.11	0.1	174130
Ni 231.604	23426.7xb	ppb	60.9589	0.3	78847.7
Pb 220.353	150.049b	ppb	2.5875	1.7	342.881
Sb 206.834	7.8818b	ppb	6.1605	78.2	33.8134
Se 196.026	1.5153b	ppb	5.2864	348.9	5.2893
Sn 189.925	15.0170b	ppb	0.1536	1.0	14.8663
Sr 216.596	2440.73b	ppb	5.0605	0.2	32288.6
Ti 334.941	295.538b	ppb	0.4436	0.2	86657.7
Tl 190.794	6.5477b	ppb	2.1442	32.7	-35.4455
V 292.401	85.7233b	ppb	0.7648	0.9	2580.72
Zn 206.200	19548.0b	ppb	38.8197	0.2	39946.2

E04052013.vvq. All Data Report 4/8/2013, 10:52:27 AM

680-88911-d-1-b (Samp) 4/5/2013, 5:36:49 PM Rack 1, Tube 54

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.4728u	0.4337u	1.3008
Al 308.215	167.229	166.565	169.023
As 188.980	69.7254	76.7783	65.6318
B 249.678	13275.9x	13322.9x	13420.3x
Ba 389.178	369.813	369.726	370.581
Be 313.042	0.0793	0.0798	0.0837
Ca 370.602	292365	292787	293280
Cd 226.502	0.0864	0.1546	0.1499
Co 228.615	21.2678	21.7111	21.1079
Cr 267.716	70.2282	70.3341	70.4485
Cu 324.754	0.8718	1.0910	1.1642
Fe 271.441	17142.9	17087.0	17127.4
K 766.491	262360x	262087x	262210x
Mg 279.078	99542.5	99380.9	99548.0
Mn 257.610	1274.02	1272.19	1273.80
Mo 202.032	3.6284	3.7214	3.6985
Na 330.237	1234324x	1234309x	1237771x
Ni 231.604	74.4035	73.5995	77.0340
Pb 220.353	-1.3909u	2.0901	1.9975
Sb 206.834	11.0605	6.3209	5.5247
Se 196.026	5.1061	12.6647	1.7430
Sn 189.925	5.0234	4.3113	4.5010
Sr 216.596	1300.14	1301.58	1303.73
Ti 334.941	23.8846	24.0105	23.9453
Tl 190.794	2.3866u	2.6191u	8.4499
V 292.401	70.9651	70.4654	71.1042
Zn 206.200	68.2183	68.2238	67.8094

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.7358b	ppb	0.4897	66.6	-93.9460
Al 308.215	167.606b	ppb	1.2715	0.8	605.617
As 188.980	70.7118b	ppb	5.6383	8.0	57.9394
B 249.678	13339.7xb	ppb	73.6638	0.6	162115
Ba 389.178	370.040b	ppb	0.4706	0.1	10425.9
Be 313.042	0.0809b	ppb	0.0024	3.0	-238.579
Ca 370.602	292811b	ppb	458.4	0.2	1158462
Cd 226.502	0.1303b	ppb	0.0381	29.2	59.2522
Co 228.615	21.3623b	ppb	0.3125	1.5	286.610
Cr 267.716	70.3370b	ppb	0.1101	0.2	3718.95
Cu 324.754	1.0424b	ppb	0.1522	14.6	-60.2198
Fe 271.441	17119.1b	ppb	28.8556	0.2	35174.7
K 766.491	262219xb	ppb	136.891	0.1	14099179
Mg 279.078	99490.5b	ppb	94.9458	0.1	259623
Mn 257.610	1273.34b	ppb	0.9964	0.1	350940
Mo 202.032	3.6828b	ppb	0.0485	1.3	39.9185
Na 330.237	1235468xb	ppb	1994.40	0.2	74975.2
Ni 231.604	75.0123b	ppb	1.7964	2.4	253.444
Pb 220.353	0.8989b	ppb	1.9835	220.7	4.9101
Sb 206.834	7.6354b	ppb	2.9929	39.2	12.3380
Se 196.026	6.5046b	ppb	5.5935	86.0	5.4755
Sn 189.925	4.6119b	ppb	0.3688	8.0	3.6564
Sr 216.596	1301.82b	ppb	1.8073	0.1	17448.3
Ti 334.941	23.9468b	ppb	0.0630	0.3	7172.60
Tl 190.794	4.4852b	ppb	3.4355	76.6	-2.3579
V 292.401	70.8449b	ppb	0.3360	0.5	2220.86
Zn 206.200	68.0838b	ppb	0.2377	0.3	137.519

E04052013.vvq. All Data Report 4/8/2013, 10:52:27 AM

680-88919-e-1-a (Samp) 4/5/2013, 5:43:58 PM Rack 1, Tube 55

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.0359u	1.1150	0.7570
Al 308.215	354.168	410.386	352.850
As 188.980	-2.9047u	-2.5887u	-3.0924u
B 249.678	174.680	183.727	149.496
Ba 389.178	32.7166	38.6643	34.3532
Be 313.042	0.2424	0.2817	0.3360
Ca 370.602	22669	26216	22407
Cd 226.502	0.1843	0.1635	0.2341
Co 228.615	-0.1438u	0.8770	0.9721
Cr 267.716	2.0519	2.6730	2.8240
Cu 324.754	19.5813	21.9039	19.5297
Fe 271.441	403.966	473.615	435.833
K 766.491	3174.67	3535.11	3133.43
Mg 279.078	6454.61	7476.95	6432.57
Mn 257.610	195.149	227.486	201.988
Mo 202.032	0.0811	0.5443	0.8343
Na 330.237	13751.3	15762.7	14547.7
Ni 231.604	6.7692	7.8554	8.3634
Pb 220.353	3.9229	0.3887	3.6334
Sb 206.834	0.7330	-2.4092u	0.1617
Se 196.026	-5.0592u	-2.1251u	8.7071
Sn 189.925	0.9986	3.7989	2.9282
Sr 216.596	195.155	226.549	192.928
Ti 334.941	6.6188	7.5595	6.7654
Tl 190.794	3.1920	1.2108	6.3564
V 292.401	2.0788	1.8488	2.4470
Zn 206.200	14.2804	15.7765	15.9561

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.6120	ppb	0.5890	96.2	-54.6289
Al 308.215	372.468	ppb	32.8445	8.8	1340.81
As 188.980	-2.8619	ppb	0.2545	8.9	0.4140
B 249.678	169.301	ppb	17.7381	10.5	2116.33
Ba 389.178	35.2447	ppb	3.0724	8.7	951.232
Be 313.042	0.2867	ppb	0.0470	16.4	274.891
Ca 370.602	23764	ppb	2127	9.0	94116
Cd 226.502	0.1940	ppb	0.0363	18.7	18.7660
Co 228.615	0.5684	ppb	0.6187	108.8	12.1452
Cr 267.716	2.5163	ppb	0.4092	16.3	144.144
Cu 324.754	20.3383	ppb	1.3561	6.7	937.222
Fe 271.441	437.805	ppb	34.8661	8.0	898.696
K 766.491	3281.07	ppb	220.970	6.7	176631
Mg 279.078	6788.04	ppb	596.712	8.8	17730.7
Mn 257.610	208.208	ppb	17.0421	8.2	57574.6
Mo 202.032	0.4866	ppb	0.3799	78.1	13.7647
Na 330.237	14687.3	ppb	1012.91	6.9	889.461
Ni 231.604	7.6627	ppb	0.8144	10.6	26.3414
Pb 220.353	2.6483	ppb	1.9623	74.1	8.5805
Sb 206.834	-0.5048	ppb	1.6738	331.6	2.4601
Se 196.026	0.5076	ppb	7.2509	1428.4	1.4885
Sn 189.925	2.5752	ppb	1.4331	55.7	0.9147
Sr 216.596	204.877	ppb	18.8009	9.2	2749.96
Ti 334.941	6.9812	ppb	0.5061	7.2	1929.51
Tl 190.794	3.5864	ppb	2.5954	72.4	0.4143
V 292.401	2.1249	ppb	0.3018	14.2	65.2368
Zn 206.200	15.3376	ppb	0.9200	6.0	32.4153

E04052013.vvq. All Data Report 4/8/2013, 10:52:27 AM

X (Samp)	4/5/2013, 5:50:23 PM	Rack 1, Tube 56	
Weight: 1	Volume: 1	Dilution: 1	
Label	Replicates Concentration		
Ag 328.068	505.239	507.844	503.375
Al 308.215	5084.90	5083.81	5107.03
As 188.980	476.101	481.204	480.362
B 249.678	548.850	551.849	553.327
Ba 389.178	5035.81	5041.57	5034.59
Be 313.042	508.975	510.257	510.794
Ca 370.602	4975	4994	4996
Cd 226.502	504.926	507.356	506.153
Co 228.615	504.694	505.787	504.067
Cr 267.716	5212.03	5224.33	5235.76
Cu 324.754	4989.89	4985.68	4910.49
Fe 271.441	4936.44	4947.09	4939.57
K 766.491	9994.14	10018.1	9984.74
Mg 279.078	4923.80	4957.63	4950.57
Mn 257.610	5085.89	5102.63	5091.81
Mo 202.032	497.793	498.143	499.453
Na 330.237	7491.76	7528.60	7378.91
Ni 231.604	2528.78	2536.21	2538.19
Pb 220.353	496.171	496.776	501.216
Sb 206.834	954.674	959.917	964.248
Se 196.026	4941.02	4954.28	4965.43
Sn 189.925	5025.53	5006.23	4999.94
Sr 216.596	2532.55	2533.40	2541.65
Ti 334.941	2.4794	2.4551	2.4298
Tl 190.794	5493.91	5515.99	5513.40
V 292.401	4856.56	4863.74	4856.56
Zn 206.200	2559.42	2565.14	2562.28

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	505.486	ppb	2.2448	0.4	41512.4
Al 308.215	5091.91	ppb	13.1024	0.3	18252.3
As 188.980	479.223	ppb	2.7360	0.6	360.516
B 249.678	551.342	ppb	2.2814	0.4	6752.51
Ba 389.178	5037.32	ppb	3.7265	0.1	137838
Be 313.042	510.008	ppb	0.9343	0.2	1073055
Ca 370.602	4989	ppb	11.52	0.2	19488
Cd 226.502	506.145	ppb	1.2150	0.2	23514.2
Co 228.615	504.849	ppb	0.8704	0.2	6659.05
Cr 267.716	5224.04	ppb	11.8694	0.2	272816
Cu 324.754	4962.02	ppb	44.6761	0.9	257505
Fe 271.441	4941.04	ppb	5.4722	0.1	10300.4
K 766.491	9999.00	ppb	17.2021	0.2	537839
Mg 279.078	4944.00	ppb	17.8456	0.4	12820.0
Mn 257.610	5093.44	ppb	8.4879	0.2	1398759
Mo 202.032	498.463	ppb	0.8748	0.2	4255.20
Na 330.237	7466.42	ppb	77.9946	1.0	427.333
Ni 231.604	2534.39	ppb	4.9637	0.2	8529.91
Pb 220.353	498.054	ppb	2.7544	0.6	1131.22
Sb 206.834	959.613	ppb	4.7945	0.5	1092.88
Se 196.026	4953.58	ppb	12.2234	0.2	2935.98
Sn 189.925	5010.57	ppb	13.3319	0.3	5083.81
Sr 216.596	2535.86	ppb	5.0251	0.2	33822.2
Ti 334.941	2.4548	ppb	0.0248	1.0	612.125
Tl 190.794	5507.77	ppb	12.0697	0.2	7075.22
V 292.401	4858.95	ppb	4.1424	0.1	153013
Zn 206.200	2562.28	ppb	2.8585	0.1	5190.14

E04052013.vvq. All Data Report 4/8/2013, 10:52:27 AM

Cont Calib Verif (CCV) 4/5/2013, 5:56:48 PM Rack 2, Tube 1  
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	510.339	501.049	505.970
Al 308.215	5072.73	5057.59	5111.92
As 188.980	499.802	487.040	489.303
B 249.678	544.264	541.228	545.956
Ba 389.178	4815.64	4784.55	4828.99
Be 313.042	486.580	483.420	487.956
Ca 370.602	4927	4899	4940
Cd 226.502	484.759	481.028	484.866
Co 228.615	488.417	483.419	486.478
Cr 267.716	4987.00	4967.22	5008.01
Cu 324.754	4808.08	4730.63	4795.97
Fe 271.441	4915.87	4894.34	4930.39
K 766.491	9908.14	9822.19	9915.16
Mg 279.078	4924.51	4897.71	4928.30
Mn 257.610	4876.88	4842.34	4878.94
Mo 202.032	499.591	497.784	501.509
Na 330.237	6864.69	6974.37	7023.06
Ni 231.604	2411.10	2411.20	2427.48
Pb 220.353	497.356	494.593	499.293
Sb 206.834	1015.43	1001.69	1007.81
Se 196.026	4949.64	4937.39	4969.16
Sn 189.925	5046.49	5008.72	5049.17
Sr 216.596	2451.52	2441.64	2461.19
Ti 334.941	497.881	496.151	500.707
Tl 190.794	4971.58	4949.29	4979.29
V 292.401	4888.30	4857.39	4886.26
Zn 206.200	2452.81	2435.54	2450.71

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	505.786	ppb	4.6476	0.9	41540.2	101.15720
Al 308.215	5080.75	ppb	28.0375	0.6	18212.2	101.61490
As 188.980	492.049	ppb	6.8092	1.4	370.107	98.40971
B 249.678	543.816	ppb	2.3955	0.4	6661.11	21.75264Q
Ba 389.178	4809.73	ppb	22.8043	0.5	131611	96.19456
Be 313.042	485.985	ppb	2.3260	0.5	1022480	97.19704
Ca 370.602	4922	ppb	20.99	0.4	19334	98.44294
Cd 226.502	483.551	ppb	2.1855	0.5	22465.5	96.71018
Co 228.615	486.105	ppb	2.5195	0.5	6425.44	97.22092
Cr 267.716	4987.41	ppb	20.3991	0.4	260457	99.74814
Cu 324.754	4778.23	ppb	41.6604	0.9	247961	95.56453
Fe 271.441	4913.54	ppb	18.1388	0.4	10240.3	98.27071
K 766.491	9881.83	ppb	51.7690	0.5	531540	98.81829
Mg 279.078	4916.84	ppb	16.6744	0.3	12753.8	98.33685
Mn 257.610	4866.05	ppb	20.5622	0.4	1336331	97.32105
Mo 202.032	499.628	ppb	1.8630	0.4	4265.11	99.92560
Na 330.237	6954.04	ppb	81.1193	1.2	392.797	92.72057
Ni 231.604	2416.60	ppb	9.4289	0.4	8133.47	96.66384
Pb 220.353	497.081	ppb	2.3622	0.5	1128.59	99.41610
Sb 206.834	1008.31	ppb	6.8877	0.7	1142.87	100.83099
Se 196.026	4952.06	ppb	16.0225	0.3	2935.01	99.04126
Sn 189.925	5034.79	ppb	22.6206	0.4	5108.40	100.69587
Sr 216.596	2451.45	ppb	9.7776	0.4	32696.6	98.05796
Ti 334.941	498.246	ppb	2.2998	0.5	144091	99.64925
Tl 190.794	4966.72	ppb	15.5761	0.3	6379.57	99.33437
V 292.401	4877.32	ppb	17.2844	0.4	153618	97.54633
Zn 206.200	2446.35	ppb	9.4221	0.4	4869.44	97.85401

E04052013.vvq. All Data Report 4/8/2013, 10:52:27 AM

Cont Calib Blank (CCB) 4/5/2013, 6:03:13 PM Rack 2, Tube 2

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.4717	0.1089	0.7805
Al 308.215	-1.6054u	0.4917	1.9155
As 188.980	-9.2667u	-9.5697u	-3.0420u
B 249.678	27.5856	26.3098	25.2552
Ba 389.178	0.6415	0.5516	1.8234
Be 313.042	0.0397	0.0725	0.2054
Ca 370.602	1.463	1.634	13.77
Cd 226.502	-0.0294u	0.2145	0.3657
Co 228.615	-0.0457u	-0.1546u	0.1155
Cr 267.716	0.3802	0.6032	2.0925
Cu 324.754	0.8757	1.4823	2.7360
Fe 271.441	5.6771	2.1503	9.0137
K 766.491	3.6621	5.3827	9.0303
Mg 279.078	4.5673	3.7186	11.7202
Mn 257.610	-0.5803u	-0.1458u	1.5838
Mo 202.032	0.6680	1.1167	0.4948
Na 330.237	-13.6403u	23.2869	-3.1172u
Ni 231.604	1.0347	-0.3139u	1.5173
Pb 220.353	-1.7802u	-1.5696u	-0.9757u
Sb 206.834	2.4647	1.5715	5.1747
Se 196.026	-0.2437u	-3.9403u	1.3074
Sn 189.925	1.0950	3.5039	4.6360
Sr 216.596	-0.0691u	0.3937	1.3097
Ti 334.941	0.1617	0.1478	0.3172
Tl 190.794	5.8012	6.7780	5.5781
V 292.401	0.2930	0.6202	2.6088
Zn 206.200	0.4499	0.8083	1.4729

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.4537	ppb	0.3361	74.1	-58.6811	0.45371
Al 308.215	0.2673	ppb	1.7711	662.6	6.0537	0.26729
As 188.980	-7.2928	ppb	3.6844	50.5	-3.1339	-7.29279
B 249.678	26.3835	ppb	1.1669	4.4	380.435	26.38351
Ba 389.178	1.0055	ppb	0.7097	70.6	-7.2678	1.00548
Be 313.042	0.1059	ppb	0.0877	82.9	-112.415	0.10586
Ca 370.602	5.623	ppb	7.058	125.5	16.97	5.62282
Cd 226.502	0.1836	ppb	0.1994	108.6	16.9562	0.18362
Co 228.615	-0.0283	ppb	0.1359	480.5	4.0746	-0.02828
Cr 267.716	1.0253	ppb	0.9310	90.8	64.8792	1.02531
Cu 324.754	1.6980	ppb	0.9487	55.9	-30.8162	1.69802
Fe 271.441	5.6137	ppb	3.4321	61.1	10.7043	5.61368
K 766.491	6.0250	ppb	2.7411	45.5	538.396	6.02505
Mg 279.078	6.6687	ppb	4.3953	65.9	38.7322	6.66871
Mn 257.610	0.2859	ppb	1.1448	400.4	424.723	0.28591
Mo 202.032	0.7598	ppb	0.3209	42.2	16.1260	0.75981
Na 330.237	2.1764	ppb	19.0243	874.1	-1.4696	2.17643
Ni 231.604	0.7460	ppb	0.9491	127.2	3.0523	0.74603
Pb 220.353	-1.4419	ppb	0.4172	28.9	-0.7348	-1.44186
Sb 206.834	3.0703	ppb	1.8764	61.1	6.2915	3.07031
Se 196.026	-0.9588	ppb	2.6960	281.2	0.5550	-0.95884
Sn 189.925	3.0783	ppb	1.8084	58.7	1.4068	3.07829
Sr 216.596	0.5447	ppb	0.7017	128.8	16.4933	0.54474
Ti 334.941	0.2089	ppb	0.0940	45.0	-60.7992	0.20888
Tl 190.794	6.0524	ppb	0.6382	10.5	4.0325	6.05243
V 292.401	1.1740	ppb	1.2533	106.8	35.1669	1.17399
Zn 206.200	0.9104	ppb	0.5191	57.0	2.6004	0.91038

E04052013.vvq. All Data Report 4/8/2013, 10:52:27 AM

**mb 680-271112/1-a (Samp)**      **4/5/2013, 6:09:38 PM**      **Rack 2, Tube 3**  
**Weight: 1**      **Volume: 1**      **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	1.0619	1.2349	0.2854
Al 308.215	6.3483	3.8573	2.0836
As 188.980	-5.5551u	-3.6473u	-3.2059u
B 249.678	14.0176	14.4161	13.8865
Ba 389.178	-0.4117u	-0.1956u	0.6445
Be 313.042	0.0106	0.0013	0.0060
Ca 370.602	18.64	19.40	21.06
Cd 226.502	0.0955	0.0099	-0.0411u
Co 228.615	-0.2063u	-0.2213u	-0.2516u
Cr 267.716	0.1026	-0.0550u	-0.2038u
Cu 324.754	1.4660	1.1759	1.3765
Fe 271.441	12.5164	9.2045	13.4863
K 766.491	4.7705	4.2525	4.9970
Mg 279.078	2.1138	2.7170	3.7684
Mn 257.610	-0.8920u	-0.9163u	-0.9086u
Mo 202.032	0.4372	-0.1046u	0.6871
Na 330.237	192.532	-90.0706u	-65.9696u
Ni 231.604	0.4770	2.5317	1.2666
Pb 220.353	0.5138	-0.4215u	2.0410
Sb 206.834	0.6468	-1.4040u	-6.4893u
Se 196.026	2.6097	0.4644	1.9548
Sn 189.925	1.0889	-0.4693u	1.9961
Sr 216.596	0.3569	0.4379	0.5297
Ti 334.941	0.2503	0.1885	0.1932
Tl 190.794	4.4714	2.0805	4.2272
V 292.401	-0.1758u	0.0425	0.0104
Zn 206.200	1.2460	0.3218	-0.2171u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.8607	ppb	0.5057	58.8	-25.1115
Al 308.215	4.0964	ppb	2.1424	52.3	19.7416
As 188.980	-4.1361	ppb	1.2485	30.2	-0.7730
B 249.678	14.1067	ppb	0.2758	2.0	231.263
Ba 389.178	0.0124	ppb	0.5579	4505.9	-34.4421
Be 313.042	0.0060	ppb	0.0046	77.3	-322.497
Ca 370.602	19.70	ppb	1.235	6.3	71.71
Cd 226.502	0.0214	ppb	0.0690	322.3	9.4580
Co 228.615	-0.2264	ppb	0.0231	10.2	1.4852
Cr 267.716	-0.0521	ppb	0.1532	294.2	8.6221
Cu 324.754	1.3395	ppb	0.1485	11.1	-49.4389
Fe 271.441	11.7357	ppb	2.2451	19.1	23.2512
K 766.491	4.6733	ppb	0.3817	8.2	465.717
Mg 279.078	2.8664	ppb	0.8374	29.2	28.8357
Mn 257.610	-0.9056	ppb	0.0124	1.4	97.6051
Mo 202.032	0.3399	ppb	0.4047	119.1	12.5425
Na 330.237	12.1638	ppb	156.667	1288.0	-0.8652
Ni 231.604	1.4251	ppb	1.0365	72.7	5.3379
Pb 220.353	0.7111	ppb	1.2430	174.8	4.1439
Sb 206.834	-2.4155	ppb	3.6740	152.1	0.3612
Se 196.026	1.6763	ppb	1.0994	65.6	2.1151
Sn 189.925	0.8719	ppb	1.2470	143.0	-0.8326
Sr 216.596	0.4415	ppb	0.0865	19.6	15.1399
Ti 334.941	0.2107	ppb	0.0344	16.3	-60.2889
Tl 190.794	3.5930	ppb	1.3156	36.6	0.8690
V 292.401	-0.0410	ppb	0.1179	287.5	-2.9825
Zn 206.200	0.4502	ppb	0.7399	164.4	2.6853

E04052013.wvq. All Data Report 4/8/2013, 10:52:27 AM

ics 680-271112/2-a (Samp)      4/5/2013, 6:16:03 PM      Rack 2, Tube 4  
 Weight: 1      Volume: 1      Dilution: 1

Label	Replicates Concentration		
Ag 328.068	20.5873	20.4656	20.7453
Al 308.215	5112.21	5055.22	5052.81
As 188.980	107.289	101.836	106.723
B 249.678	198.127	198.629	199.430
Ba 389.178	104.643	103.067	103.362
Be 313.042	53.0144	52.6206	52.5818
Ca 370.602	4946	4914	4903
Cd 226.502	52.1778	52.0660	52.2817
Co 228.615	52.8667	51.9912	51.7721
Cr 267.716	107.090	105.904	106.076
Cu 324.754	104.354	104.967	104.202
Fe 271.441	4925.96	4924.29	4925.60
K 766.491	5254.26	5225.09	5208.23
Mg 279.078	4947.61	4935.41	4921.19
Mn 257.610	533.511	531.084	531.102
Mo 202.032	102.154	102.011	102.472
Na 330.237	4670.70	4438.32	4868.55
Ni 231.604	102.435	101.665	101.722
Pb 220.353	51.0644	49.5437	46.8321
Sb 206.834	49.6170	48.9985	49.6088
Se 196.026	97.2709	90.5360	97.0280
Sn 189.925	202.701	202.068	198.897
Sr 216.596	102.938	101.362	102.632
Ti 334.941	100.518	99.6441	99.5385
Tl 190.794	40.0715	40.8006	41.0824
V 292.401	101.310	100.776	100.986
Zn 206.200	104.538	101.845	102.015

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	20.5994	ppb	0.1402	0.7	1600.47
Al 308.215	5073.41	ppb	33.6207	0.7	18206.6
As 188.980	105.283	ppb	2.9984	2.8	81.0072
B 249.678	198.729	ppb	0.6572	0.3	2468.42
Ba 389.178	103.691	ppb	0.8376	0.8	2826.75
Be 313.042	52.7389	ppb	0.2393	0.5	110671
Ca 370.602	4921	ppb	22.33	0.5	19034
Cd 226.502	52.1752	ppb	0.1079	0.2	2444.92
Co 228.615	52.2100	ppb	0.5792	1.1	692.154
Cr 267.716	106.357	ppb	0.6409	0.6	5568.55
Cu 324.754	104.508	ppb	0.4052	0.4	5311.07
Fe 271.441	4925.28	ppb	0.8806	0.0	10129.0
K 766.491	5229.19	ppb	23.2853	0.4	281377
Mg 279.078	4934.74	ppb	13.2264	0.3	12887.4
Mn 257.610	531.899	ppb	1.3958	0.3	146437
Mo 202.032	102.212	ppb	0.2358	0.2	881.970
Na 330.237	4659.19	ppb	215.344	4.6	277.625
Ni 231.604	101.940	ppb	0.4290	0.4	343.745
Pb 220.353	49.1467	ppb	2.1439	4.4	113.642
Sb 206.834	49.4081	ppb	0.3547	0.7	56.5997
Se 196.026	94.9449	ppb	3.8202	4.0	57.5388
Sn 189.925	201.222	ppb	2.0384	1.0	202.519
Sr 216.596	102.311	ppb	0.8360	0.8	1372.80
Ti 334.941	99.9001	ppb	0.5374	0.5	28812.5
Tl 190.794	40.6515	ppb	0.5217	1.3	46.9993
V 292.401	101.024	ppb	0.2690	0.3	3161.01
Zn 206.200	102.799	ppb	1.5982	1.5	206.730



E04052013.vvq. All Data Report 4/8/2013, 10:52:27 AM

ics 680-271112/3-a (Samp) 4/5/2013, 6:22:27 PM Rack 2, Tube 5  
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	206.721	207.653	204.335
Al 308.215	2062.17	2070.67	2058.89
As 188.980	213.545	219.572	213.147
B 249.678	388.809	389.943	393.536
Ba 389.178	201.530	201.938	202.321
Be 313.042	210.873	210.765	210.943
Ca 370.602	19667	19687	19673
Cd 226.502	203.481	203.155	203.776
Co 228.615	204.252	205.514	206.054
Cr 267.716	212.165	212.218	212.831
Cu 324.754	209.082	208.986	206.576
Fe 271.441	20464.6	20390.6	20462.4
K 766.491	19828.3	19798.6	19819.0
Mg 279.078	19892.9	19901.0	19926.0
Mn 257.610	2104.68	2093.15	2118.61
Mo 202.032	204.316	204.097	202.607
Na 330.237	16838.2	16708.7	16777.6
Ni 231.604	201.224	202.828	203.693
Pb 220.353	202.739	199.144	200.660
Sb 206.834	199.094	198.497	196.178
Se 196.026	201.499	196.141	200.882
Sn 189.925	197.099	202.954	201.115
Sr 216.596	213.450	213.338	213.453
Ti 334.941	199.680	200.310	200.042
Tl 190.794	44.0288	41.8776	44.5354
V 292.401	200.325	199.689	200.227
Zn 206.200	191.969	193.725	193.462

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	206.236	ppb	1.7115	0.8	16907.0
Al 308.215	2063.91	ppb	6.0799	0.3	7421.15
As 188.980	215.421	ppb	3.6001	1.7	163.294
B 249.678	390.763	ppb	2.4679	0.6	4782.71
Ba 389.178	201.929	ppb	0.3956	0.2	5587.82
Be 313.042	210.860	ppb	0.0899	0.0	443529
Ca 370.602	19676	ppb	10.58	0.1	75992
Cd 226.502	203.471	ppb	0.3105	0.2	9514.01
Co 228.615	205.273	ppb	0.9245	0.5	2709.76
Cr 267.716	212.405	ppb	0.3697	0.2	11116.4
Cu 324.754	208.215	ppb	1.4201	0.7	10702.8
Fe 271.441	20439.2	ppb	42.1055	0.2	42031.9
K 766.491	19815.3	ppb	15.1936	0.1	1065642
Mg 279.078	19906.6	ppb	17.2976	0.1	51930.0
Mn 257.610	2105.48	ppb	12.7462	0.6	578641
Mo 202.032	203.673	ppb	0.9301	0.5	1747.26
Na 330.237	16774.8	ppb	64.7926	0.4	1005.72
Ni 231.604	202.582	ppb	1.2523	0.6	682.855
Pb 220.353	200.848	ppb	1.8049	0.9	457.556
Sb 206.834	197.923	ppb	1.5406	0.8	218.449
Se 196.026	199.507	ppb	2.9316	1.5	120.036
Sn 189.925	200.389	ppb	2.9944	1.5	201.687
Sr 216.596	213.414	ppb	0.0655	0.0	2860.53
Ti 334.941	200.010	ppb	0.3165	0.2	57854.0
Tl 190.794	43.4806	ppb	1.4112	3.2	45.9286
V 292.401	200.080	ppb	0.3425	0.2	6261.86
Zn 206.200	193.052	ppb	0.9469	0.5	386.609

E04052013.vvq. All Data Report 4/8/2013, 10:52:27 AM

680-88781-d-1-a (Samp)                      4/5/2013, 6:28:52 PM                      Rack 2, Tube 6  
 Weight: 1                                      Volume: 1                                      Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.0490u	1.1186	-0.2655u
Al 308.215	20.6571	22.9336	20.4488
As 188.980	11.2068	13.9436	11.5796
B 249.678	121.799	122.411	121.690
Ba 389.178	128.601	127.756	129.498
Be 313.042	0.2630	0.2629	0.2415
Ca 370.602	16967	17076	17009
Cd 226.502	0.0247	-0.1258	-0.0167
Co 228.615	29.9550	30.3073	29.7151
Cr 267.716	0.7053	0.9084	0.7353
Cu 324.754	1.8795	1.5785	2.6577
Fe 271.441	38416.8	38543.8	38432.7
K 766.491	8078.68	8113.09	8104.13
Mg 279.078	11339.1	11356.8	11340.1
Mn 257.610	553.897	555.780	553.933
Mo 202.032	0.2945	0.5479	0.7650
Na 330.237	13500.2	13702.3	13385.0
Ni 231.604	4.5748	3.7771	4.1564
Pb 220.353	1.1310	0.9301	-1.2178u
Sb 206.834	-2.4978u	-3.5144u	-2.5016u
Se 196.026	2.3648	-5.8741u	-8.3679u
Sn 189.925	-1.0237u	0.7259	1.0500
Sr 216.596	166.174	166.289	167.357
Ti 334.941	0.3925	0.4106	0.3681
Tl 190.794	1.9518u	2.7823u	5.5654
V 292.401	0.9068	0.8737	1.2892
Zn 206.200	5.0120	5.4735	5.4183

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.2680	ppb	0.7445	277.8	-79.5623
Al 308.215	21.3465	ppb	1.3784	6.5	81.6138
As 188.980	12.2433	ppb	1.4842	12.1	11.1718
B 249.678	121.967	ppb	0.3887	0.3	1495.02
Ba 389.178	128.618	ppb	0.8711	0.7	3584.02
Be 313.042	0.2558	ppb	0.0124	4.8	206.066
Ca 370.602	17017	ppb	54.69	0.3	63530
Cd 226.502	-0.0393	ppb	0.0778	198.1	123.398
Co 228.615	29.9925	ppb	0.2978	1.0	398.535
Cr 267.716	0.7830	ppb	0.1096	14.0	65.0424
Cu 324.754	2.0386	ppb	0.5569	27.3	-1.2745
Fe 271.441	38464.4	ppb	69.2244	0.2	79029.0
K 766.491	8098.63	ppb	17.8503	0.2	435661
Mg 279.078	11345.4	ppb	9.9652	0.1	29624.9
Mn 257.610	554.537	ppb	1.0771	0.2	152823
Mo 202.032	0.5358	ppb	0.2354	43.9	11.9358
Na 330.237	13529.1	ppb	160.602	1.2	805.824
Ni 231.604	4.1694	ppb	0.3990	9.6	15.5991
Pb 220.353	0.2811	ppb	1.3020	463.2	3.3202
Sb 206.834	-2.8379	ppb	0.5858	20.6	0.8596
Se 196.026	-3.9590	ppb	5.6168	141.9	-0.7851
Sn 189.925	0.2507	ppb	1.1155	444.9	-1.4496
Sr 216.596	166.607	ppb	0.6520	0.4	2257.18
Ti 334.941	0.3904	ppb	0.0213	5.5	47.8181
Tl 190.794	3.4332	ppb	1.8927	55.1	-4.8823
V 292.401	1.0232	ppb	0.2309	22.6	30.5527
Zn 206.200	5.3013	ppb	0.2521	4.8	12.3725

E04052013.vvq. All Data Report 4/8/2013, 10:52:27 AM

680-88781-d-1-b ms (Samp)      4/5/2013, 6:35:17 PM      Rack 2, Tube 7  
 Weight: 1      Volume: 1      Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.3695	0.9551	0.4599
Al 308.215	23.5533	18.3941	17.3040
As 188.980	12.0848	7.4070	11.4776
B 249.678	124.345	115.734	117.082
Ba 389.178	136.746	127.765	127.789
Be 313.042	0.1279	0.1260	0.1471
Ca 370.602	18059	16845	16791
Cd 226.502	-0.3369	-0.3411	-0.3622
Co 228.615	31.5302	30.0719	30.1014
Cr 267.716	0.4531	0.3942	0.7673
Cu 324.754	2.7417	2.8285	2.6627
Fe 271.441	40780.3	38196.5	38081.6
K 766.491	8347.10	8036.28	8042.21
Mg 279.078	12014.6	11193.4	11207.3
Mn 257.610	585.838	547.581	547.190
Mo 202.032	-0.0856u	0.2003u	0.3319
Na 330.237	14319.8	13645.9	13271.8
Ni 231.604	2.2792	3.4366	5.0241
Pb 220.353	0.3238	-1.8107u	1.9877
Sb 206.834	-6.1174u	0.3441	-3.2251u
Se 196.026	1.3227	-5.4626u	3.1958
Sn 189.925	3.5456	1.2892	1.5805
Sr 216.596	176.562	164.393	164.155
Ti 334.941	0.4864	0.3635	0.4918
Tl 190.794	4.6361	3.8570u	2.4513u
V 292.401	0.7204	0.8150	1.1734
Zn 206.200	6.8067	5.0774	6.1496

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.5948	ppb	0.3153	53.0	-52.6756
Al 308.215	19.7505	ppb	3.3382	16.9	75.8755
As 188.980	10.3231	ppb	2.5436	24.6	9.7317
B 249.678	119.054	ppb	4.6318	3.9	1458.97
Ba 389.178	130.767	ppb	5.1781	4.0	3644.14
Be 313.042	0.1337	ppb	0.0117	8.8	-50.9600
Ca 370.602	17232	ppb	717.0	4.2	64325
Cd 226.502	-0.3467	ppb	0.0136	3.9	110.772
Co 228.615	30.5678	ppb	0.8335	2.7	406.110
Cr 267.716	0.5382	ppb	0.2006	37.3	52.4299
Cu 324.754	2.7443	ppb	0.0829	3.0	35.5347
Fe 271.441	39019.5	ppb	1526.01	3.9	80169.4
K 766.491	8141.86	ppb	177.767	2.2	437985
Mg 279.078	11471.8	ppb	470.157	4.1	29954.8
Mn 257.610	560.203	ppb	22.2016	4.0	154382
Mo 202.032	0.1488	ppb	0.2135	143.4	8.5996
Na 330.237	13745.8	ppb	531.060	3.9	818.778
Ni 231.604	3.5800	ppb	1.3781	38.5	13.6299
Pb 220.353	0.1669	ppb	1.9040	1140.6	3.0633
Sb 206.834	-2.9995	ppb	3.2366	107.9	0.6993
Se 196.026	-0.3147	ppb	4.5555	1447.5	1.3784
Sn 189.925	2.1384	ppb	1.2273	57.4	0.4665
Sr 216.596	168.370	ppb	7.0951	4.2	2281.07
Ti 334.941	0.4472	ppb	0.0726	16.2	64.9556
Tl 190.794	3.6481	ppb	1.1072	30.4	-4.6796
V 292.401	0.9030	ppb	0.2390	26.5	26.8030
Zn 206.200	6.0112	ppb	0.8729	14.5	13.7911

E04052013.vvq. All Data Report 4/8/2013, 10:52:27 AM

**680-88781-d-1-c msd (Samp)**      **4/5/2013, 6:41:42 PM**      **Rack 2, Tube 8**  
**Weight: 1**      **Volume: 1**      **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.5045	0.2269	-0.0854u
Al 308.215	16.3985	18.0111	15.8476
As 188.980	9.1947	11.0253	11.9665
B 249.678	108.685	110.832	111.523
Ba 389.178	121.922	120.856	120.908
Be 313.042	0.0583	0.0625	0.0613
Ca 370.602	15956	15917	15905
Cd 226.502	-0.3951	-0.5272	-0.0767
Co 228.615	28.0266	28.2455	28.6514
Cr 267.716	-0.0288	0.2824	0.1926
Cu 324.754	0.5266	0.4519	0.9054
Fe 271.441	36047.7	36073.8	36130.1
K 766.491	7422.30	7431.81	7405.52
Mg 279.078	10605.0	10587.8	10598.7
Mn 257.610	518.332	518.071	518.279
Mo 202.032	-0.2523u	0.1725u	-0.4692u
Na 330.237	12653.1	12691.6	12478.2
Ni 231.604	3.8515	2.4489	3.4353
Pb 220.353	-2.4675u	1.0683	-1.8679u
Sb 206.834	2.6978	0.1550	0.7588
Se 196.026	-1.1265u	2.1906	4.7820
Sn 189.925	2.1901	3.5629	-2.6429u
Sr 216.596	156.803	154.968	155.659
Ti 334.941	0.1659	0.1477	0.1580
Tl 190.794	3.6283u	5.9214	1.0815u
V 292.401	0.3993	0.6736	0.4850
Zn 206.200	3.3905	5.1897	4.3978

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.2153	ppb	0.2951	137.1	-83.6371
Al 308.215	16.7524	ppb	1.1243	6.7	65.0960
As 188.980	10.7288	ppb	1.4095	13.1	10.0594
B 249.678	110.347	ppb	1.4796	1.3	1356.80
Ba 389.178	121.229	ppb	0.6007	0.5	3375.47
Be 313.042	0.0607	ppb	0.0021	3.5	-204.714
Ca 370.602	15926	ppb	26.89	0.2	59453
Cd 226.502	-0.3330	ppb	0.2316	69.5	102.374
Co 228.615	28.3078	ppb	0.3170	1.1	376.425
Cr 267.716	0.1488	ppb	0.1602	107.7	31.1050
Cu 324.754	0.6279	ppb	0.2432	38.7	-75.2856
Fe 271.441	36083.9	ppb	42.1410	0.1	74137.8
K 766.491	7419.88	ppb	13.3111	0.2	399166
Mg 279.078	10597.2	ppb	8.7108	0.1	27672.8
Mn 257.610	518.228	ppb	0.1380	0.0	142840
Mo 202.032	-0.1830	ppb	0.3264	178.4	5.9430
Na 330.237	12607.6	ppb	113.729	0.9	750.772
Ni 231.604	3.2452	ppb	0.7203	22.2	12.4239
Pb 220.353	-1.0890	ppb	1.8922	173.8	0.2072
Sb 206.834	1.2039	ppb	1.3285	110.4	5.1696
Se 196.026	1.9487	ppb	2.9617	152.0	2.6851
Sn 189.925	1.0367	ppb	3.2597	314.4	-0.6528
Sr 216.596	155.810	ppb	0.9266	0.6	2111.59
Ti 334.941	0.1572	ppb	0.0091	5.8	-23.2917
Tl 190.794	3.5437	ppb	2.4210	68.3	-4.3858
V 292.401	0.5193	ppb	0.1403	27.0	14.7907
Zn 206.200	4.3260	ppb	0.9917	20.8	10.4261

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680-88781-c-1-a (Samp)                      4/5/2013, 6:48:08 PM                      Rack 2, Tube 9  
 Weight: 1                                      Volume: 1                                      Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.8378	0.2107	-0.2518u
Al 308.215	7.3959	8.6224	8.3028
As 188.980	12.0091	10.5089	5.2755
B 249.678	109.584	109.659	110.987
Ba 389.178	123.933	122.852	123.194
Be 313.042	0.0484	0.0520	0.0510
Ca 370.602	15914	15857	15967
Cd 226.502	-0.2826	-0.4538	-0.4817
Co 228.615	28.4322	29.1499	29.0026
Cr 267.716	0.3403	0.1780	-0.0498
Cu 324.754	2.2142	1.0843	1.7309
Fe 271.441	36634.6	36414.8	36566.0
K 766.491	7523.22	7477.88	7497.67
Mg 279.078	10632.5	10602.7	10655.9
Mn 257.610	516.563	513.996	516.992
Mo 202.032	0.7470	0.0294u	0.0077u
Na 330.237	12831.5	12873.8	12641.2
Ni 231.604	1.7873	2.9979	3.4362
Pb 220.353	1.5082	0.3547	-0.1748u
Sb 206.834	-5.0364u	-3.6283u	-2.3237u
Se 196.026	0.8305	-0.0610	5.5952
Sn 189.925	-0.4855u	-0.2269u	0.9945
Sr 216.596	155.996	155.238	155.875
Ti 334.941	0.0767	-0.0430	0.0791
Tl 190.794	5.2120	8.8011	2.5933u
V 292.401	0.1915	0.3343	0.6014
Zn 206.200	7.0283	7.3436	7.9372

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.2656	ppb	0.5469	205.9	-79.4942
Al 308.215	8.1070	ppb	0.6363	7.8	34.1147
As 188.980	9.2645	ppb	3.5350	38.2	8.9583
B 249.678	110.077	ppb	0.7890	0.7	1352.95
Ba 389.178	123.326	ppb	0.5527	0.4	3433.75
Be 313.042	0.0505	ppb	0.0019	3.7	-226.271
Ca 370.602	15913	ppb	54.70	0.3	59353
Cd 226.502	-0.4060	ppb	0.1078	26.5	100.387
Co 228.615	28.8616	ppb	0.3791	1.3	383.698
Cr 267.716	0.1562	ppb	0.1960	125.5	31.6070
Cu 324.754	1.6764	ppb	0.5669	33.8	-20.6893
Fe 271.441	36538.5	ppb	112.436	0.3	75071.9
K 766.491	7499.59	ppb	22.7297	0.3	403451
Mg 279.078	10630.4	ppb	26.6407	0.3	27759.5
Mn 257.610	515.850	ppb	1.6199	0.3	142189
Mo 202.032	0.2614	ppb	0.4207	161.0	9.7106
Na 330.237	12782.2	ppb	123.871	1.0	761.175
Ni 231.604	2.7405	ppb	0.8541	31.2	10.7377
Pb 220.353	0.5627	ppb	0.8605	152.9	3.9484
Sb 206.834	-3.6628	ppb	1.3567	37.0	-0.0832
Se 196.026	2.1216	ppb	3.0411	143.3	2.7902
Sn 189.925	0.0940	ppb	0.7905	840.9	-1.6095
Sr 216.596	155.703	ppb	0.4073	0.3	2110.38
Ti 334.941	0.0376	ppb	0.0698	185.6	-57.7037
Tl 190.794	5.5355	ppb	3.1165	56.3	-1.8740
V 292.401	0.3757	ppb	0.2081	55.4	10.2017
Zn 206.200	7.4364	ppb	0.4615	6.2	16.6398

E04052013.vvq. All Data Report 4/8/2013, 10:52:27 AM

680-88781-c-2-a (Samp) 4/5/2013, 6:54:34 PM Rack 2, Tube 10

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.2479	0.7871	0.3056
Al 308.215	20.1830	22.8666	26.9280
As 188.980	36.2683	39.1059	33.7710
B 249.678	350.114	352.171	354.426
Ba 389.178	79.4744	80.7433	81.5795
Be 313.042	0.0292	0.0339	0.0332
Ca 370.602	27863	27903	27916
Cd 226.502	-0.7012	-0.7052	-0.6604
Co 228.615	6.4180	5.8091	6.4648
Cr 267.716	0.4292	0.6107	0.5044
Cu 324.754	1.4560	1.4243	0.7829
Fe 271.441	76860.5	76770.5	76803.0
K 766.491	15388.7	15384.0	15439.6
Mg 279.078	21349.7	21387.9	21401.9
Mn 257.610	672.662	672.554	672.580
Mo 202.032	-0.2809u	-0.0748u	-0.5748u
Na 330.237	44995.3	44464.4	44587.2
Ni 231.604	12.9964	12.7171	13.8684
Pb 220.353	1.6861	3.0115	1.8679
Sb 206.834	0.2611	-4.5996u	-7.5102u
Se 196.026	-0.5021	3.2830	2.1224
Sn 189.925	-0.0596u	1.0542	2.7959
Sr 216.596	345.726	345.425	345.366
Ti 334.941	0.0288	0.0195	-0.0265
Tl 190.794	3.2749u	2.5355u	0.0108u
V 292.401	1.5756	1.4054	1.6557
Zn 206.200	3.1486	3.2849	3.3894

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.4468	ppb	0.2961	66.3	-73.3168
Al 308.215	23.3259	ppb	3.3959	14.6	88.6249
As 188.980	36.3817	ppb	2.6693	7.3	28.8603
B 249.678	352.237	ppb	2.1568	0.6	4246.26
Ba 389.178	80.5990	ppb	1.0599	1.3	2365.29
Be 313.042	0.0321	ppb	0.0025	7.8	-266.281
Ca 370.602	27894	ppb	27.46	0.1	102741
Cd 226.502	-0.6889	ppb	0.0247	3.6	209.310
Co 228.615	6.2306	ppb	0.3658	5.9	83.6822
Cr 267.716	0.5148	ppb	0.0912	17.7	62.0756
Cu 324.754	1.2211	ppb	0.3798	31.1	-31.9469
Fe 271.441	76811.3	ppb	45.5358	0.1	157807
K 766.491	15404.1	ppb	30.8237	0.2	828459
Mg 279.078	21379.8	ppb	27.0311	0.1	55816.4
Mn 257.610	672.599	ppb	0.0563	0.0	185457
Mo 202.032	-0.3101	ppb	0.2513	81.0	2.4443
Na 330.237	44682.3	ppb	277.974	0.6	2683.03
Ni 231.604	13.1940	ppb	0.6006	4.6	46.9910
Pb 220.353	2.1885	ppb	0.7185	32.8	7.6897
Sb 206.834	-3.9496	ppb	3.9262	99.4	0.6135
Se 196.026	1.6344	ppb	1.9392	118.6	2.8319
Sn 189.925	1.2635	ppb	1.4392	113.9	-0.4035
Sr 216.596	345.506	ppb	0.1928	0.1	4668.43
Ti 334.941	0.0073	ppb	0.0296	408.0	-14.4032
Tl 190.794	1.9404	ppb	1.7115	88.2	-11.5312
V 292.401	1.5456	ppb	0.1278	8.3	47.1204
Zn 206.200	3.2743	ppb	0.1207	3.7	8.3232

E04052013.vvq. All Data Report 4/8/2013, 10:52:27 AM

680-88781-d-2-a (Samp)                      4/5/2013, 7:01:00 PM                      Rack 2, Tube 11  
 Weight: 1                                      Volume: 1                                      Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.4615	0.4118	0.7008
Al 308.215	14.7271	13.6281	14.2219
As 188.980	47.9105	43.7087	44.8969
B 249.678	355.478	359.395	360.939
Ba 389.178	80.4582	80.4407	80.4072
Be 313.042	0.0682	0.0669	0.0754
Ca 370.602	28154	28133	28156
Cd 226.502	-0.6792	-0.6623	-0.8973
Co 228.615	5.7449	6.7942	6.9446
Cr 267.716	0.9169	1.0710	0.8633
Cu 324.754	1.8060	2.0512	2.0997
Fe 271.441	77738.1	77577.0	77590.2
K 766.491	15660.0	15631.2	15645.2
Mg 279.078	21560.3	21538.4	21559.6
Mn 257.610	678.424	677.622	677.460
Mo 202.032	0.4193u	0.0793u	0.6108
Na 330.237	45283.2	45080.7	45358.3
Ni 231.604	12.3925	13.0514	13.8115
Pb 220.353	-1.6320u	2.3277	-0.6400u
Sb 206.834	-3.4352u	-7.8272u	-0.8522
Se 196.026	4.5122	-3.5494u	4.0718
Sn 189.925	4.2385	0.6068	3.9672
Sr 216.596	348.112	347.950	347.099
Ti 334.941	-0.0787	-0.0220	-0.1172
Tl 190.794	-0.0144u	3.6436u	3.6385u
V 292.401	1.7485	2.0826	1.6048
Zn 206.200	1.9435	3.1473	1.8446

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.5247	ppb	0.1545	29.4	-67.0406
Al 308.215	14.1924	ppb	0.5501	3.9	55.9186
As 188.980	45.5054	ppb	2.1660	4.8	35.6760
B 249.678	358.604	ppb	2.8153	0.8	4322.64
Ba 389.178	80.4354	ppb	0.0259	0.0	2362.73
Be 313.042	0.0702	ppb	0.0046	6.6	-186.263
Ca 370.602	28148	ppb	12.63	0.0	103665
Cd 226.502	-0.7463	ppb	0.1311	17.6	209.092
Co 228.615	6.4946	ppb	0.6536	10.1	87.1080
Cr 267.716	0.9504	ppb	0.1078	11.3	85.0679
Cu 324.754	1.9856	ppb	0.1575	7.9	8.0170
Fe 271.441	77635.1	ppb	89.4631	0.1	159500
K 766.491	15645.5	ppb	14.4180	0.1	841438
Mg 279.078	21552.8	ppb	12.3914	0.1	56267.7
Mn 257.610	677.836	ppb	0.5162	0.1	186899
Mo 202.032	0.3698	ppb	0.2692	72.8	8.2026
Na 330.237	45240.7	ppb	143.629	0.3	2716.64
Ni 231.604	13.0851	ppb	0.7101	5.4	46.6462
Pb 220.353	0.0185	ppb	2.0604	11120.4	2.7739
Sb 206.834	-4.0382	ppb	3.5264	87.3	0.5326
Se 196.026	1.6782	ppb	4.5326	270.1	2.8651
Sn 189.925	2.9375	ppb	2.0230	68.9	1.2959
Sr 216.596	347.720	ppb	0.5443	0.2	4698.43
Ti 334.941	-0.0726	ppb	0.0479	65.9	-36.6339
Tl 190.794	2.4226	ppb	2.1105	87.1	-11.0154
V 292.401	1.8120	ppb	0.2451	13.5	55.3651
Zn 206.200	2.3118	ppb	0.7252	31.4	46.3991

E04052013.vvq. All Data Report 4/8/2013, 10:52:27 AM

680-88781-d-2-aSD^5 (Samp) 4/5/2013, 7:07:26 PM Rack 2, Tube 12

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.5896	0.4587	0.2400
Al 308.215	5.2023	6.4329	8.5957
As 188.980	8.1789	4.4901	3.6811
B 249.678	79.4208	79.0612	79.4963
Ba 389.178	15.5057	16.5660	16.4581
Be 313.042	0.0186	0.0225	0.0137
Ca 370.602	5665	5665	5690
Cd 226.502	-0.1443	-0.1339	-0.0730
Co 228.615	1.6989	0.9741	1.5043
Cr 267.716	0.3251	0.0021	0.0680
Cu 324.754	0.1635	0.8045	0.7864
Fe 271.441	15641.0	15681.1	15686.5
K 766.491	3121.44	3121.14	3120.59
Mg 279.078	4269.01	4273.46	4293.90
Mn 257.610	135.640	135.798	136.031
Mo 202.032	-0.2302u	-0.1740u	0.5120
Na 330.237	8741.14	8775.87	8873.32
Ni 231.604	3.0484	2.1704	4.5016
Pb 220.353	0.4603	0.8191	0.7263
Sb 206.834	0.2045	0.5483	-0.1109
Se 196.026	0.2517	-2.4511u	-2.8724u
Sn 189.925	4.8562	6.0862	4.7694
Sr 216.596	68.7378	69.5701	69.6103
Ti 334.941	0.1016	0.0496	0.0813
Tl 190.794	1.0169u	2.5165	2.9928
V 292.401	0.1265	0.4779	-0.0025u
Zn 206.200	1.2281	-0.0561u	1.0893

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.4294	ppb	0.1766	41.1	-63.5292
Al 308.215	6.7436	ppb	1.7179	25.5	29.2245
As 188.980	5.4500	ppb	2.3976	44.0	6.2597
B 249.678	79.3261	ppb	0.2325	0.3	1004.66
Ba 389.178	16.1766	ppb	0.5835	3.6	447.307
Be 313.042	0.0183	ppb	0.0044	24.2	-296.328
Ca 370.602	5673	ppb	14.72	0.3	20888
Cd 226.502	-0.1171	ppb	0.0385	32.9	50.4957
Co 228.615	1.3924	ppb	0.3751	26.9	22.2232
Cr 267.716	0.1317	ppb	0.1707	129.6	23.0729
Cu 324.754	0.5848	ppb	0.3650	62.4	-83.8036
Fe 271.441	15669.5	ppb	24.8335	0.2	32192.0
K 766.491	3121.06	ppb	0.4342	0.0	168027
Mg 279.078	4278.79	ppb	13.2744	0.3	11187.8
Mn 257.610	135.823	ppb	0.1965	0.1	37727.3
Mo 202.032	0.0359	ppb	0.4132	1149.6	9.0199
Na 330.237	8796.77	ppb	68.5237	0.8	526.743
Ni 231.604	3.2401	ppb	1.1774	36.3	11.8634
Pb 220.353	0.6686	ppb	0.1862	27.9	4.0880
Sb 206.834	0.2140	ppb	0.3297	154.1	3.5935
Se 196.026	-1.6906	ppb	1.6952	100.3	0.2724
Sn 189.925	5.2373	ppb	0.7365	14.1	3.6043
Sr 216.596	69.3060	ppb	0.4925	0.7	943.999
Ti 334.941	0.0775	ppb	0.0262	33.8	-77.8016
Tl 190.794	2.1754	ppb	1.0312	47.4	-3.0483
V 292.401	0.2006	ppb	0.2486	123.9	4.6327
Zn 206.200	0.7538	ppb	0.7048	93.5	2.2907



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Cont Calib Verif (CCV) 4/5/2013, 7:13:52 PM Rack 2, Tube 13  
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	502.759	513.974	506.843
Al 308.215	4924.77	4980.56	4973.67
As 188.980	494.879	493.942	483.159
B 249.678	512.951	516.675	523.359
Ba 389.178	4790.66	4819.88	4823.81
Be 313.042	481.971	484.897	484.295
Ca 370.602	4876	4921	4907
Cd 226.502	481.974	486.275	485.812
Co 228.615	486.960	490.072	489.591
Cr 267.716	4917.20	4961.57	4961.18
Cu 324.754	4820.27	4895.62	4771.17
Fe 271.441	4911.64	4945.67	4935.21
K 766.491	9887.79	9943.94	9920.61
Mg 279.078	4878.44	4927.11	4913.34
Mn 257.610	4845.47	4892.22	4884.35
Mo 202.032	491.455	496.612	496.735
Na 330.237	7349.36	7162.63	7100.21
Ni 231.604	2417.40	2411.94	2428.46
Pb 220.353	490.982	499.499	495.421
Sb 206.834	990.549	999.089	1004.76
Se 196.026	4903.40	4952.81	4953.50
Sn 189.925	4926.51	4989.32	4964.07
Sr 216.596	2412.92	2432.52	2427.19
Ti 334.941	488.876	493.095	492.665
Tl 190.794	4958.42	4989.83	4985.80
V 292.401	4864.93	4899.18	4893.18
Zn 206.200	2434.56	2457.31	2448.93

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	507.859	ppb	5.6761	1.1	41709.3	101.57175
Al 308.215	4959.67	ppb	30.4135	0.6	17778.0	99.19334
As 188.980	490.660	ppb	6.5133	1.3	369.068	98.13204
B 249.678	517.662	ppb	5.2736	1.0	6343.33	20.70647Q
Ba 389.178	4811.45	ppb	18.1136	0.4	131658	96.22901
Be 313.042	483.721	ppb	1.5455	0.3	1017713	96.74419
Ca 370.602	4901	ppb	23.02	0.5	19251	98.02713
Cd 226.502	484.687	ppb	2.3609	0.5	22518.3	96.93742
Co 228.615	488.874	ppb	1.6753	0.3	6461.95	97.77483
Cr 267.716	4946.65	ppb	25.5007	0.5	258328	98.93300
Cu 324.754	4829.02	ppb	62.6858	1.3	250599	96.58039
Fe 271.441	4930.84	ppb	17.4298	0.4	10276.0	98.61685
K 766.491	9917.44	ppb	28.2080	0.3	533454	99.17442
Mg 279.078	4906.30	ppb	25.0877	0.5	12726.3	98.12592
Mn 257.610	4874.01	ppb	25.0285	0.5	1338516	97.48022
Mo 202.032	494.934	ppb	3.0136	0.6	4225.00	98.98684
Na 330.237	7204.06	ppb	129.645	1.8	407.886	96.05419
Ni 231.604	2419.27	ppb	8.4146	0.3	8142.47	96.77073
Pb 220.353	495.301	ppb	4.2598	0.9	1124.55	99.06014
Sb 206.834	998.133	ppb	7.1534	0.7	1131.93	99.81326
Se 196.026	4936.57	ppb	28.7267	0.6	2925.84	98.73138
Sn 189.925	4959.97	ppb	31.6057	0.6	5032.46	99.19939
Sr 216.596	2424.21	ppb	10.1303	0.4	32332.3	96.96833
Ti 334.941	491.545	ppb	2.3215	0.5	142152	98.30904
Tl 190.794	4978.02	ppb	17.0918	0.3	6394.11	99.56031
V 292.401	4885.76	ppb	18.2919	0.4	153884	97.71523
Zn 206.200	2446.93	ppb	11.5062	0.5	4870.58	97.87740

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Cont Calib Blank (CCB) 4/5/2013, 7:20:16 PM Rack 2, Tube 14

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.0356	0.3254	0.3474
Al 308.215	2.0589	5.0109	2.1397
As 188.980	-3.1579u	-1.4642u	-3.7406u
B 249.678	12.3610	11.3446	10.4013
Ba 389.178	-0.3118u	0.0634	0.3670
Be 313.042	0.0177	0.0349	0.0482
Ca 370.602	6.237	7.782	2.681
Cd 226.502	-0.0933u	0.0358	-0.0212u
Co 228.615	-0.3421u	0.2359	0.2439
Cr 267.716	-0.0518u	0.1417	0.1044
Cu 324.754	0.5816	1.1895	0.4427
Fe 271.441	-1.1388u	5.0151	8.5520
K 766.491	2.3541	2.5765	2.7024
Mg 279.078	-0.9098u	1.9752	2.3385
Mn 257.610	-0.8237u	-0.6497u	-0.5251u
Mo 202.032	0.5456	0.4146	0.2347
Na 330.237	-99.6589u	-151.753u	-24.3066u
Ni 231.604	0.7013	1.4297	0.4302
Pb 220.353	-0.0608u	-0.9734u	0.2775
Sb 206.834	-4.5498u	3.7354	-1.0644u
Se 196.026	0.1081	0.0625	1.0873
Sn 189.925	0.1394	0.3017	-1.7194u
Sr 216.596	-0.3341u	-0.0531u	0.2222
Ti 334.941	0.1901	0.1898	0.1975
Tl 190.794	5.1754	5.6049	3.9065
V 292.401	0.3790	0.4364	-0.0488u
Zn 206.200	1.1395	0.9806	-0.4298u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.2361	ppb	0.1740	73.7	-76.5773	0.23613
Al 308.215	3.0698	ppb	1.6815	54.8	16.0908	3.06985
As 188.980	-2.7876	ppb	1.1825	42.4	0.2352	-2.78757
B 249.678	11.3690	ppb	0.9801	8.6	198.007	11.36896
Ba 389.178	0.0395	ppb	0.3400	859.9	-33.7115	0.03954
Be 313.042	0.0336	ppb	0.0153	45.4	-264.417	0.03360
Ca 370.602	5.567	ppb	2.615	47.0	16.31	5.56670
Cd 226.502	-0.0262	ppb	0.0647	246.5	7.2287	-0.02625
Co 228.615	0.0459	ppb	0.3361	732.2	5.0601	0.04590
Cr 267.716	0.0648	ppb	0.1027	158.5	14.7185	0.06477
Cu 324.754	0.7379	ppb	0.3971	53.8	-80.6675	0.73793
Fe 271.441	4.1428	ppb	4.9040	118.4	7.6686	4.14275
K 766.491	2.5443	ppb	0.1764	6.9	351.245	2.54434
Mg 279.078	1.1346	ppb	1.7799	156.9	24.3116	1.13463
Mn 257.610	-0.6662	ppb	0.1499	22.5	163.300	-0.66619
Mo 202.032	0.3983	ppb	0.1561	39.2	13.0405	0.39828
Na 330.237	-91.9061	ppb	64.0759	69.7	-7.1798	-91.90614
Ni 231.604	0.8537	ppb	0.5169	60.5	3.4149	0.85373
Pb 220.353	-0.2522	ppb	0.6470	256.5	1.9608	-0.25222
Sb 206.834	-0.6263	ppb	4.1599	664.2	2.2893	-0.62627
Se 196.026	0.4193	ppb	0.5789	138.1	1.3708	0.41929
Sn 189.925	-0.4261	ppb	1.1230	263.5	-2.1501	-0.42612
Sr 216.596	-0.0550	ppb	0.2782	505.7	8.5090	-0.05501
Ti 334.941	0.1925	ppb	0.0044	2.3	-65.5653	0.19245
Tl 190.794	4.8956	ppb	0.8831	18.0	2.5451	4.89562
V 292.401	0.2556	ppb	0.2651	103.7	6.2935	0.25556
Zn 206.200	0.5634	ppb	0.8638	153.3	2.9114	0.56344

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**680-88781-d-2-aPDS (Samp)**      **4/5/2013, 7:26:41 PM**      **Rack 2, Tube 15****Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	48.6037	47.9777	48.0825
Al 308.215	2034.58	2030.61	2021.51
As 188.980	2325.99	2311.86	2313.75
B 249.678	1330.78	1344.10	1349.20
Ba 389.178	2139.93	2141.79	2142.60
Be 313.042	51.7866	51.7788	51.6782
Ca 370.602	32538	32530	32479
Cd 226.502	51.2078	50.9353	51.1931
Co 228.615	529.675	528.463	524.581
Cr 267.716	211.068	210.753	210.281
Cu 324.754	259.638	260.675	260.607
Fe 271.441	76804.8	76828.0	76906.2
K 766.491	20694.9	20751.4	20705.7
Mg 279.078	26274.7	26276.1	26256.3
Mn 257.610	1191.43	1192.13	1192.83
Mo 202.032	510.815	511.873	513.051
Na 330.237	49559.6	49593.3	49565.8
Ni 231.604	523.882	528.266	527.402
Pb 220.353	503.395	498.963	496.926
Sb 206.834	504.778	504.565	500.661
Se 196.026	2010.35	2026.23	2027.48
Sn 189.925	1024.60	1027.27	1021.68
Sr 216.596	854.904	850.655	847.540
Ti 334.941	994.142	993.781	990.329
Tl 190.794	2039.63	2045.56	2052.58
V 292.401	496.767	497.267	497.156
Zn 206.200	516.955	514.910	519.084

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	48.2213	ppb	0.3353	0.7	3846.31
Al 308.215	2028.90	ppb	6.7006	0.3	7317.87
As 188.980	2317.20	ppb	7.6694	0.3	1734.36
B 249.678	1341.36	ppb	9.5102	0.7	16263.8
Ba 389.178	2141.44	ppb	1.3719	0.1	58774.8
Be 313.042	51.7479	ppb	0.0605	0.1	108496
Ca 370.602	32516	ppb	32.17	0.1	121294
Cd 226.502	51.1121	ppb	0.1532	0.3	2613.81
Co 228.615	527.573	ppb	2.6610	0.5	6969.32
Cr 267.716	210.701	ppb	0.3960	0.2	11038.4
Cu 324.754	260.307	ppb	0.5804	0.2	13430.9
Fe 271.441	76846.3	ppb	53.1332	0.1	157982
K 766.491	20717.3	ppb	29.9884	0.1	1114142
Mg 279.078	26269.0	ppb	11.0650	0.0	68563.8
Mn 257.610	1192.13	ppb	0.7018	0.1	328136
Mo 202.032	511.913	ppb	1.1184	0.2	4375.50
Na 330.237	49572.9	ppb	17.9302	0.0	2966.22
Ni 231.604	526.517	ppb	2.3220	0.4	1774.53
Pb 220.353	499.762	ppb	3.3076	0.7	1133.23
Sb 206.834	503.334	ppb	2.3181	0.5	544.149
Se 196.026	2021.35	ppb	9.5506	0.5	1198.98
Sn 189.925	1024.51	ppb	2.7959	0.3	1038.16
Sr 216.596	851.033	ppb	3.6964	0.4	11390.3
Ti 334.941	992.751	ppb	2.1047	0.2	287302
Tl 190.794	2045.92	ppb	6.4831	0.3	2617.55
V 292.401	497.063	ppb	0.2626	0.1	15587.9
Zn 206.200	516.983	ppb	2.0875	0.4	1073.72

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680-88781-d-3-a (Samp) 4/5/2013, 7:33:06 PM Rack 2, Tube 16

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.2957	0.8343	0.1392u
Al 308.215	108.455	108.238	107.195
As 188.980	14.5491	9.4989	16.5960
B 249.678	85.9037	84.1269	82.7102
Ba 389.178	64.3030	64.8072	64.3635
Be 313.042	0.0362	0.0310	0.0457
Ca 370.602	102603	102625	103130
Cd 226.502	-0.2439	-0.0899	-0.2519
Co 228.615	12.0693	12.5546	12.1664
Cr 267.716	0.3305	0.2820	0.2668
Cu 324.754	0.8877	0.9409	1.0485
Fe 271.441	22330.0	22317.6	22358.3
K 766.491	3849.50	3833.62	3840.70
Mg 279.078	6327.04	6332.27	6361.34
Mn 257.610	1055.46	1055.19	1059.11
Mo 202.032	1.0702	1.2679	1.1625
Na 330.237	30342.8	30506.2	30308.4
Ni 231.604	4.3518	4.1315	3.4157
Pb 220.353	0.0681	1.0731	-1.0688u
Sb 206.834	3.1482	-3.8033u	0.0849
Se 196.026	1.7586	-7.9150u	-6.7219u
Sn 189.925	-4.0652u	-4.5065u	0.1799
Sr 216.596	562.360	563.245	566.788
Ti 334.941	1.7198	1.7044	1.8293
Tl 190.794	0.2684u	5.0963	6.3733
V 292.401	0.1343	0.6966	-0.5323u
Zn 206.200	4.2430	3.8246	3.6297

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.4231	ppb	0.3646	86.2	-84.0005
Al 308.215	107.963	ppb	0.6739	0.6	392.323
As 188.980	13.5480	ppb	3.6529	27.0	13.2175
B 249.678	84.2469	ppb	1.6001	1.9	1056.35
Ba 389.178	64.4912	ppb	0.2753	0.4	1786.83
Be 313.042	0.0376	ppb	0.0075	19.8	-221.804
Ca 370.602	102786	ppb	297.9	0.3	405019
Cd 226.502	-0.1952	ppb	0.0913	46.8	66.9581
Co 228.615	12.2634	ppb	0.2568	2.1	165.343
Cr 267.716	0.2931	ppb	0.0333	11.4	38.0175
Cu 324.754	0.9590	ppb	0.0819	8.5	-62.2792
Fe 271.441	22335.3	ppb	20.8762	0.1	45888.7
K 766.491	3841.27	ppb	7.9554	0.2	206752
Mg 279.078	6340.22	ppb	18.4820	0.3	16550.1
Mn 257.610	1056.59	ppb	2.1897	0.2	290556
Mo 202.032	1.1669	ppb	0.0989	8.5	18.2834
Na 330.237	30385.8	ppb	105.680	0.3	1834.63
Ni 231.604	3.9663	ppb	0.4894	12.3	14.4850
Pb 220.353	0.0241	ppb	1.0716	4437.5	2.8908
Sb 206.834	-0.1901	ppb	3.4839	1832.8	3.3041
Se 196.026	-4.2928	ppb	5.2745	122.9	-0.9465
Sn 189.925	-2.7973	ppb	2.5877	92.5	-4.4917
Sr 216.596	564.131	ppb	2.3431	0.4	7571.56
Ti 334.941	1.7512	ppb	0.0681	3.9	415.106
Tl 190.794	3.9126	ppb	3.2199	82.3	-3.3402
V 292.401	0.0995	ppb	0.6152	618.3	0.9881
Zn 206.200	3.8991	ppb	0.3134	8.0	0.5728

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680-88781-c-3-a (Samp) 4/5/2013, 7:39:31 PM Rack 2, Tube 17

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.4277	0.6158	0.7297
Al 308.215	22.7469	19.5707	14.2902
As 188.980	17.3425	13.4100	13.8988
B 249.678	70.1586	70.5287	70.5273
Ba 389.178	64.9385	65.9298	65.6660
Be 313.042	0.0218	0.0224	0.0271
Ca 370.602	103890	104274	104065
Cd 226.502	-0.2680	-0.0169	-0.3576
Co 228.615	13.3075	12.4574	12.3394
Cr 267.716	0.1746	0.0047	0.2198
Cu 324.754	4.2890	4.1767	3.8532
Fe 271.441	22590.9	22621.7	22643.1
K 766.491	3917.37	3924.16	3925.19
Mg 279.078	6479.18	6488.88	6501.65
Mn 257.610	1100.16	1101.59	1101.50
Mo 202.032	1.3608	1.0618	1.6755
Na 330.237	30909.5	30661.9	30707.1
Ni 231.604	2.5696	4.4432	2.5069
Pb 220.353	0.8859	1.0114	-0.9198u
Sb 206.834	-1.1646u	-2.6902u	-3.1894u
Se 196.026	3.7789	-0.3054	4.3223
Sn 189.925	1.3966	0.3818	3.5775
Sr 216.596	570.375	573.381	573.174
Ti 334.941	0.4160	0.3652	0.4004
Tl 190.794	9.0310	6.5554	7.3713
V 292.401	-0.0522u	0.1040	-0.3379u
Zn 206.200	6.0100	5.8797	5.6613

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.5910	ppb	0.1525	25.8	-70.0984
Al 308.215	18.8693	ppb	4.2718	22.6	72.8176
As 188.980	14.8837	ppb	2.1433	14.4	14.2222
B 249.678	70.4049	ppb	0.2133	0.3	887.818
Ba 389.178	65.5114	ppb	0.5134	0.8	1815.67
Be 313.042	0.0238	ppb	0.0029	12.4	-250.780
Ca 370.602	104076	ppb	192.1	0.2	410101
Cd 226.502	-0.2141	ppb	0.1766	82.5	66.9698
Co 228.615	12.7015	ppb	0.5282	4.2	171.067
Cr 267.716	0.1330	ppb	0.1135	85.3	29.9563
Cu 324.754	4.1063	ppb	0.2263	5.5	101.238
Fe 271.441	22618.6	ppb	26.2689	0.1	46470.7
K 766.491	3922.24	ppb	4.2511	0.1	211105
Mg 279.078	6489.90	ppb	11.2666	0.2	16939.9
Mn 257.610	1101.08	ppb	0.8023	0.1	302774
Mo 202.032	1.3660	ppb	0.3069	22.5	19.9671
Na 330.237	30759.5	ppb	131.866	0.4	1857.20
Ni 231.604	3.1732	ppb	1.1003	34.7	11.8237
Pb 220.353	0.3258	ppb	1.0806	331.7	3.5906
Sb 206.834	-2.3481	ppb	1.0549	44.9	0.9778
Se 196.026	2.5986	ppb	2.5296	97.3	3.1499
Sn 189.925	1.7853	ppb	1.6330	91.5	0.1601
Sr 216.596	572.310	ppb	1.6793	0.3	7681.15
Ti 334.941	0.3938	ppb	0.0260	6.6	22.9611
Tl 190.794	7.6526	ppb	1.2615	16.5	1.3510
V 292.401	-0.0954	ppb	0.2241	234.9	-5.1800
Zn 206.200	5.8503	ppb	0.1762	3.0	134714

E04052013.vvq. All Data Report 4/8/2013, 10:52:27 AM

680-88781-c-4-a (Samp) 4/5/2013, 7:45:56 PM Rack 2, Tube 18

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.1156u	0.8634	-0.0342u
Al 308.215	12.2553	12.5380	9.4518
As 188.980	22.7576	25.6852	30.7565
B 249.678	129.684	129.346	130.804
Ba 389.178	59.0357	58.9104	59.5389
Be 313.042	0.0563	0.0622	0.0551
Ca 370.602	48020	47965	48023
Cd 226.502	-0.3133	-0.3941	-0.6646
Co 228.615	0.6773	1.0653	0.2639
Cr 267.716	1.2088	1.2770	1.4297
Cu 324.754	1.2299	1.6725	1.0284
Fe 271.441	58644.7	58551.1	58725.5
K 766.491	5643.35	5663.74	5676.20
Mg 279.078	6491.89	6479.63	6484.20
Mn 257.610	153.902	153.406	154.248
Mo 202.032	0.0156u	0.4059u	-0.1163u
Na 330.237	9628.53	10093.5	9484.69
Ni 231.604	0.0720	0.9289	1.5797
Pb 220.353	0.8203	-0.7176u	1.2811
Sb 206.834	-2.2417u	-11.3585u	-3.8468u
Se 196.026	-3.4985u	-6.9863u	10.1436
Sn 189.925	1.4390	-2.3659u	3.9067
Sr 216.596	196.399	194.749	194.817
Ti 334.941	0.2117	0.2163	0.1975
Tl 190.794	4.8064u	2.1024u	-0.3350u
V 292.401	0.9775	1.5081	1.4348
Zn 206.200	2.3349	3.8711	3.6420

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.2379	ppb	0.5432	228.4	-85.6468
Al 308.215	11.4151	ppb	1.7061	14.9	45.9377
As 188.980	26.3998	ppb	4.0470	15.3	21.8221
B 249.678	129.945	ppb	0.7632	0.6	1567.41
Ba 389.178	59.1617	ppb	0.3327	0.6	1702.51
Be 313.042	0.0579	ppb	0.0038	6.5	-197.989
Ca 370.602	48003	ppb	32.40	0.1	184234
Cd 226.502	-0.4573	ppb	0.1840	40.2	165.183
Co 228.615	0.6688	ppb	0.4008	59.9	11.0213
Cr 267.716	1.3052	ppb	0.1131	8.7	95.5440
Cu 324.754	1.3102	ppb	0.3295	25.1	-32.8875
Fe 271.441	58640.4	ppb	87.2922	0.1	120475
K 766.491	5661.10	ppb	16.5798	0.3	304600
Mg 279.078	6485.24	ppb	6.1972	0.1	16954.8
Mn 257.610	153.852	ppb	0.4229	0.3	42839.1
Mo 202.032	0.1017	ppb	0.2715	267.0	7.0331
Na 330.237	9735.59	ppb	318.233	3.3	568.443
Ni 231.604	0.8602	ppb	0.7561	87.9	5.0006
Pb 220.353	0.4613	ppb	1.0466	226.9	3.6247
Sb 206.834	-5.8157	ppb	4.8669	83.7	-1.8452
Se 196.026	-0.1137	ppb	9.0527	7959.9	1.5145
Sn 189.925	0.9933	ppb	3.1600	318.1	-0.6826
Sr 216.596	195.322	ppb	0.9335	0.5	2655.14
Ti 334.941	0.2085	ppb	0.0098	4.7	-24.6474
Tl 190.794	2.1912	ppb	2.5719	117.4	-8.1046
V 292.401	1.3068	ppb	0.2875	22.0	39.5775
Zn 206.200	3.2827	ppb	0.8287	25.2	8.3372

E04052013.wvq. All Data Report 4/8/2013, 10:52:27 AM

680-88781-c-5-a (Samp) 4/5/2013, 7:52:20 PM Rack 2, Tube 19

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.2226	0.3473	-0.2462u
Al 308.215	4.5991	4.4848	-1.6562u
As 188.980	24.1111	30.2332	28.2922
B 249.678	116.566	117.525	118.788
Ba 389.178	51.0548	52.1392	51.7819
Be 313.042	0.0247	0.0294	0.0345
Ca 370.602	24534	24469	24510
Cd 226.502	-0.6589	-0.4378	-0.3939
Co 228.615	-0.0123u	0.8220	0.4391
Cr 267.716	0.2779	0.2374	0.2425
Cu 324.754	1.0123	1.5813	2.0120
Fe 271.441	65188.1	65349.5	65483.5
K 766.491	6513.12	6516.34	6512.58
Mg 279.078	7063.20	7051.68	7056.62
Mn 257.610	329.593	330.153	331.013
Mo 202.032	2.3847	2.4259	2.2870
Na 330.237	19350.7	19228.1	19117.6
Ni 231.604	1.2289	0.7965	2.4108
Pb 220.353	0.1280	-0.8345u	-1.7962u
Sb 206.834	-9.4686u	-0.9258	-3.0570u
Se 196.026	3.2351	-1.6556u	-0.6009
Sn 189.925	-0.5603u	2.0837	0.6193
Sr 216.596	134.156	134.171	133.097
Ti 334.941	0.0032	-0.0261	0.0129
Tl 190.794	4.1156u	1.0309u	1.6866u
V 292.401	0.4785	0.9934	0.2253
Zn 206.200	3.7215	5.2466	4.5591

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1079	ppb	0.3130	290.1	-92.4917
Al 308.215	2.4759	ppb	3.5790	144.6	14.0818
As 188.980	27.5455	ppb	3.1286	11.4	22.3594
B 249.678	117.626	ppb	1.1144	0.9	1409.64
Ba 389.178	51.6586	ppb	0.5526	1.1	1510.20
Be 313.042	0.0295	ppb	0.0049	16.5	-268.529
Ca 370.602	24504	ppb	32.83	0.1	90458
Cd 226.502	-0.4969	ppb	0.1421	28.6	183.538
Co 228.615	0.4163	ppb	0.4176	100.3	7.3324
Cr 267.716	0.2526	ppb	0.0221	8.8	43.3228
Cu 324.754	1.5352	ppb	0.5015	32.7	-19.0723
Fe 271.441	65340.4	ppb	147.875	0.2	134239
K 766.491	6514.01	ppb	2.0332	0.0	350459
Mg 279.078	7057.17	ppb	5.7821	0.1	18445.3
Mn 257.610	330.253	ppb	0.7152	0.2	91294.9
Mo 202.032	2.3659	ppb	0.0713	3.0	25.9746
Na 330.237	19232.1	ppb	116.588	0.6	1142.44
Ni 231.604	1.4788	ppb	0.8356	56.5	7.2602
Pb 220.353	-0.8342	ppb	0.9621	115.3	0.7381
Sb 206.834	-4.4838	ppb	4.4465	99.2	-0.2869
Se 196.026	0.3262	ppb	2.5738	789.0	1.8747
Sn 189.925	0.7142	ppb	1.3246	185.5	-0.9736
Sr 216.596	133.808	ppb	0.6158	0.5	1833.52
Ti 334.941	-0.0033	ppb	0.0203	608.3	-83.2671
Tl 190.794	2.2777	ppb	1.6251	71.3	-9.1137
V 292.401	0.5657	ppb	0.3914	69.2	15.6287
Zn 206.200	4.5091	ppb	0.7638	16.9	107.910

E04052013.vvq. All Data Report 4/8/2013, 10:52:27 AM

680-88781-d-5-a (Samp) 4/5/2013, 7:58:46 PM Rack 2, Tube 20

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.1894	0.3368	0.1458
Al 308.215	29.3690	29.5876	35.5678
As 188.980	26.8787	27.0583	30.4792
B 249.678	120.942	120.584	119.519
Ba 389.178	52.0700	52.8633	51.8650
Be 313.042	0.0226	0.0104	0.0174
Ca 370.602	25088	25131	25157
Cd 226.502	-0.6342	-0.7613	-0.5181
Co 228.615	0.2843	0.4178	0.4880
Cr 267.716	-0.0883	0.0239	0.0081
Cu 324.754	1.0988	0.7798	0.9317
Fe 271.441	67612.6	67332.7	67380.3
K 766.491	6693.46	6665.53	6666.02
Mg 279.078	7258.21	7258.48	7267.90
Mn 257.610	340.471	339.225	339.828
Mo 202.032	2.8943	2.3405	2.7409
Na 330.237	19542.0	19730.6	19724.3
Ni 231.604	-0.3974	-0.6291u	0.7139
Pb 220.353	1.4758	-0.6214u	3.5393
Sb 206.834	-1.1189	-8.4254u	-1.2334
Se 196.026	-5.6128u	-7.1299u	-4.0451u
Sn 189.925	0.5478	3.0479	1.5780
Sr 216.596	136.988	138.106	138.266
Ti 334.941	0.3221	0.2891	0.2602
Tl 190.794	2.7597u	4.2652u	1.9520u
V 292.401	0.5469	0.3625	0.2642
Zn 206.200	1.4084	1.3001	0.9753

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.2240	ppb	0.1001	44.7	-83.0370
Al 308.215	31.5081	ppb	3.5175	11.2	118.216
As 188.980	28.1387	ppb	2.0289	7.2	22.7831
B 249.678	120.349	ppb	0.7403	0.6	1440.15
Ba 389.178	52.2661	ppb	0.5272	1.0	1530.98
Be 313.042	0.0168	ppb	0.0061	36.5	-295.264
Ca 370.602	25125	ppb	35.31	0.1	92706
Cd 226.502	-0.6379	ppb	0.1216	19.1	183.401
Co 228.615	0.3967	ppb	0.1035	26.1	6.9912
Cr 267.716	-0.0188	ppb	0.0608	323.4	29.7533
Cu 324.754	0.9368	ppb	0.1596	17.0	-49.4873
Fe 271.441	67441.8	ppb	149.787	0.2	138557
K 766.491	6675.00	ppb	15.9844	0.2	359115
Mg 279.078	7261.53	ppb	5.5210	0.1	18978.8
Mn 257.610	339.842	ppb	0.6231	0.2	93936.1
Mo 202.032	2.6586	ppb	0.2859	10.8	28.3493
Na 330.237	19665.6	ppb	107.098	0.5	1168.02
Ni 231.604	-0.1042	ppb	0.7179	688.8	1.9892
Pb 220.353	1.4646	ppb	2.0804	142.0	5.9481
Sb 206.834	-3.5926	ppb	4.1857	116.5	0.7214
Se 196.026	-5.5959	ppb	1.5425	27.6	-1.6144
Sn 189.925	1.7246	ppb	1.2565	72.9	0.0523
Sr 216.596	137.787	ppb	0.6962	0.5	1887.87
Ti 334.941	0.2904	ppb	0.0310	10.7	2.8877
Tl 190.794	2.9923	ppb	1.1740	39.2	-8.4606
V 292.401	0.3912	ppb	0.1435	36.7	10.0990
Zn 206.200	1.2279	ppb	0.2254	18.4	4.2379



E04052013.vvq. All Data Report 4/8/2013, 10:52:27 AM

680-88781-c-6-a (Samp)                      4/5/2013, 8:05:11 PM                      Rack 2, Tube 21  
 Weight: 1                                      Volume: 1                                      Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.3905	0.0556	0.1644
Al 308.215	0.8391	2.0366	6.7093
As 188.980	-2.3486u	-3.4106u	-2.2241u
B 249.678	4.7340	4.0487	4.0596
Ba 389.178	-0.8256u	-0.5961u	0.6737
Be 313.042	0.0200	0.0296	0.0225
Ca 370.602	35.01	38.61	38.08
Cd 226.502	0.0333	-0.1008u	0.0041
Co 228.615	-0.3879u	-0.4134u	-0.1371u
Cr 267.716	-0.0306u	-0.0593u	0.2033
Cu 324.754	1.7150	1.8295	1.7878
Fe 271.441	44.0748	46.8237	45.3250
K 766.491	6.7107	7.7712	6.7561
Mg 279.078	3.8459	6.4399	5.3982
Mn 257.610	-0.7696u	-0.7669u	-0.6917u
Mo 202.032	-0.0028u	-0.1568u	-0.0901u
Na 330.237	-164.260u	-31.6899u	17.4366
Ni 231.604	0.3076	-0.0998u	0.0346
Pb 220.353	0.3533	0.6413	-1.4283u
Sb 206.834	-4.8585u	-0.9217u	-5.3516u
Se 196.026	-0.4526u	-1.8374u	0.1921
Sn 189.925	-1.7053u	0.5386	-1.6525u
Sr 216.596	-0.2493u	0.2918	-0.1322u
Ti 334.941	0.0375	0.1494	0.0772
Tl 190.794	2.6805	0.0203	2.2383
V 292.401	0.3910	-0.1223u	0.1084
Zn 206.200	2.1351	-0.8067u	0.1181

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.2035	ppb	0.1708	83.9	-79.2728
Al 308.215	3.1950	ppb	3.1018	97.1	16.4912
As 188.980	-2.6611	ppb	0.6521	24.5	0.3298
B 249.678	4.2808	ppb	0.3925	9.2	111.836
Ba 389.178	-0.2493	ppb	0.8075	323.9	-41.5403
Be 313.042	0.0240	ppb	0.0050	20.8	-284.472
Ca 370.602	37.24	ppb	1.943	5.2	137.6
Cd 226.502	-0.0211	ppb	0.0705	333.8	7.5905
Co 228.615	-0.3128	ppb	0.1527	48.8	0.3476
Cr 267.716	0.0378	ppb	0.1440	381.0	13.3229
Cu 324.754	1.7774	ppb	0.0580	3.3	-26.6939
Fe 271.441	45.4078	ppb	1.3763	3.0	92.3774
K 766.491	7.0793	ppb	0.5996	8.5	595.081
Mg 279.078	5.2280	ppb	1.3053	25.0	35.0036
Mn 257.610	-0.7427	ppb	0.0442	6.0	142.451
Mo 202.032	-0.0832	ppb	0.0772	92.8	8.9264
Na 330.237	-59.5045	ppb	93.9877	158.0	-5.2272
Ni 231.604	0.0808	ppb	0.2076	257.0	0.8147
Pb 220.353	-0.1446	ppb	1.1210	775.5	2.2060
Sb 206.834	-3.7106	ppb	2.4278	65.4	-1.0323
Se 196.026	-0.6993	ppb	1.0370	148.3	0.7087
Sn 189.925	-0.9398	ppb	1.2805	136.3	-2.6714
Sr 216.596	-0.0299	ppb	0.2847	952.8	8.9005
Ti 334.941	0.0880	ppb	0.0567	64.4	-95.7715
Tl 190.794	1.6464	ppb	1.4255	86.6	-1.6399
V 292.401	0.1257	ppb	0.2571	204.5	2.3176
Zn 206.200	0.4822	ppb	1.5043	312.0	2.7486

E04052013.vvq. All Data Report 4/8/2013, 10:52:27 AM

680-88781-c-7-a (Samp)

4/5/2013, 8:11:37 PM

Rack 2, Tube 22

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.7458	0.5933	0.7017
Al 308.215	1.2390	3.9662	3.9744
As 188.980	-3.9137u	-3.8177u	-6.5455u
B 249.678	1.7972	1.3230	-0.8018u
Ba 389.178	-0.3107u	0.1872	-0.2005u
Be 313.042	0.0011	-0.0068u	0.0557
Ca 370.602	61.92	55.15	39.39
Cd 226.502	-0.0367u	-0.1368u	-0.1221u
Co 228.615	-0.4064u	0.2040	-0.1861u
Cr 267.716	-0.1467u	-0.1602u	-0.0989u
Cu 324.754	0.6086	0.7669	1.1263
Fe 271.441	10.1440	13.7976	5.5038
K 766.491	8.9028	7.6399	4.0563
Mg 279.078	15.7033	12.3943	8.3588
Mn 257.610	-0.9273u	-0.9265u	-0.9931u
Mo 202.032	0.5562	0.2118	-0.3227u
Na 330.237	-86.3488u	-45.5770u	41.8450
Ni 231.604	-0.4388u	0.6570	0.1103
Pb 220.353	1.3035	-0.8640u	0.2833
Sb 206.834	-0.1101u	-0.1776u	-0.7467u
Se 196.026	-3.3082u	0.1010	3.9330
Sn 189.925	-0.3238u	0.3780	0.0794
Sr 216.596	0.3730	0.4680	0.0590
Ti 334.941	0.0333	0.0153	0.1514
Tl 190.794	-1.4783u	0.7751	2.1733
V 292.401	-0.2165u	-0.0213u	0.2283
Zn 206.200	0.4213	0.2606	-0.3924u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.6802	ppb	0.0784	11.5	-39.9983
Al 308.215	3.0599	ppb	1.5769	51.5	16.0325
As 188.980	-4.7590	ppb	1.5479	32.5	-1.2385
B 249.678	0.7728	ppb	1.3841	179.1	69.2614
Ba 389.178	-0.1080	ppb	0.2615	242.1	-37.7119
Be 313.042	0.0167	ppb	0.0340	204.1	-299.998
Ca 370.602	52.16	ppb	11.56	22.2	200.6
Cd 226.502	-0.0986	ppb	0.0540	54.8	3.8811
Co 228.615	-0.1295	ppb	0.3091	238.7	2.7544
Cr 267.716	-0.1353	ppb	0.0322	23.8	4.2748
Cu 324.754	0.8339	ppb	0.2653	31.8	-75.6884
Fe 271.441	9.8151	ppb	4.1567	42.3	19.2481
K 766.491	6.8663	ppb	2.5142	36.6	583.629
Mg 279.078	12.1522	ppb	3.6782	30.3	53.0692
Mn 257.610	-0.9489	ppb	0.0382	4.0	85.7911
Mo 202.032	0.1484	ppb	0.4429	298.4	10.9071
Na 330.237	-30.0269	ppb	65.4963	218.1	-3.4211
Ni 231.604	0.1095	ppb	0.5479	500.2	0.9104
Pb 220.353	0.2409	ppb	1.0844	450.1	3.0789
Sb 206.834	-0.3448	ppb	0.3497	101.4	2.5973
Se 196.026	0.2420	ppb	3.6227	1497.3	1.2658
Sn 189.925	0.0445	ppb	0.3522	790.8	-1.6724
Sr 216.596	0.3000	ppb	0.2140	71.3	13.2800
Ti 334.941	0.0667	ppb	0.0739	110.8	-101.927
Tl 190.794	0.4901	ppb	1.8424	376.0	-3.1230
V 292.401	-0.0032	ppb	0.2230	7061.9	-1.8014
Zn 206.200	0.0965	ppb	0.4310	446.6	481.9793

E04052013.vvq. All Data Report 4/8/2013, 10:52:27 AM

mb 680-271469/1-a (Samp) 4/5/2013, 8:18:03 PM Rack 2, Tube 23

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.4932	0.4697	0.9057
Al 308.215	-1.7811u	2.9018	1.8545
As 188.980	-4.9781u	-5.4411u	-4.5719u
B 249.678	1.6519	0.6640	1.7531
Ba 389.178	0.2508	-0.5143u	-0.1876u
Be 313.042	0.0024	0.0084	0.0107
Ca 370.602	5.182	5.584	6.346
Cd 226.502	0.2161	-0.1014u	-0.1406u
Co 228.615	-0.8616u	-0.4800u	0.1677
Cr 267.716	-0.2532u	-0.0280u	-0.2095u
Cu 324.754	-0.0556u	0.5418	1.1156
Fe 271.441	10.9771	4.4593	7.7380
K 766.491	3.4404	3.3388	3.8792
Mg 279.078	1.0204	2.1171	3.6023
Mn 257.610	-0.7549u	-0.6796u	-0.7729u
Mo 202.032	0.0994	-0.6074u	-0.4558u
Na 330.237	-101.308u	292.348	-177.909u
Ni 231.604	-0.2049u	0.0158	0.7627
Pb 220.353	-0.5802u	1.0897	-0.9387u
Sb 206.834	3.1822	0.8048	-0.1017u
Se 196.026	-1.9822u	-2.9893u	-7.6066u
Sn 189.925	1.4555	2.1024	1.3412
Sr 216.596	0.3675	-0.0262u	-0.3368u
Ti 334.941	0.1471	0.2075	0.1747
Tl 190.794	0.4631	0.0164	1.8434
V 292.401	-0.1166u	-0.1941u	0.3612
Zn 206.200	-1.0905u	-0.2769u	-0.4053u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.6229	ppb	0.2452	39.4	-44.7083
Al 308.215	0.9918	ppb	2.4578	247.8	8.5816
As 188.980	-4.9970	ppb	0.4349	8.7	-1.4168
B 249.678	1.3563	ppb	0.6017	44.4	76.3525
Ba 389.178	-0.1504	ppb	0.3839	255.3	-38.9081
Be 313.042	0.0072	ppb	0.0042	59.2	-319.958
Ca 370.602	5.704	ppb	0.5916	10.4	16.69
Cd 226.502	-0.0086	ppb	0.1956	2269.3	8.0509
Co 228.615	-0.3913	ppb	0.5203	133.0	-0.6791
Cr 267.716	-0.1635	ppb	0.1194	73.0	2.7994
Cu 324.754	0.5339	ppb	0.5856	109.7	-91.2792
Fe 271.441	7.7248	ppb	3.2589	42.2	14.9923
K 766.491	3.5528	ppb	0.2872	8.1	405.468
Mg 279.078	2.2466	ppb	1.2958	57.7	27.2153
Mn 257.610	-0.7358	ppb	0.0495	6.7	144.206
Mo 202.032	-0.3213	ppb	0.3721	115.8	6.8963
Na 330.237	4.3768	ppb	252.314	5764.8	-1.3254
Ni 231.604	0.1912	ppb	0.5071	265.2	1.1852
Pb 220.353	-0.1431	ppb	1.0825	756.7	2.2095
Sb 206.834	1.2951	ppb	1.6959	131.0	4.3756
Se 196.026	-4.1927	ppb	2.9991	71.5	-1.3602
Sn 189.925	1.6330	ppb	0.4105	25.1	-0.0601
Sr 216.596	0.0015	ppb	0.3530	23083.7	9.3007
Ti 334.941	0.1764	ppb	0.0303	17.1	-70.2045
Tl 190.794	0.7743	ppb	0.9524	123.0	-2.7572
V 292.401	0.0168	ppb	0.3008	1787.0	-1.0809
Zn 206.200	-0.5909	ppb	0.4374	174.8	-0.6057

E04052013.vvq. All Data Report 4/8/2013, 10:52:27 AM

ics 680-271469/2-a (Samp) 4/5/2013, 8:24:29 PM Rack 2, Tube 24  
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	21.0748	18.9924	20.9597
Al 308.215	5245.36	4807.22	5284.90
As 188.980	108.236	98.9063	104.554
B 249.678	198.073	181.644	203.521
Ba 389.178	105.931	97.5451	107.928
Be 313.042	53.8897	49.3089	54.4355
Ca 370.602	5065	4667	5118
Cd 226.502	55.0105	50.0588	55.4149
Co 228.615	54.5973	49.5650	55.7368
Cr 267.716	109.029	99.6807	110.200
Cu 324.754	106.142	95.3220	108.786
Fe 271.441	5050.93	4624.82	5126.51
K 766.491	5666.13	5133.53	5747.87
Mg 279.078	5159.73	4724.31	5204.34
Mn 257.610	545.675	499.911	551.855
Mo 202.032	95.4149	87.7384	98.9886
Na 330.237	4895.51	4339.12	4743.03
Ni 231.604	106.253	98.4010	108.796
Pb 220.353	53.4483	44.6532	54.8549
Sb 206.834	50.3342	46.3271	47.4355
Se 196.026	99.5154	97.5434	104.806
Sn 189.925	142.523	131.725	150.779
Sr 216.596	104.917	96.3915	106.211
Ti 334.941	100.866	92.1896	101.964
Tl 190.794	42.5605	42.0084	46.9135
V 292.401	102.726	94.4580	104.122
Zn 206.200	108.769	98.4059	109.274

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	20.3423	ppb	1.1704	5.8	1579.17
Al 308.215	5112.49	ppb	265.111	5.2	18346.1
As 188.980	103.899	ppb	4.6993	4.5	79.9753
B 249.678	194.412	ppb	11.3888	5.9	2415.98
Ba 389.178	103.801	ppb	5.5093	5.3	2830.03
Be 313.042	52.5447	ppb	2.8155	5.4	110263
Ca 370.602	4950	ppb	246.6	5.0	19150
Cd 226.502	53.4947	ppb	2.9825	5.6	2506.16
Co 228.615	53.2997	ppb	3.2841	6.2	706.842
Cr 267.716	106.303	ppb	5.7652	5.4	5565.76
Cu 324.754	103.417	ppb	7.1337	6.9	5254.21
Fe 271.441	4934.09	ppb	270.489	5.5	10147.3
K 766.491	5515.85	ppb	333.610	6.0	296790
Mg 279.078	5029.46	ppb	265.210	5.3	13134.5
Mn 257.610	532.480	ppb	28.3745	5.3	146597
Mo 202.032	94.0473	ppb	5.7485	6.1	812.247
Na 330.237	4659.22	ppb	287.509	6.2	277.604
Ni 231.604	104.483	ppb	5.4188	5.2	352.303
Pb 220.353	50.9855	ppb	5.5288	10.8	117.820
Sb 206.834	48.0323	ppb	2.0691	4.3	55.2171
Se 196.026	100.621	ppb	3.7553	3.7	60.9004
Sn 189.925	141.676	ppb	9.5554	6.7	142.082
Sr 216.596	102.506	ppb	5.3350	5.2	1375.70
Ti 334.941	98.3397	ppb	5.3544	5.4	28361.4
Tl 190.794	43.8275	ppb	2.6868	6.1	51.0882
V 292.401	100.435	ppb	5.2233	5.2	3144.06
Zn 206.200	105.483	ppb	6.1343	5.8	412.089

E04052013.vvq. All Data Report 4/8/2013, 10:52:27 AM

Cont Calib Verif (CCV) 4/5/2013, 8:30:55 PM Rack 2, Tube 25

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	505.244	503.384	501.906
Al 308.215	4950.56	4961.17	4910.89
As 188.980	483.948	481.201	486.236
B 249.678	511.672	513.149	515.396
Ba 389.178	4797.52	4799.19	4784.77
Be 313.042	481.469	483.071	479.804
Ca 370.602	4882	4892	4856
Cd 226.502	479.250	479.661	479.144
Co 228.615	487.228	485.979	487.336
Cr 267.716	4909.23	4912.13	4881.40
Cu 324.754	4803.75	4833.35	4812.62
Fe 271.441	4911.29	4910.24	4903.52
K 766.491	9858.98	9892.35	9889.49
Mg 279.078	4872.19	4880.72	4852.96
Mn 257.610	4846.87	4837.25	4828.67
Mo 202.032	491.841	492.954	491.713
Na 330.237	7200.96	7007.66	7258.15
Ni 231.604	2429.96	2429.91	2397.54
Pb 220.353	494.441	491.703	488.341
Sb 206.834	987.063	1003.27	983.601
Se 196.026	4875.23	4867.18	4876.35
Sn 189.925	4969.46	4947.97	4902.37
Sr 216.596	2406.75	2405.22	2392.50
Ti 334.941	490.867	491.488	488.522
Tl 190.794	4959.24	4960.76	4966.92
V 292.401	4868.39	4866.79	4867.08
Zn 206.200	2422.24	2426.11	2423.07

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	503.511	ppb	1.6726	0.3	41351.5	100.70226
Al 308.215	4940.87	ppb	26.5058	0.5	17710.7	98.81744
As 188.980	483.795	ppb	2.5207	0.5	363.935	96.75896
B 249.678	513.406	ppb	1.8750	0.4	6291.64	20.53623Q
Ba 389.178	4793.83	ppb	7.8866	0.2	131176	95.87657
Be 313.042	481.448	ppb	1.6332	0.3	1012928	96.28959
Ca 370.602	4877	ppb	18.65	0.4	19153	97.53296
Cd 226.502	479.352	ppb	0.2733	0.1	22270.6	95.87032
Co 228.615	486.848	ppb	0.7546	0.2	6435.18	97.36952
Cr 267.716	4900.92	ppb	16.9694	0.3	255940	98.01837
Cu 324.754	4816.57	ppb	15.1907	0.3	249953	96.33145
Fe 271.441	4908.35	ppb	4.2127	0.1	10229.1	98.16697
K 766.491	9880.27	ppb	18.4958	0.2	531456	98.80270
Mg 279.078	4868.62	ppb	14.2172	0.3	12628.5	97.37242
Mn 257.610	4837.60	ppb	9.1062	0.2	1328518	96.75193
Mo 202.032	492.169	ppb	0.6824	0.1	4201.43	98.43386
Na 330.237	7155.59	ppb	131.262	1.8	405.131	95.40783
Ni 231.604	2419.14	ppb	18.7055	0.8	8142.02	96.76542
Pb 220.353	491.495	ppb	3.0553	0.6	1115.93	98.29897
Sb 206.834	991.310	ppb	10.4986	1.1	1124.20	99.13100
Se 196.026	4872.92	ppb	5.0018	0.1	2888.14	97.45839
Sn 189.925	4939.93	ppb	34.2556	0.7	5012.12	98.79866
Sr 216.596	2401.49	ppb	7.8200	0.3	32028.8	96.05960
Ti 334.941	490.292	ppb	1.5640	0.3	141789	98.05845
Tl 190.794	4962.31	ppb	4.0636	0.1	6373.94	99.24612
V 292.401	4867.42	ppb	0.8533	0.0	153307	97.34845
Zn 206.200	2423.81	ppb	2.0383	0.1	4824.52	96.95242

E04052013.vvq. All Data Report 4/8/2013, 10:52:27 AM

Cont Calib Blank (CCB) 4/5/2013, 8:37:21 PM Rack 2, Tube 26  
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.0265	0.7071	0.3925
Al 308.215	1.8667	2.3251	0.2150
As 188.980	-4.8626u	-3.8592u	-1.3469u
B 249.678	11.0803	10.3005	8.1720
Ba 389.178	1.1006	0.7910	0.9919
Be 313.042	0.0405	0.0513	0.0586
Ca 370.602	-1.060u	0.8550	6.770
Cd 226.502	0.0163	0.0618	0.0627
Co 228.615	-0.0751u	0.3859	0.0012u
Cr 267.716	0.2922	0.3363	0.4314
Cu 324.754	1.4764	1.3464	1.0883
Fe 271.441	4.5441	0.5476	-0.2809u
K 766.491	1.9501	2.7642	2.9882
Mg 279.078	4.9497	0.8844	4.6785
Mn 257.610	-0.6990u	-0.4849u	-0.3847u
Mo 202.032	0.9039	0.6371	0.4285
Na 330.237	176.804	181.973	-290.852u
Ni 231.604	0.2361	0.4451	-0.4846u
Pb 220.353	2.7064	-1.5326u	0.5229
Sb 206.834	-3.1204u	-0.3187u	-2.9523u
Se 196.026	2.7529	-2.3716u	-3.6669u
Sn 189.925	2.7055	2.4795	-2.7860u
Sr 216.596	0.0817	0.7865	0.6920
Ti 334.941	0.1513	0.2016	0.1908
Tl 190.794	6.3480	2.9352	6.5238
V 292.401	0.3498	0.6333	0.3008
Zn 206.200	1.2636	0.9853	0.5962

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.3754	ppb	0.3406	90.7	-65.1283	0.37538
Al 308.215	1.4689	ppb	1.1099	75.6	10.3605	1.46893
As 188.980	-3.3562	ppb	1.8110	54.0	-0.1901	-3.35624
B 249.678	9.8509	ppb	1.5053	15.3	179.566	9.85092
Ba 389.178	0.9612	ppb	0.1571	16.3	-8.4898	0.96118
Be 313.042	0.0501	ppb	0.0091	18.2	-229.672	0.05013
Ca 370.602	2.188	ppb	4.082	186.5	3.187	2.18825
Cd 226.502	0.0470	ppb	0.0265	56.5	10.6183	0.04697
Co 228.615	0.1040	ppb	0.2471	237.6	5.8207	0.10401
Cr 267.716	0.3533	ppb	0.0711	20.1	29.7869	0.35328
Cu 324.754	1.3037	ppb	0.1975	15.2	-51.2874	1.30370
Fe 271.441	1.6036	ppb	2.5800	160.9	2.4687	1.60362
K 766.491	2.5675	ppb	0.5463	21.3	352.491	2.56750
Mg 279.078	3.5042	ppb	2.2728	64.9	30.4915	3.50419
Mn 257.610	-0.5228	ppb	0.1606	30.7	202.668	-0.52283
Mo 202.032	0.6565	ppb	0.2383	36.3	15.2451	0.65646
Na 330.237	22.6416	ppb	271.506	1199.1	-0.2313	22.64164
Ni 231.604	0.0655	ppb	0.4878	744.3	0.7622	0.06554
Pb 220.353	0.5656	ppb	2.1198	374.8	3.8133	0.56556
Sb 206.834	-2.1305	ppb	1.5713	73.8	0.6662	-2.13048
Se 196.026	-1.0952	ppb	3.3949	310.0	0.4740	-1.09520
Sn 189.925	0.7996	ppb	3.1073	388.6	-0.9060	0.79964
Sr 216.596	0.5201	ppb	0.3826	73.6	16.1806	0.52006
Ti 334.941	0.1812	ppb	0.0265	14.6	-68.8149	0.18123
Tl 190.794	5.2690	ppb	2.0231	38.4	3.0256	5.26902
V 292.401	0.4280	ppb	0.1795	42.0	11.6767	0.42795
Zn 206.200	0.9484	ppb	0.3352	35.3	2.6790	0.94841

E04052013.vvq. All Data Report 4/8/2013, 10:52:27 AM

ics 680-271469/3-a (Samp)      4/5/2013, 8:43:46 PM      Rack 2, Tube 27  
 Weight: 1      Volume: 1      Dilution: 1

Label	Replicates Concentration		
Ag 328.068	62.0281	62.0830	62.5691
Al 308.215	2088.96	2090.81	2096.65
As 188.980	203.040	208.288	209.537
B 249.678	392.526	394.161	396.316
Ba 389.178	205.892	205.906	204.509
Be 313.042	211.621	211.732	211.859
Ca 370.602	19922	19924	19934
Cd 226.502	210.131	209.488	209.417
Co 228.615	210.277	207.046	209.214
Cr 267.716	213.702	213.168	213.188
Cu 324.754	207.655	206.938	209.566
Fe 271.441	20775.1	20760.3	20804.1
K 766.491	21075.6	21014.5	21165.3
Mg 279.078	20439.4	20437.0	20438.9
Mn 257.610	2101.57	2097.47	2104.43
Mo 202.032	187.870	189.890	190.842
Na 330.237	18083.3	18165.2	17994.0
Ni 231.604	209.451	207.916	207.539
Pb 220.353	203.330	200.671	206.756
Sb 206.834	134.183	147.344	147.596
Se 196.026	188.884	190.321	190.509
Sn 189.925	132.504	132.782	137.187
Sr 216.596	215.588	214.555	214.314
Ti 334.941	196.439	196.804	196.997
Tl 190.794	49.3786	47.4269	46.3280
V 292.401	201.230	201.199	201.016
Zn 206.200	203.165	200.949	200.307

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	62.2267	ppb	0.2978	0.5	5034.79
Al 308.215	2092.14	ppb	4.0096	0.2	7521.38
As 188.980	206.955	ppb	3.4480	1.7	156.966
B 249.678	394.334	ppb	1.9008	0.5	4825.73
Ba 389.178	205.436	ppb	0.8024	0.4	5685.82
Be 313.042	211.738	ppb	0.1192	0.1	445378
Ca 370.602	19927	ppb	6.215	0.0	76956
Cd 226.502	209.679	ppb	0.3933	0.2	9803.07
Co 228.615	208.846	ppb	1.6468	0.8	2757.36
Cr 267.716	213.353	ppb	0.3030	0.1	11165.9
Cu 324.754	208.053	ppb	1.3582	0.7	10694.2
Fe 271.441	20779.9	ppb	22.2871	0.1	42732.5
K 766.491	21085.1	ppb	75.8036	0.4	1133918
Mg 279.078	20438.5	ppb	1.3018	0.0	53317.9
Mn 257.610	2101.15	ppb	3.4976	0.2	577460
Mo 202.032	189.534	ppb	1.5176	0.8	1626.50
Na 330.237	18080.8	ppb	85.6537	0.5	1084.81
Ni 231.604	208.302	ppb	1.0126	0.5	702.114
Pb 220.353	203.586	ppb	3.0507	1.5	463.779
Sb 206.834	143.041	ppb	7.6726	5.4	159.354
Se 196.026	189.905	ppb	0.8887	0.5	114.351
Sn 189.925	134.158	ppb	2.6274	2.0	134.465
Sr 216.596	214.819	ppb	0.6765	0.3	2879.92
Ti 334.941	196.747	ppb	0.2839	0.1	56911.9
Tl 190.794	47.7112	ppb	1.5451	3.2	51.3501
V 292.401	201.148	ppb	0.1155	0.1	6298.17
Zn 206.200	201.474	ppb	1.4994	0.7	407.425

E04052013.vvq. All Data Report 4/8/2013, 10:52:27 AM

680-88781-d-4-a (Samp) 4/5/2013, 8:50:11 PM Rack 2, Tube 28

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.5270	0.4180	0.0907u
Al 308.215	10.6013	16.1778	8.2913
As 188.980	30.3652	22.1997	30.7428
B 249.678	122.398	124.273	123.788
Ba 389.178	57.8773	59.4380	59.3955
Be 313.042	0.1362	0.1222	0.1308
Ca 370.602	47210	47215	47062
Cd 226.502	-0.4821	-0.4339	-0.3670
Co 228.615	1.1609	0.5235	1.3867
Cr 267.716	0.9464	0.9120	0.9969
Cu 324.754	1.2233	1.3522	1.2656
Fe 271.441	58842.5	59033.4	58894.1
K 766.491	5448.15	5461.19	5452.96
Mg 279.078	6178.89	6188.52	6151.02
Mn 257.610	154.991	155.023	154.479
Mo 202.032	0.9898	1.3876	0.6301
Na 330.237	9387.27	9403.50	9360.68
Ni 231.604	0.6945	1.3363	-0.2141
Pb 220.353	0.8127	-2.2702u	3.8924
Sb 206.834	2.2696	-3.7385u	-1.0576
Se 196.026	4.9714	-4.0843u	-4.3573u
Sn 189.925	1.4553	1.3083	2.4608
Sr 216.596	190.768	190.831	190.045
Ti 334.941	0.3295	0.4621	0.2872
Tl 190.794	2.8366u	2.2943u	2.6098u
V 292.401	0.7753	0.7764	0.4738
Zn 206.200	6.5205	7.4245	5.9951

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.3452	ppb	0.2271	65.8	-76.6558
Al 308.215	11.6901	ppb	4.0544	34.7	47.0179
As 188.980	27.7692	ppb	4.8271	17.4	22.8368
B 249.678	123.487	ppb	0.9732	0.8	1488.62
Ba 389.178	58.9036	ppb	0.8891	1.5	1694.95
Be 313.042	0.1298	ppb	0.0071	5.4	-46.9777
Ca 370.602	47162	ppb	86.84	0.2	180876
Cd 226.502	-0.4277	ppb	0.0578	13.5	167.373
Co 228.615	1.0237	ppb	0.4477	43.7	15.6534
Cr 267.716	0.9518	ppb	0.0427	4.5	77.1596
Cu 324.754	1.2804	ppb	0.0657	5.1	-34.3184
Fe 271.441	58923.3	ppb	98.7737	0.2	121056
K 766.491	5454.10	ppb	6.5953	0.1	293470
Mg 279.078	6172.81	ppb	19.4758	0.3	16139.6
Mn 257.610	154.831	ppb	0.3052	0.2	43105.8
Mo 202.032	1.0025	ppb	0.3789	37.8	14.7109
Na 330.237	9383.81	ppb	21.6181	0.2	546.966
Ni 231.604	0.6056	ppb	0.7790	128.6	4.1508
Pb 220.353	0.8116	ppb	3.0813	379.6	4.4166
Sb 206.834	-0.8422	ppb	3.0098	357.4	3.5182
Se 196.026	-1.1567	ppb	5.3089	459.0	0.8991
Sn 189.925	1.7415	ppb	0.6273	36.0	0.0764
Sr 216.596	190.548	ppb	0.4365	0.2	2591.36
Ti 334.941	0.3596	ppb	0.0912	25.4	17.7106
Tl 190.794	2.5802	ppb	0.2723	10.6	-7.6386
V 292.401	0.6752	ppb	0.1744	25.8	19.4153
Zn 206.200	6.6467	ppb	0.7230	10.9	15.0588



E04052013.vvq. All Data Report 4/8/2013, 10:52:27 AM

680-88781-d-4-aSD^5 (Samp) 4/5/2013, 8:56:36 PM Rack 2, Tube 29

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.4760	0.9499	0.9212
Al 308.215	3.3871	2.1407	5.6404
As 188.980	2.2348	-2.7409u	1.9826
B 249.678	28.8303	28.6816	28.4772
Ba 389.178	11.9423	11.9595	12.0249
Be 313.042	0.0231	0.0265	0.0171
Ca 370.602	9496	9515	9493
Cd 226.502	-0.1781	-0.1893	-0.0420
Co 228.615	0.1993	0.0862	0.0247u
Cr 267.716	0.3949	0.0891	-0.0705u
Cu 324.754	-0.1041u	0.6117	0.9687
Fe 271.441	12063.4	12056.0	12008.5
K 766.491	1041.18	1037.87	1032.45
Mg 279.078	1248.86	1260.64	1255.80
Mn 257.610	30.5407	30.6246	30.4534
Mo 202.032	0.3728	0.3845	-0.4542u
Na 330.237	1912.63	2027.63	1811.82
Ni 231.604	0.0310	0.0357	0.1698
Pb 220.353	-2.6418u	-0.0367u	-1.6298u
Sb 206.834	2.3160	-0.4856u	-1.6773u
Se 196.026	0.6428	3.4957	-1.3479u
Sn 189.925	2.5994	5.7748	4.4524
Sr 216.596	38.7796	39.1146	38.3276
Ti 334.941	0.2311	0.1755	0.1989
Tl 190.794	3.1529	-2.7290u	0.3486u
V 292.401	0.1193	0.3012	0.2702
Zn 206.200	1.6022	2.1208	1.1358

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.7824	ppb	0.2657	34.0	-33.4172
Al 308.215	3.7227	ppb	1.7738	47.6	18.3889
As 188.980	0.4922	ppb	2.8027	569.5	2.6361
B 249.678	28.6630	ppb	0.1773	0.6	393.519
Ba 389.178	11.9756	ppb	0.0436	0.4	316.940
Be 313.042	0.0222	ppb	0.0048	21.4	-285.219
Ca 370.602	9501	ppb	12.30	0.1	36420
Cd 226.502	-0.1365	ppb	0.0820	60.1	38.5864
Co 228.615	0.1034	ppb	0.0885	85.6	5.3668
Cr 267.716	0.1378	ppb	0.2365	171.6	21.8214
Cu 324.754	0.4921	ppb	0.5463	111.0	-89.7404
Fe 271.441	12042.6	ppb	29.7727	0.2	24740.4
K 766.491	1037.17	ppb	4.4046	0.4	55980.7
Mg 279.078	1255.10	ppb	5.9177	0.5	3298.65
Mn 257.610	30.5396	ppb	0.0856	0.3	8781.94
Mo 202.032	0.1011	ppb	0.4809	475.8	9.7909
Na 330.237	1917.36	ppb	107.985	5.6	110.494
Ni 231.604	0.0789	ppb	0.0788	99.9	1.1277
Pb 220.353	-1.4361	ppb	1.3133	91.5	-0.7111
Sb 206.834	0.0510	ppb	2.0500	4018.5	3.3275
Se 196.026	0.9302	ppb	2.4346	261.7	1.7673
Sn 189.925	4.2756	ppb	1.5951	37.3	2.6273
Sr 216.596	38.7406	ppb	0.3949	1.0	534.257
Ti 334.941	0.2018	ppb	0.0280	13.9	-55.7660
Tl 190.794	0.2575	ppb	2.9420	1142.5	-4.8909
V 292.401	0.2302	ppb	0.0973	42.3	5.6002
Zn 206.200	1.6196	ppb	0.4927	30.4	5.0206

E04052013.vvq. All Data Report 4/8/2013, 10:52:27 AM

680-88781-d-4-aPDS (Samp) 4/5/2013, 9:03:01 PM Rack 2, Tube 30

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	41.5821	41.8476	40.8195
Al 308.215	2040.51	2045.40	2041.51
As 188.980	2324.02	2313.62	2305.27
B 249.678	1102.61	1109.17	1114.99
Ba 389.178	2147.99	2148.93	2150.33
Be 313.042	51.7444	51.7853	51.6894
Ca 370.602	51378	51427	51361
Cd 226.502	51.9099	52.0901	52.1929
Co 228.615	522.138	531.348	521.115
Cr 267.716	214.534	214.584	214.066
Cu 324.754	263.062	262.660	263.097
Fe 271.441	58715.6	58720.5	58704.8
K 766.491	10637.0	10647.5	10658.7
Mg 279.078	11191.2	11181.2	11192.9
Mn 257.610	686.469	687.006	686.057
Mo 202.032	516.917	518.979	516.875
Na 330.237	14401.9	14429.1	14439.0
Ni 231.604	524.172	518.381	522.871
Pb 220.353	508.369	509.050	508.106
Sb 206.834	510.235	506.205	505.244
Se 196.026	2043.05	2023.51	2029.52
Sn 189.925	1027.07	1024.53	1023.99
Sr 216.596	698.898	700.747	700.637
Ti 334.941	997.122	998.076	998.276
Tl 190.794	2077.99	2072.46	2068.31
V 292.401	504.111	505.218	504.816
Zn 206.200	534.945	529.881	533.043

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	41.4164	ppb	0.5337	1.3	3290.11
Al 308.215	2042.48	ppb	2.5850	0.1	7367.25
As 188.980	2314.30	ppb	9.3956	0.4	1732.60
B 249.678	1108.92	ppb	6.1946	0.6	13461.7
Ba 389.178	2149.08	ppb	1.1771	0.1	58907.2
Be 313.042	51.7397	ppb	0.0481	0.1	108491
Ca 370.602	51389	ppb	34.19	0.1	197897
Cd 226.502	52.0643	ppb	0.1433	0.3	2603.06
Co 228.615	524.867	ppb	5.6361	1.1	6934.33
Cr 267.716	214.395	ppb	0.2857	0.1	11223.5
Cu 324.754	262.940	ppb	0.2428	0.1	13562.3
Fe 271.441	58713.6	ppb	8.0293	0.0	120729
K 766.491	10647.7	ppb	10.8538	0.1	572720
Mg 279.078	11188.4	ppb	6.3070	0.1	29216.5
Mn 257.610	686.511	ppb	0.4757	0.1	189120
Mo 202.032	517.590	ppb	1.2031	0.2	4425.03
Na 330.237	14423.3	ppb	19.2441	0.1	839.080
Ni 231.604	521.808	ppb	3.0385	0.6	1758.20
Pb 220.353	508.508	ppb	0.4872	0.1	1152.87
Sb 206.834	507.228	ppb	2.6478	0.5	547.828
Se 196.026	2032.03	ppb	10.0070	0.5	1205.02
Sn 189.925	1025.19	ppb	1.6463	0.2	1038.84
Sr 216.596	700.094	ppb	1.0370	0.1	9366.16
Ti 334.941	997.825	ppb	0.6167	0.1	288701
Tl 190.794	2072.92	ppb	4.8572	0.2	2655.37
V 292.401	504.715	ppb	0.5604	0.1	15827.5
Zn 206.200	532.623	ppb	2.5576	0.5	1064.94

E04052013.vvq. All Data Report 4/8/2013, 10:52:27 AM

680-88781-d-4-b ms (Samp) 4/5/2013, 9:09:27 PM Rack 2, Tube 31

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	18.1484	17.9691	17.6981
Al 308.215	5112.87	5089.28	5079.42
As 188.980	135.598	139.390	141.715
B 249.678	328.733	330.267	331.556
Ba 389.178	163.196	163.633	162.384
Be 313.042	52.4187	52.2314	52.3095
Ca 370.602	51555	51415	51466
Cd 226.502	52.2769	52.1576	52.4589
Co 228.615	53.9415	53.2648	54.1156
Cr 267.716	106.313	106.187	106.200
Cu 324.754	106.155	105.244	104.355
Fe 271.441	63127.5	62971.5	63151.7
K 766.491	10527.7	10541.5	10576.5
Mg 279.078	11116.2	11106.7	11129.2
Mn 257.610	685.191	682.746	684.560
Mo 202.032	102.197	101.353	101.345
Na 330.237	14286.5	14195.9	14302.2
Ni 231.604	102.332	100.778	102.557
Pb 220.353	47.4525	51.8831	51.9293
Sb 206.834	50.6501	46.5812	51.1137
Se 196.026	94.3304	95.3827	109.321
Sn 189.925	202.985	209.516	202.091
Sr 216.596	288.863	287.640	287.546
Ti 334.941	99.4229	99.0694	99.1682
Tl 190.794	43.8774	37.6854	39.9826
V 292.401	102.479	101.993	102.625
Zn 206.200	109.965	109.635	109.892

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	17.9385	ppb	0.2267	1.3	1372.08
Al 308.215	5093.86	ppb	17.1902	0.3	18280.0
As 188.980	138.901	ppb	3.0878	2.2	105.904
B 249.678	330.185	ppb	1.4135	0.4	3995.03
Ba 389.178	163.071	ppb	0.6341	0.4	4568.14
Be 313.042	52.3199	ppb	0.0940	0.2	109803
Ca 370.602	51479	ppb	70.40	0.1	197609
Cd 226.502	52.2978	ppb	0.1517	0.3	2626.81
Co 228.615	53.7740	ppb	0.4495	0.8	710.504
Cr 267.716	106.233	ppb	0.0691	0.1	5577.98
Cu 324.754	105.251	ppb	0.8998	0.9	5367.63
Fe 271.441	63083.6	ppb	97.7740	0.2	129614
K 766.491	10548.6	ppb	25.1393	0.2	567388
Mg 279.078	11117.4	ppb	11.2806	0.1	29031.1
Mn 257.610	684.166	ppb	1.2692	0.2	188490
Mo 202.032	101.632	ppb	0.4894	0.5	873.572
Na 330.237	14261.5	ppb	57.3364	0.4	839.737
Ni 231.604	101.889	ppb	0.9689	1.0	345.121
Pb 220.353	50.4217	ppb	2.5714	5.1	116.571
Sb 206.834	49.4483	ppb	2.4938	5.0	58.0751
Se 196.026	99.6779	ppb	8.3675	8.4	60.7963
Sn 189.925	204.864	ppb	4.0533	2.0	206.242
Sr 216.596	288.016	ppb	0.7348	0.3	3889.70
Ti 334.941	99.2202	ppb	0.1824	0.2	28650.6
Tl 190.794	40.5151	ppb	3.1301	7.7	39.7228
V 292.401	102.366	ppb	0.3309	0.3	3203.07
Zn 206.200	109.831	ppb	0.1731	0.2	229.771

E04052013.vvq. All Data Report 4/8/2013, 10:52:27 AM

**680-88781-d-4-c msd (Samp) 4/5/2013, 9:15:52 PM Rack 2, Tube 32****Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	33.2994	34.5311	34.2408
Al 308.215	5098.40	5118.22	5130.86
As 188.980	145.237	141.680	140.957
B 249.678	320.842	323.533	322.743
Ba 389.178	162.667	161.800	162.762
Be 313.042	52.4372	52.4571	52.4486
Ca 370.602	51250	51323	51407
Cd 226.502	52.5700	52.3367	52.6848
Co 228.615	53.4986	53.4717	53.6269
Cr 267.716	106.298	106.508	106.839
Cu 324.754	104.398	107.044	106.053
Fe 271.441	62826.3	62757.1	62670.9
K 766.491	10555.2	10489.7	10510.2
Mg 279.078	11080.3	11119.9	11104.5
Mn 257.610	684.888	684.842	684.804
Mo 202.032	102.180	101.259	102.343
Na 330.237	14169.0	14319.3	14066.1
Ni 231.604	100.764	103.714	101.256
Pb 220.353	47.9477	48.3285	51.4803
Sb 206.834	49.7158	53.4049	49.0652
Se 196.026	98.1489	96.7195	93.6615
Sn 189.925	199.278	202.113	205.992
Sr 216.596	286.365	287.718	288.158
Ti 334.941	99.1795	99.2892	99.7473
Tl 190.794	38.2061	40.9806	42.9717
V 292.401	102.538	102.202	102.585
Zn 206.200	109.224	112.495	110.549

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	34.0237	ppb	0.6439	1.9	2698.18
Al 308.215	5115.83	ppb	16.3603	0.3	18358.8
As 188.980	142.625	ppb	2.2911	1.6	108.689
B 249.678	322.372	ppb	1.3832	0.4	3900.40
Ba 389.178	162.410	ppb	0.5303	0.3	4549.60
Be 313.042	52.4476	ppb	0.0099	0.0	110072
Ca 370.602	51327	ppb	78.47	0.2	197030
Cd 226.502	52.5305	ppb	0.1774	0.3	2636.87
Co 228.615	53.5324	ppb	0.0829	0.2	707.325
Cr 267.716	106.548	ppb	0.2727	0.3	5594.38
Cu 324.754	105.832	ppb	1.3367	1.3	5397.69
Fe 271.441	62751.4	ppb	77.8529	0.1	128932
K 766.491	10518.4	ppb	33.4876	0.3	565765
Mg 279.078	11101.6	ppb	19.9919	0.2	28989.7
Mn 257.610	684.844	ppb	0.0418	0.0	188675
Mo 202.032	101.927	ppb	0.5845	0.6	876.110
Na 330.237	14184.8	ppb	127.344	0.9	835.157
Ni 231.604	101.911	ppb	1.5802	1.6	345.189
Pb 220.353	49.2522	ppb	1.9390	3.9	113.921
Sb 206.834	50.7286	ppb	2.3404	4.6	59.4562
Se 196.026	96.1766	ppb	2.2924	2.4	58.7216
Sn 189.925	202.461	ppb	3.3706	1.7	203.803
Sr 216.596	287.414	ppb	0.9349	0.3	3881.50
Ti 334.941	99.4053	ppb	0.3012	0.3	28704.1
Tl 190.794	40.7195	ppb	2.3935	5.9	40.0122
V 292.401	102.442	ppb	0.2087	0.2	3205.47
Zn 206.200	110.756	ppb	1.6452	1.5	222.619

E04052013.vvq. All Data Report 4/8/2013, 10:52:27 AM

mb 680-271843/1-a (Samp) 4/5/2013, 9:22:17 PM Rack 2, Tube 33

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.0011	-0.1220u	1.4012
Al 308.215	5.0820	3.2788	3.4885
As 188.980	-0.4149u	-5.7959u	-6.4487u
B 249.678	11.6256	11.1402	11.6991
Ba 389.178	0.7655	0.5544	0.0207
Be 313.042	0.0339	0.0460	0.0309
Ca 370.602	26.05	29.90	36.39
Cd 226.502	0.1588	0.1024	0.2526
Co 228.615	0.0778	0.1524	-0.4402u
Cr 267.716	0.0864	-0.1362u	0.2571
Cu 324.754	1.1249	0.9296	1.2567
Fe 271.441	45.9750	41.6080	43.2781
K 766.491	5.9920	6.2005	6.7123
Mg 279.078	11.3779	8.0824	7.3878
Mn 257.610	-0.6126u	-0.6248u	-0.5396u
Mo 202.032	0.4676	0.4047	1.0713
Na 330.237	-236.590u	31.9552	-35.4575u
Ni 231.604	0.9992	-0.9829u	-1.0488u
Pb 220.353	1.6376	-0.2021u	-2.2212u
Sb 206.834	-2.2591u	-5.2259u	-0.4815u
Se 196.026	-2.2195u	-4.6409u	11.0103
Sn 189.925	1.0878	3.0610	1.0750
Sr 216.596	0.1727	0.0804	0.1619
Ti 334.941	0.2902	0.2928	0.2384
Tl 190.794	1.3145	-0.0438u	3.3202
V 292.401	0.3353	0.2682	0.3268
Zn 206.200	1.4280	0.6006	-0.1622u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.4268	ppb	0.8461	198.3	-60.8834
Al 308.215	3.9498	ppb	0.9861	25.0	19.2575
As 188.980	-4.2198	ppb	3.3113	78.5	-0.8361
B 249.678	11.4883	ppb	0.3037	2.6	199.411
Ba 389.178	0.4469	ppb	0.3839	85.9	-22.4772
Be 313.042	0.0369	ppb	0.0080	21.6	-257.476
Ca 370.602	30.78	ppb	5.223	17.0	112.4
Cd 226.502	0.1712	ppb	0.0759	44.3	16.5088
Co 228.615	-0.0700	ppb	0.3228	461.1	3.5267
Cr 267.716	0.0691	ppb	0.1972	285.3	14.9545
Cu 324.754	1.1037	ppb	0.1646	14.9	-61.6574
Fe 271.441	43.6203	ppb	2.2036	5.1	88.7319
K 766.491	6.3016	ppb	0.3706	5.9	553.265
Mg 279.078	8.9494	ppb	2.1317	23.8	44.7100
Mn 257.610	-0.5923	ppb	0.0461	7.8	183.776
Mo 202.032	0.6479	ppb	0.3681	56.8	15.1697
Na 330.237	-80.0307	ppb	139.711	174.6	-6.4731
Ni 231.604	-0.3442	ppb	1.1638	338.2	-0.6155
Pb 220.353	-0.2619	ppb	1.9301	736.9	1.9385
Sb 206.834	-2.6555	ppb	2.3969	90.3	0.0964
Se 196.026	1.3833	ppb	8.4247	609.0	1.9420
Sn 189.925	1.7412	ppb	1.1429	65.6	0.0497
Sr 216.596	0.1384	ppb	0.0505	36.5	11.1139
Ti 334.941	0.2738	ppb	0.0307	11.2	-41.9902
Tl 190.794	1.5303	ppb	1.6924	110.6	-1.7893
V 292.401	0.3101	ppb	0.0366	11.8	7.9801
Zn 206.200	0.6221	ppb	0.7953	127.8	3.0283

E04052013.wvq. All Data Report 4/8/2013, 10:52:27 AM

ics 680-271843/2-a (Samp) 4/5/2013, 9:28:43 PM Rack 2, Tube 34  
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	47.3849	47.4848	47.2549
Al 308.215	5060.90	5058.76	4992.64
As 188.980	101.402	102.540	108.836
B 249.678	198.010	199.272	198.677
Ba 389.178	104.397	105.016	103.596
Be 313.042	53.0908	53.3021	52.7820
Ca 370.602	4951	4973	4916
Cd 226.502	52.3954	52.9797	52.4302
Co 228.615	53.1727	52.9843	52.6801
Cr 267.716	106.282	106.767	105.378
Cu 324.754	106.530	106.522	103.540
Fe 271.441	4983.66	5000.04	4987.75
K 766.491	5276.98	5302.80	5266.33
Mg 279.078	4959.04	4991.00	4936.44
Mn 257.610	535.802	537.552	534.563
Mo 202.032	101.595	103.145	101.855
Na 330.237	4740.94	4833.02	4818.70
Ni 231.604	101.689	103.124	103.072
Pb 220.353	52.1796	50.6067	51.0217
Sb 206.834	55.0783	49.3022	50.3139
Se 196.026	95.1603	98.2752	98.2046
Sn 189.925	199.984	208.404	203.856
Sr 216.596	101.582	102.338	100.497
Ti 334.941	100.327	100.745	99.5725
Tl 190.794	40.5655	46.2046	41.4797
V 292.401	101.848	102.589	101.839
Zn 206.200	107.644	107.744	105.597

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	47.3749	ppb	0.1153	0.2	3807.72
Al 308.215	5037.43	ppb	38.8062	0.8	18077.7
As 188.980	104.259	ppb	4.0043	3.8	80.2411
B 249.678	198.653	ppb	0.6313	0.3	2467.42
Ba 389.178	104.336	ppb	0.7118	0.7	2844.60
Be 313.042	53.0583	ppb	0.2616	0.5	111343
Ca 370.602	4947	ppb	28.66	0.6	19130
Cd 226.502	52.6018	ppb	0.3278	0.6	2464.91
Co 228.615	52.9457	ppb	0.2486	0.5	701.831
Cr 267.716	106.142	ppb	0.7050	0.7	5557.40
Cu 324.754	105.531	ppb	1.7237	1.6	5364.26
Fe 271.441	4990.49	ppb	8.5271	0.2	10263.2
K 766.491	5282.04	ppb	18.7541	0.4	284218
Mg 279.078	4962.16	ppb	27.4138	0.6	12958.8
Mn 257.610	535.972	ppb	1.5015	0.3	147555
Mo 202.032	102.198	ppb	0.8298	0.8	881.845
Na 330.237	4797.55	ppb	49.5464	1.0	285.946
Ni 231.604	102.628	ppb	0.8137	0.8	346.061
Pb 220.353	51.2693	ppb	0.8151	1.6	118.447
Sb 206.834	51.5648	ppb	3.0846	6.0	58.9227
Se 196.026	97.2134	ppb	1.7783	1.8	58.8843
Sn 189.925	204.081	ppb	4.2144	2.1	205.421
Sr 216.596	101.472	ppb	0.9255	0.9	1361.53
Ti 334.941	100.215	ppb	0.5941	0.6	28903.7
Tl 190.794	42.7499	ppb	3.0265	7.1	49.6807
V 292.401	102.092	ppb	0.4303	0.4	3194.29
Zn 206.200	106.995	ppb	1.2121	1.1	215.107

E04052013.vvq. All Data Report 4/8/2013, 10:52:27 AM

Ics 680-271843/3-a (Samp) 4/5/2013, 9:35:09 PM Rack 2, Tube 35

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	204.186	205.256	204.213
Al 308.215	1980.43	1989.51	1988.30
As 188.980	214.821	218.202	212.855
B 249.678	380.922	383.202	386.642
Ba 389.178	199.116	201.439	199.518
Be 313.042	207.080	206.981	207.321
Ca 370.602	19341	19339	19390
Cd 226.502	199.645	199.917	199.827
Co 228.615	204.400	205.079	204.488
Cr 267.716	206.425	207.623	207.656
Cu 324.754	204.911	207.853	207.109
Fe 271.441	20228.9	20179.6	20202.0
K 766.491	19661.9	19603.6	19612.8
Mg 279.078	19516.6	19535.2	19572.4
Mn 257.610	2096.62	2096.19	2098.39
Mo 202.032	199.570	200.251	200.336
Na 330.237	16366.0	16450.7	16745.1
Ni 231.604	197.570	199.697	199.842
Pb 220.353	197.230	198.269	194.792
Sb 206.834	192.972	191.401	199.414
Se 196.026	189.682	186.787	201.623
Sn 189.925	195.508	201.222	199.093
Sr 216.596	206.774	206.620	207.534
Ti 334.941	195.262	195.459	196.104
Tl 190.794	46.7934	46.3660	42.1233
V 292.401	197.795	197.252	197.215
Zn 206.200	197.808	195.558	197.266

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	204.552	ppb	0.6102	0.3	16768.1
Al 308.215	1986.08	ppb	4.9296	0.2	7142.04
As 188.980	215.293	ppb	2.7042	1.3	163.199
B 249.678	383.589	ppb	2.8798	0.8	4695.82
Ba 389.178	200.025	ppb	1.2416	0.6	5534.12
Be 313.042	207.127	ppb	0.1750	0.1	435670
Ca 370.602	19357	ppb	29.04	0.2	74750
Cd 226.502	199.797	ppb	0.1386	0.1	9342.82
Co 228.615	204.656	ppb	0.3689	0.2	2701.57
Cr 267.716	207.235	ppb	0.7011	0.3	10846.4
Cu 324.754	206.624	ppb	1.5299	0.7	10620.2
Fe 271.441	20203.5	ppb	24.7158	0.1	41547.2
K 766.491	19626.1	ppb	31.3587	0.2	1055469
Mg 279.078	19541.4	ppb	28.4122	0.1	50976.8
Mn 257.610	2097.06	ppb	1.1677	0.1	576326
Mo 202.032	200.053	ppb	0.4196	0.2	1716.36
Na 330.237	16520.6	ppb	198.984	1.2	990.347
Ni 231.604	199.036	ppb	1.2723	0.6	670.919
Pb 220.353	196.764	ppb	1.7847	0.9	448.307
Sb 206.834	194.596	ppb	4.2462	2.2	214.803
Se 196.026	192.698	ppb	7.8644	4.1	116.002
Sn 189.925	198.608	ppb	2.8876	1.5	199.878
Sr 216.596	206.976	ppb	0.4893	0.2	2774.47
Ti 334.941	195.608	ppb	0.4405	0.2	56578.1
Tl 190.794	45.0942	ppb	2.5818	5.7	48.0263
V 292.401	197.421	ppb	0.3248	0.2	6178.12
Zn 206.200	196.877	ppb	1.1742	0.6	394.264

E04052013.vvq. All Data Report 4/8/2013, 10:52:27 AM

680-88830-h-1-b (Samp) 4/5/2013, 9:41:36 PM Rack 2, Tube 36

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.4657	0.0530u	-0.0174u
Al 308.215	484.688	483.836	481.202
As 188.980	-5.5466u	-5.7838u	0.7950
B 249.678	45.0277	45.2582	43.5383
Ba 389.178	74.4174	73.6954	73.2004
Be 313.042	0.1325	0.2338	0.3184
Ca 370.602	50432	50401	50249
Cd 226.502	-0.0237	0.1522	0.4999
Co 228.615	0.5141	0.2151	0.3939
Cr 267.716	0.9143	1.0523	1.1300
Cu 324.754	3.4773	3.8703	4.0662
Fe 271.441	1134.71	1138.27	1146.40
K 766.491	4583.02	4606.66	4605.28
Mg 279.078	19005.4	18998.0	18951.3
Mn 257.610	142.113	143.038	143.568
Mo 202.032	1.5235	2.0399	1.8707
Na 330.237	35179.1	35164.9	35053.1
Ni 231.604	3.6622	1.0509	3.5449
Pb 220.353	0.1338	3.2942	2.1277
Sb 206.834	-0.1043u	0.0760	-3.0790u
Se 196.026	0.0555	0.2151	1.1415
Sn 189.925	3.5020	1.0157	1.6242
Sr 216.596	127.356	126.997	126.835
Ti 334.941	6.6871	6.9045	6.9286
Tl 190.794	1.9810	3.2144	4.7263
V 292.401	1.9702	2.5847	2.3005
Zn 206.200	11.2984	11.5225	12.0807

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1671	ppb	0.2610	156.2	-88.2906
Al 308.215	483.242	ppb	1.8177	0.4	1738.16
As 188.980	-3.5118	ppb	3.7317	106.3	0.1908
B 249.678	44.6081	ppb	0.9336	2.1	600.485
Ba 389.178	73.7711	ppb	0.6120	0.8	2043.99
Be 313.042	0.2282	ppb	0.0931	40.8	158.682
Ca 370.602	50361	ppb	97.90	0.2	199421
Cd 226.502	0.2095	ppb	0.2664	127.2	21.6607
Co 228.615	0.3744	ppb	0.1505	40.2	9.5143
Cr 267.716	1.0322	ppb	0.1093	10.6	66.9140
Cu 324.754	3.8046	ppb	0.2999	7.9	78.9389
Fe 271.441	1139.79	ppb	5.9884	0.5	2341.04
K 766.491	4598.32	ppb	13.2684	0.3	247456
Mg 279.078	18984.9	ppb	29.3095	0.2	49560.2
Mn 257.610	142.906	ppb	0.7367	0.5	39766.6
Mo 202.032	1.8114	ppb	0.2633	14.5	25.0361
Na 330.237	35132.3	ppb	68.9689	0.2	2130.10
Ni 231.604	2.7527	ppb	1.4749	53.6	9.8361
Pb 220.353	1.8519	ppb	1.5981	86.3	6.7519
Sb 206.834	-1.0358	ppb	1.7718	171.1	1.8693
Se 196.026	0.4707	ppb	0.5864	124.6	1.4525
Sn 189.925	2.0473	ppb	1.2961	63.3	0.4015
Sr 216.596	127.063	ppb	0.2666	0.2	1713.92
Ti 334.941	6.8401	ppb	0.1330	1.9	1943.55
Tl 190.794	3.3073	ppb	1.3750	41.6	0.0941
V 292.401	2.2851	ppb	0.3075	13.5	70.1131
Zn 206.200	11.6339	ppb	0.4029	3.5	25.0224



E04052013.vvq. All Data Report 4/8/2013, 10:52:27 AM

Cont Calib Verif (CCV) 4/5/2013, 9:48:02 PM Rack 2, Tube 37  
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	506.660	503.981	506.146
Al 308.215	4986.62	4917.17	4912.13
As 188.980	482.172	497.429	487.444
B 249.678	511.918	515.832	520.335
Ba 389.178	4826.84	4791.74	4808.90
Be 313.042	485.370	481.539	482.572
Ca 370.602	4939	4898	4927
Cd 226.502	482.063	479.811	481.651
Co 228.615	489.908	489.523	491.819
Cr 267.716	4929.81	4874.56	4887.18
Cu 324.754	4808.46	4718.60	4740.14
Fe 271.441	4963.92	4933.79	4965.73
K 766.491	9959.31	9937.01	9934.52
Mg 279.078	4900.31	4882.89	4914.00
Mn 257.610	4863.21	4837.12	4855.03
Mo 202.032	494.299	490.168	494.116
Na 330.237	7088.59	7072.66	6955.42
Ni 231.604	2440.05	2421.30	2438.23
Pb 220.353	496.071	491.728	488.868
Sb 206.834	989.632	991.315	983.645
Se 196.026	4888.17	4877.68	4869.85
Sn 189.925	5041.95	4964.61	4911.68
Sr 216.596	2414.08	2384.94	2391.80
Ti 334.941	494.812	488.951	489.155
Tl 190.794	4980.89	4958.09	4974.90
V 292.401	4897.60	4880.53	4895.37
Zn 206.200	2440.24	2425.73	2438.37

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	505.595	ppb	1.4217	0.3	41522.4	101.11909
Al 308.215	4938.64	ppb	41.6319	0.8	17702.8	98.77274
As 188.980	489.015	ppb	7.7490	1.6	367.837	97.80302
B 249.678	516.028	ppb	4.2121	0.8	6323.45	20.64113Q
Ba 389.178	4809.16	ppb	17.5493	0.4	131595	96.18318
Be 313.042	483.160	ppb	1.9820	0.4	1016531	96.63204
Ca 370.602	4922	ppb	20.83	0.4	19329	98.43049
Cd 226.502	481.175	ppb	1.1990	0.2	22355.3	96.23497
Co 228.615	490.417	ppb	1.2294	0.3	6482.14	98.08337
Cr 267.716	4897.18	ppb	28.9513	0.6	255745	97.94361
Cu 324.754	4755.73	ppb	46.9166	1.0	246793	95.11469
Fe 271.441	4954.48	ppb	17.9440	0.4	10324.3	99.08960
K 766.491	9943.62	ppb	13.6508	0.1	534862	99.43616
Mg 279.078	4899.06	ppb	15.5942	0.3	12707.4	97.98129
Mn 257.610	4851.79	ppb	13.3441	0.3	1332414	97.03571
Mo 202.032	492.861	ppb	2.3341	0.5	4207.28	98.57227
Na 330.237	7038.89	ppb	72.7235	1.0	397.866	93.85185
Ni 231.604	2433.19	ppb	10.3425	0.4	8189.33	97.32771
Pb 220.353	492.222	ppb	3.6268	0.7	1117.57	98.44446
Sb 206.834	988.197	ppb	4.0313	0.4	1121.02	98.81975
Se 196.026	4878.57	ppb	9.1923	0.2	2891.49	97.57133
Sn 189.925	4972.75	ppb	65.5135	1.3	5045.42	99.45493
Sr 216.596	2396.94	ppb	15.2344	0.6	31967.4	95.87769
Ti 334.941	490.973	ppb	3.3262	0.7	141986	98.19456
Tl 190.794	4971.29	ppb	11.8209	0.2	6385.45	99.42579
V 292.401	4891.16	ppb	9.2789	0.2	154055	97.82328
Zn 206.200	2434.78	ppb	7.8944	0.3	4846.35	97.39109

E04052013.vvq. All Data Report 4/8/2013, 10:52:27 AM

Cont Calib Blank (CCB) 4/5/2013, 9:54:27 PM Rack 2, Tube 38  
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.4367	0.9387	1.4561
Al 308.215	1.6193	1.1899	-0.6441u
As 188.980	2.0765	-0.0440u	-1.0743u
B 249.678	11.0272	10.6007	10.7049
Ba 389.178	0.5921	1.5080	1.5757
Be 313.042	0.0650	0.0936	0.1026
Ca 370.602	-1.026u	1.509	4.191
Cd 226.502	-0.0267u	0.1635	0.0356
Co 228.615	-0.1237u	0.3778	-0.2358u
Cr 267.716	0.4807	0.5183	0.9667
Cu 324.754	1.3019	1.5225	1.6668
Fe 271.441	3.4724	4.1982	-1.0271u
K 766.491	3.1506	4.4115	3.9442
Mg 279.078	2.7446	5.9946	2.5229
Mn 257.610	-0.3348u	-0.0976u	0.1075
Mo 202.032	1.0750	0.3395	-0.4152u
Na 330.237	60.6357	-172.423u	-25.5670u
Ni 231.604	-0.2272u	-0.1215u	1.5683
Pb 220.353	0.3057	1.3372	1.7350
Sb 206.834	3.7364	-2.8468u	-1.0120u
Se 196.026	-3.9185u	8.0829	2.4305
Sn 189.925	-2.6923u	2.8554	4.6398
Sr 216.596	0.8769	0.3850	0.8156
Ti 334.941	0.2014	0.1593	0.1944
Tl 190.794	6.6973	5.0107	5.3438
V 292.401	0.7067	1.1123	1.1559
Zn 206.200	1.3117	1.5604	-0.3272u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.9439	ppb	0.5097	54.0	-18.2817	0.94385
Al 308.215	0.7217	ppb	1.2022	166.6	7.6603	0.72168
As 188.980	0.3194	ppb	1.6065	503.0	2.5587	0.31941
B 249.678	10.7776	ppb	0.2224	2.1	190.825	10.77759
Ba 389.178	1.2253	ppb	0.5494	44.8	-1.2635	1.22528
Be 313.042	0.0871	ppb	0.0196	22.5	-151.863	0.08709
Ca 370.602	1.558	ppb	2.609	167.5	0.7416	1.55800
Cd 226.502	0.0575	ppb	0.0970	168.7	11.1059	0.05748
Co 228.615	0.0061	ppb	0.3267	5359.7	4.5377	0.00610
Cr 267.716	0.6552	ppb	0.2704	41.3	45.5514	0.65523
Cu 324.754	1.4970	ppb	0.1838	12.3	-41.2587	1.49704
Fe 271.441	2.2145	ppb	2.8306	127.8	3.6662	2.21450
K 766.491	3.8354	ppb	0.6374	16.6	420.664	3.83543
Mg 279.078	3.7540	ppb	1.9435	51.8	31.1347	3.75401
Mn 257.610	-0.1083	ppb	0.2213	204.3	316.466	-0.10832
Mo 202.032	0.3331	ppb	0.7452	223.7	12.4825	0.33310
Na 330.237	-45.7847	ppb	117.837	257.4	-4.3845	-45.78466
Ni 231.604	0.4065	ppb	1.0075	247.8	1.9099	0.40655
Pb 220.353	1.1260	ppb	0.7377	65.5	5.0835	1.12596
Sb 206.834	-0.0408	ppb	3.3974	8323.7	2.9296	-0.04082
Se 196.026	2.1983	ppb	6.0041	273.1	2.4244	2.19828
Sn 189.925	1.6010	ppb	3.8236	238.8	-0.0927	1.60096
Sr 216.596	0.6925	ppb	0.2681	38.7	18.4939	0.69251
Ti 334.941	0.1850	ppb	0.0226	12.2	-67.7111	0.18503
Tl 190.794	5.6840	ppb	0.8933	15.7	3.5589	5.68396
V 292.401	0.9916	ppb	0.2478	25.0	29.5056	0.99165
Zn 206.200	0.8483	ppb	1.0256	120.8	2.4781	0.84832

E04052013.vvq. All Data Report 4/8/2013, 10:52:27 AM

680-88830-h-2-b (Samp) 4/5/2013, 10:00:53 PM Rack 2, Tube 39

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.8409	0.5981	0.3253
Al 308.215	444.838	446.662	445.199
As 188.980	-2.2439u	-0.0241	-3.0556u
B 249.678	38.8241	39.1916	39.2156
Ba 389.178	71.1514	70.8664	71.2237
Be 313.042	0.0813	0.0794	0.0731
Ca 370.602	48587	48492	48497
Cd 226.502	-0.0662u	0.1600	0.2221
Co 228.615	0.7570	0.7038	0.4405
Cr 267.716	0.8900	1.1352	0.8922
Cu 324.754	3.9698	4.0037	3.7975
Fe 271.441	874.619	878.532	882.267
K 766.491	4398.74	4394.05	4409.14
Mg 279.078	18442.8	18374.4	18393.4
Mn 257.610	134.889	134.816	134.600
Mo 202.032	0.8698	1.7886	1.4241
Na 330.237	34256.5	34228.6	34085.5
Ni 231.604	3.5222	1.8657	2.9460
Pb 220.353	2.3746	1.5204	1.0605
Sb 206.834	-1.2665u	0.7167	0.1344
Se 196.026	2.4104	-5.0535u	3.5937
Sn 189.925	-2.8838u	-3.4386u	2.9282
Sr 216.596	121.690	120.611	120.393
Ti 334.941	6.0032	5.9890	6.1424
Tl 190.794	1.2905	1.7900	0.3220
V 292.401	1.6646	1.6990	2.2379
Zn 206.200	10.9864	10.3020	10.4411

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.5881	ppb	0.2579	43.9	-53.2742
Al 308.215	445.566	ppb	0.9658	0.2	1603.00
As 188.980	-1.7745	ppb	1.5693	88.4	1.4752
B 249.678	39.0771	ppb	0.2194	0.6	533.606
Ba 389.178	71.0805	ppb	0.1889	0.3	1968.03
Be 313.042	0.0779	ppb	0.0043	5.5	-158.185
Ca 370.602	48525	ppb	53.52	0.1	192176
Cd 226.502	0.1053	ppb	0.1517	144.1	16.0192
Co 228.615	0.6337	ppb	0.1695	26.7	12.9441
Cr 267.716	0.9725	ppb	0.1409	14.5	63.6725
Cu 324.754	3.9237	ppb	0.1106	2.8	85.0258
Fe 271.441	878.473	ppb	3.8247	0.4	1804.06
K 766.491	4400.64	ppb	7.7255	0.2	236828
Mg 279.078	18403.5	ppb	35.3239	0.2	48043.2
Mn 257.610	134.768	ppb	0.1507	0.1	37525.6
Mo 202.032	1.3608	ppb	0.4627	34.0	21.2053
Na 330.237	34190.2	ppb	91.7228	0.3	2073.03
Ni 231.604	2.7780	ppb	0.8410	30.3	9.9141
Pb 220.353	1.6518	ppb	0.6669	40.4	6.2991
Sb 206.834	-0.1385	ppb	1.0193	736.2	2.8407
Se 196.026	0.3169	ppb	4.6884	1479.7	1.3572
Sn 189.925	-1.1314	ppb	3.5266	311.7	-2.8261
Sr 216.596	120.898	ppb	0.6943	0.6	1631.22
Ti 334.941	6.0449	ppb	0.0847	1.4	1710.62
Tl 190.794	1.1342	ppb	0.7464	65.8	-2.6555
V 292.401	1.8672	ppb	0.3215	17.2	57.0379
Zn 206.200	10.5765	ppb	0.3617	3.4	22.9100

E04052013.wvq. All Data Report 4/8/2013, 10:52:27 AM

680-88830-h-3-b (Samp) 4/5/2013, 10:07:18 PM Rack 2, Tube 40

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.4077	0.9871	0.1070
Al 308.215	427.641	427.732	430.307
As 188.980	-8.3723u	-1.5137u	-0.4045
B 249.678	38.5170	37.0416	38.2638
Ba 389.178	71.9623	72.5423	72.5426
Be 313.042	0.0744	0.0873	0.0866
Ca 370.602	49257	49185	49273
Cd 226.502	0.0733	0.0853	0.0072
Co 228.615	0.2604	1.3851	0.6189
Cr 267.716	0.7907	0.8047	1.0214
Cu 324.754	3.8353	3.9398	3.9486
Fe 271.441	879.785	884.328	881.094
K 766.491	4545.35	4550.75	4538.48
Mg 279.078	18867.2	18882.4	18921.8
Mn 257.610	135.009	135.305	135.677
Mo 202.032	0.5456	0.7061	0.9973
Na 330.237	35125.1	34921.6	34962.3
Ni 231.604	4.3461	3.0252	2.0163
Pb 220.353	-0.3315u	3.1594	2.4251
Sb 206.834	2.4469	-1.6651u	0.5579
Se 196.026	5.7162	0.7833	-5.3610u
Sn 189.925	0.7621	-0.4911u	1.9437
Sr 216.596	121.520	122.844	122.790
Ti 334.941	5.7700	5.5949	5.8084
Tl 190.794	4.2698	4.7786	3.8401
V 292.401	2.0179	1.9071	1.9960
Zn 206.200	11.7654	10.0664	12.1608

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.5006	ppb	0.4473	89.4	-60.6382
Al 308.215	428.560	ppb	1.5138	0.4	1541.99
As 188.980	-3.4301	ppb	4.3158	125.8	0.2451
B 249.678	37.9408	ppb	0.7889	2.1	519.798
Ba 389.178	72.3491	ppb	0.3350	0.5	2004.31
Be 313.042	0.0827	ppb	0.0072	8.8	-147.844
Ca 370.602	49238	ppb	46.93	0.1	195001
Cd 226.502	0.0553	ppb	0.0421	76.2	13.7068
Co 228.615	0.7548	ppb	0.5745	76.1	14.5425
Cr 267.716	0.8723	ppb	0.1293	14.8	58.4582
Cu 324.754	3.9079	ppb	0.0630	1.6	84.1992
Fe 271.441	881.736	ppb	2.3389	0.3	1810.75
K 766.491	4544.86	ppb	6.1518	0.1	244582
Mg 279.078	18890.5	ppb	28.2023	0.1	49313.9
Mn 257.610	135.330	ppb	0.3348	0.2	37684.7
Mo 202.032	0.7497	ppb	0.2290	30.5	15.9856
Na 330.237	35003.0	ppb	107.675	0.3	2122.36
Ni 231.604	3.1292	ppb	1.1684	37.3	11.0962
Pb 220.353	1.7510	ppb	1.8405	105.1	6.5251
Sb 206.834	0.4466	ppb	2.0583	460.9	3.4754
Se 196.026	0.3795	ppb	5.5496	1462.3	1.3945
Sn 189.925	0.7382	ppb	1.2176	164.9	-0.9278
Sr 216.596	122.385	ppb	0.7493	0.6	1651.19
Ti 334.941	5.7244	ppb	0.1138	2.0	1620.19
Tl 190.794	4.2962	ppb	0.4698	10.9	1.4112
V 292.401	1.9737	ppb	0.0587	3.0	60.4665
Zn 206.200	11.3308	ppb	1.1128	9.8	24.4174

E04052013.vvq. All Data Report 4/8/2013, 10:52:27 AM

680-88830-h-4-b (Samp) 4/5/2013, 10:13:44 PM Rack 2, Tube 41

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.2247u	-0.0563u	-0.2469u
Al 308.215	461.011	462.981	467.059
As 188.980	0.5747	-3.1888u	-5.0144u
B 249.678	36.9784	37.0575	38.0467
Ba 389.178	73.9489	72.6460	73.5204
Be 313.042	0.0725	0.0823	0.0746
Ca 370.602	49649	49824	49906
Cd 226.502	0.1335	0.0362	0.1231
Co 228.615	-0.1315u	0.9200	0.2866
Cr 267.716	0.9229	0.7893	0.6508
Cu 324.754	3.6292	2.8689	3.1343
Fe 271.441	982.063	987.619	988.207
K 766.491	4429.48	4432.99	4433.21
Mg 279.078	18876.1	18909.6	18909.5
Mn 257.610	147.532	147.759	147.936
Mo 202.032	0.3448	0.9799	0.6605
Na 330.237	35671.4	35589.4	35545.3
Ni 231.604	3.0569	2.5355	2.7265
Pb 220.353	0.9339	1.2209	0.7674
Sb 206.834	-3.0004u	0.2316	0.5039
Se 196.026	2.1093	8.2491	-1.1240u
Sn 189.925	3.4966	2.3339	-1.1784u
Sr 216.596	122.636	122.490	122.921
Ti 334.941	5.9576	5.9512	5.9447
Tl 190.794	3.0660	1.4270	0.3179
V 292.401	2.0352	1.8208	2.0969
Zn 206.200	9.6392	12.0293	10.9694

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1760	ppb	0.1042	59.2	-116.300
Al 308.215	463.683	ppb	3.0845	0.7	1667.95
As 188.980	-2.5428	ppb	2.8500	112.1	0.9114
B 249.678	37.3608	ppb	0.5953	1.6	512.618
Ba 389.178	73.3718	ppb	0.6640	0.9	2032.46
Be 313.042	0.0764	ppb	0.0052	6.8	-160.992
Ca 370.602	49793	ppb	131.0	0.3	197189
Cd 226.502	0.0976	ppb	0.0534	54.7	16.0005
Co 228.615	0.3584	ppb	0.5294	147.7	9.3151
Cr 267.716	0.7877	ppb	0.1361	17.3	54.1406
Cu 324.754	3.2108	ppb	0.3858	12.0	48.0336
Fe 271.441	985.963	ppb	3.3906	0.3	2025.00
K 766.491	4431.90	ppb	2.0901	0.0	238508
Mg 279.078	18898.4	ppb	19.3188	0.1	49334.3
Mn 257.610	147.742	ppb	0.2022	0.1	41092.6
Mo 202.032	0.6617	ppb	0.3175	48.0	15.2283
Na 330.237	35602.0	ppb	63.9681	0.2	2158.68
Ni 231.604	2.7730	ppb	0.2638	9.5	9.9002
Pb 220.353	0.9740	ppb	0.2294	23.6	4.7673
Sb 206.834	-0.7550	ppb	1.9494	258.2	2.1799
Se 196.026	3.0782	ppb	4.7611	154.7	2.9970
Sn 189.925	1.5507	ppb	2.4339	157.0	-0.1027
Sr 216.596	122.682	ppb	0.2194	0.2	1655.28
Ti 334.941	5.9512	ppb	0.0065	0.1	1685.75
Tl 190.794	1.6036	ppb	1.3826	86.2	-2.0894
V 292.401	1.9843	ppb	0.1449	7.3	60.8000
Zn 206.200	10.8793	ppb	1.1976	11.0	23.5154

E04052013.vvq. All Data Report 4/8/2013, 10:52:27 AM

680-88830-h-5-b (Samp) 4/5/2013, 10:20:09 PM Rack 2, Tube 42

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.0279u	0.2072	1.0411
Al 308.215	461.960	465.171	457.770
As 188.980	-0.9653u	-7.1547u	-6.4645u
B 249.678	36.0386	36.4200	36.8633
Ba 389.178	72.9295	72.3295	72.5590
Be 313.042	0.0712	0.0811	0.0689
Ca 370.602	49868	49954	49796
Cd 226.502	0.2470	0.1593	0.1884
Co 228.615	0.5558	0.3426	0.3999
Cr 267.716	0.9716	1.0064	0.6930
Cu 324.754	4.0871	3.7660	3.8556
Fe 271.441	939.821	941.046	940.689
K 766.491	4447.52	4469.88	4460.20
Mg 279.078	18844.2	18822.1	18785.1
Mn 257.610	146.439	146.699	146.161
Mo 202.032	0.9205	0.7003	1.0490
Na 330.237	34943.9	34835.6	34996.6
Ni 231.604	2.6515	3.8853	2.9555
Pb 220.353	-2.1575u	3.4805	0.5645
Sb 206.834	-3.4297u	-0.9327u	1.3077
Se 196.026	1.1767	-1.1244u	-4.5236u
Sn 189.925	1.4790	-3.9446u	-1.1979u
Sr 216.596	123.083	123.549	121.958
Ti 334.941	6.1232	6.1277	6.1956
Tl 190.794	1.6246	-0.0737u	3.7769
V 292.401	1.9920	1.9263	1.8645
Zn 206.200	9.4158	8.5948	9.8975

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.4068	ppb	0.5618	138.1	-68.2638
Al 308.215	461.634	ppb	3.7116	0.8	1660.61
As 188.980	-4.8615	ppb	3.3918	69.8	-0.8210
B 249.678	36.4406	ppb	0.4127	1.1	501.493
Ba 389.178	72.6060	ppb	0.3028	0.4	2011.14
Be 313.042	0.0737	ppb	0.0065	8.8	-166.565
Ca 370.602	49873	ppb	79.16	0.2	197508
Cd 226.502	0.1982	ppb	0.0447	22.5	20.5338
Co 228.615	0.4328	ppb	0.1103	25.5	10.2985
Cr 267.716	0.8903	ppb	0.1718	19.3	59.4715
Cu 324.754	3.9029	ppb	0.1657	4.2	83.9638
Fe 271.441	940.519	ppb	0.6303	0.1	1931.56
K 766.491	4459.20	ppb	11.2160	0.3	239976
Mg 279.078	18817.1	ppb	29.8298	0.2	49122.3
Mn 257.610	146.433	ppb	0.2687	0.2	40732.2
Mo 202.032	0.8899	ppb	0.1764	19.8	17.1797
Na 330.237	34925.4	ppb	82.1063	0.2	2117.64
Ni 231.604	3.1641	ppb	0.6428	20.3	11.2154
Pb 220.353	0.6292	ppb	2.8196	448.1	3.9855
Sb 206.834	-1.0182	ppb	2.3698	232.7	1.8916
Se 196.026	-1.4904	ppb	2.8677	192.4	0.2910
Sn 189.925	-1.2212	ppb	2.7119	222.1	-2.9162
Sr 216.596	122.863	ppb	0.8180	0.7	1657.67
Ti 334.941	6.1488	ppb	0.0405	0.7	1742.55
Tl 190.794	1.7759	ppb	1.9297	108.7	-1.8602
V 292.401	1.9276	ppb	0.0637	3.3	58.9856
Zn 206.200	9.3027	ppb	0.6586	7.1	203660

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680-88830-h-6-d (Samp) 4/5/2013, 10:26:35 PM Rack 2, Tube 43

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.1086	-0.0537u	0.1858
Al 308.215	773.215	770.879	769.869
As 188.980	-2.2120u	-0.1620	-2.9521u
B 249.678	33.3864	34.3544	33.7687
Ba 389.178	81.6330	82.0818	82.3017
Be 313.042	0.1007	0.0969	0.1004
Ca 370.602	47969	48068	48059
Cd 226.502	0.1587	0.1680	-0.0093
Co 228.615	1.6720	2.0573	1.5047
Cr 267.716	1.0158	0.8054	1.4954
Cu 324.754	3.3207	3.6838	3.2786
Fe 271.441	2337.52	2349.86	2341.69
K 766.491	4371.26	4366.48	4344.61
Mg 279.078	18159.6	18219.4	18198.2
Mn 257.610	162.225	162.719	162.425
Mo 202.032	0.8649	0.6493	0.7004
Na 330.237	31592.5	31562.4	31923.0
Ni 231.604	4.5890	2.4556	5.0887
Pb 220.353	2.3298	3.7288	6.7346
Sb 206.834	-3.8312u	-0.2936u	-2.7266u
Se 196.026	5.1436	-3.1626u	4.8598
Sn 189.925	-1.1837u	0.3165	1.8644
Sr 216.596	119.517	120.445	119.435
Ti 334.941	10.7718	10.6431	10.7984
Tl 190.794	4.0633	1.3532	2.7672
V 292.401	2.4563	3.2607	3.4210
Zn 206.200	13.8248	12.8959	12.0895

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0802	ppb	0.1222	152.3	-94.9624
Al 308.215	771.321	ppb	1.7162	0.2	2771.19
As 188.980	-1.7754	ppb	1.4454	81.4	1.4514
B 249.678	33.8365	ppb	0.4876	1.4	468.147
Ba 389.178	82.0055	ppb	0.3408	0.4	2268.77
Be 313.042	0.0993	ppb	0.0021	2.1	-112.935
Ca 370.602	48032	ppb	54.73	0.1	190075
Cd 226.502	0.1058	ppb	0.0998	94.3	20.5184
Co 228.615	1.7446	ppb	0.2834	16.2	27.6906
Cr 267.716	1.1055	ppb	0.3536	32.0	71.0861
Cu 324.754	3.4277	ppb	0.2228	6.5	59.7061
Fe 271.441	2343.02	ppb	6.2803	0.3	4813.19
K 766.491	4360.78	ppb	14.2090	0.3	234685
Mg 279.078	18192.4	ppb	30.3099	0.2	47491.9
Mn 257.610	162.456	ppb	0.2485	0.2	45129.6
Mo 202.032	0.7382	ppb	0.1126	15.3	15.7984
Na 330.237	31692.6	ppb	200.097	0.6	1920.86
Ni 231.604	4.0444	ppb	1.3984	34.6	14.2156
Pb 220.353	4.2644	ppb	2.2507	52.8	12.2155
Sb 206.834	-2.2838	ppb	1.8099	79.2	0.5656
Se 196.026	2.2803	ppb	4.7158	206.8	2.5385
Sn 189.925	0.3324	ppb	1.5241	458.5	-1.3418
Sr 216.596	119.799	ppb	0.5609	0.5	1617.21
Ti 334.941	10.7378	ppb	0.0831	0.8	3068.12
Tl 190.794	2.7279	ppb	1.3555	49.7	-0.8290
V 292.401	3.0460	ppb	0.5170	17.0	94.4324
Zn 206.200	12.9367	ppb	0.8684	6.7	27.6240

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Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.2825	0.8137	0.1729
Al 308.215	178.038	183.042	182.162
As 188.980	-6.7771u	-5.7976u	-5.1497u
B 249.678	8.5596	8.0414	7.4879
Ba 389.178	18.9908	18.0542	18.1452
Be 313.042	0.0297	0.0404	0.0239
Ca 370.602	10701	10730	10714
Cd 226.502	0.0959	0.1723	-0.0743u
Co 228.615	0.3708	0.1076	-0.2956u
Cr 267.716	0.1505	0.0118	0.1316
Cu 324.754	0.5077	1.1444	0.7728
Fe 271.441	525.497	529.632	524.749
K 766.491	947.686	950.648	952.664
Mg 279.078	4053.70	4052.36	4057.27
Mn 257.610	35.4382	35.5815	35.6179
Mo 202.032	-0.0465u	0.1485	0.1541
Na 330.237	6931.63	6905.75	6761.25
Ni 231.604	0.7196	0.7342	2.0219
Pb 220.353	1.0134	-0.4038u	1.3227
Sb 206.834	-1.4736u	-3.5686u	-3.6470u
Se 196.026	-3.2745u	-5.6486u	-10.0257u
Sn 189.925	-2.0585u	-0.6375u	-1.2788u
Sr 216.596	25.9982	27.5125	26.6085
Ti 334.941	2.7020	2.8204	2.8260
Tl 190.794	-1.2767u	1.1882	-1.0434u
V 292.401	0.5395	0.8006	0.6731
Zn 206.200	3.1130	2.4656	3.4843

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.4230	ppb	0.3427	81.0	-62.4260
Al 308.215	181.081	ppb	2.6717	1.5	654.443
As 188.980	-5.9081	ppb	0.8193	13.9	-1.9962
B 249.678	8.0296	ppb	0.5359	6.7	156.802
Ba 389.178	18.3967	ppb	0.5165	2.8	481.874
Be 313.042	0.0313	ppb	0.0084	26.8	-266.247
Ca 370.602	10715	ppb	14.83	0.1	42398
Cd 226.502	0.0646	ppb	0.1262	195.3	13.0437
Co 228.615	0.0609	ppb	0.3356	550.6	5.3296
Cr 267.716	0.0980	ppb	0.0752	76.8	16.8997
Cu 324.754	0.8083	ppb	0.3198	39.6	-76.8656
Fe 271.441	526.626	ppb	2.6298	0.5	1081.12
K 766.491	950.333	ppb	2.5038	0.3	51311.8
Mg 279.078	4054.45	ppb	2.5407	0.1	10600.9
Mn 257.610	35.5459	ppb	0.0950	0.3	10145.7
Mo 202.032	0.0854	ppb	0.1142	133.8	10.3365
Na 330.237	6866.21	ppb	91.8147	1.3	414.896
Ni 231.604	1.1586	ppb	0.7477	64.5	4.4547
Pb 220.353	0.6441	ppb	0.9206	142.9	3.9967
Sb 206.834	-2.8964	ppb	1.2328	42.6	-0.1451
Se 196.026	-6.3163	ppb	3.4248	54.2	-2.6031
Sn 189.925	-1.3250	ppb	0.7116	53.7	-3.0539
Sr 216.596	26.7064	ppb	0.7619	2.9	367.710
Ti 334.941	2.7828	ppb	0.0700	2.5	702.317
Tl 190.794	-0.3773	ppb	1.3608	360.7	-4.3691
V 292.401	0.6711	ppb	0.1305	19.4	19.5201
Zn 206.200	3.0210	ppb	0.5156	17.1	47.8203



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Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	51.1477	50.5056	51.3543
Al 308.215	2886.21	2893.77	2857.69
As 188.980	2243.18	2253.98	2265.60
B 249.678	1010.77	1017.91	1026.37
Ba 389.178	2156.62	2157.58	2154.32
Be 313.042	52.1268	52.2020	52.0066
Ca 370.602	57151	57251	57025
Cd 226.502	50.9504	50.7418	51.0886
Co 228.615	516.515	516.585	514.974
Cr 267.716	210.265	210.788	209.973
Cu 324.754	264.932	262.614	265.003
Fe 271.441	3487.94	3488.32	3489.85
K 766.491	10041.3	10023.4	10022.9
Mg 279.078	24697.9	24720.3	24728.2
Mn 257.610	701.578	702.782	703.116
Mo 202.032	513.985	515.153	515.207
Na 330.237	39504.6	39529.7	39562.2
Ni 231.604	504.829	510.516	511.344
Pb 220.353	497.948	497.663	499.321
Sb 206.834	495.505	493.103	498.250
Se 196.026	1964.50	1969.07	1974.18
Sn 189.925	1007.96	1013.56	1008.36
Sr 216.596	633.418	634.945	631.556
Ti 334.941	1006.11	1009.39	1002.27
Tl 190.794	2021.77	2022.95	2037.75
V 292.401	500.460	501.591	500.160
Zn 206.200	516.744	519.161	519.622

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	51.0025	ppb	0.4426	0.9	4083.52
Al 308.215	2879.22	ppb	19.0298	0.7	10368.1
As 188.980	2254.25	ppb	11.2097	0.5	1688.43
B 249.678	1018.35	ppb	7.8081	0.8	12428.4
Ba 389.178	2156.18	ppb	1.6762	0.1	59049.8
Be 313.042	52.1118	ppb	0.0986	0.2	109274
Ca 370.602	57142	ppb	113.1	0.2	226303
Cd 226.502	50.9269	ppb	0.1746	0.3	2382.86
Co 228.615	516.025	ppb	0.9102	0.2	6820.04
Cr 267.716	210.342	ppb	0.4129	0.2	10998.3
Cu 324.754	264.183	ppb	1.3593	0.5	13609.9
Fe 271.441	3488.70	ppb	1.0134	0.0	7268.64
K 766.491	10029.2	ppb	10.4627	0.1	539463
Mg 279.078	24715.5	ppb	15.7455	0.1	64502.7
Mn 257.610	702.492	ppb	0.8090	0.1	193457
Mo 202.032	514.781	ppb	0.6907	0.1	4404.32
Na 330.237	39532.1	ppb	28.8978	0.1	2382.61
Ni 231.604	508.896	ppb	3.5464	0.7	1713.27
Pb 220.353	498.310	ppb	0.8867	0.2	1129.75
Sb 206.834	495.619	ppb	2.5753	0.5	533.872
Se 196.026	1969.25	ppb	4.8399	0.2	1167.46
Sn 189.925	1009.96	ppb	3.1237	0.3	1023.39
Sr 216.596	633.307	ppb	1.6974	0.3	8446.52
Ti 334.941	1005.92	ppb	3.5649	0.4	291098
Tl 190.794	2027.49	ppb	8.9020	0.4	2603.35
V 292.401	500.737	ppb	0.7548	0.2	15701.9
Zn 206.200	518.509	ppb	1.5457	0.3	1026.76

E04052013.vvq. All Data Report 4/8/2013, 10:52:27 AM

680-88830-h-6-e ms (Samp) 4/5/2013, 10:46:03 PM Rack 2, Tube 46

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	17.4483	17.9789	17.7548
Al 308.215	5499.31	5516.85	5550.99
As 188.980	110.876	110.353	106.689
B 249.678	244.206	244.104	244.158
Ba 389.178	180.556	180.621	182.013
Be 313.042	52.5809	52.6392	52.7035
Ca 370.602	54455	54486	54601
Cd 226.502	51.4448	51.5064	51.5741
Co 228.615	53.2999	52.5906	52.8361
Cr 267.716	104.841	105.322	105.858
Cu 324.754	108.099	107.155	107.680
Fe 271.441	6175.28	6191.13	6177.08
K 766.491	9627.49	9697.20	9625.25
Mg 279.078	23835.8	23822.4	23839.0
Mn 257.610	672.285	672.706	672.706
Mo 202.032	101.408	102.854	103.063
Na 330.237	36763.7	36722.5	36559.0
Ni 231.604	103.095	104.102	104.393
Pb 220.353	52.1889	51.3601	55.6010
Sb 206.834	49.5704	52.2668	47.8212
Se 196.026	109.585	99.5485	86.8428
Sn 189.925	201.280	195.388	195.814
Sr 216.596	222.781	224.992	226.402
Ti 334.941	104.627	104.849	105.483
Tl 190.794	43.2853	42.5118	44.0992
V 292.401	102.816	103.975	102.850
Zn 206.200	112.702	111.727	113.120

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	17.7273	ppb	0.2664	1.5	1357.83
Al 308.215	5522.38	ppb	26.2816	0.5	19816.9
As 188.980	109.306	ppb	2.2811	2.1	84.5043
B 249.678	244.156	ppb	0.0510	0.0	3018.82
Ba 389.178	181.063	ppb	0.8232	0.5	5003.87
Be 313.042	52.6412	ppb	0.0613	0.1	110478
Ca 370.602	54514	ppb	76.97	0.1	215406
Cd 226.502	51.5084	ppb	0.0647	0.1	2417.89
Co 228.615	52.9089	ppb	0.3602	0.7	701.438
Cr 267.716	105.340	ppb	0.5085	0.5	5517.13
Cu 324.754	107.645	ppb	0.4730	0.4	5474.39
Fe 271.441	6181.16	ppb	8.6763	0.1	12709.4
K 766.491	9649.98	ppb	40.9088	0.4	519073
Mg 279.078	23832.4	ppb	8.7687	0.0	62198.5
Mn 257.610	672.566	ppb	0.2430	0.0	185241
Mo 202.032	102.442	ppb	0.9016	0.9	883.851
Na 330.237	36681.7	ppb	108.254	0.3	2220.55
Ni 231.604	103.863	ppb	0.6808	0.7	350.250
Pb 220.353	53.0500	ppb	2.2477	4.2	122.507
Sb 206.834	49.8861	ppb	2.2395	4.5	57.1214
Se 196.026	98.6588	ppb	11.3971	11.6	59.7905
Sn 189.925	197.494	ppb	3.2857	1.7	198.775
Sr 216.596	224.725	ppb	1.8253	0.8	3015.30
Ti 334.941	104.987	ppb	0.4441	0.4	30369.5
Tl 190.794	43.2988	ppb	0.7938	1.8	49.9794
V 292.401	103.214	ppb	0.6597	0.6	3229.75
Zn 206.200	112.516	ppb	0.7147	0.6	437.140

E04052013.vvq. All Data Report 4/8/2013, 10:52:27 AM

680-88830-h-6-f msd (Samp) 4/5/2013, 10:52:29 PM Rack 2, Tube 47

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	9.5213	10.6351	9.9932
Al 308.215	5527.50	5512.17	5494.98
As 188.980	112.365	105.885	107.395
B 249.678	233.592	235.164	234.743
Ba 389.178	176.170	176.159	177.252
Be 313.042	52.5602	52.5464	52.6197
Ca 370.602	53231	53251	53190
Cd 226.502	51.6378	51.3811	51.4486
Co 228.615	52.8175	52.8149	53.1851
Cr 267.716	105.288	105.074	105.305
Cu 324.754	106.322	106.350	105.282
Fe 271.441	5946.84	5937.57	5949.75
K 766.491	9640.45	9566.01	9642.49
Mg 279.078	23361.3	23356.9	23321.6
Mn 257.610	694.420	693.675	693.838
Mo 202.032	101.900	101.645	102.305
Na 330.237	36289.8	36486.6	36227.6
Ni 231.604	102.255	101.946	103.629
Pb 220.353	53.1400	50.4481	52.5045
Sb 206.834	45.3643	44.7732	47.5805
Se 196.026	92.0873	93.9852	95.2738
Sn 189.925	197.118	197.442	194.290
Sr 216.596	221.641	220.852	219.488
Ti 334.941	104.912	104.762	105.263
Tl 190.794	40.2971	42.3563	42.5609
V 292.401	102.931	103.065	102.445
Zn 206.200	108.966	111.444	112.097

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	10.0499	ppb	0.5591	5.6	725.307
Al 308.215	5511.55	ppb	16.2693	0.3	19777.9
As 188.980	108.549	ppb	3.3905	3.1	83.9269
B 249.678	234.500	ppb	0.8141	0.3	2901.78
Ba 389.178	176.527	ppb	0.6282	0.4	4877.81
Be 313.042	52.5755	ppb	0.0389	0.1	110340
Ca 370.602	53224	ppb	30.79	0.1	210319
Cd 226.502	51.4892	ppb	0.1331	0.3	2416.28
Co 228.615	52.9391	ppb	0.2130	0.4	701.865
Cr 267.716	105.222	ppb	0.1289	0.1	5511.01
Cu 324.754	105.985	ppb	0.6087	0.6	5388.12
Fe 271.441	5944.72	ppb	6.3589	0.1	12223.6
K 766.491	9616.32	ppb	43.5760	0.5	517263
Mg 279.078	23346.6	ppb	21.7717	0.1	60930.4
Mn 257.610	693.978	ppb	0.3916	0.1	191114
Mo 202.032	101.950	ppb	0.3331	0.3	879.664
Na 330.237	36334.7	ppb	135.205	0.4	2199.59
Ni 231.604	102.610	ppb	0.8956	0.9	346.027
Pb 220.353	52.0309	ppb	1.4070	2.7	120.207
Sb 206.834	45.9060	ppb	1.4800	3.2	52.8193
Se 196.026	93.7821	ppb	1.6029	1.7	56.9076
Sn 189.925	196.283	ppb	1.7336	0.9	197.545
Sr 216.596	220.661	ppb	1.0892	0.5	2960.75
Ti 334.941	104.979	ppb	0.2571	0.2	30365.0
Tl 190.794	41.7381	ppb	1.2521	3.0	47.9574
V 292.401	102.814	ppb	0.3259	0.3	3217.30
Zn 206.200	110.835	ppb	1.6518	1.5	422.784

E04052013.vvq. All Data Report 4/8/2013, 10:52:27 AM

mb 680-272037/1-a (Samp) 4/5/2013, 10:59:06 PM Rack 2, Tube 48

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.1842	0.7867	-0.0307u
Al 308.215	6.0004	5.8112	6.2863
As 188.980	-9.7713u	-4.6000u	-5.6083u
B 249.678	6.0966	7.3751	7.0072
Ba 389.178	0.5044	0.5652	0.4909
Be 313.042	0.0403	0.0378	0.0439
Ca 370.602	43.61	44.43	42.46
Cd 226.502	-0.0401u	0.2211	0.0423
Co 228.615	-0.0964u	0.0957	-1.2901u
Cr 267.716	-0.2133u	-0.0888u	-0.0242u
Cu 324.754	0.5168	0.8918	0.6042
Fe 271.441	13.4287	5.1358	6.5058
K 766.491	10.3940	8.1860	8.0269
Mg 279.078	25.7897	18.1274	20.2217
Mn 257.610	-0.4859u	-0.4953u	-0.5432u
Mo 202.032	-0.6652u	-0.2678u	0.3923
Na 330.237	183.696	38.0207	166.183
Ni 231.604	-1.0732u	-0.4299u	-0.0309u
Pb 220.353	-0.7909u	-0.4431u	0.0238
Sb 206.834	-6.7880u	0.1870	-0.6534u
Se 196.026	3.1227	-8.0438u	-7.6336u
Sn 189.925	-1.9893u	1.9662	1.6433
Sr 216.596	0.5891	0.4338	0.4874
Ti 334.941	0.1606	0.1377	0.1297
Tl 190.794	6.1907	5.2557	3.3974
V 292.401	-0.0914u	-0.3497u	0.1073
Zn 206.200	0.4384	0.3740	-0.9530u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.3134	ppb	0.4238	135.2	-70.2301
Al 308.215	6.0326	ppb	0.2392	4.0	26.6672
As 188.980	-6.6599	ppb	2.7413	41.2	-2.6599
B 249.678	6.8263	ppb	0.6581	9.6	142.812
Ba 389.178	0.5202	ppb	0.0396	7.6	-20.5020
Be 313.042	0.0406	ppb	0.0031	7.5	-249.486
Ca 370.602	43.50	ppb	0.9901	2.3	166.5
Cd 226.502	0.0745	ppb	0.1336	179.4	11.9040
Co 228.615	-0.4303	ppb	0.7508	174.5	-1.1970
Cr 267.716	-0.1088	ppb	0.0961	88.4	5.6653
Cu 324.754	0.6709	ppb	0.1962	29.2	-84.1613
Fe 271.441	8.3568	ppb	4.4455	53.2	16.3916
K 766.491	8.8690	ppb	1.3231	14.9	691.308
Mg 279.078	21.3796	ppb	3.9602	18.5	77.1373
Mn 257.610	-0.5082	ppb	0.0307	6.0	206.881
Mo 202.032	-0.1802	ppb	0.5342	296.4	8.1012
Na 330.237	129.300	ppb	79.5337	61.5	6.2511
Ni 231.604	-0.5114	ppb	0.5259	102.8	-1.1791
Pb 220.353	-0.4034	ppb	0.4088	101.3	1.6192
Sb 206.834	-2.4181	ppb	3.8077	157.5	0.3622
Se 196.026	-4.1849	ppb	6.3319	151.3	-1.3555
Sn 189.925	0.5401	ppb	2.1964	406.7	-1.1694
Sr 216.596	0.5035	ppb	0.0789	15.7	16.0233
Ti 334.941	0.1427	ppb	0.0160	11.2	-79.9021
Tl 190.794	4.9480	ppb	1.4219	28.7	2.6124
V 292.401	-0.1113	ppb	0.2291	205.9	-5.1481
Zn 206.200	-0.0468	ppb	0.7854	1676.8	487.6925

E04052013.vvq. All Data Report 4/8/2013, 10:52:27 AM

Cont Calib Verif (CCV) 4/5/2013, 11:05:32 PM Rack 2, Tube 49

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	513.540	507.186	510.218
Al 308.215	4957.77	5008.80	4946.15
As 188.980	491.316	489.774	489.556
B 249.678	510.257	513.103	515.754
Ba 389.178	4809.83	4818.74	4792.09
Be 313.042	482.997	484.467	481.672
Ca 370.602	4907	4917	4886
Cd 226.502	479.642	480.026	478.524
Co 228.615	486.601	488.385	487.511
Cr 267.716	4910.10	4929.63	4891.81
Cu 324.754	4781.51	4765.51	4805.66
Fe 271.441	4922.19	4936.78	4904.78
K 766.491	9869.54	9864.21	9838.58
Mg 279.078	4884.01	4904.54	4884.82
Mn 257.610	4829.20	4844.80	4822.72
Mo 202.032	494.144	494.070	491.563
Na 330.237	7298.88	7044.70	7186.50
Ni 231.604	2426.29	2441.81	2424.65
Pb 220.353	495.370	494.310	493.666
Sb 206.834	981.236	992.904	973.944
Se 196.026	4871.01	4877.00	4859.29
Sn 189.925	4972.43	4957.79	4941.92
Sr 216.596	2404.47	2416.37	2396.62
Ti 334.941	492.976	495.475	491.410
Tl 190.794	4953.83	4988.75	4959.48
V 292.401	4874.57	4883.53	4867.95
Zn 206.200	2427.30	2434.78	2424.36

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	510.314	ppb	3.1778	0.6	41912.5	102.06290
Al 308.215	4970.91	ppb	33.3261	0.7	17818.6	99.41817
As 188.980	490.216	ppb	0.9593	0.2	368.735	98.04314
B 249.678	513.038	ppb	2.7495	0.5	6287.15	20.52153Q
Ba 389.178	4806.89	ppb	13.5632	0.3	131533	96.13772
Be 313.042	483.045	ppb	1.3982	0.3	1016290	96.60903
Ca 370.602	4903	ppb	15.66	0.3	19258	98.06741
Cd 226.502	479.397	ppb	0.7804	0.2	22272.8	95.87941
Co 228.615	487.499	ppb	0.8921	0.2	6443.63	97.49976
Cr 267.716	4910.51	ppb	18.9162	0.4	256441	98.21023
Cu 324.754	4784.23	ppb	20.2127	0.4	248273	95.68456
Fe 271.441	4921.25	ppb	16.0179	0.3	10255.6	98.42496
K 766.491	9857.44	ppb	16.5518	0.2	530228	98.57442
Mg 279.078	4891.13	ppb	11.6276	0.2	12686.7	97.82253
Mn 257.610	4832.24	ppb	11.3517	0.2	1327048	96.64482
Mo 202.032	493.259	ppb	1.4697	0.3	4210.71	98.65181
Na 330.237	7176.69	ppb	127.374	1.8	406.312	95.68919
Ni 231.604	2430.92	ppb	9.4674	0.4	8181.67	97.23663
Pb 220.353	494.448	ppb	0.8606	0.2	1122.62	98.88966
Sb 206.834	982.695	ppb	9.5640	1.0	1114.99	98.26945
Se 196.026	4869.10	ppb	9.0093	0.2	2885.89	97.38202
Sn 189.925	4957.38	ppb	15.2601	0.3	5029.83	99.14759
Sr 216.596	2405.82	ppb	9.9409	0.4	32086.1	96.23280
Ti 334.941	493.287	ppb	2.0505	0.4	142656	98.65742
Tl 190.794	4967.35	ppb	18.7473	0.4	6380.38	99.34704
V 292.401	4875.35	ppb	7.8169	0.2	153556	97.50700
Zn 206.200	2428.81	ppb	5.3734	0.2	4824.47	97.15259

Cont Calib Blank (CCB) 4/5/2013, 11:11:58 PM Rack 2, Tube 50  
Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.0119	0.8482	0.2699
Al 308.215	-2.1193u	5.7115	4.2062
As 188.980	-2.5429u	-3.8774u	-5.5555u
B 249.678	10.5236	10.0068	9.4730
Ba 389.178	0.1226	1.2173	1.3175
Be 313.042	0.0322	0.0491	0.0776
Ca 370.602	9.288	2.415	3.601
Cd 226.502	-0.1515u	0.0563	0.0328
Co 228.615	-0.7555u	-0.0209u	-0.0901u
Cr 267.716	-0.2352u	0.4239	0.5722
Cu 324.754	1.1768	1.3291	1.2987
Fe 271.441	5.6285	4.3774	6.0004
K 766.491	1.9747	2.5780	3.7845
Mg 279.078	0.3197	4.0445	-0.1475u
Mn 257.610	-0.7516u	-0.4997u	-0.3057u
Mo 202.032	0.8563	0.2919	0.7027
Na 330.237	-169.043u	-165.556u	-46.8795u
Ni 231.604	0.1274	0.4670	0.1753
Pb 220.353	0.2045	1.4757	0.1330
Sb 206.834	-1.6197u	2.4489	1.4094
Se 196.026	-3.4997u	7.3107	-1.5161u
Sn 189.925	1.7840	1.1319	2.5748
Sr 216.596	0.5838	-0.0849u	0.3869
Ti 334.941	0.3592	0.1631	0.1991
Tl 190.794	4.7620	6.3311	3.9079
V 292.401	0.3807	0.9637	0.9300
Zn 206.200	0.3135	0.6616	0.4211

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.3767	ppb	0.4283	113.7	-65.0212	0.37667
Al 308.215	2.5995	ppb	4.1553	159.9	14.4098	2.59947
As 188.980	-3.9919	ppb	1.5095	37.8	-0.6654	-3.99193
B 249.678	10.0011	ppb	0.5253	5.3	181.391	10.00111
Ba 389.178	0.8858	ppb	0.6629	74.8	-10.5594	0.88577
Be 313.042	0.0530	ppb	0.0229	43.3	-223.713	0.05296
Ca 370.602	5.101	ppb	3.674	72.0	14.77	5.10126
Cd 226.502	-0.0208	ppb	0.1138	546.9	7.4730	-0.02081
Co 228.615	-0.2888	ppb	0.4056	140.4	0.6425	-0.28884
Cr 267.716	0.2537	ppb	0.4298	169.4	24.5780	0.25367
Cu 324.754	1.2682	ppb	0.0806	6.4	-53.1331	1.26823
Fe 271.441	5.3354	ppb	0.8502	15.9	10.0641	5.33541
K 766.491	2.7791	ppb	0.9215	33.2	363.866	2.77907
Mg 279.078	1.4056	ppb	2.2973	163.4	25.0151	1.40555
Mn 257.610	-0.5190	ppb	0.2236	43.1	203.702	-0.51899
Mo 202.032	0.6169	ppb	0.2918	47.3	14.9069	0.61695
Na 330.237	-127.159	ppb	69.5464	54.7	-9.3221	-127.15948
Ni 231.604	0.2566	ppb	0.1838	71.6	1.4052	0.25658
Pb 220.353	0.6044	ppb	0.7555	125.0	3.9015	0.60441
Sb 206.834	0.7462	ppb	2.1138	283.3	3.7734	0.74618
Se 196.026	0.7649	ppb	5.7549	752.3	1.5755	0.76494
Sn 189.925	1.8303	ppb	0.7226	39.5	0.1400	1.83026
Sr 216.596	0.2953	ppb	0.3436	116.4	13.1748	0.29526
Ti 334.941	0.2404	ppb	0.1044	43.4	-51.6725	0.24045
Tl 190.794	5.0004	ppb	1.2291	24.6	2.6799	5.00036
V 292.401	0.7581	ppb	0.3273	43.2	22.1233	0.75814
Zn 206.200	0.4654	ppb	0.1782	38.3	2.7146	0.46540

E04052013.wvq. All Data Report 4/8/2013, 10:52:27 AM

ics 680-272037/2-a (Samp) 4/5/2013, 11:18:23 PM Rack 2, Tube 51  
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	38.0379	37.9478	36.1261
Al 308.215	4779.17	4851.09	4747.13
As 188.980	99.6399	96.9242	102.048
B 249.678	185.786	190.045	185.363
Ba 389.178	98.4338	99.5968	97.5094
Be 313.042	50.1709	50.7357	49.5060
Ca 370.602	4644	4697	4606
Cd 226.502	49.7152	50.4088	48.9409
Co 228.615	49.6430	50.6908	49.1669
Cr 267.716	99.5854	101.017	98.8433
Cu 324.754	99.3857	99.6018	95.5972
Fe 271.441	4695.33	4730.66	4603.20
K 766.491	5101.22	5134.63	5025.59
Mg 279.078	4718.83	4799.73	4667.61
Mn 257.610	500.957	506.876	493.312
Mo 202.032	94.7617	95.6750	93.3525
Na 330.237	4561.27	4565.81	4356.86
Ni 231.604	98.0422	98.8617	95.5129
Pb 220.353	48.6786	46.6552	47.6793
Sb 206.834	46.8364	44.0721	45.1672
Se 196.026	102.040	93.8630	84.9246
Sn 189.925	187.814	192.944	184.164
Sr 216.596	95.4584	96.5281	94.4907
Ti 334.941	92.9738	94.1935	92.0014
Tl 190.794	36.4238	37.4576	35.5955
V 292.401	95.1987	96.2060	93.3894
Zn 206.200	98.2881	100.656	97.5652

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	37.3706	ppb	1.0787	2.9	2983.10
Al 308.215	4792.46	ppb	53.2398	1.1	17198.7
As 188.980	99.5375	ppb	2.5637	2.6	76.7132
B 249.678	187.064	ppb	2.5897	1.4	2326.99
Ba 389.178	98.5133	ppb	1.0459	1.1	2683.93
Be 313.042	50.1375	ppb	0.6155	1.2	105195
Ca 370.602	4649	ppb	45.69	1.0	17977
Cd 226.502	49.6883	ppb	0.7343	1.5	2328.79
Co 228.615	49.8336	ppb	0.7796	1.6	660.851
Cr 267.716	99.8153	ppb	1.1051	1.1	5226.80
Cu 324.754	98.1949	ppb	2.2523	2.3	4983.10
Fe 271.441	4676.40	ppb	65.8090	1.4	9617.17
K 766.491	5087.15	ppb	55.8649	1.1	273740
Mg 279.078	4728.73	ppb	66.6149	1.4	12350.4
Mn 257.610	500.382	ppb	6.8001	1.4	137781
Mo 202.032	94.5964	ppb	1.1700	1.2	816.962
Na 330.237	4494.65	ppb	119.351	2.7	267.803
Ni 231.604	97.4723	ppb	1.7456	1.8	328.702
Pb 220.353	47.6710	ppb	1.0117	2.1	110.312
Sb 206.834	45.3586	ppb	1.3921	3.1	52.2234
Se 196.026	93.6090	ppb	8.5603	9.1	56.7379
Sn 189.925	188.307	ppb	4.4105	2.3	189.411
Sr 216.596	95.4924	ppb	1.0191	1.1	1281.87
Ti 334.941	93.0562	ppb	1.0984	1.2	26830.9
Tl 190.794	36.4923	ppb	0.9329	2.6	41.7253
V 292.401	94.9314	ppb	1.4272	1.5	2970.11
Zn 206.200	98.8364	ppb	1.6167	1.6	198.835

E04052013.vvq. All Data Report 4/8/2013, 10:52:27 AM

ics 680-272037/3-a (Samp) 4/5/2013, 11:24:49 PM Rack 2, Tube 52  
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	194.161	196.308	194.787
Al 308.215	1953.55	1959.06	1950.34
As 188.980	197.986	205.151	196.013
B 249.678	369.802	371.575	374.051
Ba 389.178	192.748	193.310	192.487
Be 313.042	200.831	200.816	200.708
Ca 370.602	18681	18687	18676
Cd 226.502	194.279	193.755	193.305
Co 228.615	195.653	194.591	194.180
Cr 267.716	199.309	199.405	199.324
Cu 324.754	194.670	196.188	196.215
Fe 271.441	19454.1	19446.2	19427.5
K 766.491	19424.4	19395.4	19456.3
Mg 279.078	19123.6	19103.6	19065.8
Mn 257.610	2010.76	2009.42	2007.47
Mo 202.032	190.157	190.809	189.137
Na 330.237	16311.6	16477.2	16573.9
Ni 231.604	191.920	193.096	193.437
Pb 220.353	189.710	189.082	191.358
Sb 206.834	181.223	190.966	183.690
Se 196.026	184.874	177.473	188.958
Sn 189.925	189.566	192.805	189.360
Sr 216.596	201.174	200.137	200.251
Ti 334.941	187.844	187.957	188.027
Tl 190.794	42.9619	40.3454	43.7572
V 292.401	188.849	188.325	189.201
Zn 206.200	185.706	185.415	184.250

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	195.085	ppb	1.1043	0.6	15987.8
Al 308.215	1954.32	ppb	4.4073	0.2	7027.37
As 188.980	199.717	ppb	4.8083	2.4	151.556
B 249.678	371.809	ppb	2.1340	0.6	4553.57
Ba 389.178	192.848	ppb	0.4206	0.2	5334.85
Be 313.042	200.785	ppb	0.0674	0.0	422320
Ca 370.602	18681	ppb	5.609	0.0	72142
Cd 226.502	193.780	ppb	0.4875	0.3	9061.39
Co 228.615	194.808	ppb	0.7600	0.4	2571.82
Cr 267.716	199.346	ppb	0.0515	0.0	10434.0
Cu 324.754	195.691	ppb	0.8846	0.5	10052.1
Fe 271.441	19442.6	ppb	13.6548	0.1	39982.5
K 766.491	19425.4	ppb	30.4654	0.2	1044676
Mg 279.078	19097.6	ppb	29.3320	0.2	49820.3
Mn 257.610	2009.21	ppb	1.6542	0.1	552201
Mo 202.032	190.034	ppb	0.8424	0.4	1630.87
Na 330.237	16454.2	ppb	132.652	0.8	986.763
Ni 231.604	192.818	ppb	0.7959	0.4	649.971
Pb 220.353	190.050	ppb	1.1755	0.6	433.103
Sb 206.834	185.293	ppb	5.0656	2.7	204.733
Se 196.026	183.769	ppb	5.8217	3.2	110.686
Sn 189.925	190.577	ppb	1.9322	1.0	191.727
Sr 216.596	200.521	ppb	0.5688	0.3	2688.33
Ti 334.941	187.943	ppb	0.0922	0.0	54357.3
Tl 190.794	42.3548	ppb	1.7850	4.2	44.7319
V 292.401	188.792	ppb	0.4406	0.2	5908.29
Zn 206.200	185.124	ppb	0.7792	0.4	379.817



E04052013.vvq. All Data Report 4/8/2013, 10:52:27 AM

680-88991-b-1-d (Samp) 4/5/2013, 11:31:14 PM Rack 2, Tube 53

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.4692	0.2994	-0.0058u
Al 308.215	5.2368	3.2671	5.2076
As 188.980	-2.0485u	-1.7394u	-6.9934u
B 249.678	10.7399	10.1174	9.8918
Ba 389.178	234.049	233.517	235.173
Be 313.042	0.0153	0.0260	0.0302
Ca 370.602	40980	40799	40945
Cd 226.502	0.5721	0.5523	0.5684
Co 228.615	-0.7326u	0.3097	0.3039
Cr 267.716	-0.0206u	-0.1748u	-0.1674u
Cu 324.754	0.4369	0.4032	0.5649
Fe 271.441	1.2082	8.5619	6.7735
K 766.491	6581.65	6574.80	6572.29
Mg 279.078	19827.2	19758.2	19804.1
Mn 257.610	-1.2680u	-1.2295u	-1.2231u
Mo 202.032	1.4396	0.6551	1.0004
Na 330.237	24581.3	24648.7	24742.1
Ni 231.604	1.1923	1.7329	1.2609
Pb 220.353	-0.9722u	-0.4721u	1.3508
Sb 206.834	-5.3117u	-6.3330u	-4.3672u
Se 196.026	3.0295	-3.0876u	5.3397
Sn 189.925	0.5418	2.2647	-1.2659u
Sr 216.596	284.651	283.491	284.371
Ti 334.941	-0.0172	0.0075	-0.0643
Tl 190.794	3.7558	-0.2052u	1.9135
V 292.401	11.9638	11.7753	11.8701
Zn 206.200	3.1586	2.8898	4.2751

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.2543	ppb	0.2407	94.6	-89.5327
Al 308.215	4.5705	ppb	1.1289	24.7	21.4018
As 188.980	-3.5938	ppb	2.9482	82.0	0.0462
B 249.678	10.2497	ppb	0.4392	4.3	184.416
Ba 389.178	234.246	ppb	0.8453	0.4	6435.41
Be 313.042	0.0239	ppb	0.0077	32.2	-274.372
Ca 370.602	40908	ppb	96.28	0.2	162077
Cd 226.502	0.5643	ppb	0.0105	1.9	34.7799
Co 228.615	-0.0397	ppb	0.6001	1512.5	3.9114
Cr 267.716	-0.1209	ppb	0.0870	71.9	5.3840
Cu 324.754	0.4683	ppb	0.0853	18.2	-94.7672
Fe 271.441	5.5145	ppb	3.8351	69.5	10.5838
K 766.491	6576.25	ppb	4.8406	0.1	353805
Mg 279.078	19796.5	ppb	35.0936	0.2	51680.9
Mn 257.610	-1.2402	ppb	0.0243	2.0	196.138
Mo 202.032	1.0317	ppb	0.3932	38.1	18.4236
Na 330.237	24657.4	ppb	80.7567	0.3	1494.89
Ni 231.604	1.3954	ppb	0.2943	21.1	5.2378
Pb 220.353	-0.0312	ppb	1.2226	3923.4	2.4603
Sb 206.834	-5.3373	ppb	0.9831	18.4	-2.8132
Se 196.026	1.7605	ppb	4.3546	247.3	2.1651
Sn 189.925	0.5135	ppb	1.7655	343.8	-1.1647
Sr 216.596	284.171	ppb	0.6056	0.2	3811.55
Ti 334.941	-0.0247	ppb	0.0364	147.8	-38.9058
Tl 190.794	1.8213	ppb	1.9821	108.8	-1.4038
V 292.401	11.8697	ppb	0.0942	0.8	373.068
Zn 206.200	3.4412	ppb	0.7346	21.3	48.6606

E04052013.vvq. All Data Report 4/8/2013, 10:52:27 AM

680-88991-c-1-a (Samp) 4/5/2013, 11:37:40 PM Rack 2, Tube 54

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	54.7404	56.0493	55.7260
Al 308.215	4990.69	5013.67	5039.79
As 188.980	103.784	109.254	106.303
B 249.678	193.208	194.354	197.055
Ba 389.178	333.967	335.069	336.531
Be 313.042	51.7759	51.8585	52.0539
Ca 370.602	45631	45695	45884
Cd 226.502	50.5993	50.1893	51.0539
Co 228.615	50.7647	50.4107	50.9622
Cr 267.716	101.891	102.223	102.177
Cu 324.754	99.5781	101.254	101.041
Fe 271.441	4811.71	4810.19	4833.76
K 766.491	11521.4	11547.2	11564.4
Mg 279.078	24577.1	24588.5	24658.1
Mn 257.610	516.487	516.600	518.378
Mo 202.032	97.0378	98.9506	98.7027
Na 330.237	28738.2	28663.1	28912.7
Ni 231.604	97.6824	98.4910	99.2165
Pb 220.353	46.6436	47.8742	49.7439
Sb 206.834	49.7785	44.7500	51.3250
Se 196.026	93.0783	91.4557	98.7110
Sn 189.925	198.694	189.325	194.603
Sr 216.596	381.113	381.843	383.679
Ti 334.941	96.4521	96.5540	97.2012
Tl 190.794	39.8417	38.2108	38.0979
V 292.401	110.071	109.683	109.843
Zn 206.200	100.553	100.653	102.069

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	55.5053	ppb	0.6818	1.2	4463.75
Al 308.215	5014.72	ppb	24.5689	0.5	17995.8
As 188.980	106.447	ppb	2.7377	2.6	82.2934
B 249.678	194.872	ppb	1.9752	1.0	2421.69
Ba 389.178	335.189	ppb	1.2863	0.4	9221.08
Be 313.042	51.8961	ppb	0.1427	0.3	108908
Ca 370.602	45737	ppb	131.5	0.3	180760
Cd 226.502	50.6142	ppb	0.4325	0.9	2372.32
Co 228.615	50.7125	ppb	0.2794	0.6	672.418
Cr 267.716	102.097	ppb	0.1795	0.2	5346.40
Cu 324.754	100.624	ppb	0.9122	0.9	5109.23
Fe 271.441	4818.55	ppb	13.1954	0.3	9909.54
K 766.491	11544.3	ppb	21.6367	0.2	620929
Mg 279.078	24607.9	ppb	43.8105	0.2	64225.2
Mn 257.610	517.155	ppb	1.0606	0.2	142578
Mo 202.032	98.2304	ppb	1.0402	1.1	847.953
Na 330.237	28771.3	ppb	128.054	0.4	1741.11
Ni 231.604	98.4633	ppb	0.7675	0.8	332.041
Pb 220.353	48.0872	ppb	1.5611	3.2	111.245
Sb 206.834	48.6178	ppb	3.4377	7.1	55.7355
Se 196.026	94.4150	ppb	3.8079	4.0	57.2213
Sn 189.925	194.208	ppb	4.6974	2.4	195.431
Sr 216.596	382.212	ppb	1.3223	0.3	5118.20
Ti 334.941	96.7358	ppb	0.4063	0.4	27985.6
Tl 190.794	38.7168	ppb	0.9758	2.5	44.5460
V 292.401	109.866	ppb	0.1950	0.2	3441.05
Zn 206.200	101.091	ppb	0.8480	0.8	407.331

E04052013.wvq. All Data Report 4/8/2013, 10:52:27 AM

680-88991-c-1-aSD^5 (Samp) 4/5/2013, 11:44:06 PM Rack 2, Tube 55

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	11.2739	10.3878	11.3547
Al 308.215	1005.05	1005.90	1007.79
As 188.980	15.6158	16.5496	20.5145
B 249.678	42.0608	43.1167	42.9633
Ba 389.178	69.0639	67.8616	68.3488
Be 313.042	10.6195	10.6011	10.5750
Ca 370.602	9278	9289	9234
Cd 226.502	10.3985	10.4366	10.1982
Co 228.615	10.1766	10.6220	10.3076
Cr 267.716	20.8492	20.7652	20.6792
Cu 324.754	21.1595	20.5651	19.8656
Fe 271.441	995.626	984.195	985.470
K 766.491	2339.01	2342.59	2337.23
Mg 279.078	4950.35	4953.49	4919.17
Mn 257.610	105.585	105.480	104.924
Mo 202.032	19.7935	20.3605	20.0646
Na 330.237	5810.58	5617.68	5595.20
Ni 231.604	20.7243	20.4777	19.8878
Pb 220.353	7.2745	9.8357	8.6642
Sb 206.834	6.4536	7.5816	8.4710
Se 196.026	17.5202	21.9128	14.0584
Sn 189.925	36.5317	39.7479	37.6100
Sr 216.596	78.0927	77.8976	77.3075
Ti 334.941	19.7215	19.6372	19.6567
Tl 190.794	10.5503	9.4435	9.1379
V 292.401	22.2003	22.4943	21.7544
Zn 206.200	21.3667	20.7397	20.5946

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	11.0055	ppb	0.5365	4.9	807.984
Al 308.215	1006.25	ppb	1.4052	0.1	3615.08
As 188.980	17.5600	ppb	2.6009	14.8	15.5263
B 249.678	42.7136	ppb	0.5705	1.3	577.642
Ba 389.178	68.4248	ppb	0.6047	0.9	1854.42
Be 313.042	10.5985	ppb	0.0224	0.2	21975.0
Ca 370.602	9267	ppb	29.45	0.3	36620
Cd 226.502	10.3444	ppb	0.1281	1.2	491.576
Co 228.615	10.3687	ppb	0.2289	2.2	141.036
Cr 267.716	20.7646	ppb	0.0850	0.4	1096.39
Cu 324.754	20.5301	ppb	0.6476	3.2	947.710
Fe 271.441	988.430	ppb	6.2643	0.6	2032.04
K 766.491	2339.61	ppb	2.7274	0.1	126010
Mg 279.078	4941.00	ppb	18.9714	0.4	12912.8
Mn 257.610	105.330	ppb	0.3552	0.3	29314.0
Mo 202.032	20.0729	ppb	0.2836	1.4	180.946
Na 330.237	5674.49	ppb	118.393	2.1	342.088
Ni 231.604	20.3632	ppb	0.4298	2.1	69.0989
Pb 220.353	8.5915	ppb	1.2822	14.9	21.9510
Sb 206.834	7.5021	ppb	1.0111	13.5	11.1248
Se 196.026	17.8305	ppb	3.9364	22.1	11.7199
Sn 189.925	37.9632	ppb	1.6369	4.3	36.8207
Sr 216.596	77.7659	ppb	0.4088	0.5	1048.74
Ti 334.941	19.6718	ppb	0.0441	0.2	5594.15
Tl 190.794	9.7106	ppb	0.7431	7.7	8.4301
V 292.401	22.1497	ppb	0.3726	1.7	692.337
Zn 206.200	20.9003	ppb	0.4104	2.0	4374.560

E04052013.wvq. All Data Report 4/8/2013, 10:52:27 AM

**680-88991-c-1-aPDS (Samp) 4/5/2013, 11:50:31 PM Rack 2, Tube 56****Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	105.975	105.938	103.727
Al 308.215	6996.63	6965.53	6807.15
As 188.980	2405.28	2393.07	2337.98
B 249.678	192.528	192.948	188.191
Ba 389.178	2433.41	2417.52	2359.90
Be 313.042	104.780	104.388	101.690
Ca 370.602	45281	45112	44049
Cd 226.502	102.721	102.395	99.7812
Co 228.615	576.385	568.244	554.155
Cr 267.716	313.200	312.075	305.068
Cu 324.754	359.413	360.435	349.288
Fe 271.441	5768.50	5762.07	5594.48
K 766.491	11547.5	11487.9	11198.4
Mg 279.078	24399.3	24279.0	23715.0
Mn 257.610	1050.46	1047.08	1019.42
Mo 202.032	96.8708	97.7955	94.3263
Na 330.237	28654.1	28486.6	27953.8
Ni 231.604	610.028	616.505	600.186
Pb 220.353	553.747	550.359	542.548
Sb 206.834	555.422	563.295	543.199
Se 196.026	2111.88	2117.06	2055.34
Sn 189.925	190.639	192.711	193.702
Sr 216.596	380.671	377.351	370.791
Ti 334.941	95.7119	95.3393	93.0873
Tl 190.794	2111.84	2114.56	2056.96
V 292.401	612.142	609.852	593.361
Zn 206.200	619.623	610.975	602.725

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	105.213	ppb	1.2874	1.2	8567.88
Al 308.215	6923.10	ppb	101.614	1.5	24834.0
As 188.980	2378.77	ppb	35.8514	1.5	1781.54
B 249.678	191.222	ppb	2.6335	1.4	2376.20
Ba 389.178	2403.61	ppb	38.6769	1.6	65819.8
Be 313.042	103.619	ppb	1.6825	1.6	217774
Ca 370.602	44814	ppb	668.0	1.5	177034
Cd 226.502	101.632	ppb	1.6115	1.6	4742.97
Co 228.615	566.261	ppb	11.2468	2.0	7472.62
Cr 267.716	310.114	ppb	4.4061	1.4	16207.5
Cu 324.754	356.379	ppb	6.1621	1.7	18384.7
Fe 271.441	5708.35	ppb	98.6657	1.7	11838.8
K 766.491	11411.3	ppb	186.757	1.6	613775
Mg 279.078	24131.1	ppb	365.351	1.5	62970.1
Mn 257.610	1038.99	ppb	17.0274	1.6	285839
Mo 202.032	96.3309	ppb	1.7965	1.9	830.573
Na 330.237	28364.8	ppb	365.695	1.3	1711.62
Ni 231.604	608.906	ppb	8.2173	1.3	2049.91
Pb 220.353	548.885	ppb	5.7430	1.0	1245.76
Sb 206.834	553.972	ppb	10.1265	1.8	604.552
Se 196.026	2094.76	ppb	34.2384	1.6	1241.90
Sn 189.925	192.351	ppb	1.5631	0.8	193.546
Sr 216.596	376.271	ppb	5.0278	1.3	5028.42
Ti 334.941	94.7129	ppb	1.4201	1.5	27398.3
Tl 190.794	2094.45	ppb	32.4975	1.6	2688.94
V 292.401	605.118	ppb	10.2466	1.7	19071.3
Zn 206.200	611.108	ppb	8.4498	1.4	1221.35

E04052013.vvq. All Data Report 4/8/2013, 10:52:27 AM

680-88991-c-1-b ms (Samp) 4/5/2013, 11:56:57 PM Rack 2, Tube 57  
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.9489	0.7283	0.0048u
Al 308.215	22.5155	24.1065	25.8291
As 188.980	0.9376	-4.0699u	-3.6017u
B 249.678	5.7905	6.2131	4.9874
Ba 389.178	241.145	240.824	240.388
Be 313.042	0.0367	0.0482	0.0479
Ca 370.602	41960	42054	42062
Cd 226.502	-0.0287u	-0.0656u	0.0440
Co 228.615	-0.1669u	-0.7640u	0.1602
Cr 267.716	0.1695	0.3161	0.1145
Cu 324.754	0.9414	0.8329	1.5343
Fe 271.441	20.4872	21.6028	17.9883
K 766.491	6755.17	6779.18	6783.89
Mg 279.078	20135.3	20161.4	20151.5
Mn 257.610	3.8725	3.9224	3.9832
Mo 202.032	0.5808	1.1191	1.4472
Na 330.237	24315.9	24313.2	24640.3
Ni 231.604	1.3512	0.3601	0.3921
Pb 220.353	0.2267	1.5582	-0.6764u
Sb 206.834	0.7811	-3.5983u	-0.8887u
Se 196.026	0.9840	5.4422	-9.4022u
Sn 189.925	3.5955	0.0182	0.1361
Sr 216.596	290.380	291.079	290.255
Ti 334.941	0.9342	1.0959	0.8833
Tl 190.794	5.3998	2.2799	1.1321
V 292.401	12.6018	12.9318	12.8260
Zn 206.200	1.4695	0.6489	1.2569

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.5607	ppb	0.4939	88.1	-64.4508
Al 308.215	24.1503	ppb	1.6572	6.9	91.5937
As 188.980	-2.2447	ppb	2.7659	123.2	1.0656
B 249.678	5.6637	ppb	0.6226	11.0	128.684
Ba 389.178	240.786	ppb	0.3799	0.2	6615.49
Be 313.042	0.0443	ppb	0.0065	14.8	-231.039
Ca 370.602	42025	ppb	56.44	0.1	166503
Cd 226.502	-0.0168	ppb	0.0558	332.9	7.8547
Co 228.615	-0.2569	ppb	0.4686	182.4	1.0829
Cr 267.716	0.2001	ppb	0.1042	52.1	22.1694
Cu 324.754	1.1029	ppb	0.3776	34.2	-61.8281
Fe 271.441	20.0261	ppb	1.8508	9.2	40.4068
K 766.491	6772.75	ppb	15.3990	0.2	364371
Mg 279.078	20149.4	ppb	13.1598	0.1	52601.6
Mn 257.610	3.9260	ppb	0.0554	1.4	1618.02
Mo 202.032	1.0491	ppb	0.4375	41.7	18.5690
Na 330.237	24423.1	ppb	188.065	0.8	1480.68
Ni 231.604	0.7011	ppb	0.5632	80.3	2.9017
Pb 220.353	0.3695	ppb	1.1241	304.2	3.3687
Sb 206.834	-1.2353	ppb	2.2102	178.9	1.6270
Se 196.026	-0.9920	ppb	7.6169	767.8	0.5368
Sn 189.925	1.2500	ppb	2.0322	162.6	-0.4168
Sr 216.596	290.572	ppb	0.4441	0.2	3897.24
Ti 334.941	0.9711	ppb	0.1110	11.4	250.973
Tl 190.794	2.9373	ppb	2.2085	75.2	0.0214
V 292.401	12.7866	ppb	0.1685	1.3	402.070
Zn 206.200	1.1251	ppb	0.4259	37.8	4.0323

E04052013.vvq. All Data Report 4/8/2013, 10:52:27 AM

680-88991-c-1-c msd (Samp) 4/6/2013, 12:03:23 AM Rack 2, Tube 58

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	37.2544	38.1461	36.9367
Al 308.215	4882.07	4889.19	4825.72
As 188.980	104.778	102.960	101.922
B 249.678	186.323	187.591	189.199
Ba 389.178	327.090	328.586	327.343
Be 313.042	50.3721	50.4944	50.2685
Ca 370.602	44731	44827	44590
Cd 226.502	49.1812	49.5311	49.0339
Co 228.615	49.3579	49.7727	49.0456
Cr 267.716	99.8493	99.9740	98.9415
Cu 324.754	98.4223	98.8580	98.4405
Fe 271.441	4700.14	4705.84	4708.20
K 766.491	11184.1	11205.4	11211.6
Mg 279.078	23868.0	23874.3	23844.6
Mn 257.610	504.344	505.504	504.815
Mo 202.032	96.1561	96.5302	96.3650
Na 330.237	27822.1	27879.9	27690.2
Ni 231.604	94.5166	95.6644	95.1099
Pb 220.353	49.0782	48.8972	49.5755
Sb 206.834	47.0230	45.3009	45.8377
Se 196.026	96.3601	92.6540	87.6974
Sn 189.925	188.735	193.323	186.705
Sr 216.596	372.398	371.925	369.731
Ti 334.941	95.2819	95.4137	94.6234
Tl 190.794	40.5851	40.2065	41.4550
V 292.401	108.436	107.828	107.575
Zn 206.200	100.471	98.5529	100.542

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	37.4457	ppb	0.6269	1.7	2975.38
Al 308.215	4865.66	ppb	34.7714	0.7	17461.1
As 188.980	103.220	ppb	1.4455	1.4	79.8721
B 249.678	187.705	ppb	1.4414	0.8	2334.74
Ba 389.178	327.673	ppb	0.8003	0.2	9013.00
Be 313.042	50.3783	ppb	0.1131	0.2	105712
Ca 370.602	44716	ppb	119.1	0.3	176727
Cd 226.502	49.2487	ppb	0.2554	0.5	2308.60
Co 228.615	49.3921	ppb	0.3647	0.7	655.028
Cr 267.716	99.5882	ppb	0.5636	0.6	5215.31
Cu 324.754	98.5736	ppb	0.2465	0.3	5002.69
Fe 271.441	4704.72	ppb	4.1450	0.1	9675.42
K 766.491	11200.4	ppb	14.4265	0.1	602435
Mg 279.078	23862.3	ppb	15.6624	0.1	62279.9
Mn 257.610	504.888	ppb	0.5836	0.1	139202
Mo 202.032	96.3504	ppb	0.1875	0.2	831.910
Na 330.237	27797.4	ppb	97.2046	0.3	1682.07
Ni 231.604	95.0970	ppb	0.5740	0.6	320.708
Pb 220.353	49.1836	ppb	0.3512	0.7	113.734
Sb 206.834	46.0538	ppb	0.8812	1.9	52.9499
Se 196.026	92.2372	ppb	4.3464	4.7	55.9272
Sn 189.925	189.588	ppb	3.3907	1.8	190.741
Sr 216.596	371.351	ppb	1.4231	0.4	4973.06
Ti 334.941	95.1064	ppb	0.4234	0.4	27510.8
Tl 190.794	40.7489	ppb	0.6402	1.6	47.1965
V 292.401	107.946	ppb	0.4428	0.4	3380.97
Zn 206.200	99.8555	ppb	1.1286	1.1	409.872

E04052013.vvq. All Data Report 4/8/2013, 10:52:27 AM

Cont Calib Verif (CCV) 4/6/2013, 12:09:49 AM Rack 3, Tube 1  
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	510.213	512.296	507.831
Al 308.215	4934.95	4976.61	4996.29
As 188.980	486.764	490.221	489.243
B 249.678	514.600	517.774	519.685
Ba 389.178	4823.06	4820.80	4822.99
Be 313.042	483.702	484.284	484.736
Ca 370.602	4926	4934	4932
Cd 226.502	481.580	482.153	482.444
Co 228.615	490.379	489.834	488.652
Cr 267.716	4894.38	4916.27	4931.78
Cu 324.754	4804.08	4763.37	4789.62
Fe 271.441	4942.70	4942.71	4944.36
K 766.491	9938.96	9927.95	9911.66
Mg 279.078	4890.75	4907.80	4914.67
Mn 257.610	4850.81	4851.75	4865.48
Mo 202.032	493.117	495.246	496.167
Na 330.237	6930.04	7152.28	7276.57
Ni 231.604	2410.34	2406.67	2439.21
Pb 220.353	494.005	501.218	497.191
Sb 206.834	977.792	985.845	991.628
Se 196.026	4877.92	4888.85	4892.17
Sn 189.925	4990.91	4968.25	4963.85
Sr 216.596	2397.08	2410.10	2415.99
Ti 334.941	492.558	494.187	496.255
Tl 190.794	4975.58	4986.46	4980.89
V 292.401	4888.87	4890.37	4893.22
Zn 206.200	2443.31	2442.98	2436.97

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	510.113	ppb	2.2342	0.4	41895.1	102.02265
Al 308.215	4969.29	ppb	31.3218	0.6	17812.8	99.38572
As 188.980	488.742	ppb	1.7821	0.4	367.632	97.74847
B 249.678	517.353	ppb	2.5686	0.5	6339.54	20.69412Q
Ba 389.178	4822.28	ppb	1.2857	0.0	131954	96.44569
Be 313.042	484.241	ppb	0.5186	0.1	1018805	96.84814
Ca 370.602	4931	ppb	4.311	0.1	19366	98.61548
Cd 226.502	482.059	ppb	0.4394	0.1	22396.4	96.41173
Co 228.615	489.622	ppb	0.8830	0.2	6471.65	97.92436
Cr 267.716	4914.14	ppb	18.7902	0.4	256630	98.28282
Cu 324.754	4785.69	ppb	20.6369	0.4	248349	95.71377
Fe 271.441	4943.26	ppb	0.9544	0.0	10301.4	98.86512
K 766.491	9926.19	ppb	13.7373	0.1	533925	99.26189
Mg 279.078	4904.40	ppb	12.3156	0.3	12720.9	98.08807
Mn 257.610	4856.01	ppb	8.2094	0.2	1333574	97.12029
Mo 202.032	494.843	ppb	1.5645	0.3	4224.20	98.96867
Na 330.237	7119.63	ppb	175.559	2.5	402.703	94.92838
Ni 231.604	2418.74	ppb	17.8184	0.7	8140.69	96.74960
Pb 220.353	497.471	ppb	3.6144	0.7	1129.47	99.49429
Sb 206.834	985.088	ppb	6.9489	0.7	1117.77	98.50882
Se 196.026	4886.31	ppb	7.4560	0.2	2896.09	97.72629
Sn 189.925	4974.34	ppb	14.5215	0.3	5047.04	99.48678
Sr 216.596	2407.72	ppb	9.6742	0.4	32111.6	96.30882
Ti 334.941	494.333	ppb	1.8526	0.4	142958	98.86668
Tl 190.794	4980.98	ppb	5.4431	0.1	6397.87	99.61954
V 292.401	4890.82	ppb	2.2096	0.0	154042	97.81634
Zn 206.200	2441.08	ppb	3.5675	0.1	4858.89	97.64337

E04052013.vvq. All Data Report 4/8/2013, 10:52:27 AM

Cont Calib Blank (CCB)                      4/6/2013, 12:16:15 AM                      Rack 3, Tube 2  
 Weight: 1    Volume: 1    Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.5822	0.3356	-0.0614u
Al 308.215	4.0562	3.4435	2.0623
As 188.980	-1.4728u	-2.6448u	-7.0280u
B 249.678	11.2236	9.4063	8.8676
Ba 389.178	1.1771	1.4824	1.0145
Be 313.042	0.0594	0.1055	0.1311
Ca 370.602	2.961	6.445	1.785
Cd 226.502	0.0283	0.1604	0.1174
Co 228.615	0.4354	-0.0204u	0.2140
Cr 267.716	0.1331	0.6513	0.8468
Cu 324.754	1.4759	1.8509	1.8500
Fe 271.441	2.6723	3.6993	8.2737
K 766.491	3.3409	3.7916	5.4004
Mg 279.078	6.1484	-1.1401u	2.8741
Mn 257.610	-0.3464u	0.0383	0.3339
Mo 202.032	1.1836	0.2970	0.6027
Na 330.237	68.2678	-15.3310u	126.541
Ni 231.604	0.2555	1.2218	1.1727
Pb 220.353	0.5297	-2.4661u	2.3006
Sb 206.834	0.0497	-1.7622u	-0.0335u
Se 196.026	-1.4171u	0.8982	4.5878
Sn 189.925	5.1030	2.5706	2.1954
Sr 216.596	0.5497	0.7506	0.7673
Ti 334.941	0.1740	0.2051	0.2347
Tl 190.794	6.3067	6.6077	7.4860
V 292.401	0.6915	0.6655	1.4093
Zn 206.200	0.7849	0.3972	0.1269

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.2854	ppb	0.3247	113.8	-72.5536	0.28543
Al 308.215	3.1873	ppb	1.0213	32.0	16.5154	3.18734
As 188.980	-3.7152	ppb	2.9282	78.8	-0.4585	-3.71518
B 249.678	9.8325	ppb	1.2345	12.6	179.344	9.83249
Ba 389.178	1.2247	ppb	0.2375	19.4	-1.2841	1.22465
Be 313.042	0.0987	ppb	0.0363	36.8	-127.470	0.09869
Ca 370.602	3.730	ppb	2.423	65.0	9.475	3.73034
Cd 226.502	0.1021	ppb	0.0674	66.0	13.1703	0.10206
Co 228.615	0.2096	ppb	0.2279	108.7	7.2149	0.20965
Cr 267.716	0.5437	ppb	0.3688	67.8	39.7309	0.54375
Cu 324.754	1.7256	ppb	0.2162	12.5	-29.3855	1.72561
Fe 271.441	4.8818	ppb	2.9821	61.1	9.1590	4.88179
K 766.491	4.1776	ppb	1.0827	25.9	439.064	4.17763
Mg 279.078	2.6275	ppb	3.6505	138.9	28.1929	2.62747
Mn 257.610	0.0086	ppb	0.3411	3969.2	348.553	0.00859
Mo 202.032	0.6944	ppb	0.4504	64.9	15.5682	0.69441
Na 330.237	59.8258	ppb	71.3115	119.2	2.0317	59.82581
Ni 231.604	0.8834	ppb	0.5443	61.6	3.5145	0.88335
Pb 220.353	0.1214	ppb	2.4094	1984.3	2.8074	0.12142
Sb 206.834	-0.5820	ppb	1.0230	175.8	2.3422	-0.58202
Se 196.026	1.3563	ppb	3.0285	223.3	1.9259	1.35628
Sn 189.925	3.2897	ppb	1.5816	48.1	1.6213	3.28966
Sr 216.596	0.6892	ppb	0.1211	17.6	18.4282	0.68919
Ti 334.941	0.2046	ppb	0.0303	14.8	-62.0564	0.20459
Tl 190.794	6.8001	ppb	0.6128	9.0	4.9948	6.80013
V 292.401	0.9221	ppb	0.4221	45.8	27.2827	0.92210
Zn 206.200	0.4363	ppb	0.3397	75.8	2.6554	0.43634



E04052013.vvq. All Data Report 4/8/2013, 10:52:27 AM

**mb 680-271499/1-a (Samp)**      **4/6/2013, 12:22:52 AM**      **Rack 3, Tube 3**  
**Weight: 1**      **Volume: 1**      **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	1.2672	0.0926	-0.0111u
Al 308.215	5.7933	6.3396	6.8904
As 188.980	-8.4959u	-5.4275u	-3.4989u
B 249.678	3.8418	3.3824	4.7014
Ba 389.178	-0.1875u	-0.5461u	-0.7012u
Be 313.042	0.0144	-0.0046u	0.0053
Ca 370.602	18.31	17.75	23.37
Cd 226.502	0.1360	0.0098	0.2123
Co 228.615	-0.1298u	-0.6295u	-0.4634u
Cr 267.716	0.1556	0.6117	0.2230
Cu 324.754	0.2550	0.8090	0.7486
Fe 271.441	27.6792	25.9701	30.4333
K 766.491	11.9245	12.1918	11.7944
Mg 279.078	13.9020	12.5256	14.4590
Mn 257.610	-0.7656u	-0.7709u	-0.7972u
Mo 202.032	0.6174	0.3784	0.0301
Na 330.237	-49.7571u	199.348	-193.133u
Ni 231.604	-0.0473u	-0.2117u	0.4467
Pb 220.353	-1.2749u	0.4515	1.0182
Sb 206.834	-3.8430u	3.3087	-6.0083u
Se 196.026	0.3172	7.7838	-2.6874u
Sn 189.925	10.5271	10.7946	13.4081
Sr 216.596	0.3952	0.1508	-0.0702u
Ti 334.941	0.2778	0.3414	0.3274
Tl 190.794	3.4829	4.9427	0.7123
V 292.401	-0.2271u	-0.3011u	0.0869
Zn 206.200	1.5289	1.2387	1.4377

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.4496	ppb	0.7100	157.9	-58.9959
Al 308.215	6.3411	ppb	0.5485	8.7	27.8027
As 188.980	-5.8074	ppb	2.5201	43.4	-2.0231
B 249.678	3.9752	ppb	0.6695	16.8	108.148
Ba 389.178	-0.4783	ppb	0.2635	55.1	-47.8100
Be 313.042	0.0050	ppb	0.0095	189.4	-324.529
Ca 370.602	19.81	ppb	3.097	15.6	70.67
Cd 226.502	0.1194	ppb	0.1022	85.6	14.0501
Co 228.615	-0.4076	ppb	0.2545	62.4	-0.9151
Cr 267.716	0.3301	ppb	0.2462	74.6	28.5847
Cu 324.754	0.6042	ppb	0.3039	50.3	-87.6095
Fe 271.441	28.0275	ppb	2.2519	8.0	56.6374
K 766.491	11.9703	ppb	0.2026	1.7	858.056
Mg 279.078	13.6289	ppb	0.9952	7.3	56.9209
Mn 257.610	-0.7779	ppb	0.0169	2.2	132.823
Mo 202.032	0.3419	ppb	0.2953	86.4	12.5592
Na 330.237	-14.5140	ppb	198.600	1368.3	-2.4978
Ni 231.604	0.0625	ppb	0.3427	547.9	0.7528
Pb 220.353	0.0649	ppb	1.1944	1840.3	2.6798
Sb 206.834	-2.1809	ppb	4.8758	223.6	0.6211
Se 196.026	1.8045	ppb	5.3918	298.8	2.1912
Sn 189.925	11.5766	ppb	1.5917	13.7	10.0322
Sr 216.596	0.1586	ppb	0.2328	146.7	11.3912
Ti 334.941	0.3155	ppb	0.0334	10.6	-29.8972
Tl 190.794	3.0459	ppb	2.1488	70.5	0.1627
V 292.401	-0.1471	ppb	0.2060	140.0	-6.3862
Zn 206.200	1.4018	ppb	0.1484	10.6	4.5846

E04052013.wvq. All Data Report 4/8/2013, 10:52:27 AM

ics 680-271499/2-a (Samp) 4/6/2013, 12:29:18 AM Rack 3, Tube 4  
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	7.5124	8.5927	7.9815
Al 308.215	5024.32	5034.26	5058.01
As 188.980	104.914	105.189	101.546
B 249.678	189.776	188.142	190.882
Ba 389.178	104.921	104.175	104.454
Be 313.042	52.8373	52.7527	52.9799
Ca 370.602	5049	5033	5069
Cd 226.502	52.2882	51.8630	52.0811
Co 228.615	52.7716	51.6515	52.9622
Cr 267.716	106.570	105.938	106.684
Cu 324.754	105.898	104.959	106.096
Fe 271.441	4973.03	4954.73	4961.99
K 766.491	5169.90	5146.47	5172.67
Mg 279.078	4944.36	4924.89	4943.58
Mn 257.610	533.914	531.303	533.384
Mo 202.032	102.341	102.350	101.936
Na 330.237	4577.15	4813.02	4592.16
Ni 231.604	103.360	102.422	102.633
Pb 220.353	52.8997	48.6243	49.7016
Sb 206.834	53.9975	54.0962	51.2884
Se 196.026	102.136	93.4373	102.470
Sn 189.925	211.978	212.180	212.599
Sr 216.596	101.316	101.364	102.643
Ti 334.941	99.9815	99.9186	100.573
Tl 190.794	43.7728	40.2440	41.8436
V 292.401	100.782	101.254	101.500
Zn 206.200	104.985	105.253	107.294

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	8.0289	ppb	0.5417	6.7	564.162
Al 308.215	5038.86	ppb	17.3123	0.3	18082.8
As 188.980	103.883	ppb	2.0285	2.0	79.9607
B 249.678	189.600	ppb	1.3786	0.7	2357.45
Ba 389.178	104.517	ppb	0.3768	0.4	2849.38
Be 313.042	52.8567	ppb	0.1148	0.2	110918
Ca 370.602	5050	ppb	17.64	0.3	19541
Cd 226.502	52.0774	ppb	0.2126	0.4	2440.55
Co 228.615	52.4618	ppb	0.7082	1.3	695.437
Cr 267.716	106.397	ppb	0.4019	0.4	5570.71
Cu 324.754	105.651	ppb	0.6073	0.6	5370.49
Fe 271.441	4963.25	ppb	9.2157	0.2	10207.1
K 766.491	5163.01	ppb	14.3932	0.3	277819
Mg 279.078	4937.61	ppb	11.0201	0.2	12894.8
Mn 257.610	532.867	ppb	1.3805	0.3	146702
Mo 202.032	102.209	ppb	0.2363	0.2	881.937
Na 330.237	4660.77	ppb	132.060	2.8	277.666
Ni 231.604	102.805	ppb	0.4917	0.5	346.656
Pb 220.353	50.4085	ppb	2.2237	4.4	116.499
Sb 206.834	53.1274	ppb	1.5933	3.0	60.6160
Se 196.026	99.3479	ppb	5.1214	5.2	60.1479
Sn 189.925	212.252	ppb	0.3168	0.1	213.714
Sr 216.596	101.774	ppb	0.7529	0.7	1365.60
Ti 334.941	100.158	ppb	0.3611	0.4	28887.0
Tl 190.794	41.9535	ppb	1.7670	4.2	48.6575
V 292.401	101.179	ppb	0.3650	0.4	3165.52
Zn 206.200	105.844	ppb	1.2629	1.2	417.808

E04052013.vvq. All Data Report 4/8/2013, 10:52:27 AM

ics 680-271499/3-a (Samp) 4/6/2013, 12:35:45 AM Rack 3, Tube 5  
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	210.328	207.989	209.874
Al 308.215	2228.93	2227.56	2215.17
As 188.980	213.593	219.042	221.151
B 249.678	385.430	387.481	389.571
Ba 389.178	208.935	207.320	207.981
Be 313.042	214.580	214.185	214.204
Ca 370.602	20102	20077	20052
Cd 226.502	204.367	204.039	204.535
Co 228.615	208.989	208.663	208.202
Cr 267.716	216.832	215.580	214.947
Cu 324.754	214.061	211.291	214.189
Fe 271.441	20792.9	20750.9	20776.1
K 766.491	20020.9	20007.9	19981.7
Mg 279.078	20084.4	20026.7	20016.6
Mn 257.610	2160.55	2155.56	2153.56
Mo 202.032	208.189	207.115	205.200
Na 330.237	16922.0	17029.3	16756.4
Ni 231.604	208.737	207.617	209.369
Pb 220.353	203.352	198.441	201.622
Sb 206.834	198.910	195.317	198.238
Se 196.026	199.909	191.554	208.690
Sn 189.925	219.840	220.752	221.276
Sr 216.596	216.051	216.040	214.874
Ti 334.941	205.683	205.021	204.708
Tl 190.794	46.3483	47.5741	44.0524
V 292.401	205.370	204.262	204.004
Zn 206.200	197.163	199.432	196.367

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	209.397	ppb	1.2404	0.6	17167.7
Al 308.215	2223.89	ppb	7.5797	0.3	7995.33
As 188.980	217.929	ppb	3.9001	1.8	165.167
B 249.678	387.494	ppb	2.0706	0.5	4742.52
Ba 389.178	208.078	ppb	0.8118	0.4	5756.84
Be 313.042	214.323	ppb	0.2227	0.1	450818
Ca 370.602	20077	ppb	25.41	0.1	77547
Cd 226.502	204.313	ppb	0.2520	0.1	9554.30
Co 228.615	208.618	ppb	0.3953	0.2	2753.79
Cr 267.716	215.786	ppb	0.9596	0.4	11293.4
Cu 324.754	213.180	ppb	1.6371	0.8	10960.9
Fe 271.441	20773.3	ppb	21.1656	0.1	42718.9
K 766.491	20003.5	ppb	19.9685	0.1	1075760
Mg 279.078	20042.6	ppb	36.5917	0.2	52283.4
Mn 257.610	2156.56	ppb	3.5973	0.2	592665
Mo 202.032	206.835	ppb	1.5140	0.7	1774.22
Na 330.237	16902.6	ppb	137.475	0.8	1013.24
Ni 231.604	208.575	ppb	0.8874	0.4	703.035
Pb 220.353	201.139	ppb	2.4907	1.2	458.214
Sb 206.834	197.488	ppb	1.9105	1.0	217.986
Se 196.026	200.051	ppb	8.5685	4.3	120.381
Sn 189.925	220.623	ppb	0.7265	0.3	222.223
Sr 216.596	215.655	ppb	0.6762	0.3	2890.31
Ti 334.941	205.137	ppb	0.4979	0.2	59337.8
Tl 190.794	45.9916	ppb	1.7878	3.9	48.9855
V 292.401	204.545	ppb	0.7260	0.4	6401.23
Zn 206.200	197.654	ppb	1.5904	0.8	395.784

E04052013.vvq. All Data Report 4/8/2013, 10:52:27 AM

**680-88866-a-19-a (Samp)**                      **4/6/2013, 12:42:11 AM**                      **Rack 3, Tube 6**  
**Weight: 1**    **Volume: 1**    **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.8799	0.9515	0.4847u
Al 308.215	229259	229491	230614
As 188.980	181.701	178.592	189.786
B 249.678	65.1881	63.5925	63.3792
Ba 389.178	1008.68	1006.87	1008.38
Be 313.042	13.8107	13.8727	13.9841
Ca 370.602	207151	207420	207010
Cd 226.502	1.1312	0.7905	1.0541
Co 228.615	186.040	186.179	187.227
Cr 267.716	459.380	459.711	461.868
Cu 324.754	703.262	702.149	705.444
Fe 271.441	417642	416865	416390
K 766.491	110720x	110423x	110768x
Mg 279.078	179757	179892	180296
Mn 257.610	7956.00	7956.99	7974.43
Mo 202.032	149.892	151.074	152.343
Na 330.237	57453.8	57522.5	57639.2
Ni 231.604	287.892	289.098	292.206
Pb 220.353	654.983	643.507	654.542
Sb 206.834	6.5319	2.9998	2.8212
Se 196.026	2.7333	-7.7890	1.1768
Sn 189.925	207.780	215.439	212.165
Sr 216.596	2344.42	2345.90	2353.97
Ti 334.941	8597.42	8612.72	8639.50
Tl 190.794	15.8436u	16.6203u	22.0629u
V 292.401	1010.08	1008.70	1011.06
Zn 206.200	1152.44	1147.23	1151.24

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.7720b	ppb	0.2514	32.6	-104.477
Al 308.215	229788b	ppb	724.595	0.3	824072
As 188.980	183.359b	ppb	5.7784	3.2	136.316
B 249.678	64.0533b	ppb	0.9885	1.5	329.984
Ba 389.178	1007.98b	ppb	0.9685	0.1	28802.7
Be 313.042	13.8892b	ppb	0.0879	0.6	28907.9
Ca 370.602	207194b	ppb	208.5	0.1	780707
Cd 226.502	0.9919b	ppb	0.1787	18.0	1325.86
Co 228.615	186.482b	ppb	0.6493	0.3	2699.20
Cr 267.716	460.320b	ppb	1.3511	0.3	24209.0
Cu 324.754	703.618b	ppb	1.6761	0.2	36540.0
Fe 271.441	416965b	ppb	631.853	0.2	856693
K 766.491	110637xb	ppb	186.941	0.2	5948945
Mg 279.078	179982b	ppb	280.518	0.2	469543
Mn 257.610	7962.47b	ppb	10.3661	0.1	2189447
Mo 202.032	151.103b	ppb	1.2254	0.8	1272.96
Na 330.237	57538.5b	ppb	93.7428	0.2	3253.11
Ni 231.604	289.732b	ppb	2.2259	0.8	986.862
Pb 220.353	651.010b	ppb	6.5024	1.0	1467.81
Sb 206.834	4.1176b	ppb	2.0927	50.8	20.5857
Se 196.026	-1.2930b	ppb	5.6793	439.3	5.7023
Sn 189.925	211.795b	ppb	3.8430	1.8	213.363
Sr 216.596	2348.10b	ppb	5.1403	0.2	31611.8
Ti 334.941	8616.55b	ppb	21.3002	0.2	2494341
Tl 190.794	18.1756b	ppb	3.3888	18.6	-43.9932
V 292.401	1009.95b	ppb	1.1845	0.1	31991.9
Zn 206.200	1150.30b	ppb	2.7261	0.2	2297.88

E04052013.vvq. All Data Report 4/8/2013, 10:52:27 AM

680-88866-a-19-aSD^5 (Samp) 4/6/2013, 12:48:38 AM Rack 3, Tube 7  
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.7871	0.4939	0.7609
Al 308.215	52577.8	51789.4	50756.4
As 188.980	40.8589	37.0019	30.9484
B 249.678	16.0799	15.9797	16.8809
Ba 389.178	234.339	230.237	227.865
Be 313.042	3.2012	3.2413	3.2477
Ca 370.602	48695	48069	47345
Cd 226.502	-0.1690	-0.4038	-0.4696
Co 228.615	44.2539	44.7502	43.3347
Cr 267.716	107.520	106.113	104.852
Cu 324.754	156.326	156.370	153.296
Fe 271.441	100095	98678.7	97221.5
K 766.491	26317.0	26104.0	25779.7
Mg 279.078	40559.4	39962.6	39322.6
Mn 257.610	1921.64	1897.36	1864.88
Mo 202.032	34.8595	34.1990	34.3641
Na 330.237	12183.3	12187.8	12346.2
Ni 231.604	68.3154	67.7762	67.8955
Pb 220.353	156.954	154.092	149.840
Sb 206.834	-1.5956	-4.2612u	4.5027
Se 196.026	-1.1853	-2.9756u	6.9880
Sn 189.925	48.0335	50.9030	47.7048
Sr 216.596	553.791	546.135	535.916
Ti 334.941	2006.55	1976.92	1939.80
Tl 190.794	1.8304u	6.5338u	9.6252u
V 292.401	233.425	229.906	226.452
Zn 206.200	271.058	269.282	266.103

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.6806	ppb	0.1622	23.8	-56.2234
Al 308.215	51707.9	ppb	913.411	1.8	185440
As 188.980	36.2697	ppb	4.9957	13.8	28.6946
B 249.678	16.3135	ppb	0.4939	3.0	137.794
Ba 389.178	230.814	ppb	3.2753	1.4	6570.07
Be 313.042	3.2301	ppb	0.0252	0.8	6465.98
Ca 370.602	48036	ppb	675.5	1.4	180784
Cd 226.502	-0.3475	ppb	0.1580	45.5	293.258
Co 228.615	44.1129	ppb	0.7182	1.6	639.758
Cr 267.716	106.162	ppb	1.3347	1.3	5592.85
Cu 324.754	155.331	ppb	1.7623	1.1	7975.87
Fe 271.441	98665.2	ppb	1437.00	1.5	202716
K 766.491	26066.9	ppb	270.578	1.0	1401776
Mg 279.078	39948.2	ppb	618.555	1.5	104233
Mn 257.610	1894.63	ppb	28.4815	1.5	521202
Mo 202.032	34.4742	ppb	0.3437	1.0	297.657
Na 330.237	12239.1	ppb	92.7559	0.8	685.741
Ni 231.604	67.9957	ppb	0.2832	0.4	232.038
Pb 220.353	153.629	ppb	3.5798	2.3	348.437
Sb 206.834	-0.4514	ppb	4.4926	995.3	5.5865
Se 196.026	0.9423	ppb	5.3116	563.7	2.9493
Sn 189.925	48.8804	ppb	1.7593	3.6	47.9209
Sr 216.596	545.281	ppb	8.9678	1.6	7349.08
Ti 334.941	1974.42	ppb	33.4462	1.7	571462
Tl 190.794	5.9965	ppb	3.9251	65.5	-11.1266
V 292.401	229.928	ppb	3.4866	1.5	7282.10
Zn 206.200	268.814	ppb	2.5102	0.9	538.368

E04052013.vvq. All Data Report 4/8/2013, 10:52:27 AM

**680-88866-a-19-aPDS (Samp) 4/6/2013, 12:55:04 AM Rack 3, Tube 8****Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	53.1263	53.0922	52.5417
Al 308.215	230340	228640	229035
As 188.980	2417.59	2412.89	2413.55
B 249.678	58.6409	57.2435	59.9960
Ba 389.178	2944.58	2947.13	2947.27
Be 313.042	63.5657	63.4362	63.4810
Ca 370.602	204939	204827	204204
Cd 226.502	48.2944	48.6547	48.3919
Co 228.615	662.129	663.168	672.882
Cr 267.716	654.396	651.864	652.738
Cu 324.754	956.726	954.334	969.574
Fe 271.441	413268	414848	413920
K 766.491	110349x	110225x	109968x
Mg 279.078	177950	178031	178273
Mn 257.610	8359.89	8368.54	8376.62
Mo 202.032	150.487	148.651	150.264
Na 330.237	57083.3	56865.2	57242.7
Ni 231.604	766.061	764.847	765.860
Pb 220.353	1104.56	1104.87	1112.92
Sb 206.834	505.711	500.511	508.182
Se 196.026	1977.42	1968.04	1987.47
Sn 189.925	204.755	210.312	200.913
Sr 216.596	2323.88	2319.94	2323.37
Ti 334.941	8564.69	8524.62	8516.22
Tl 190.794	1856.69	1852.33	1863.99
V 292.401	1479.78	1482.01	1481.93
Zn 206.200	1605.80	1608.33	1614.28

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	52.9201b	ppb	0.3281	0.6	4200.89
Al 308.215	229338b	ppb	889.939	0.4	822453
As 188.980	2414.68b	ppb	2.5468	0.1	1804.93
B 249.678	58.6268b	ppb	1.3763	2.3	267.810
Ba 389.178	2946.33b	ppb	1.5106	0.1	81831.3
Be 313.042	63.4943b	ppb	0.0658	0.1	133315
Ca 370.602	204656b	ppb	396.0	0.2	770970
Cd 226.502	48.4470b	ppb	0.1863	0.4	3518.88
Co 228.615	666.060b	ppb	5.9312	0.9	9022.79
Cr 267.716	653.000b	ppb	1.2859	0.2	34267.6
Cu 324.754	960.212b	ppb	8.1962	0.9	49858.1
Fe 271.441	414012b	ppb	794.382	0.2	850719
K 766.491	110180xb	ppb	194.432	0.2	5924384
Mg 279.078	178085b	ppb	168.301	0.1	464583
Mn 257.610	8368.35b	ppb	8.3688	0.1	2300848
Mo 202.032	149.800b	ppb	1.0019	0.7	1260.98
Na 330.237	57063.7b	ppb	189.480	0.3	3222.06
Ni 231.604	765.589b	ppb	0.6506	0.1	2588.22
Pb 220.353	1107.45b	ppb	4.7377	0.4	2501.91
Sb 206.834	504.802b	ppb	3.9155	0.8	564.066
Se 196.026	1977.64b	ppb	9.7131	0.5	1177.64
Sn 189.925	205.327b	ppb	4.7259	2.3	206.797
Sr 216.596	2322.40b	ppb	2.1421	0.1	31256.4
Ti 334.941	8535.18b	ppb	25.9045	0.3	2470784
Tl 190.794	1857.67b	ppb	5.8917	0.3	2322.85
V 292.401	1481.24b	ppb	1.2657	0.1	46864.9
Zn 206.200	1609.47b	ppb	4.3539	0.3	3214.39

680-88866-a-19-b ms (Samp) 4/6/2013, 1:01:30 AM Rack 3, Tube 9  
Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	10.2727	10.4853	9.1753
Al 308.215	194339	194794	196188
As 188.980	255.475	253.793	264.691
B 249.678	226.230	228.438	229.926
Ba 389.178	1042.78	1043.79	1045.02
Be 313.042	57.0736	57.1058	57.2134
Ca 370.602	199479	198377	200037
Cd 226.502	45.0332	45.1798	44.8793
Co 228.615	205.235	205.436	206.211
Cr 267.716	510.251	507.277	508.520
Cu 324.754	708.757	710.409	715.031
Fe 271.441	346047	346597	346231
K 766.491	105272x	106064x	105316x
Mg 279.078	168821	168505	168641
Mn 257.610	7153.54	7146.83	7161.49
Mo 202.032	206.383	207.152	209.423
Na 330.237	50276.6	50183.5	50140.7
Ni 231.604	340.694	344.195	345.726
Pb 220.353	327.627	327.142	323.111
Sb 206.834	19.6349	10.8519	14.7729
Se 196.026	88.0898	75.2589	82.9570
Sn 189.925	320.219	319.923	332.040
Sr 216.596	2352.40	2351.80	2358.37
Ti 334.941	7802.61	7803.95	7834.59
Tl 190.794	53.7294	52.2464	55.8365
V 292.401	951.786	951.079	953.496
Zn 206.200	1151.35	1144.22	1143.85

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	9.9778b	ppb	0.7031	7.0	649.775
Al 308.215	195107b	ppb	963.644	0.5	699704
As 188.980	257.986b	ppb	5.8669	2.3	192.899
B 249.678	228.198b	ppb	1.8594	0.8	2410.42
Ba 389.178	1043.86b	ppb	1.1230	0.1	29631.7
Be 313.042	57.1309b	ppb	0.0732	0.1	119930
Ca 370.602	199298b	ppb	844.5	0.4	756406
Cd 226.502	45.0308b	ppb	0.1503	0.3	3154.64
Co 228.615	205.628b	ppb	0.5155	0.3	2928.24
Cr 267.716	508.682b	ppb	1.4937	0.3	26710.7
Cu 324.754	711.399b	ppb	3.2517	0.5	36924.5
Fe 271.441	346291b	ppb	280.168	0.1	711498
K 766.491	105550xb	ppb	445.032	0.4	5675439
Mg 279.078	168656b	ppb	158.899	0.1	439999
Mn 257.610	7153.96b	ppb	7.3361	0.1	1967140
Mo 202.032	207.653b	ppb	1.5805	0.8	1760.20
Na 330.237	50200.3b	ppb	69.4629	0.1	2840.35
Ni 231.604	343.538b	ppb	2.5793	0.8	1166.04
Pb 220.353	325.960b	ppb	2.4791	0.8	732.411
Sb 206.834	15.0865b	ppb	4.3999	29.2	30.7437
Se 196.026	82.1019b	ppb	6.4581	7.9	54.3430
Sn 189.925	324.061b	ppb	6.9116	2.1	327.303
Sr 216.596	2354.19b	ppb	3.6284	0.2	31652.4
Ti 334.941	7813.72b	ppb	18.0896	0.2	2261946
Tl 190.794	53.9374b	ppb	1.8041	3.3	11.8163
V 292.401	952.121b	ppb	1.2428	0.1	30134.4
Zn 206.200	1146.48b	ppb	4.2268	0.4	2290.05

E04052013.vvq. All Data Report 4/8/2013, 10:52:27 AM

**680-88866-a-19-c msd (Samp) 4/6/2013, 1:07:57 AM Rack 3, Tube 10****Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	19.5418	26.4488	22.0426
Al 308.215	222857	290175	244977
As 188.980	264.792	343.114	285.365
B 249.678	226.805	278.582	247.843
Ba 389.178	982.051	1281.93	1080.54
Be 313.042	57.0358	73.5170	62.4966
Ca 370.602	190009	247733	211896
Cd 226.502	39.6735	59.6250	46.1154
Co 228.615	212.938	277.980	220.202
Cr 267.716	516.601	668.552	566.651
Cu 324.754	706.575	901.726	758.503
Fe 271.441	360422	466880	397151
K 766.491	112660x	137911x	120320x
Mg 279.078	173749	224890	190770
Mn 257.610	7555.20	9711.19	8273.33
Mo 202.032	186.953	240.801	203.504
Na 330.237	69751.2	86012.6	73661.5
Ni 231.604	329.893	428.323	368.797
Pb 220.353	253.098	322.346	271.812
Sb 206.834	14.1919	17.5742	18.4309
Se 196.026	80.3820	105.402	77.0864
Sn 189.925	277.784	355.832	303.674
Sr 216.596	2234.67	2870.48	2443.44
Ti 334.941	8088.91	10467.5	8893.86
Tl 190.794	56.7244	49.0803u	60.8995
V 292.401	974.532	1257.00	1068.20
Zn 206.200	1125.16	1449.47	1236.89

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	22.6777b	ppb	3.4970	15.4	1696.07
Al 308.215	252670b	ppb	34312.1	13.6	906134
As 188.980	297.757b	ppb	40.6050	13.6	222.049
B 249.678	251.077b	ppb	26.0393	10.4	2613.05
Ba 389.178	1114.84b	ppb	152.853	13.7	31764.0
Be 313.042	64.3498b	ppb	8.3954	13.0	135126
Ca 370.602	216546b	ppb	29142	13.5	818803
Cd 226.502	48.4713b	ppb	10.1822	21.0	3502.73
Co 228.615	237.040b	ppb	35.6404	15.0	3380.04
Cr 267.716	583.935b	ppb	77.4357	13.3	30665.7
Cu 324.754	788.935b	ppb	101.072	12.8	40968.3
Fe 271.441	408151b	ppb	54074.9	13.2	838595
K 766.491	123630xb	ppb	12946.8	10.5	6647546
Mg 279.078	196470b	ppb	26042.4	13.3	512547
Mn 257.610	8513.24b	ppb	1097.83	12.9	2340787
Mo 202.032	210.419b	ppb	27.5820	13.1	1779.82
Na 330.237	76475.1b	ppb	8488.00	11.1	4399.68
Ni 231.604	375.671b	ppb	49.5736	13.2	1275.86
Pb 220.353	282.419b	ppb	35.8217	12.7	631.808
Sb 206.834	16.7323b	ppb	2.2414	13.4	34.8811
Se 196.026	87.6235b	ppb	15.4846	17.7	58.4588
Sn 189.925	312.430b	ppb	39.7538	12.7	315.517
Sr 216.596	2516.20b	ppb	324.088	12.9	33850.1
Ti 334.941	9150.11b	ppb	1209.85	13.2	2648826
Tl 190.794	55.5680b	ppb	5.9939	10.8	4.1522
V 292.401	1099.91b	ppb	143.879	13.1	34821.0
Zn 206.200	1270.50b	ppb	164.744	13.0	2527.52



E04052013.vvq. All Data Report 4/8/2013, 10:52:27 AM

680-88866-a-20-a (Samp)                      4/6/2013, 1:14:23 AM                      Rack 3, Tube 11  
 Weight: 1    Volume: 1    Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.8546u	-0.3795u	0.3898u
Al 308.215	230600	231055	233538
As 188.980	223.540	231.283	233.909
B 249.678	55.6985	58.0213	56.2349
Ba 389.178	886.058	884.464	890.581
Be 313.042	13.9715	13.9812	14.1218
Ca 370.602	176257	175429	176778
Cd 226.502	2.0272	2.5400	2.0539
Co 228.615	180.155	180.286	182.745
Cr 267.716	473.940	475.311	479.044
Cu 324.754	705.872	698.748	701.359
Fe 271.441	415294	415295	416332
K 766.491	109116x	108678x	109050x
Mg 279.078	169652	169387	170538
Mn 257.610	8165.94	8140.52	8210.50
Mo 202.032	123.776	125.218	126.044
Na 330.237	56661.2	56779.1	56762.3
Ni 231.604	278.695	282.267	282.890
Pb 220.353	238.228	241.773	238.672
Sb 206.834	-8.0370	5.5443	-4.4368
Se 196.026	0.3928	-1.2074	10.8126
Sn 189.925	38.0248	41.6180	38.8760
Sr 216.596	1977.62	1976.72	1993.50
Ti 334.941	8175.70	8168.47	8244.35
Tl 190.794	15.7016u	23.1488u	18.2610u
V 292.401	978.166	976.101	982.537
Zn 206.200	982.515	981.987	989.612

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.2814b	ppb	0.6280	223.1	-173.112
Al 308.215	231731b	ppb	1580.91	0.7	831038
As 188.980	229.577b	ppb	5.3910	2.3	170.601
B 249.678	56.6516b	ppb	1.2162	2.1	242.250
Ba 389.178	887.034b	ppb	3.1735	0.4	25459.8
Be 313.042	14.0249b	ppb	0.0841	0.6	29188.7
Ca 370.602	176155b	ppb	680.6	0.4	657830
Cd 226.502	2.2070b	ppb	0.2887	13.1	1376.61
Co 228.615	181.062b	ppb	1.4592	0.8	2617.79
Cr 267.716	476.098b	ppb	2.6412	0.6	25033.2
Cu 324.754	701.993b	ppb	3.6039	0.5	36454.7
Fe 271.441	415640b	ppb	598.974	0.1	853968
K 766.491	108948xb	ppb	235.968	0.2	5858120
Mg 279.078	169859b	ppb	603.232	0.4	443121
Mn 257.610	8172.32b	ppb	35.4264	0.4	2246957
Mo 202.032	125.013b	ppb	1.1482	0.9	1050.34
Na 330.237	56734.2b	ppb	63.7785	0.1	3209.86
Ni 231.604	281.284b	ppb	2.2639	0.8	958.384
Pb 220.353	239.558b	ppb	1.9312	0.8	535.893
Sb 206.834	-2.3099b	ppb	7.0361	304.6	14.1309
Se 196.026	3.3327b	ppb	6.5271	195.9	8.4902
Sn 189.925	39.5063b	ppb	1.8777	4.8	38.4818
Sr 216.596	1982.61b	ppb	9.4389	0.5	26724.7
Ti 334.941	8196.17b	ppb	41.8794	0.5	2372641
Tl 190.794	19.0371b	ppb	3.7838	19.9	-43.0752
V 292.401	978.935b	ppb	3.2865	0.3	31009.9
Zn 206.200	984.705b	ppb	4.2580	0.4	1967.00

E04052013.wvq. All Data Report 4/8/2013, 10:52:27 AM

680-88866-a-21-a (Samp) 4/6/2013, 1:20:49 AM Rack 3, Tube 12

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	2.7317	2.8913	3.3657
Al 308.215	248776	248798	247894
As 188.980	344.210	341.662	333.622
B 249.678	109.110	108.844	108.138
Ba 389.178	1891.97	1894.25	1890.20
Be 313.042	14.3195	14.3188	14.2777
Ca 370.602	193724	193676	193280
Cd 226.502	15.9303	16.4136	15.6260
Co 228.615	169.293	171.692	169.474
Cr 267.716	534.756	534.625	531.905
Cu 324.754	1134.34	1125.86	1132.79
Fe 271.441	388943	389708	388687
K 766.491	115963x	116361x	115954x
Mg 279.078	181992	182169	181466
Mn 257.610	7778.48	7805.66	7769.38
Mo 202.032	213.697	214.673	216.388
Na 330.237	71450.6	71986.5	72230.5
Ni 231.604	278.298	277.119	278.280
Pb 220.353	758.269	755.981	749.013
Sb 206.834	20.4950	17.2420	15.5298
Se 196.026	7.9041	-0.7197	-6.9842
Sn 189.925	174.708	170.825	164.846
Sr 216.596	2280.10	2281.94	2269.45
Ti 334.941	10244.9	10257.3	10248.3
Tl 190.794	23.4632u	23.1843u	25.9724u
V 292.401	984.773	986.659	983.370
Zn 206.200	1579.20	1580.69	1566.93

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	2.9962b	ppb	0.3298	11.0	81.5016
Al 308.215	248489b	ppb	515.497	0.2	891145
As 188.980	339.832b	ppb	5.5262	1.6	253.515
B 249.678	108.697b	ppb	0.5020	0.5	906.442
Ba 389.178	1892.14b	ppb	2.0280	0.1	52954.8
Be 313.042	14.3053b	ppb	0.0240	0.2	29768.5
Ca 370.602	193560b	ppb	243.6	0.1	729904
Cd 226.502	15.9900b	ppb	0.3972	2.5	1936.92
Co 228.615	170.153b	ppb	1.3356	0.8	2531.23
Cr 267.716	533.762b	ppb	1.6092	0.3	28040.6
Cu 324.754	1131.00b	ppb	4.5149	0.4	58725.8
Fe 271.441	389113b	ppb	531.138	0.1	799468
K 766.491	116092xb	ppb	232.387	0.2	6242254
Mg 279.078	181876b	ppb	365.411	0.2	474476
Mn 257.610	7784.51b	ppb	18.8725	0.2	2140516
Mo 202.032	214.919b	ppb	1.3624	0.6	1819.64
Na 330.237	71889.2b	ppb	398.974	0.6	4115.32
Ni 231.604	277.899b	ppb	0.6760	0.2	946.302
Pb 220.353	754.421b	ppb	4.8214	0.6	1700.29
Sb 206.834	17.7556b	ppb	2.5221	14.2	34.4531
Se 196.026	0.0667b	ppb	7.4752	11203.6	6.2567
Sn 189.925	170.126b	ppb	4.9678	2.9	171.072
Sr 216.596	2277.16b	ppb	6.7461	0.3	30645.3
Ti 334.941	10250.2b	ppb	6.3723	0.1	2967103
Tl 190.794	24.2067b	ppb	1.5355	6.3	-32.6701
V 292.401	984.934b	ppb	1.6505	0.2	31211.4
Zn 206.200	1575.61b	ppb	7.5521	0.5	3147.21

Cont Calib Verif (CCV) 4/6/2013, 1:27:16 AM Rack 3, Tube 13  
Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	509.038	506.806	505.786
Al 308.215	5281.31	5393.52	5384.27
As 188.980	485.355	488.029	486.599
B 249.678	513.505	515.925	519.464
Ba 389.178	4825.08	4814.10	4812.40
Be 313.042	484.907	483.404	482.269
Ca 370.602	5196	5322	5310
Cd 226.502	478.531	478.192	479.285
Co 228.615	487.178	489.644	490.850
Cr 267.716	4915.81	4894.29	4880.74
Cu 324.754	4742.79	4822.62	4820.16
Fe 271.441	5456.50	5737.91	5767.95
K 766.491	10112.8	10233.7	10193.3
Mg 279.078	5125.59	5237.03	5259.53
Mn 257.610	4848.17	4862.04	4859.65
Mo 202.032	494.998	495.006	492.608
Na 330.237	7327.68	7177.35	7473.73
Ni 231.604	2400.63	2400.18	2394.12
Pb 220.353	493.567	497.714	494.394
Sb 206.834	984.787	986.383	972.144
Se 196.026	4857.03	4867.60	4852.19
Sn 189.925	4992.19	4949.94	4950.60
Sr 216.596	2412.78	2405.14	2396.54
Ti 334.941	511.896	515.711	513.083
Tl 190.794	4943.40	4944.99	4951.13
V 292.401	4888.01	4893.35	4887.31
Zn 206.200	2426.18	2426.85	2427.59

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	507.210	ppb	1.6633	0.3	41656.1	101.44195
Al 308.215	5353.03	ppb	62.2893	1.2	19189.0	107.06069
As 188.980	486.661	ppb	1.3382	0.3	366.071	97.33222
B 249.678	516.298	ppb	2.9972	0.6	6325.86	20.65191Q
Ba 389.178	4817.19	ppb	6.8851	0.1	131817	96.34388
Be 313.042	483.527	ppb	1.3234	0.3	1017303	96.70537
Ca 370.602	5276	ppb	69.58	1.3	20666	105.51873
Cd 226.502	478.669	ppb	0.5594	0.1	22241.2	95.73389
Co 228.615	489.224	ppb	1.8714	0.4	6466.96	97.84477
Cr 267.716	4896.95	ppb	17.6846	0.4	255733	97.93892
Cu 324.754	4795.19	ppb	45.3977	0.9	248842	95.90378
Fe 271.441	5654.12	ppb	171.805	3.0	11761.6	113.08241Q
K 766.491	10179.9	ppb	61.5222	0.6	547569	101.79945
Mg 279.078	5207.39	ppb	71.7219	1.4	13511.5	104.14774
Mn 257.610	4856.62	ppb	7.4165	0.2	1333746	97.13242
Mo 202.032	494.204	ppb	1.3820	0.3	4218.70	98.84076
Na 330.237	7326.25	ppb	148.197	2.0	414.936	97.68340
Ni 231.604	2398.31	ppb	3.6388	0.2	8071.96	95.93241
Pb 220.353	495.225	ppb	2.1949	0.4	1124.36	99.04503
Sb 206.834	981.105	ppb	7.8014	0.8	1113.31	98.11047
Se 196.026	4858.94	ppb	7.8828	0.2	2879.88	97.17881
Sn 189.925	4964.24	ppb	24.2011	0.5	5036.79	99.28485
Sr 216.596	2404.82	ppb	8.1242	0.3	32073.7	96.19274
Ti 334.941	513.563	ppb	1.9520	0.4	148525	102.71267
Tl 190.794	4946.51	ppb	4.0801	0.1	6353.43	98.93015
V 292.401	4889.56	ppb	3.3068	0.1	154004	97.79116
Zn 206.200	2426.88	ppb	0.7062	0.0	4820.58	97.07510

E04052013.vvq. All Data Report 4/8/2013, 10:52:27 AM

Cont Calib Blank (CCB) 4/6/2013, 1:33:42 AM Rack 3, Tube 14  
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.6962	0.6202	0.4712
Al 308.215	9.2949	12.1151	12.1818
As 188.980	-4.7548u	1.4549	-4.2612u
B 249.678	10.4039	9.3373	8.3021
Ba 389.178	0.0250	1.4878	0.7359
Be 313.042	0.0590	0.0849	0.1052
Ca 370.602	5.706	10.97	18.13
Cd 226.502	0.1244	0.1226	0.0370
Co 228.615	0.5073	-0.8144u	0.0372
Cr 267.716	0.1895	0.6157	0.5689
Cu 324.754	0.3352	1.3536	1.7374
Fe 271.441	9.4972	14.3462	19.4141
K 766.491	9.7775	10.9239	12.7381
Mg 279.078	6.8563	8.8076	8.4522
Mn 257.610	-0.3297u	0.0582	0.4090
Mo 202.032	0.4901	0.6865	0.4525
Na 330.237	-90.6576u	56.1604	34.2543
Ni 231.604	-0.6295u	1.7646	0.2555
Pb 220.353	0.9720	1.3327	1.0898
Sb 206.834	1.0031	0.2876	-3.3485u
Se 196.026	5.9229	0.1019	7.8221
Sn 189.925	0.4923	-0.3479u	2.6111
Sr 216.596	0.1109	0.2380	0.8390
Ti 334.941	0.6447	0.7782	0.9083
Tl 190.794	5.6886	3.9565	5.8455
V 292.401	0.8149	0.7351	1.2455
Zn 206.200	0.6241	0.7057	-0.4047u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.5959	ppb	0.1144	19.2	-46.9364	0.59587
Al 308.215	11.1973	ppb	1.6478	14.7	45.2311	11.19727
As 188.980	-2.5203	ppb	3.4515	136.9	0.4350	-2.52034
B 249.678	9.3478	ppb	1.0509	11.2	173.439	9.34778
Ba 389.178	0.7496	ppb	0.7315	97.6	-14.2462	0.74956
Be 313.042	0.0830	ppb	0.0232	27.9	-160.411	0.08303
Ca 370.602	11.60	ppb	6.234	53.7	39.47	11.60162
Cd 226.502	0.0947	ppb	0.0499	52.7	12.8673	0.09467
Co 228.615	-0.0900	ppb	0.6699	744.6	3.2858	-0.08998
Cr 267.716	0.4580	ppb	0.2337	51.0	35.2584	0.45801
Cu 324.754	1.1420	ppb	0.7246	63.5	-59.6869	1.14205
Fe 271.441	14.4191	ppb	4.9588	34.4	28.7995	14.41915
K 766.491	11.1465	ppb	1.4928	13.4	813.765	11.14650
Mg 279.078	8.0387	ppb	1.0393	12.9	42.3136	8.03873
Mn 257.610	0.0458	ppb	0.3695	806.1	358.873	0.04584
Mo 202.032	0.5430	ppb	0.1257	23.1	14.2747	0.54303
Na 330.237	-0.0810	ppb	79.2027	97830.9	-1.6145	-0.08096
Ni 231.604	0.4635	ppb	1.2105	261.2	2.1020	0.46354
Pb 220.353	1.1315	ppb	0.1839	16.3	5.0954	1.13149
Sb 206.834	-0.6859	ppb	2.3334	340.2	2.2317	-0.68593
Se 196.026	4.6156	ppb	4.0227	87.2	3.8560	4.61562
Sn 189.925	0.9185	ppb	1.5249	166.0	-0.7853	0.91850
Sr 216.596	0.3960	ppb	0.3889	98.2	14.5424	0.39597
Ti 334.941	0.7771	ppb	0.1318	17.0	103.644	0.77709
Tl 190.794	5.1636	ppb	1.0483	20.3	2.8879	5.16356
V 292.401	0.9318	ppb	0.2745	29.5	27.6249	0.93184
Zn 206.200	0.3084	ppb	0.6189	200.7	48.3998	0.30838

E04052013.vvq. All Data Report 4/8/2013, 10:52:27 AM

680-88866-a-22-a (Samp) 4/6/2013, 1:40:08 AM Rack 3, Tube 15

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.5552u	0.0177u	0.1330u
Al 308.215	150021	149226	149722
As 188.980	110.523	114.678	118.494
B 249.678	49.0538	50.5694	51.2217
Ba 389.178	587.249	590.240	590.973
Be 313.042	10.6312	10.6032	10.6196
Ca 370.602	166852	166708	167425
Cd 226.502	-0.4690	-0.8311	-0.5395
Co 228.615	123.408	121.691	120.823
Cr 267.716	341.456	339.762	340.082
Cu 324.754	446.864	448.771	444.256
Fe 271.441	283688	282425	283538
K 766.491	89448.5x	89487.5x	90070.5x
Mg 279.078	144634	144489	144458
Mn 257.610	6060.59	6033.24	6047.58
Mo 202.032	103.081	102.322	102.561
Na 330.237	37143.4	37326.3	37299.7
Ni 231.604	196.980	194.986	196.605
Pb 220.353	113.540	114.359	119.758
Sb 206.834	-3.4925	3.3229	8.1751
Se 196.026	-4.7786	0.3101	-10.0302u
Sn 189.925	37.9562	38.2394	38.8191
Sr 216.596	2040.90	2033.17	2037.72
Ti 334.941	5286.50	5266.36	5279.23
Tl 190.794	21.1495u	9.0143u	19.0354u
V 292.401	653.002	648.745	652.025
Zn 206.200	690.688	690.511	692.697

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.2353b	ppb	0.2829	120.2	-145.014
Al 308.215	149656b	ppb	401.456	0.3	536704
As 188.980	114.565b	ppb	3.9866	3.5	86.1442
B 249.678	50.2816b	ppb	1.1122	2.2	325.731
Ba 389.178	589.487b	ppb	1.9731	0.3	17016.7
Be 313.042	10.6180b	ppb	0.0141	0.1	22029.7
Ca 370.602	166995b	ppb	379.1	0.2	634229
Cd 226.502	-0.6132b	ppb	0.1920	31.3	843.783
Co 228.615	121.974b	ppb	1.3157	1.1	1756.02
Cr 267.716	340.434b	ppb	0.8998	0.3	17899.6
Cu 324.754	446.631b	ppb	2.2665	0.5	23156.6
Fe 271.441	283217b	ppb	689.696	0.2	581892
K 766.491	89668.8xb	ppb	348.438	0.4	4821517
Mg 279.078	144527b	ppb	93.9749	0.1	377059
Mn 257.610	6047.14b	ppb	13.6828	0.2	1662835
Mo 202.032	102.654b	ppb	0.3880	0.4	867.985
Na 330.237	37256.4b	ppb	98.8342	0.3	2104.40
Ni 231.604	196.191b	ppb	1.0598	0.5	668.443
Pb 220.353	115.886b	ppb	3.3788	2.9	259.270
Sb 206.834	2.6685b	ppb	5.8612	219.6	15.0754
Se 196.026	-4.8329b	ppb	5.1704	107.0	2.0838
Sn 189.925	38.3382b	ppb	0.4399	1.1	37.2870
Sr 216.596	2037.26b	ppb	3.8843	0.2	27389.0
Ti 334.941	5277.36b	ppb	10.2008	0.2	1527820
Tl 190.794	16.3997b	ppb	6.4827	39.5	-27.1185
V 292.401	651.258b	ppb	2.2298	0.3	20620.2
Zn 206.200	691.299b	ppb	1.2138	0.2	1381.42

E04052013.vvq. All Data Report 4/8/2013, 10:52:27 AM

680-88866-a-23-a (Samp) 4/6/2013, 1:46:35 AM Rack 3, Tube 16

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.6167u	-0.0560u	-0.1533u
Al 308.215	197938	198614	200077
As 188.980	114.678	118.471	119.586
B 249.678	65.7967	67.7987	66.1373
Ba 389.178	779.984	782.077	780.892
Be 313.042	13.5481	13.5786	13.5947
Ca 370.602	194892	194454	194596
Cd 226.502	1.8604	1.8801	1.3430
Co 228.615	151.793	156.467	155.042
Cr 267.716	468.075	469.534	470.668
Cu 324.754	591.161	592.675	592.565
Fe 271.441	361453	361962	362161
K 766.491	107022x	107009x	106815x
Mg 279.078	178097	178375	178493
Mn 257.610	7124.78	7166.10	7159.75
Mo 202.032	88.5237	88.3357	88.0544
Na 330.237	43909.5	44106.2	43930.0
Ni 231.604	261.616	261.151	261.029
Pb 220.353	136.339	136.529	137.876
Sb 206.834	-8.7635	8.1027	1.7873
Se 196.026	-1.2762	4.9946	-14.0513u
Sn 189.925	24.8894	20.8499	18.5434
Sr 216.596	2203.35	2208.67	2221.00
Ti 334.941	7526.46	7543.76	7560.31
Tl 190.794	21.2025u	11.8133u	21.1013u
V 292.401	894.057	895.786	895.330
Zn 206.200	921.485	924.477	922.713

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.2753b	ppb	0.2996	108.8	-189.530
Al 308.215	198876b	ppb	1093.52	0.5	713212
As 188.980	117.578b	ppb	2.5730	2.2	87.7094
B 249.678	66.5776b	ppb	1.0711	1.6	427.959
Ba 389.178	780.984b	ppb	1.0496	0.1	22493.4
Be 313.042	13.5738b	ppb	0.0237	0.2	28255.5
Ca 370.602	194647b	ppb	223.3	0.1	736355
Cd 226.502	1.6945b	ppb	0.3046	18.0	1190.51
Co 228.615	154.434b	ppb	2.3952	1.6	2250.48
Cr 267.716	469.426b	ppb	1.2998	0.3	24664.9
Cu 324.754	592.134b	ppb	0.8442	0.1	30733.4
Fe 271.441	361859b	ppb	364.987	0.1	743470
K 766.491	106949xb	ppb	115.793	0.1	5750624
Mg 279.078	178322b	ppb	203.518	0.1	465224
Mn 257.610	7150.21b	ppb	22.2547	0.3	1966256
Mo 202.032	88.3046b	ppb	0.2362	0.3	740.232
Na 330.237	43981.9b	ppb	108.124	0.2	2461.48
Ni 231.604	261.265b	ppb	0.3096	0.1	889.569
Pb 220.353	136.914b	ppb	0.8378	0.6	304.375
Sb 206.834	0.3755b	ppb	8.5213	2269.4	16.1713
Se 196.026	-3.4443b	ppb	9.7063	281.8	3.7948
Sn 189.925	21.4276b	ppb	3.2122	15.0	20.1380
Sr 216.596	2211.01b	ppb	9.0563	0.4	29753.7
Ti 334.941	7543.51b	ppb	16.9242	0.2	2183797
Tl 190.794	18.0390b	ppb	5.3918	29.9	-36.1857
V 292.401	895.058b	ppb	0.8963	0.1	28357.6
Zn 206.200	922.892b	ppb	1.5040	0.2	4843.55

E04052013.wvq. All Data Report 4/8/2013, 10:52:27 AM

680-88866-a-24-a (Samp) 4/6/2013, 1:53:01 AM Rack 3, Tube 17

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.0558u	0.4019u	1.0990
Al 308.215	174872	175031	175345
As 188.980	113.071	115.001	114.026
B 249.678	54.2178	54.4825	55.7601
Ba 389.178	807.049	806.271	806.665
Be 313.042	10.7967	10.7996	10.8064
Ca 370.602	129890	129843	129986
Cd 226.502	3.4988	3.2519	3.2622
Co 228.615	137.810	137.252	137.247
Cr 267.716	372.871	372.944	372.869
Cu 324.754	526.411	525.701	529.420
Fe 271.441	290726	290971	291489
K 766.491	90204.5x	90541.2x	90755.9x
Mg 279.078	140657	140657	140538
Mn 257.610	5511.37	5511.84	5513.18
Mo 202.032	77.9975	78.5539	78.9353
Na 330.237	41024.0	40984.9	41092.3
Ni 231.604	229.266	227.218	231.428
Pb 220.353	252.616	251.251	247.069
Sb 206.834	0.2532	3.4958	6.4838
Se 196.026	-4.9918	-7.7708u	-11.1112u
Sn 189.925	100.775	100.579	103.082
Sr 216.596	1578.60	1580.59	1578.94
Ti 334.941	6381.96	6388.87	6383.20
Tl 190.794	12.4965u	21.4527u	16.3791u
V 292.401	732.922	733.202	733.930
Zn 206.200	921.759	920.692	919.415

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.5189b	ppb	0.5313	102.4	-100.918
Al 308.215	175083b	ppb	240.562	0.1	627885
As 188.980	114.033b	ppb	0.9650	0.8	85.2792
B 249.678	54.8202b	ppb	0.8247	1.5	371.397
Ba 389.178	806.662b	ppb	0.3887	0.0	22960.5
Be 313.042	10.8009b	ppb	0.0050	0.0	22403.5
Ca 370.602	129907b	ppb	73.10	0.1	486726
Cd 226.502	3.3377b	ppb	0.1397	4.2	1050.72
Co 228.615	137.436b	ppb	0.3240	0.2	1993.86
Cr 267.716	372.894b	ppb	0.0428	0.0	19596.2
Cu 324.754	527.177b	ppb	1.9745	0.4	27339.9
Fe 271.441	291062b	ppb	389.321	0.1	598014
K 766.491	90500.5xb	ppb	277.927	0.3	4866236
Mg 279.078	140617b	ppb	68.8310	0.0	366860
Mn 257.610	5512.13b	ppb	0.9428	0.0	1515943
Mo 202.032	78.4956b	ppb	0.4716	0.6	661.034
Na 330.237	41033.8b	ppb	54.3488	0.1	2318.61
Ni 231.604	229.304b	ppb	2.1054	0.9	780.102
Pb 220.353	250.312b	ppb	2.8901	1.2	562.289
Sb 206.834	3.4109b	ppb	3.1161	91.4	16.7939
Se 196.026	-7.9579b	ppb	3.0640	38.5	0.1285
Sn 189.925	101.479b	ppb	1.3920	1.4	101.355
Sr 216.596	1579.38b	ppb	1.0652	0.1	21270.3
Ti 334.941	6384.68b	ppb	3.6812	0.1	1848254
Tl 190.794	16.7761b	ppb	4.4913	26.8	-26.4520
V 292.401	733.352b	ppb	0.5201	0.1	23236.7
Zn 206.200	920.622b	ppb	1.1733	0.1	1829.40

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680-88866-a-25-a (Samp) 4/6/2013, 1:59:28 AM Rack 3, Tube 18

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	1.0969	1.4321	2.3185
Al 308.215	231921	230527	229677
As 188.980	298.304	297.013	293.384
B 249.678	176.910	177.893	179.355
Ba 389.178	2527.08	2525.52	2521.86
Be 313.042	13.7380	13.7292	13.7046
Ca 370.602	163653	162920	163136
Cd 226.502	37.6119	38.0082	38.4202
Co 228.615	205.054	205.230	206.272
Cr 267.716	525.553	521.937	520.748
Cu 324.754	1153.54	1162.65	1152.45
Fe 271.441	339696	339983	340158
K 766.491	108038x	108625x	108141x
Mg 279.078	156846	156873	156813
Mn 257.610	7766.64	7775.70	7770.98
Mo 202.032	98.2995	97.7191	97.4816
Na 330.237	64889.0	65176.1	65177.0
Ni 231.604	269.304	270.834	273.684
Pb 220.353	948.452	946.897	940.218
Sb 206.834	19.5175	23.0856	23.7101
Se 196.026	-1.3306	4.5054	-1.0318
Sn 189.925	150.884	148.933	153.116
Sr 216.596	1878.45	1869.70	1871.47
Ti 334.941	10232.1	10201.6	10181.2
Tl 190.794	28.6500u	29.6480u	28.6013u
V 292.401	878.330	877.851	877.549
Zn 206.200	1962.32	1967.23	1971.21

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	1.6158b	ppb	0.6312	39.1	-13.1985
Al 308.215	230709b	ppb	1133.08	0.5	827370
As 188.980	296.233b	ppb	2.5506	0.9	221.255
B 249.678	178.053b	ppb	1.2302	0.7	1808.77
Ba 389.178	2524.82b	ppb	2.6811	0.1	70107.1
Be 313.042	13.7239b	ppb	0.0173	0.1	28559.0
Ca 370.602	163236b	ppb	376.5	0.2	614736
Cd 226.502	38.0134b	ppb	0.4042	1.1	2809.72
Co 228.615	205.518b	ppb	0.6582	0.3	3002.99
Cr 267.716	522.746b	ppb	2.5025	0.5	27453.0
Cu 324.754	1156.22b	ppb	5.6010	0.5	60017.8
Fe 271.441	339946b	ppb	233.125	0.1	698460
K 766.491	108268xb	ppb	313.044	0.3	5821559
Mg 279.078	156844b	ppb	29.9845	0.0	409150
Mn 257.610	7771.10b	ppb	4.5345	0.1	2136437
Mo 202.032	97.8334b	ppb	0.4207	0.4	822.925
Na 330.237	65080.7b	ppb	166.019	0.3	3716.37
Ni 231.604	271.274b	ppb	2.2231	0.8	922.689
Pb 220.353	945.189b	ppb	4.3748	0.5	2133.13
Sb 206.834	22.1044b	ppb	2.2620	10.2	39.5677
Se 196.026	0.7143b	ppb	3.2866	460.1	6.2909
Sn 189.925	150.978b	ppb	2.0932	1.4	151.620
Sr 216.596	1873.21b	ppb	4.6231	0.2	25224.1
Ti 334.941	10205.0b	ppb	25.6240	0.3	2953914
Tl 190.794	28.9664b	ppb	0.5908	2.0	-20.7460
V 292.401	877.910b	ppb	0.3941	0.0	27857.0
Zn 206.200	1966.92b	ppb	4.4509	0.2	3928.95



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680-88866-a-26-a (Samp)      4/6/2013, 2:05:54 AM      Rack 3, Tube 19  
 Weight: 1      Volume: 1      Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.7242	0.5537u	0.2870u
Al 308.215	186575	186414	186982
As 188.980	160.423	162.657	164.902
B 249.678	110.192	110.640	110.164
Ba 389.178	1305.31	1300.87	1302.38
Be 313.042	12.5122	12.4849	12.4926
Ca 370.602	198053	196809	197693
Cd 226.502	15.1912	14.8296	14.7877
Co 228.615	150.473	148.971	149.657
Cr 267.716	426.384	425.536	427.219
Cu 324.754	719.376	714.255	715.944
Fe 271.441	330732	329224	328071
K 766.491	91969.9x	91307.0x	91386.1x
Mg 279.078	151326	150437	150821
Mn 257.610	8086.26	8068.43	8077.54
Mo 202.032	61.8437	61.6546	61.9016
Na 330.237	32340.5	32081.1	32572.3
Ni 231.604	243.097	237.582	239.285
Pb 220.353	348.723	355.134	352.528
Sb 206.834	8.1807	1.6301	15.5091
Se 196.026	-5.4418	2.6713	-2.7523
Sn 189.925	81.2101	88.1689	85.8756
Sr 216.596	1914.71	1909.74	1912.00
Ti 334.941	7923.19	7912.07	7931.53
Tl 190.794	27.9173u	23.4987u	23.6979u
V 292.401	822.779	820.136	821.435
Zn 206.200	1459.59	1450.58	1450.51

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.5217b	ppb	0.2203	42.2	-103.252
Al 308.215	186657b	ppb	292.922	0.2	669391
As 188.980	162.661b	ppb	2.2394	1.4	121.852
B 249.678	110.332b	ppb	0.2672	0.2	998.664
Ba 389.178	1302.85b	ppb	2.2568	0.2	36634.0
Be 313.042	12.4966b	ppb	0.0141	0.1	25998.6
Ca 370.602	197518b	ppb	640.0	0.3	751108
Cd 226.502	14.9362b	ppb	0.2219	1.5	1707.05
Co 228.615	149.700b	ppb	0.7520	0.5	2199.99
Cr 267.716	426.379b	ppb	0.8414	0.2	22413.9
Cu 324.754	716.525b	ppb	2.6093	0.4	37182.6
Fe 271.441	329343b	ppb	1334.23	0.4	676665
K 766.491	91554.4xb	ppb	362.045	0.4	4922898
Mg 279.078	150862b	ppb	445.957	0.3	393545
Mn 257.610	8077.41b	ppb	8.9155	0.1	2220437
Mo 202.032	61.7999b	ppb	0.1292	0.2	515.963
Na 330.237	32331.3b	ppb	245.761	0.8	1758.07
Ni 231.604	239.988b	ppb	2.8238	1.2	817.100
Pb 220.353	352.128b	ppb	3.2241	0.9	792.389
Sb 206.834	8.4400b	ppb	6.9432	82.3	24.0202
Se 196.026	-1.8409b	ppb	4.1326	224.5	4.7984
Sn 189.925	85.0849b	ppb	3.5461	4.2	84.7445
Sr 216.596	1912.15b	ppb	2.4895	0.1	25745.8
Ti 334.941	7922.26b	ppb	9.7661	0.1	2293274
Tl 190.794	25.0380b	ppb	2.4955	10.0	-25.2294
V 292.401	821.450b	ppb	1.3215	0.2	26047.6
Zn 206.200	1453.56b	ppb	5.2213	0.4	2003.82

E04052013.wvq. All Data Report 4/8/2013, 10:52:27 AM

680-88866-a-27-a (Samp) 4/6/2013, 2:12:20 AM Rack 3, Tube 20

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.7216u	-0.7741u	-0.5871u
Al 308.215	283971	283636	281565
As 188.980	162.001	153.122	153.210
B 249.678	62.0680	62.1409	61.9643
Ba 389.178	1157.53	1159.95	1156.85
Be 313.042	16.2173	16.2128	16.2114
Ca 370.602	226657	226676	226426
Cd 226.502	3.4654	4.0678	4.0057
Co 228.615	188.639	189.375	188.990
Cr 267.716	526.058	525.887	522.702
Cu 324.754	781.099	777.181	771.124
Fe 271.441	421514	421404	421419
K 766.491	121637x	121513x	121928x
Mg 279.078	199959	200526	199379
Mn 257.610	8888.30	8895.62	8897.68
Mo 202.032	102.437	103.495	103.160
Na 330.237	73655.3	73502.2	73569.6
Ni 231.604	303.103	303.151	304.738
Pb 220.353	238.908	235.260	230.910
Sb 206.834	-6.7643	-3.0357	4.4075
Se 196.026	-8.6077	3.2535	-4.9066
Sn 189.925	41.5870	41.1007	37.4257
Sr 216.596	2456.39	2453.78	2445.77
Ti 334.941	9571.86	9577.79	9543.07
Tl 190.794	26.6010u	21.6233u	22.1190u
V 292.401	1071.61	1071.12	1072.29
Zn 206.200	1253.00	1265.41	1260.61

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.6943b	ppb	0.0965	13.9	-225.646
Al 308.215	283057b	ppb	1303.40	0.5	1015101
As 188.980	156.111b	ppb	5.1012	3.3	116.097
B 249.678	62.0577b	ppb	0.0887	0.1	300.202
Ba 389.178	1158.11b	ppb	1.6299	0.1	32979.6
Be 313.042	16.2138b	ppb	0.0031	0.0	33816.7
Ca 370.602	226586b	ppb	139.6	0.1	857335
Cd 226.502	3.8463b	ppb	0.3313	8.6	1472.40
Co 228.615	189.001b	ppb	0.3682	0.2	2763.06
Cr 267.716	524.883b	ppb	1.8900	0.4	27588.8
Cu 324.754	776.468b	ppb	5.0256	0.6	40322.2
Fe 271.441	421446b	ppb	59.2589	0.0	865899
K 766.491	121693xb	ppb	213.013	0.2	6543370
Mg 279.078	199955b	ppb	573.551	0.3	521625
Mn 257.610	8893.87b	ppb	4.9295	0.1	2445359
Mo 202.032	103.030b	ppb	0.5409	0.5	862.038
Na 330.237	73575.7b	ppb	76.7361	0.1	4215.06
Ni 231.604	303.664b	ppb	0.9304	0.3	1033.89
Pb 220.353	235.026b	ppb	4.0040	1.7	523.723
Sb 206.834	-1.7975b	ppb	5.6879	316.4	15.6976
Se 196.026	-3.4203b	ppb	6.0687	177.4	4.7577
Sn 189.925	40.0378b	ppb	2.2752	5.7	39.0537
Sr 216.596	2451.98b	ppb	5.5363	0.2	33006.6
Ti 334.941	9564.24b	ppb	18.5745	0.2	2768692
Tl 190.794	23.4478b	ppb	2.7420	11.7	-39.4773
V 292.401	1071.67b	ppb	0.5878	0.1	33965.4
Zn 206.200	1259.67b	ppb	6.2548	0.5	4516.11

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680-88866-a-28-a (Samp)      4/6/2013, 2:18:47 AM      Rack 3, Tube 21  
 Weight: 1      Volume: 1      Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.5927u	-0.5250u	-0.3494u
Al 308.215	218366	218718	219592
As 188.980	164.596	168.271	158.765
B 249.678	65.1010	67.1641	66.3296
Ba 389.178	1473.08	1474.35	1473.64
Be 313.042	14.6780	14.6811	14.6959
Ca 370.602	181890	182036	182168
Cd 226.502	7.2469	7.2880	7.0492
Co 228.615	186.762	186.528	186.519
Cr 267.716	502.734	504.067	506.501
Cu 324.754	713.120	720.081	717.665
Fe 271.441	401075	401554	401250
K 766.491	95147.7x	95183.0x	94759.3x
Mg 279.078	168588	168950	168951
Mn 257.610	8818.63	8833.48	8845.22
Mo 202.032	88.4818	88.2714	87.2996
Na 330.237	14831.8	14910.5	14655.1
Ni 231.604	310.731	312.994	310.636
Pb 220.353	395.307	399.682	393.340
Sb 206.834	-3.0854	5.6220	1.8605
Se 196.026	-3.0392	-10.7090u	-2.4675
Sn 189.925	122.543	125.053	118.648
Sr 216.596	1877.85	1883.42	1891.56
Ti 334.941	9575.73	9592.13	9626.86
Tl 190.794	26.8819u	13.0282u	25.6435u
V 292.401	926.437	926.972	928.017
Zn 206.200	1268.27	1274.04	1275.69

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.4890b	ppb	0.1256	25.7	-181.994
Al 308.215	218892b	ppb	631.404	0.3	784992
As 188.980	163.877b	ppb	4.7936	2.9	121.708
B 249.678	66.1982b	ppb	1.0378	1.6	374.936
Ba 389.178	1473.69b	ppb	0.6390	0.0	41485.5
Be 313.042	14.6850b	ppb	0.0096	0.1	30593.7
Ca 370.602	182031b	ppb	139.2	0.1	682850
Cd 226.502	7.1947b	ppb	0.1277	1.8	1566.63
Co 228.615	186.603b	ppb	0.1375	0.1	2733.31
Cr 267.716	504.434b	ppb	1.9098	0.4	26515.0
Cu 324.754	716.955b	ppb	3.5344	0.5	37226.8
Fe 271.441	401293b	ppb	242.745	0.1	824494
K 766.491	95030.0xb	ppb	235.072	0.2	5109776
Mg 279.078	168829b	ppb	209.119	0.1	440422
Mn 257.610	8832.44b	ppb	13.3242	0.2	2428131
Mo 202.032	88.0176b	ppb	0.6306	0.7	735.349
Na 330.237	14799.1b	ppb	130.790	0.9	654.552
Ni 231.604	311.454b	ppb	1.3347	0.4	1059.54
Pb 220.353	396.110b	ppb	3.2463	0.8	890.187
Sb 206.834	1.4657b	ppb	4.3671	298.0	18.7424
Se 196.026	-5.4052b	ppb	4.6021	85.1	3.4206
Sn 189.925	122.081b	ppb	3.2276	2.6	122.277
Sr 216.596	1884.28b	ppb	6.8934	0.4	25405.3
Ti 334.941	9598.24b	ppb	26.1106	0.3	2778387
Tl 190.794	21.8512b	ppb	7.6660	35.1	-39.1307
V 292.401	927.142b	ppb	0.8037	0.1	29405.4
Zn 206.200	1272.67b	ppb	3.8983	0.3	4542.14

E04052013.wvq. All Data Report 4/8/2013, 10:52:27 AM

680-88866-a-29-a (Samp) 4/6/2013, 2:25:13 AM Rack 3, Tube 22

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-1.6332u	-1.0115u	-0.9195u
Al 308.215	221165	219988	221075
As 188.980	132.545	136.977	135.860
B 249.678	68.2048	67.4976	67.0335
Ba 389.178	932.628	930.879	933.561
Be 313.042	15.6221	15.5908	15.5960
Ca 370.602	237925	237154	237731
Cd 226.502	4.2668	4.1904	3.9834
Co 228.615	176.749	172.181	179.008
Cr 267.716	502.156	501.589	503.958
Cu 324.754	670.924	674.179	674.239
Fe 271.441	404731	403332	403814
K 766.491	117892x	117721x	118117x
Mg 279.078	205669	205040	205290
Mn 257.610	8479.06	8465.43	8477.42
Mo 202.032	74.3977	73.1077	73.9176
Na 330.237	36754.8	36497.3	36910.2
Ni 231.604	281.718	284.781	281.339
Pb 220.353	174.483	170.511	172.952
Sb 206.834	-5.8709	5.2210	-7.7839
Se 196.026	-12.4053u	-7.2360	-23.9774u
Sn 189.925	26.5839	34.4550	27.2331
Sr 216.596	2578.49	2571.91	2575.46
Ti 334.941	9624.48	9604.95	9629.31
Tl 190.794	15.0211u	23.5790u	21.9981u
V 292.401	1020.27	1017.24	1018.42
Zn 206.200	1166.69	1164.61	1169.08

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.1881b	ppb	0.3882	32.7	-274.709
Al 308.215	220743b	ppb	655.060	0.3	791627
As 188.980	135.128b	ppb	2.3048	1.7	100.736
B 249.678	67.5786b	ppb	0.5898	0.9	388.341
Ba 389.178	932.356b	ppb	1.3613	0.1	26789.2
Be 313.042	15.6030b	ppb	0.0168	0.1	32541.1
Ca 370.602	237603b	ppb	401.2	0.2	902739
Cd 226.502	4.1469b	ppb	0.1466	3.5	1434.10
Co 228.615	175.979b	ppb	3.4782	2.0	2593.99
Cr 267.716	502.567b	ppb	1.2373	0.2	26416.1
Cu 324.754	673.114b	ppb	1.8967	0.3	34949.8
Fe 271.441	403959b	ppb	710.806	0.2	829970
K 766.491	117910xb	ppb	198.468	0.2	6339996
Mg 279.078	205333b	ppb	316.325	0.2	535687
Mn 257.610	8473.97b	ppb	7.4402	0.1	2330075
Mo 202.032	73.8077b	ppb	0.6520	0.9	613.633
Na 330.237	36720.8b	ppb	208.560	0.6	1984.92
Ni 231.604	282.613b	ppb	1.8875	0.7	962.558
Pb 220.353	172.649b	ppb	2.0035	1.2	383.783
Sb 206.834	-2.8112b	ppb	7.0216	249.8	14.3556
Se 196.026	-14.5396b	ppb	8.5724	59.0	-2.0743
Sn 189.925	29.4240b	ppb	4.3691	14.8	28.2708
Sr 216.596	2575.29b	ppb	3.2942	0.1	34648.6
Ti 334.941	9619.58b	ppb	12.8997	0.1	2784729
Tl 190.794	20.1994b	ppb	4.5537	22.5	-40.8496
V 292.401	1018.64b	ppb	1.5278	0.1	32300.0
Zn 206.200	1166.80b	ppb	2.2369	0.2	2320.66

E04052013.vvq. All Data Report 4/8/2013, 10:52:27 AM

680-88866-a-30-a (Samp) 4/6/2013, 2:31:39 AM Rack 3, Tube 23

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.5435u	-0.4390u	-0.1211u
Al 308.215	194918	194817	193830
As 188.980	147.400	152.237	149.824
B 249.678	65.6656	67.5757	69.5115
Ba 389.178	829.176	827.366	830.584
Be 313.042	13.4982	13.5304	13.4921
Ca 370.602	244129	244062	244098
Cd 226.502	-0.2542	-0.2134	0.0898
Co 228.615	175.258	177.781	175.904
Cr 267.716	461.107	461.014	460.892
Cu 324.754	584.205	588.143	585.991
Fe 271.441	389378	390404	390434
K 766.491	107883x	107731x	107508x
Mg 279.078	197550	197450	197812
Mn 257.610	8412.01	8440.23	8451.22
Mo 202.032	166.845	167.525	168.056
Na 330.237	32030.9	31924.9	31866.8
Ni 231.604	270.918	266.900	266.449
Pb 220.353	138.894	144.343	144.314
Sb 206.834	-3.9011	-4.4597	-8.0096
Se 196.026	2.7952	1.7148	11.3280
Sn 189.925	29.8708	24.6755	24.9432
Sr 216.596	2580.46	2584.42	2578.82
Ti 334.941	8577.64	8579.78	8542.03
Tl 190.794	21.3315u	23.8639u	13.6215u
V 292.401	975.088	977.590	978.427
Zn 206.200	991.835	984.947	989.192

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.3679b	ppb	0.2200	59.8	-208.941
Al 308.215	194522b	ppb	600.842	0.3	697601
As 188.980	149.820b	ppb	2.4182	1.6	111.941
B 249.678	67.5843b	ppb	1.9230	2.8	405.790
Ba 389.178	829.042b	ppb	1.6132	0.2	23915.6
Be 313.042	13.5069b	ppb	0.0206	0.2	28115.5
Ca 370.602	244096b	ppb	33.33	0.0	929676
Cd 226.502	-0.1259b	ppb	0.1879	149.3	1192.28
Co 228.615	176.314b	ppb	1.3108	0.7	2564.17
Cr 267.716	461.004b	ppb	0.1077	0.0	24239.5
Cu 324.754	586.113b	ppb	1.9717	0.3	30430.9
Fe 271.441	390072b	ppb	601.519	0.2	801438
K 766.491	107708xb	ppb	188.637	0.2	5791425
Mg 279.078	197604b	ppb	186.689	0.1	515524
Mn 257.610	8434.49b	ppb	20.2268	0.2	2319116
Mo 202.032	167.475b	ppb	0.6067	0.4	1414.46
Na 330.237	31940.9b	ppb	83.2068	0.3	1711.02
Ni 231.604	268.089b	ppb	2.4602	0.9	913.287
Pb 220.353	142.517b	ppb	3.1375	2.2	316.710
Sb 206.834	-5.4568b	ppb	2.2284	40.8	9.2992
Se 196.026	5.2793b	ppb	5.2661	99.7	9.5472
Sn 189.925	26.4965b	ppb	2.9253	11.0	25.3015
Sr 216.596	2581.23b	ppb	2.8777	0.1	34717.6
Ti 334.941	8566.48b	ppb	21.2022	0.2	2479932
Tl 190.794	19.6056b	ppb	5.3348	27.2	-39.9331
V 292.401	977.035b	ppb	1.7375	0.2	30948.1
Zn 206.200	988.658b	ppb	3.4748	0.4	1974.96

E04052013.vvq. All Data Report 4/8/2013, 10:52:27 AM

680-88866-a-31-a (Samp) 4/6/2013, 2:38:06 AM Rack 3, Tube 24  
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.3342u	-1.0351u	-0.2751u
Al 308.215	198478	198834	199453
As 188.980	89.8554	101.409	93.1657
B 249.678	60.0517	57.5714	57.8997
Ba 389.178	1026.44	1027.41	1031.23
Be 313.042	13.1375	13.1567	13.1856
Ca 370.602	203908	203763	205461
Cd 226.502	-0.2606	-0.4366	-0.2235
Co 228.615	147.289	144.760	149.167
Cr 267.716	424.004	424.087	425.585
Cu 324.754	505.320	506.223	513.412
Fe 271.441	336055	336041	337006
K 766.491	93897.6x	94135.9x	94406.7x
Mg 279.078	151079	151042	151671
Mn 257.610	7320.80	7337.51	7349.29
Mo 202.032	88.3960	88.5406	88.7436
Na 330.237	26434.2	26615.0	26627.9
Ni 231.604	237.517	239.370	239.765
Pb 220.353	144.397	143.165	144.934
Sb 206.834	2.9404	-8.7229	-0.7676
Se 196.026	-3.2102	-13.7131u	-5.7190
Sn 189.925	26.2136	26.3135	27.7724
Sr 216.596	1826.70	1832.33	1837.12
Ti 334.941	8107.73	8122.62	8145.27
Tl 190.794	25.9811u	18.7625u	16.5058u
V 292.401	820.247	821.251	823.708
Zn 206.200	965.587	965.653	971.149

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.5482b	ppb	0.4228	77.1	-191.937
Al 308.215	198922b	ppb	493.127	0.2	713376
As 188.980	94.8102b	ppb	5.9499	6.3	71.0933
B 249.678	58.5076b	ppb	1.3473	2.3	360.996
Ba 389.178	1028.36b	ppb	2.5326	0.2	29135.9
Be 313.042	13.1599b	ppb	0.0242	0.2	27395.1
Ca 370.602	204378b	ppb	941.3	0.5	777642
Cd 226.502	-0.3069b	ppb	0.1138	37.1	1019.66
Co 228.615	147.072b	ppb	2.2116	1.5	2170.73
Cr 267.716	424.559b	ppb	0.8895	0.2	22317.5
Cu 324.754	508.318b	ppb	4.4343	0.9	26374.0
Fe 271.441	336368b	ppb	553.398	0.2	691097
K 766.491	94146.7xb	ppb	254.693	0.3	5062283
Mg 279.078	151264b	ppb	352.880	0.2	394608
Mn 257.610	7335.87b	ppb	14.3175	0.2	2016881
Mo 202.032	88.5601b	ppb	0.1746	0.2	744.092
Na 330.237	26559.1b	ppb	108.305	0.4	1407.64
Ni 231.604	238.884b	ppb	1.2004	0.5	813.565
Pb 220.353	144.165b	ppb	0.9070	0.6	320.476
Sb 206.834	-2.1834b	ppb	5.9591	272.9	12.2780
Se 196.026	-7.5474b	ppb	5.4850	72.7	1.2391
Sn 189.925	26.7665b	ppb	0.8725	3.3	25.5545
Sr 216.596	1832.05b	ppb	5.2121	0.3	24678.4
Ti 334.941	8125.21b	ppb	18.9006	0.2	2352009
Tl 190.794	20.4164b	ppb	4.9494	24.2	-30.5216
V 292.401	821.735b	ppb	1.7806	0.2	26054.5
Zn 206.200	967.463b	ppb	3.1925	0.3	1932.77

Cont Calib Verif (CCV) 4/6/2013, 2:44:32 AM Rack 3, Tube 25  
Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	503.612	502.419	503.545
Al 308.215	5049.60	5171.43	5215.61
As 188.980	487.704	484.887	482.609
B 249.678	507.636	512.874	513.311
Ba 389.178	4779.45	4801.93	4786.12
Be 313.042	479.739	481.461	480.266
Ca 370.602	5041	5178	5237
Cd 226.502	474.665	475.404	474.932
Co 228.615	483.757	488.322	488.416
Cr 267.716	4866.93	4882.63	4858.12
Cu 324.754	4695.20	4784.77	4705.75
Fe 271.441	5173.87	5389.54	5496.38
K 766.491	9911.21	10023.9	10046.4
Mg 279.078	4978.05	5068.88	5100.39
Mn 257.610	4793.04	4836.87	4812.40
Mo 202.032	490.183	491.522	490.507
Na 330.237	7182.54	7345.46	7177.11
Ni 231.604	2372.42	2367.24	2409.63
Pb 220.353	489.358	491.581	490.534
Sb 206.834	975.091	976.098	966.587
Se 196.026	4821.74	4845.91	4819.21
Sn 189.925	4906.98	4898.44	4871.30
Sr 216.596	2384.36	2390.28	2378.20
Ti 334.941	499.419	505.724	507.108
Tl 190.794	4924.69	4927.08	4913.20
V 292.401	4846.48	4871.87	4853.27
Zn 206.200	2406.70	2406.96	2408.55

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	503.192	ppb	0.6700	0.1	41325.2	100.63841
Al 308.215	5145.55	ppb	85.9825	1.7	18445.0	102.91093
As 188.980	485.067	ppb	2.5523	0.5	364.882	97.01332
B 249.678	511.274	ppb	3.1578	0.6	6265.19	20.45096Q
Ba 389.178	4789.17	ppb	11.5427	0.2	131049	95.78332
Be 313.042	480.489	ppb	0.8823	0.2	1010909	96.09772
Ca 370.602	5152	ppb	100.7	2.0	20201	103.03842
Cd 226.502	475.000	ppb	0.3741	0.1	22070.0	95.00007
Co 228.615	486.832	ppb	2.6630	0.5	6435.18	97.36636
Cr 267.716	4869.23	ppb	12.4143	0.3	254285	97.38451
Cu 324.754	4728.57	ppb	48.9554	1.0	245384	94.57150
Fe 271.441	5353.27	ppb	164.285	3.1	11142.5	107.06532
K 766.491	9993.83	ppb	72.4370	0.7	537562	99.93832
Mg 279.078	5049.11	ppb	63.5207	1.3	13099.4	100.98218
Mn 257.610	4814.10	ppb	21.9683	0.5	1322071	96.28204
Mo 202.032	490.737	ppb	0.6987	0.1	4189.18	98.14738
Na 330.237	7235.04	ppb	95.6701	1.3	409.766	96.46718
Ni 231.604	2383.10	ppb	23.1258	1.0	8020.75	95.32386
Pb 220.353	490.491	ppb	1.1119	0.2	1113.64	98.09821
Sb 206.834	972.592	ppb	5.2250	0.5	1103.78	97.25923
Se 196.026	4828.95	ppb	14.7399	0.3	2862.11	96.57899
Sn 189.925	4892.24	ppb	18.6302	0.4	4963.71	97.84483
Sr 216.596	2384.28	ppb	6.0396	0.3	31799.5	95.37131
Ti 334.941	504.084	ppb	4.0985	0.8	145781	100.81672
Tl 190.794	4921.66	ppb	7.4189	0.2	6321.56	98.43314
V 292.401	4857.21	ppb	13.1420	0.3	152985	97.14414
Zn 206.200	2407.40	ppb	1.0945	0.0	4791.80	96.29611

E04052013.vvq. All Data Report 4/8/2013, 10:52:27 AM

Cont Calib Blank (CCB) 4/6/2013, 2:50:59 AM Rack 3, Tube 26

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.3210	0.6384	1.2655
Al 308.215	10.8308	19.9388	34.2049
As 188.980	-6.2410u	-8.5418u	-4.7553u
B 249.678	10.6177	9.8012	7.7973
Ba 389.178	0.9005	1.5223	2.4488
Be 313.042	0.0841	0.1106	0.1800
Ca 370.602	15.32	21.76	40.12
Cd 226.502	0.1473	0.1849	0.1157
Co 228.615	-0.1813u	-0.4275u	-0.0117u
Cr 267.716	0.5276	0.8421	1.6841
Cu 324.754	0.9902	0.9815	2.0168
Fe 271.441	34.3623	32.3803	65.2241
K 766.491	15.1389	16.3826	25.0403
Mg 279.078	13.8195	16.8207	37.6670
Mn 257.610	0.4003	0.9173	2.3036
Mo 202.032	0.7457	0.7058	0.3286
Na 330.237	-48.1499u	166.358	165.439
Ni 231.604	0.1179	2.2797	1.4258
Pb 220.353	1.4419	-1.0191u	1.9709
Sb 206.834	-3.2448u	-4.0076u	-0.6963u
Se 196.026	-3.5713u	3.0298	8.2643
Sn 189.925	-1.6155u	2.8847	2.6982
Sr 216.596	0.2498	0.8552	1.5899
Ti 334.941	1.0681	1.2241	2.0116
Tl 190.794	7.4936	7.5066	10.8742
V 292.401	1.1486	1.4912	2.1713
Zn 206.200	-0.2859u	0.0729	2.0032

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.7416	ppb	0.4806	64.8	-34.9498	0.74163
Al 308.215	21.6581	ppb	11.7816	54.4	82.7292	21.65815
As 188.980	-6.5127	ppb	1.9078	29.3	-2.5507	-6.51266
B 249.678	9.4054	ppb	1.4513	15.4	174.104	9.40543
Ba 389.178	1.6238	ppb	0.7791	48.0	9.7711	1.62384
Be 313.042	0.1249	ppb	0.0495	39.7	-72.2979	0.12489
Ca 370.602	25.74	ppb	12.87	50.0	92.76	25.73538
Cd 226.502	0.1493	ppb	0.0346	23.2	15.4897	0.14931
Co 228.615	-0.2068	ppb	0.2091	101.1	1.7688	-0.20682
Cr 267.716	1.0179	ppb	0.5980	58.7	64.5094	1.01793
Cu 324.754	1.3295	ppb	0.5953	44.8	-49.9552	1.32949
Fe 271.441	43.9889	ppb	18.4169	41.9	89.4983	43.98891Z
K 766.491	18.8540	ppb	5.3935	28.6	1228.18	18.85395
Mg 279.078	22.7691	ppb	12.9890	57.0	80.7310	22.76907
Mn 257.610	1.2071	ppb	0.9842	81.5	677.912	1.20707
Mo 202.032	0.5934	ppb	0.2302	38.8	14.7013	0.59337
Na 330.237	94.5491	ppb	123.582	130.7	4.1125	94.54911
Ni 231.604	1.2744	ppb	1.0888	85.4	4.8318	1.27444
Pb 220.353	0.7979	ppb	1.5957	200.0	4.3395	0.79791
Sb 206.834	-2.6495	ppb	1.7340	65.4	0.1175	-2.64952
Se 196.026	2.5743	ppb	5.9309	230.4	2.6477	2.57426
Sn 189.925	1.3225	ppb	2.5461	192.5	-0.3753	1.32245
Sr 216.596	0.8983	ppb	0.6711	74.7	21.2565	0.89829
Ti 334.941	1.4346	ppb	0.5057	35.3	293.992	1.43461
Tl 190.794	8.6248	ppb	1.9481	22.6	7.3357	8.62480
V 292.401	1.6037	ppb	0.5205	32.5	48.8495	1.60368
Zn 206.200	0.5967	ppb	1.2312	206.3	48.9739	0.59671



E04052013.wvq. All Data Report 4/8/2013, 10:52:27 AM

680-88866-a-32-a (Samp) 4/6/2013, 2:57:26 AM Rack 3, Tube 27

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.4837u	0.0090u	0.9916
Al 308.215	196956	196020	194879
As 188.980	235.249	239.422	231.387
B 249.678	40.8810u	42.2706	41.4879u
Ba 389.178	731.733	730.064	734.423
Be 313.042	12.6119	12.6052	12.5629
Ca 370.602	183448	182320	182982
Cd 226.502	-0.7253	-0.5979	-0.6191
Co 228.615	174.311	172.225	175.046
Cr 267.716	427.449	425.721	424.510
Cu 324.754	583.079	579.476	578.478
Fe 271.441	414774	413922	412921
K 766.491	101397x	103984x	104296x
Mg 279.078	171410	170573	170511
Mn 257.610	7486.46	7458.04	7449.78
Mo 202.032	152.409	152.741	153.219
Na 330.237	47422.3	47432.4	47161.7
Ni 231.604	281.772	280.336	280.456
Pb 220.353	216.936	215.554	218.484
Sb 206.834	-5.5464	4.8306	0.3250
Se 196.026	1.9047	-0.1747	3.7510
Sn 189.925	31.7428	25.0163	32.4727
Sr 216.596	2121.08	2114.17	2106.95
Ti 334.941	7430.68	7416.28	7398.45
Tl 190.794	24.2024u	17.5085u	21.3907u
V 292.401	855.363	852.976	852.036
Zn 206.200	939.020	930.085	934.942

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.4948b	ppb	0.4914	99.3	-119.552
Al 308.215	195952b	ppb	1040.37	0.5	702729
As 188.980	235.353b	ppb	4.0185	1.7	174.995
B 249.678	41.5465b	ppb	0.6966	1.7	60.5908
Ba 389.178	732.073b	ppb	2.1993	0.3	21219.5
Be 313.042	12.5933b	ppb	0.0266	0.2	26175.7
Ca 370.602	182916b	ppb	567.0	0.3	684566
Cd 226.502	-0.6474b	ppb	0.0683	10.5	1239.53
Co 228.615	173.860b	ppb	1.4632	0.8	2497.54
Cr 267.716	425.893b	ppb	1.4772	0.3	22406.5
Cu 324.754	580.345b	ppb	2.4204	0.4	30139.6
Fe 271.441	413872b	ppb	927.565	0.2	850334
K 766.491	103226xb	ppb	1591.32	1.5	5550446
Mg 279.078	170831b	ppb	502.183	0.3	445684
Mn 257.610	7464.76b	ppb	19.2455	0.3	2052708
Mo 202.032	152.790b	ppb	0.4074	0.3	1287.92
Na 330.237	47338.8b	ppb	153.465	0.3	2648.03
Ni 231.604	280.855b	ppb	0.7969	0.3	956.882
Pb 220.353	216.991b	ppb	1.4660	0.7	485.970
Sb 206.834	-0.1303b	ppb	5.2034	3994.4	15.4735
Se 196.026	1.8270b	ppb	1.9640	107.5	7.3782
Sn 189.925	29.7439b	ppb	4.1105	13.8	28.5726
Sr 216.596	2114.07b	ppb	7.0663	0.3	28480.0
Ti 334.941	7415.14b	ppb	16.1456	0.2	2146618
Tl 190.794	21.0339b	ppb	3.3612	16.0	-39.0918
V 292.401	853.458b	ppb	1.7156	0.2	27029.2
Zn 206.200	934.682b	ppb	4.4735	0.5	4867.28

E04052013.vvq. All Data Report 4/8/2013, 10:52:27 AM

680-88866-a-33-a (Samp) 4/6/2013, 3:03:52 AM Rack 3, Tube 28

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.0370u	-0.1194u	0.3473u
Al 308.215	237728	236291	219276
As 188.980	166.595	163.361	161.480
B 249.678	69.5614	72.3738	69.4821
Ba 389.178	1148.12	1146.24	1066.33
Be 313.042	14.7912	14.7752	13.7421
Ca 370.602	224092	224132	207359
Cd 226.502	6.1221	5.8401	3.7973
Co 228.615	183.739	185.494	175.242
Cr 267.716	510.514	509.372	473.004
Cu 324.754	809.965	810.613	712.697
Fe 271.441	392747	393800	369166
K 766.491	116889x	116522x	109379x
Mg 279.078	201159	200422	186812
Mn 257.610	7839.45	7831.60	7375.17
Mo 202.032	143.120	143.986	134.570
Na 330.237	58731.9	58590.3	54219.8
Ni 231.604	306.114	305.329	283.391
Pb 220.353	331.775	330.952	309.993
Sb 206.834	-1.9971	5.4002	2.6608
Se 196.026	-15.8933u	3.6217	-9.1504u
Sn 189.925	100.323	94.8586	88.4958
Sr 216.596	2525.90	2513.94	2346.84
Ti 334.941	9067.10	9025.79	8379.54
Tl 190.794	16.4259u	23.0882u	21.6817u
V 292.401	988.662	987.295	917.646
Zn 206.200	1486.79	1481.44	1389.32

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0883b	ppb	0.2375	269.0	-169.177
Al 308.215	231098b	ppb	10264.0	4.4	828771
As 188.980	163.812b	ppb	2.5872	1.6	122.216
B 249.678	70.4724b	ppb	1.6471	2.3	446.622
Ba 389.178	1120.23b	ppb	46.6860	4.2	31870.3
Be 313.042	14.4362b	ppb	0.6011	4.2	30067.8
Ca 370.602	218528b	ppb	9673	4.4	828886
Cd 226.502	5.2532b	ppb	1.2686	24.2	1427.43
Co 228.615	181.492b	ppb	5.4833	3.0	2641.89
Cr 267.716	497.630b	ppb	21.3341	4.3	26149.0
Cu 324.754	777.758b	ppb	56.3458	7.2	40380.2
Fe 271.441	385238b	ppb	13928.6	3.6	791508
K 766.491	114263xb	ppb	4234.24	3.7	6143908
Mg 279.078	196131b	ppb	8078.90	4.1	511681
Mn 257.610	7682.07b	ppb	265.814	3.5	2112519
Mo 202.032	140.558b	ppb	5.2045	3.7	1184.90
Na 330.237	57180.6b	ppb	2565.15	4.5	3237.94
Ni 231.604	298.278b	ppb	12.8989	4.3	1014.78
Pb 220.353	324.240b	ppb	12.3451	3.8	727.182
Sb 206.834	2.0213b	ppb	3.7399	185.0	18.0812
Se 196.026	-7.1406b	ppb	9.9115	138.8	1.9343
Sn 189.925	94.5591b	ppb	5.9192	6.3	94.3807
Sr 216.596	2462.23b	ppb	100.103	4.1	33122.4
Ti 334.941	8824.15b	ppb	385.591	4.4	2554490
Tl 190.794	20.3986b	ppb	3.5116	17.2	-36.9131
V 292.401	964.534b	ppb	40.6122	4.2	30561.2
Zn 206.200	1452.51b	ppb	54.7956	3.8	2001.44

E04052013.vvq. All Data Report 4/8/2013, 10:52:27 AM

680-88866-a-34-a (Samp) 4/6/2013, 3:10:19 AM Rack 3, Tube 29

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.7348u	0.8012u	0.3915u
Al 308.215	237315	237902	237051
As 188.980	173.402	178.903	166.787
B 249.678	70.2352	69.5762	71.7070
Ba 389.178	1017.50	1015.84	1015.43
Be 313.042	16.1828	16.1450	16.1374
Ca 370.602	274327	272319	273737
Cd 226.502	1.4039	1.0225	1.0544
Co 228.615	200.140	196.200	194.326
Cr 267.716	508.565	507.126	505.713
Cu 324.754	733.280	719.925	730.931
Fe 271.441	423313	422283	422432
K 766.491	121905x	121457x	121866x
Mg 279.078	215236	217624	215067
Mn 257.610	9362.33	9343.95	9339.70
Mo 202.032	117.943	117.851	117.547
Na 330.237	56100.8	56322.3	56215.9
Ni 231.604	295.720	296.681	294.335
Pb 220.353	248.543	251.886	245.987
Sb 206.834	-0.9632	-1.9021	6.4905
Se 196.026	-12.4114u	-8.4833	-12.6518u
Sn 189.925	67.6075	68.5514	67.2804
Sr 216.596	3103.81	3099.74	3090.10
Ti 334.941	9969.53	9964.19	9955.04
Tl 190.794	25.9961u	17.0419u	20.0971u
V 292.401	1007.90	1006.93	1006.98
Zn 206.200	1289.91	1295.74	1290.66

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.6425b	ppb	0.2199	34.2	-146.046
Al 308.215	237423b	ppb	435.398	0.2	851448
As 188.980	173.031b	ppb	6.0661	3.5	129.201
B 249.678	70.5061b	ppb	1.0909	1.5	401.054
Ba 389.178	1016.25b	ppb	1.0982	0.1	29149.2
Be 313.042	16.1551b	ppb	0.0243	0.2	33707.7
Ca 370.602	273461b	ppb	1032	0.4	1043011
Cd 226.502	1.1603b	ppb	0.2116	18.2	1352.60
Co 228.615	196.889b	ppb	2.9677	1.5	2877.50
Cr 267.716	507.135b	ppb	1.4262	0.3	26665.2
Cu 324.754	728.045b	ppb	7.1296	1.0	37809.4
Fe 271.441	422676b	ppb	556.682	0.1	868427
K 766.491	121742xb	ppb	247.947	0.2	6546048
Mg 279.078	215975b	ppb	1430.13	0.7	563439
Mn 257.610	9348.66b	ppb	12.0323	0.1	2570375
Mo 202.032	117.780b	ppb	0.2071	0.2	988.049
Na 330.237	56213.0b	ppb	110.782	0.2	3157.01
Ni 231.604	295.579b	ppb	1.1794	0.4	1006.70
Pb 220.353	248.805b	ppb	2.9580	1.2	555.863
Sb 206.834	1.2084b	ppb	4.5985	380.5	18.5767
Se 196.026	-11.1822b	ppb	2.3404	20.9	0.3115
Sn 189.925	67.8131b	ppb	0.6600	1.0	67.2606
Sr 216.596	3097.88b	ppb	7.0427	0.2	41643.5
Ti 334.941	9962.92b	ppb	7.3268	0.1	2884139
Tl 190.794	21.0450b	ppb	4.5517	21.6	-43.6760
V 292.401	1007.27b	ppb	0.5460	0.1	31936.4
Zn 206.200	1292.11b	ppb	3.1711	0.2	2580.97

680-88866-a-35-a (Samp) 4/6/2013, 3:16:46 AM Rack 3, Tube 30

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	1.0230	1.0430	0.5773u
Al 308.215	183535	183696	182717
As 188.980	212.982	207.041	206.125
B 249.678	84.8629	85.5969	88.2623
Ba 389.178	1642.82	1647.19	1645.95
Be 313.042	11.5565	11.5699	11.5447
Ca 370.602	195791	195379	196188
Cd 226.502	82.7194	82.8465	82.6935
Co 228.615	149.565	151.257	151.406
Cr 267.716	444.519	445.057	443.489
Cu 324.754	837.931	847.888	848.228
Fe 271.441	340871	341156	340956
K 766.491	96659.5x	97491.1x	97695.7x
Mg 279.078	150294	150695	150317
Mn 257.610	6555.70	6563.85	6554.82
Mo 202.032	182.727	182.020	182.525
Na 330.237	42523.4	42693.0	42827.3
Ni 231.604	241.373	239.351	240.264
Pb 220.353	607.878	610.356	605.459
Sb 206.834	4.7541	14.4853	17.7545
Se 196.026	6.3050	0.5599	-1.0697
Sn 189.925	75.9371	72.5801	70.2412
Sr 216.596	2129.20	2126.99	2125.42
Ti 334.941	8155.99	8163.76	8138.83
Tl 190.794	16.4696u	17.0509u	12.8704u
V 292.401	771.834	773.525	773.211
Zn 206.200	1624.77	1625.36	1621.82

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.8811b	ppb	0.2633	29.9	-93.2129
Al 308.215	183316b	ppb	524.755	0.3	657419
As 188.980	208.716b	ppb	3.7228	1.8	156.099
B 249.678	86.2407b	ppb	1.7888	2.1	692.099
Ba 389.178	1645.32b	ppb	2.2537	0.1	46023.5
Be 313.042	11.5570b	ppb	0.0126	0.1	23999.0
Ca 370.602	195786b	ppb	404.1	0.2	743090
Cd 226.502	82.7531b	ppb	0.0819	0.1	4889.03
Co 228.615	150.743b	ppb	1.0228	0.7	2216.06
Cr 267.716	444.355b	ppb	0.7972	0.2	23348.9
Cu 324.754	844.683b	ppb	5.8492	0.7	43844.9
Fe 271.441	340995b	ppb	146.337	0.0	700604
K 766.491	97282.1xb	ppb	548.797	0.6	5230866
Mg 279.078	150435b	ppb	225.179	0.1	392467
Mn 257.610	6558.12b	ppb	4.9776	0.1	1803368
Mo 202.032	182.424b	ppb	0.3642	0.2	1545.47
Na 330.237	42681.2b	ppb	152.285	0.4	2378.39
Ni 231.604	240.329b	ppb	1.0126	0.4	818.551
Pb 220.353	607.897b	ppb	2.4486	0.4	1371.08
Sb 206.834	12.3313b	ppb	6.7626	54.8	26.8868
Se 196.026	1.9318b	ppb	3.8740	200.5	6.6548
Sn 189.925	72.9194b	ppb	2.8631	3.9	72.4006
Sr 216.596	2127.20b	ppb	1.9009	0.1	28619.5
Ti 334.941	8152.86b	ppb	12.7543	0.2	2360006
Tl 190.794	15.4636b	ppb	2.2646	14.6	-36.0683
V 292.401	772.857b	ppb	0.8994	0.1	24488.0
Zn 206.200	1623.98b	ppb	1.8965	0.1	3244.19

E04052013.vvq. All Data Report 4/8/2013, 10:52:27 AM

680-88866-a-36-a (Samp)      4/6/2013, 3:23:12 AM      Rack 3, Tube 31  
 Weight: 1      Volume: 1      Dilution: 1

Label	Replicates Concentration		
Ag 328.068	1.4469	1.9065	1.7469
Al 308.215	209560	210656	210987
As 188.980	192.934	193.312	191.143
B 249.678	79.5849	79.3798	78.3435
Ba 389.178	1850.13	1845.82	1849.39
Be 313.042	13.2749	13.2670	13.2784
Ca 370.602	209079	209072	209283
Cd 226.502	218.749	217.603	218.186
Co 228.615	172.240	176.548	173.093
Cr 267.716	503.267	504.475	507.948
Cu 324.754	815.443	807.775	805.192
Fe 271.441	357007	355940	356197
K 766.491	103261x	100921x	103166x
Mg 279.078	175705	175878	175941
Mn 257.610	7475.36	7463.84	7483.15
Mo 202.032	199.463	199.533	199.439
Na 330.237	54643.8	55121.9	55129.2
Ni 231.604	262.186	262.407	262.669
Pb 220.353	843.607	855.770	857.614
Sb 206.834	21.1453	26.3378	25.6705
Se 196.026	-7.3416	7.5339	11.5266
Sn 189.925	52.7962	54.0178	58.4291
Sr 216.596	2344.70	2355.13	2363.59
Ti 334.941	8212.33	8224.71	8243.11
Tl 190.794	22.9158u	16.7100u	20.7732u
V 292.401	872.073	868.612	870.648
Zn 206.200	2263.32	2254.59	2270.25

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	1.7001b	ppb	0.2334	13.7	-31.7479
Al 308.215	210401b	ppb	746.948	0.4	754552
As 188.980	192.463b	ppb	1.1589	0.6	143.879
B 249.678	79.1027b	ppb	0.6654	0.8	586.630
Ba 389.178	1848.45b	ppb	2.3042	0.1	51685.2
Be 313.042	13.2734b	ppb	0.0058	0.0	27609.5
Ca 370.602	209145b	ppb	120.1	0.1	794495
Cd 226.502	218.179b	ppb	0.5730	0.3	11221.4
Co 228.615	173.960b	ppb	2.2812	1.3	2522.69
Cr 267.716	505.230b	ppb	2.4298	0.5	26534.7
Cu 324.754	809.470b	ppb	5.3315	0.7	42020.7
Fe 271.441	356381b	ppb	557.007	0.2	732221
K 766.491	102449xb	ppb	1324.59	1.3	5508691
Mg 279.078	175842b	ppb	122.185	0.1	458741
Mn 257.610	7474.12b	ppb	9.7113	0.1	2055136
Mo 202.032	199.478b	ppb	0.0491	0.0	1689.98
Na 330.237	54964.9b	ppb	278.174	0.5	3112.33
Ni 231.604	262.421b	ppb	0.2419	0.1	893.322
Pb 220.353	852.330b	ppb	7.6106	0.9	1924.43
Sb 206.834	24.3846b	ppb	2.8250	11.6	40.7021
Se 196.026	3.9063b	ppb	9.9434	254.5	8.2089
Sn 189.925	55.0810b	ppb	2.9632	5.4	54.3069
Sr 216.596	2354.48b	ppb	9.4613	0.4	31664.7
Ti 334.941	8226.71b	ppb	15.4875	0.2	2381498
Tl 190.794	20.1330b	ppb	3.1520	15.7	-33.5606
V 292.401	870.444b	ppb	1.7396	0.2	27563.3
Zn 206.200	2262.72b	ppb	7.8486	0.3	4519.93

680-88866-a-37-a (Samp) 4/6/2013, 3:29:39 AM Rack 3, Tube 32

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.3099u	0.3246u	-0.1878u
Al 308.215	220995	222941	221770
As 188.980	140.249	143.157	147.918
B 249.678	77.3116	75.6298	78.2754
Ba 389.178	978.995	981.320	984.211
Be 313.042	14.6203	14.6667	14.6543
Ca 370.602	275448	276034	276655
Cd 226.502	2.0765	1.5599	2.0163
Co 228.615	166.785	168.304	166.759
Cr 267.716	488.529	490.066	490.115
Cu 324.754	682.645	672.884	681.058
Fe 271.441	389938	389965	390937
K 766.491	114548x	114664x	114959x
Mg 279.078	214636	215093	215331
Mn 257.610	8722.55	8729.57	8728.17
Mo 202.032	140.404	140.188	138.693
Na 330.237	55346.9	55847.6	55461.7
Ni 231.604	272.819	272.382	272.767
Pb 220.353	263.503	259.942	259.716
Sb 206.834	6.3797	-2.1420	-1.3542
Se 196.026	-11.9658u	-12.2229u	-4.0519
Sn 189.925	31.0858	31.9703	37.2221
Sr 216.596	2927.27	2934.90	2933.42
Ti 334.941	9107.90	9149.75	9151.69
Tl 190.794	15.0983u	12.5927u	22.7833u
V 292.401	984.979	986.323	984.954
Zn 206.200	1083.96	1087.97	1087.15

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0577b	ppb	0.3367	583.6	-198.685
Al 308.215	221902b	ppb	979.543	0.4	795789
As 188.980	143.775b	ppb	3.8717	2.7	107.741
B 249.678	77.0723b	ppb	1.3390	1.7	520.213
Ba 389.178	981.509b	ppb	2.6129	0.3	28140.8
Be 313.042	14.6471b	ppb	0.0240	0.2	30531.0
Ca 370.602	276046b	ppb	603.7	0.2	1056326
Cd 226.502	1.8842b	ppb	0.2825	15.0	1287.84
Co 228.615	167.282b	ppb	0.8845	0.5	2462.10
Cr 267.716	489.570b	ppb	0.9020	0.2	25734.8
Cu 324.754	678.862b	ppb	5.2380	0.8	35246.4
Fe 271.441	390280b	ppb	568.945	0.1	801865
K 766.491	114724xb	ppb	211.593	0.2	6168657
Mg 279.078	215020b	ppb	352.946	0.2	560957
Mn 257.610	8726.76b	ppb	3.7169	0.0	2399524
Mo 202.032	139.762b	ppb	0.9320	0.7	1177.73
Na 330.237	55552.1b	ppb	262.327	0.5	3138.01
Ni 231.604	272.656b	ppb	0.2385	0.1	928.689
Pb 220.353	261.054b	ppb	2.1242	0.8	584.381
Sb 206.834	0.9611b	ppb	4.7091	489.9	16.9769
Se 196.026	-9.4135b	ppb	4.6451	49.3	0.9450
Sn 189.925	33.4261b	ppb	3.3171	9.9	32.3612
Sr 216.596	2931.86b	ppb	4.0500	0.1	39408.4
Ti 334.941	9136.45b	ppb	24.7417	0.3	2644955
Tl 190.794	16.8248b	ppb	5.3101	31.6	-44.1714
V 292.401	985.419b	ppb	0.7836	0.1	31226.9
Zn 206.200	1086.36b	ppb	2.1160	0.2	4170.03

E04052013.vvq. All Data Report 4/8/2013, 10:52:27 AM

680-88866-a-38-a (Samp) 4/6/2013, 3:36:06 AM Rack 3, Tube 33

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	1.1728	0.4201u	2.0973
Al 308.215	232213	230239	231648
As 188.980	360.736	368.528	378.317
B 249.678	81.2489	83.3142	83.3828
Ba 389.178	1922.49	1916.00	1917.30
Be 313.042	14.7753	14.7292	14.7294
Ca 370.602	163849	163187	163010
Cd 226.502	9.2730	9.5747	9.3835
Co 228.615	207.269	206.984	210.123
Cr 267.716	556.291	552.973	556.631
Cu 324.754	1049.06	1044.77	1039.93
Fe 271.441	414892	415528	415203
K 766.491	104945x	104452x	104338x
Mg 279.078	171650	171394	171788
Mn 257.610	8978.90	8964.01	8965.00
Mo 202.032	112.263	112.881	110.896
Na 330.237	37285.7	36728.5	37074.2
Ni 231.604	349.988	346.402	348.884
Pb 220.353	623.638	624.217	623.819
Sb 206.834	16.5967	5.0139	9.9199
Se 196.026	-3.8118	-9.0409	11.7608
Sn 189.925	894.496	885.068	891.606
Sr 216.596	1726.62	1721.15	1727.14
Ti 334.941	10604.0	10525.9	10558.6
Tl 190.794	32.7553u	34.5144u	25.4620u
V 292.401	966.044	965.723	965.317
Zn 206.200	2477.29	2477.08	2481.19

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	1.2301b	ppb	0.8401	68.3	-31.2278
Al 308.215	231366b	ppb	1016.64	0.4	829730
As 188.980	369.194b	ppb	8.8094	2.4	274.871
B 249.678	82.6486b	ppb	1.2127	1.5	557.642
Ba 389.178	1918.60b	ppb	3.4348	0.2	53690.6
Be 313.042	14.7446b	ppb	0.0266	0.2	30703.5
Ca 370.602	163349b	ppb	442.4	0.3	607621
Cd 226.502	9.4104b	ppb	0.1526	1.6	1712.24
Co 228.615	208.125b	ppb	1.7356	0.8	3044.23
Cr 267.716	555.298b	ppb	2.0211	0.4	29178.1
Cu 324.754	1044.59b	ppb	4.5696	0.4	54244.2
Fe 271.441	415208b	ppb	318.338	0.1	853086
K 766.491	104578xb	ppb	322.392	0.3	5623166
Mg 279.078	171611b	ppb	199.606	0.1	447676
Mn 257.610	8969.30b	ppb	8.3285	0.1	2465773
Mo 202.032	112.014b	ppb	1.0156	0.9	939.339
Na 330.237	37029.5b	ppb	281.279	0.8	1979.15
Ni 231.604	348.425b	ppb	1.8369	0.5	1184.35
Pb 220.353	623.892b	ppb	0.2962	0.0	1405.23
Sb 206.834	10.5101b	ppb	5.8139	55.3	29.2077
Se 196.026	-0.3640b	ppb	10.8210	2973.0	6.5521
Sn 189.925	890.390b	ppb	4.8303	0.5	902.078
Sr 216.596	1724.97b	ppb	3.3174	0.2	23279.6
Ti 334.941	10562.8b	ppb	39.1955	0.4	3057540
Tl 190.794	30.9106b	ppb	4.7999	15.5	-29.4018
V 292.401	965.695b	ppb	0.3642	0.0	30631.7
Zn 206.200	2478.52b	ppb	2.3198	0.1	4950.82

E04052013.vvq. All Data Report 4/8/2013, 10:52:27 AM

mb 680-271923/1-a (Samp) 4/6/2013, 3:42:33 AM Rack 3, Tube 34

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.2414	-0.3083u	0.6029
Al 308.215	43.9092	110.224	190.698
As 188.980	-7.9786u	-5.2608u	-2.7463u
B 249.678	4.1003	3.0577	2.4022
Ba 389.178	0.7685	1.4153	2.3307
Be 313.042	0.0218	0.0309	0.0364
Ca 370.602	62.49	127.6	202.9
Cd 226.502	0.1077	0.0835	0.0417
Co 228.615	-0.0858u	-1.1325u	-0.1131u
Cr 267.716	0.4295	0.5936	0.8588
Cu 324.754	0.4920	1.4057	2.4763
Fe 271.441	100.178	236.829	400.879
K 766.491	40.0711	104.567	162.374
Mg 279.078	33.4047	87.3113	168.805
Mn 257.610	1.0235	4.4387	8.4928
Mo 202.032	0.3037	0.1765	0.2689
Na 330.237	-328.395u	159.062	-23.4265u
Ni 231.604	-0.5878u	0.3051	0.7189
Pb 220.353	1.9425	1.1122	2.0424
Sb 206.834	-4.4071u	-2.3179u	2.1931
Se 196.026	4.6899	4.3259	2.8034
Sn 189.925	16.8544	13.2704	13.5446
Sr 216.596	0.5637	0.8637	2.4636
Ti 334.941	4.1495	7.1679	11.2591
Tl 190.794	2.5004	-2.0176u	-0.0348u
V 292.401	0.3078	0.3418	1.1382
Zn 206.200	-0.2789u	1.0180	3.1855

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1787	ppb	0.4588	256.8	-81.3472
Al 308.215	114.944	ppb	73.5082	64.0	417.270
As 188.980	-5.3286	ppb	2.6168	49.1	-1.6666
B 249.678	3.1867	ppb	0.8564	26.9	98.3022
Ba 389.178	1.5048	ppb	0.7850	52.2	7.0765
Be 313.042	0.0297	ppb	0.0073	24.7	-272.551
Ca 370.602	131.0	ppb	70.25	53.6	490.7
Cd 226.502	0.0776	ppb	0.0334	43.0	12.7804
Co 228.615	-0.4438	ppb	0.5966	134.4	-1.1905
Cr 267.716	0.6273	ppb	0.2166	34.5	44.1989
Cu 324.754	1.4580	ppb	0.9932	68.1	-43.2141
Fe 271.441	245.962	ppb	150.558	61.2	504.410
K 766.491	102.338	ppb	61.1819	59.8	5716.92
Mg 279.078	96.5069	ppb	68.1668	70.6	273.095
Mn 257.610	4.6516	ppb	3.7392	80.4	1624.95
Mo 202.032	0.2497	ppb	0.0657	26.3	11.7570
Na 330.237	-64.2532	ppb	246.280	383.3	-5.6619
Ni 231.604	0.1454	ppb	0.6678	459.3	1.0375
Pb 220.353	1.6990	ppb	0.5107	30.1	6.3758
Sb 206.834	-1.5106	ppb	3.3733	223.3	1.3543
Se 196.026	3.9397	ppb	1.0008	25.4	3.4588
Sn 189.925	14.5564	ppb	1.9948	13.7	13.0566
Sr 216.596	1.2970	ppb	1.0214	78.7	26.7130
Ti 334.941	7.5255	ppb	3.5683	47.4	2057.04
Tl 190.794	0.1493	ppb	2.2646	1516.6	-3.5996
V 292.401	0.5959	ppb	0.4699	78.9	17.1753
Zn 206.200	1.3082	ppb	1.7503	133.8	4.3961



E04052013.wvq. All Data Report 4/8/2013, 10:52:27 AM

Ics 680-271923/2-a (Samp) 4/6/2013, 3:48:59 AM Rack 3, Tube 35

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	24.1915	24.5155	23.8278
Al 308.215	5061.80	5020.33	4965.18
As 188.980	103.439	104.041	99.0019
B 249.678	187.416	186.706	188.586
Ba 389.178	103.830	103.500	102.548
Be 313.042	52.5674	52.3094	52.0233
Ca 370.602	4951	4918	4891
Cd 226.502	51.5087	51.6120	51.5364
Co 228.615	52.2537	52.2555	52.1649
Cr 267.716	106.065	104.746	104.355
Cu 324.754	105.065	104.002	102.885
Fe 271.441	4969.65	4940.83	4931.50
K 766.491	5232.28	5206.44	5189.90
Mg 279.078	4910.83	4884.11	4866.56
Mn 257.610	530.562	527.349	526.415
Mo 202.032	101.370	100.654	100.149
Na 330.237	4615.97	4427.35	4793.76
Ni 231.604	100.616	100.560	101.115
Pb 220.353	49.0620	50.5054	54.2755
Sb 206.834	43.9619	53.9157	49.7592
Se 196.026	101.083	98.1544	97.7593
Sn 189.925	210.439	209.722	208.621
Sr 216.596	101.162	99.8275	100.446
Ti 334.941	101.410	100.938	100.166
Tl 190.794	37.8705	42.1258	39.4673
V 292.401	100.886	100.840	100.253
Zn 206.200	103.818	100.731	103.640

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	24.1783	ppb	0.3440	1.4	1895.48
Al 308.215	5015.77	ppb	48.4722	1.0	17999.9
As 188.980	102.161	ppb	2.7521	2.7	78.6721
B 249.678	187.569	ppb	0.9492	0.5	2332.78
Ba 389.178	103.293	ppb	0.6660	0.6	2815.71
Be 313.042	52.3000	ppb	0.2722	0.5	109747
Ca 370.602	4920	ppb	30.23	0.6	19027
Cd 226.502	51.5524	ppb	0.0535	0.1	2416.15
Co 228.615	52.2247	ppb	0.0518	0.1	692.367
Cr 267.716	105.055	ppb	0.8961	0.9	5500.62
Cu 324.754	103.984	ppb	1.0902	1.0	5283.90
Fe 271.441	4947.33	ppb	19.8913	0.4	10174.3
K 766.491	5209.54	ppb	21.3592	0.4	280320
Mg 279.078	4887.17	ppb	22.2946	0.5	12763.2
Mn 257.610	528.108	ppb	2.1753	0.4	145396
Mo 202.032	100.724	ppb	0.6137	0.6	869.264
Na 330.237	4612.36	ppb	183.236	4.0	274.750
Ni 231.604	100.764	ppb	0.3057	0.3	339.786
Pb 220.353	51.2809	ppb	2.6919	5.2	118.476
Sb 206.834	49.2123	ppb	4.9994	10.2	56.3829
Se 196.026	98.9990	ppb	1.8158	1.8	59.9401
Sn 189.925	209.594	ppb	0.9156	0.4	211.016
Sr 216.596	100.479	ppb	0.6679	0.7	1348.33
Ti 334.941	100.838	ppb	0.6281	0.6	29083.5
Tl 190.794	39.8212	ppb	2.1496	5.4	45.9226
V 292.401	100.660	ppb	0.3527	0.4	3149.42
Zn 206.200	102.730	ppb	1.7330	1.7	406.591

E04052013.vvq. All Data Report 4/8/2013, 10:52:27 AM

ics 680-271923/3-a (Samp)      4/6/2013, 3:55:26 AM      Rack 3, Tube 36  
 Weight: 1      Volume: 1      Dilution: 1

Label	Replicates Concentration		
Ag 328.068	202.064	206.510	205.664
Al 308.215	2140.57	2154.97	2165.45
As 188.980	212.617	223.104	216.458
B 249.678	374.650	376.789	377.911
Ba 389.178	201.829	202.077	201.513
Be 313.042	206.045	206.707	207.050
Ca 370.602	19326	19390	19430
Cd 226.502	198.663	198.542	198.670
Co 228.615	204.183	204.948	204.518
Cr 267.716	207.509	209.172	209.507
Cu 324.754	205.057	207.961	207.584
Fe 271.441	20213.6	20184.9	20183.3
K 766.491	19568.5	19519.4	19514.4
Mg 279.078	19436.7	19431.5	19470.7
Mn 257.610	2090.97	2093.16	2093.35
Mo 202.032	200.042	201.984	200.845
Na 330.237	16284.3	16375.3	16460.4
Ni 231.604	200.941	200.214	198.877
Pb 220.353	194.058	196.198	196.354
Sb 206.834	191.863	195.395	192.087
Se 196.026	196.680	190.795	193.042
Sn 189.925	211.286	207.329	213.457
Sr 216.596	207.612	209.156	209.134
Ti 334.941	198.581	199.907	199.965
Tl 190.794	43.2353	45.2403	44.4982
V 292.401	197.555	197.301	198.433
Zn 206.200	190.928	190.769	192.155

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	204.746	ppb	2.3607	1.2	16784.2
Al 308.215	2153.66	ppb	12.4893	0.6	7743.17
As 188.980	217.393	ppb	5.3054	2.4	164.768
B 249.678	376.450	ppb	1.6567	0.4	4609.02
Ba 389.178	201.807	ppb	0.2825	0.1	5582.44
Be 313.042	206.601	ppb	0.5111	0.2	434561
Ca 370.602	19382	ppb	52.25	0.3	74847
Cd 226.502	198.625	ppb	0.0720	0.0	9288.60
Co 228.615	204.550	ppb	0.3835	0.2	2700.17
Cr 267.716	208.729	ppb	1.0701	0.5	10924.5
Cu 324.754	206.867	ppb	1.5793	0.8	10632.9
Fe 271.441	20194.0	ppb	17.0365	0.1	41527.7
K 766.491	19534.1	ppb	29.8863	0.2	1050520
Mg 279.078	19446.3	ppb	21.2758	0.1	50728.5
Mn 257.610	2092.49	ppb	1.3252	0.1	575070
Mo 202.032	200.957	ppb	0.9761	0.5	1724.08
Na 330.237	16373.3	ppb	88.0749	0.5	981.419
Ni 231.604	200.011	ppb	1.0470	0.5	674.199
Pb 220.353	195.537	ppb	1.2828	0.7	445.521
Sb 206.834	193.115	ppb	1.9776	1.0	213.191
Se 196.026	193.506	ppb	2.9695	1.5	116.483
Sn 189.925	210.691	ppb	3.1074	1.5	212.142
Sr 216.596	208.634	ppb	0.8854	0.4	2796.54
Ti 334.941	199.484	ppb	0.7830	0.4	57699.1
Tl 190.794	44.3246	ppb	1.0137	2.3	47.0169
V 292.401	197.763	ppb	0.5936	0.3	6188.46
Zn 206.200	191.284	ppb	0.7585	0.4	382.084

E04052013.vvq. All Data Report 4/8/2013, 10:52:27 AM

Cont Calib Verif (CCV) 4/6/2013, 4:01:53 AM Rack 3, Tube 37  
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	508.419	505.869	506.627
Al 308.215	5061.10	5098.78	5114.82
As 188.980	480.883	481.903	487.741
B 249.678	511.444	510.100	511.662
Ba 389.178	4795.27	4788.42	4784.07
Be 313.042	481.416	478.951	479.678
Ca 370.602	5013	5064	5093
Cd 226.502	475.857	474.659	473.770
Co 228.615	485.334	483.882	485.802
Cr 267.716	4888.63	4869.07	4863.58
Cu 324.754	4798.84	4686.31	4762.44
Fe 271.441	5067.71	5174.28	5242.75
K 766.491	9892.21	9957.89	10001.3
Mg 279.078	4956.80	4994.91	5011.10
Mn 257.610	4810.32	4803.83	4808.13
Mo 202.032	490.596	488.834	488.598
Na 330.237	6930.33	7274.89	7052.20
Ni 231.604	2377.84	2375.81	2367.70
Pb 220.353	491.909	487.814	493.069
Sb 206.834	970.149	973.020	979.795
Se 196.026	4790.61	4815.93	4798.18
Sn 189.925	4938.95	4949.88	4908.71
Sr 216.596	2396.95	2389.83	2382.50
Ti 334.941	499.001	499.951	501.803
Tl 190.794	4943.03	4941.09	4932.23
V 292.401	4854.89	4844.45	4852.19
Zn 206.200	2413.73	2401.85	2394.68

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	506.972	ppb	1.3096	0.3	41637.6	101.39433
Al 308.215	5091.57	ppb	27.5758	0.5	18251.3	101.83140
As 188.980	483.509	ppb	3.7001	0.8	363.719	96.70181
B 249.678	511.069	ppb	0.8461	0.2	6262.92	20.44276Q
Ba 389.178	4789.25	ppb	5.6444	0.1	131051	95.78506
Be 313.042	480.015	ppb	1.2666	0.3	1009913	96.00306
Ca 370.602	5057	ppb	40.15	0.8	19840	101.13244
Cd 226.502	474.762	ppb	1.0473	0.2	22058.4	94.95232
Co 228.615	485.006	ppb	1.0010	0.2	6410.95	97.00116
Cr 267.716	4873.76	ppb	13.1651	0.3	254522	97.47523
Cu 324.754	4749.20	ppb	57.4210	1.2	246454	94.98396
Fe 271.441	5161.58	ppb	88.2118	1.7	10748.4	103.23159
K 766.491	9950.47	ppb	54.9325	0.6	535230	99.50470
Mg 279.078	4987.60	ppb	27.8801	0.6	12938.8	99.75206
Mn 257.610	4807.42	ppb	3.3036	0.1	1320236	96.14850
Mo 202.032	489.343	ppb	1.0918	0.2	4177.30	97.86858
Na 330.237	7085.81	ppb	174.722	2.5	400.882	94.47742
Ni 231.604	2373.78	ppb	5.3640	0.2	7989.40	94.95138
Pb 220.353	490.931	ppb	2.7606	0.6	1114.65	98.18617
Sb 206.834	974.321	ppb	4.9529	0.5	1105.63	97.43214
Se 196.026	4801.57	ppb	13.0000	0.3	2845.90	96.03146
Sn 189.925	4932.51	ppb	21.3291	0.4	5004.59	98.65024
Sr 216.596	2389.76	ppb	7.2278	0.3	31873.0	95.59032
Ti 334.941	500.251	ppb	1.4248	0.3	144672	100.05030
Tl 190.794	4938.78	ppb	5.7584	0.1	6343.60	98.77564
V 292.401	4850.51	ppb	5.4189	0.1	152774	97.01019
Zn 206.200	2403.42	ppb	9.6219	0.4	4783.85	96.13679

E04052013.vvq. All Data Report 4/8/2013, 10:52:27 AM

Cont Calib Blank (CCB) 4/6/2013, 4:08:20 AM Rack 3, Tube 38  
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.8435	1.1336	0.5387
Al 308.215	6.6959	4.8480	7.1430
As 188.980	-2.9012u	-4.4653u	-4.5891u
B 249.678	10.7784	10.5898	10.3261
Ba 389.178	0.7727	1.2594	1.5125
Be 313.042	0.0832	0.1134	0.1428
Ca 370.602	7.158	5.880	9.336
Cd 226.502	0.1838	0.1368	0.2659
Co 228.615	-0.5169u	-0.1990u	0.0061
Cr 267.716	0.7015	0.5146	1.1791
Cu 324.754	0.8356	1.2780	1.5255
Fe 271.441	5.4460	9.5479	9.0519
K 766.491	5.9653	8.0580	9.0238
Mg 279.078	5.9949	5.9084	8.9024
Mn 257.610	-0.1333u	0.2360	0.6404
Mo 202.032	0.4074	0.8036	0.3458
Na 330.237	-28.2417u	97.6154	31.5903
Ni 231.604	0.5513	0.3929	0.6560
Pb 220.353	0.7504	0.2548	-2.2718u
Sb 206.834	-2.6764u	-3.1495u	6.6695
Se 196.026	10.5192	5.5709	1.2642
Sn 189.925	-0.5856u	1.5155	3.5790
Sr 216.596	0.1899	0.3599	1.0339
Ti 334.941	0.5075	0.5123	0.5526
Tl 190.794	6.6663	5.7735	3.0195
V 292.401	0.7225	1.1163	1.4713
Zn 206.200	1.6868	0.1296	1.6664

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.8386	ppb	0.2974	35.5	-26.9375	0.83861
Al 308.215	6.2290	ppb	1.2167	19.5	27.3971	6.22895
As 188.980	-3.9852	ppb	0.9408	23.6	-0.6603	-3.98520
B 249.678	10.5648	ppb	0.2272	2.2	188.234	10.56478
Ba 389.178	1.1815	ppb	0.3760	31.8	-2.4430	1.18153
Be 313.042	0.1132	ppb	0.0298	26.3	-96.9688	0.11315
Ca 370.602	7.458	ppb	1.747	23.4	23.75	7.45775
Cd 226.502	0.1955	ppb	0.0653	33.4	17.5241	0.19548
Co 228.615	-0.2366	ppb	0.2635	111.4	1.3537	-0.23658
Cr 267.716	0.7984	ppb	0.3426	42.9	53.0305	0.79840
Cu 324.754	1.2130	ppb	0.3495	28.8	-56.0106	1.21303
Fe 271.441	8.0153	ppb	2.2388	27.9	15.6143	8.01526
K 766.491	7.6823	ppb	1.5635	20.4	627.504	7.68233
Mg 279.078	6.9352	ppb	1.7042	24.6	39.4293	6.93524
Mn 257.610	0.2477	ppb	0.3870	156.2	414.257	0.24771
Mo 202.032	0.5189	ppb	0.2485	47.9	14.0690	0.51894
Na 330.237	33.6546	ppb	62.9540	187.1	0.4325	33.65464
Ni 231.604	0.5334	ppb	0.1325	24.8	2.3369	0.53339
Pb 220.353	-0.4222	ppb	1.6209	383.9	1.5760	-0.42220
Sb 206.834	0.2812	ppb	5.5375	1969.3	3.2828	0.28119
Se 196.026	5.7848	ppb	4.6312	80.1	4.5483	5.78477
Sn 189.925	1.5030	ppb	2.0823	138.5	-0.1921	1.50297
Sr 216.596	0.5279	ppb	0.4464	84.6	16.3022	0.52792
Ti 334.941	0.5241	ppb	0.0248	4.7	30.4425	0.52415
Tl 190.794	5.1531	ppb	1.9009	36.9	2.8750	5.15310
V 292.401	1.1034	ppb	0.3746	33.9	33.0579	1.10338
Zn 206.200	1.1609	ppb	0.8932	76.8	47.1016	1.16092

680-88915-a-18-b (Samp) 4/6/2013, 4:14:47 AM Rack 3, Tube 39

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.7789u	0.4625	-0.8020u
Al 308.215	173300	172906	172739
As 188.980	38.6777	50.5813	44.1328
B 249.678	-2.5935u	-2.9467u	-2.9191u
Ba 389.178	443.718	443.030	443.648
Be 313.042	8.0152	8.0083	8.0223
Ca 370.602	9675	9694	9680
Cd 226.502	-2.0934	-1.7598	-1.8751
Co 228.615	154.857	155.493	155.487
Cr 267.716	297.027	296.235	296.922
Cu 324.754	108.121	109.104	108.462
Fe 271.441	292616	292872	293365
K 766.491	22950.3	23031.4	23023.3
Mg 279.078	17141.0	17116.1	17117.7
Mn 257.610	3944.24	3944.02	3942.44
Mo 202.032	4.1952	3.6595	3.2070
Na 330.237	337.033u	234.150u	264.829u
Ni 231.604	117.935	117.901	116.912
Pb 220.353	116.825	117.747	115.508
Sb 206.834	1.7528	6.3951	0.5924
Se 196.026	1.4562	15.6467	0.1258
Sn 189.925	19.3648	14.5919	18.1183
Sr 216.596	44.2106	44.3695	43.3981
Ti 334.941	2248.32	2236.77	2237.74
Tl 190.794	10.9908u	7.6513u	11.8568u
V 292.401	284.698	285.133	284.597
Zn 206.200	257.371	257.551	261.185

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.3728	ppb	0.7235	194.1	-107.472
Al 308.215	172981	ppb	287.954	0.2	620348
As 188.980	44.4639	ppb	5.9587	13.4	32.0317
B 249.678	-2.8198	ppb	0.1965	7.0	-331.922
Ba 389.178	443.465	ppb	0.3787	0.1	12646.9
Be 313.042	8.0153	ppb	0.0070	0.1	16538.5
Ca 370.602	9683	ppb	9.889	0.1	9128
Cd 226.502	-1.9094	ppb	0.1694	8.9	812.701
Co 228.615	155.279	ppb	0.3654	0.2	2108.34
Cr 267.716	296.728	ppb	0.4303	0.1	15606.7
Cu 324.754	108.562	ppb	0.4994	0.5	5606.09
Fe 271.441	292951	ppb	380.663	0.1	601892
K 766.491	23001.7	ppb	44.6353	0.2	1236966
Mg 279.078	17124.9	ppb	13.9612	0.1	44635.7
Mn 257.610	3943.56	ppb	0.9799	0.0	1084132
Mo 202.032	3.6872	ppb	0.4947	13.4	23.0705
Na 330.237	278.671	ppb	52.8199	19.0	-111.831
Ni 231.604	117.583	ppb	0.5808	0.5	404.177
Pb 220.353	116.693	ppb	1.1250	1.0	262.351
Sb 206.834	2.9134	ppb	3.0705	105.4	16.5830
Se 196.026	5.7429	ppb	8.6027	149.8	7.7862
Sn 189.925	17.3583	ppb	2.4755	14.3	15.8968
Sr 216.596	43.9927	ppb	0.5211	1.2	745.702
Ti 334.941	2240.94	ppb	6.4087	0.3	648515
Tl 190.794	10.1663	ppb	2.2207	21.8	-32.4683
V 292.401	284.809	ppb	0.2847	0.1	9013.23
Zn 206.200	258.702	ppb	2.1521	0.8	517.411

E04052013.vvq. All Data Report 4/8/2013, 10:52:27 AM

**680-88915-a-18-c ms (Samp)**      **4/6/2013, 4:21:14 AM**      **Rack 3, Tube 40**  
**Weight: 1**      **Volume: 1**      **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	21.0280	20.8569	20.4952
Al 308.215	180720	179885	179496
As 188.980	119.130	119.483	120.426
B 249.678	119.789	120.427	121.002
Ba 389.178	499.302	496.012	496.906
Be 313.042	55.2877	55.0343	55.0533
Ca 370.602	15889	15831	15849
Cd 226.502	48.8877	48.6684	49.0196
Co 228.615	89.7847	90.0954	90.0589
Cr 267.716	257.949	257.118	257.336
Cu 324.754	171.839	169.167	171.726
Fe 271.441	163421	163013	163324
K 766.491	23393.2	23332.9	23248.2
Mg 279.078	18308.0	18257.8	18288.0
Mn 257.610	1293.45	1291.21	1292.93
Mo 202.032	96.2953	96.7516	96.6637
Na 330.237	4840.10	4683.53	4764.13
Ni 231.604	180.278	178.221	181.534
Pb 220.353	96.0810	88.6981	98.0574
Sb 206.834	19.3461	27.6577	26.6126
Se 196.026	89.2798	81.0791	89.4449
Sn 189.925	197.477	205.386	204.434
Sr 216.596	143.559	143.652	143.333
Ti 334.941	1591.29	1598.77	1591.10
Tl 190.794	40.0419	43.0916	37.2210
V 292.401	298.144	297.605	296.872
Zn 206.200	290.939	288.922	287.629

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	20.7933	ppb	0.2720	1.3	1619.60
Al 308.215	180034	ppb	625.067	0.3	645646
As 188.980	119.679	ppb	0.6701	0.6	89.9228
B 249.678	120.406	ppb	0.6066	0.5	1323.75
Ba 389.178	497.406	ppb	1.7010	0.3	13907.9
Be 313.042	55.1251	ppb	0.1411	0.3	115704
Ca 370.602	15856	ppb	29.48	0.2	46593
Cd 226.502	48.8586	ppb	0.1774	0.4	2773.22
Co 228.615	89.9797	ppb	0.1698	0.2	1229.09
Cr 267.716	257.468	ppb	0.4309	0.2	13508.1
Cu 324.754	170.911	ppb	1.5113	0.9	8805.96
Fe 271.441	163253	ppb	212.825	0.1	335418
K 766.491	23324.8	ppb	72.8420	0.3	1254338
Mg 279.078	18284.6	ppb	25.2696	0.1	47683.4
Mn 257.610	1292.53	ppb	1.1725	0.1	355905
Mo 202.032	96.5702	ppb	0.2421	0.3	823.943
Na 330.237	4762.59	ppb	78.2946	1.6	212.218
Ni 231.604	180.011	ppb	1.6723	0.9	610.800
Pb 220.353	94.2788	ppb	4.9330	5.2	210.909
Sb 206.834	24.5388	ppb	4.5272	18.4	35.3627
Se 196.026	86.6012	ppb	4.7831	5.5	53.9480
Sn 189.925	202.432	ppb	4.3179	2.1	203.748
Sr 216.596	143.515	ppb	0.1642	0.1	2004.26
Ti 334.941	1593.72	ppb	4.3761	0.3	461203
Tl 190.794	40.1182	ppb	2.9361	7.3	26.3674
V 292.401	297.540	ppb	0.6382	0.2	9384.88
Zn 206.200	289.163	ppb	1.6685	0.6	578.417

E04052013.vvq. All Data Report 4/8/2013, 10:52:27 AM

680-88915-a-18-d msd (Samp) 4/6/2013, 4:27:41 AM Rack 3, Tube 41

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	24.6559	25.1495	24.5488
Al 308.215	196412	197195	197070
As 188.980	146.388	151.030	144.388
B 249.678	125.408	124.521	125.397
Ba 389.178	513.410	511.964	512.085
Be 313.042	59.3423	59.3361	59.3875
Ca 370.602	15483	15464	15469
Cd 226.502	48.2331	47.7429	48.2666
Co 228.615	144.310	145.296	142.513
Cr 267.716	343.998	343.927	344.364
Cu 324.754	209.269	211.213	211.925
Fe 271.441	285697	285428	285867
K 766.491	28173.3	28160.5	28234.8
Mg 279.078	22075.0	22039.2	22040.5
Mn 257.610	3065.73	3067.52	3070.23
Mo 202.032	98.7857	98.4014	100.385
Na 330.237	4935.96	4855.75	5028.54
Ni 231.604	221.152	218.694	218.724
Pb 220.353	131.148	131.309	130.104
Sb 206.834	22.3697	25.2147	27.7297
Se 196.026	75.1722	88.7838	78.3260
Sn 189.925	201.803	202.976	207.438
Sr 216.596	146.254	145.575	145.502
Ti 334.941	2287.17	2285.75	2299.11
Tl 190.794	34.6301	44.9222	41.1201
V 292.401	371.288	371.889	371.747
Zn 206.200	360.910	358.744	360.534

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	24.7848	ppb	0.3204	1.3	1957.67
Al 308.215	196892	ppb	420.947	0.2	706104
As 188.980	147.269	ppb	3.4073	2.3	109.027
B 249.678	125.109	ppb	0.5091	0.4	1231.28
Ba 389.178	512.486	ppb	0.8019	0.2	14539.1
Be 313.042	59.3553	ppb	0.0280	0.0	124604
Ca 370.602	15472	ppb	10.17	0.1	32788
Cd 226.502	48.0809	ppb	0.2931	0.6	3110.65
Co 228.615	144.040	ppb	1.4109	1.0	1958.11
Cr 267.716	344.096	ppb	0.2343	0.1	18073.5
Cu 324.754	210.802	ppb	1.3750	0.7	10914.6
Fe 271.441	285664	ppb	221.393	0.1	586920
K 766.491	28189.5	ppb	39.7309	0.1	1515906
Mg 279.078	22051.6	ppb	20.3149	0.1	57499.8
Mn 257.610	3067.83	ppb	2.2672	0.1	843731
Mo 202.032	99.1907	ppb	1.0519	1.1	838.867
Na 330.237	4940.08	ppb	86.4723	1.8	172.346
Ni 231.604	219.523	ppb	1.4104	0.6	747.063
Pb 220.353	130.854	ppb	0.6540	0.5	293.412
Sb 206.834	25.1047	ppb	2.6817	10.7	39.9345
Se 196.026	80.7607	ppb	7.1249	8.8	51.8928
Sn 189.925	204.072	ppb	2.9729	1.5	205.409
Sr 216.596	145.777	ppb	0.4150	0.3	2096.26
Ti 334.941	2290.68	ppb	7.3398	0.3	662932
Tl 190.794	40.2241	ppb	5.2042	12.9	8.7377
V 292.401	371.641	ppb	0.3143	0.1	11731.8
Zn 206.200	360.063	ppb	1.1576	0.3	719.711

680-88915-a-19-b (Samp) 4/6/2013, 4:34:08 AM Rack 3, Tube 42  
Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.7040u	-1.3128u	-1.6141u
Al 308.215	171875	170561	170911
As 188.980	29.8326	16.2465	18.4171
B 249.678	3.9768u	3.1432u	4.6384u
Ba 389.178	337.058	336.950	338.828
Be 313.042	4.8531	4.8223	4.8871
Ca 370.602	11010	10987	11050
Cd 226.502	-1.2204	-1.0800	-0.9205
Co 228.615	21.7997	22.3807	22.4505
Cr 267.716	196.349	195.567	196.182
Cu 324.754	65.5053	64.4022	64.5698
Fe 271.441	148951	148571	149801
K 766.491	18471.1	18462.2	18643.6
Mg 279.078	12015.2	11992.1	12049.7
Mn 257.610	644.752	642.518	647.850
Mo 202.032	2.5843	1.6412	2.4608
Na 330.237	257.351u	312.649u	176.162u
Ni 231.604	79.6620	78.9661	81.0267
Pb 220.353	44.0579	44.0579	43.8106
Sb 206.834	1.1475	-0.0582	-3.5886
Se 196.026	-10.5247u	-6.6614u	-1.0464
Sn 189.925	12.5103	19.0955	17.0503
Sr 216.596	44.5849	45.2293	45.6018
Ti 334.941	897.280	892.021	896.922
Tl 190.794	2.8205u	8.3815u	9.1390u
V 292.401	179.173	178.002	179.829
Zn 206.200	195.341	196.415	194.964

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.2103	ppb	0.4636	38.3	-193.504
Al 308.215	171116	ppb	680.742	0.4	613658
As 188.980	21.4987	ppb	7.2985	33.9	16.6600
B 249.678	3.9195	ppb	0.7492	19.1	-74.2835
Ba 389.178	337.612	ppb	1.0550	0.3	9491.68
Be 313.042	4.8542	ppb	0.0324	0.7	9893.25
Ca 370.602	11016	ppb	32.35	0.3	28672
Cd 226.502	-1.0736	ppb	0.1501	14.0	412.660
Co 228.615	22.2103	ppb	0.3573	1.6	318.856
Cr 267.716	196.033	ppb	0.4123	0.2	10292.9
Cu 324.754	64.8258	ppb	0.5944	0.9	3291.49
Fe 271.441	149107	ppb	629.969	0.4	306343
K 766.491	18525.6	ppb	102.280	0.6	996299
Mg 279.078	12019.0	ppb	29.0315	0.2	31346.2
Mn 257.610	645.040	ppb	2.6777	0.4	178038
Mo 202.032	2.2288	ppb	0.5126	23.0	19.4158
Na 330.237	248.721	ppb	68.6514	27.6	-49.5219
Ni 231.604	79.8849	ppb	1.0482	1.3	273.452
Pb 220.353	43.9755	ppb	0.1427	0.3	97.6735
Sb 206.834	-0.8331	ppb	2.4613	295.4	7.8780
Se 196.026	-6.0775	ppb	4.7661	78.4	-1.2279
Sn 189.925	16.2187	ppb	3.3705	20.8	14.7451
Sr 216.596	45.1387	ppb	0.5145	1.1	688.306
Ti 334.941	895.408	ppb	2.9383	0.3	259086
Tl 190.794	6.7803	ppb	3.4502	50.9	-13.6823
V 292.401	179.001	ppb	0.9259	0.5	5653.71
Zn 206.200	195.573	ppb	0.7529	0.4	391.699



E04052013.wvq. All Data Report 4/8/2013, 10:52:27 AM

680-88915-a-20-b (Samp) 4/6/2013, 4:40:35 AM Rack 3, Tube 43

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-2.2581u	-1.7332u	-1.5373u
Al 308.215	151876	153502	153586
As 188.980	87.7696	86.7792	85.7747
B 249.678	-30.5676u	-31.6926u	-32.0015u
Ba 389.178	420.579	420.917	421.534
Be 313.042	15.1022	15.1476	15.1568
Ca 370.602	8884u	8783u	8779u
Cd 226.502	-2.3770	-2.7529	-2.8353
Co 228.615	163.484	163.265	161.046
Cr 267.716	237.037	238.195	238.457
Cu 324.754	250.982	252.996	251.548
Fe 271.441	444865	445008	444268
K 766.491	16556.7	16543.3	16560.2
Mg 279.078	10053.6	10097.6	10116.2
Mn 257.610	6882.87	6886.97	6887.54
Mo 202.032	4.4408	4.6179	4.0151
Na 330.237	372.739u	530.032u	313.450u
Ni 231.604	284.395	283.595	281.161
Pb 220.353	191.800	196.136	196.698
Sb 206.834	-0.9830	-0.5339	-6.8202
Se 196.026	-4.6323	-7.9228	-2.3432
Sn 189.925	19.5261	16.4065	14.5707
Sr 216.596	40.0040	39.8142	39.6599
Ti 334.941	992.332	997.729	1000.81
Tl 190.794	10.7464u	13.3099u	12.3153u
V 292.401	323.056	323.405	324.185
Zn 206.200	349.973	348.603	350.487

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.8429	ppb	0.3727	20.2	-213.773
Al 308.215	152988	ppb	964.074	0.6	548646
As 188.980	86.7745	ppb	0.9975	1.1	61.7835
B 249.678	-31.4206	ppb	0.7547	2.4	-864.131
Ba 389.178	421.010	ppb	0.4843	0.1	12266.5
Be 313.042	15.1355	ppb	0.0292	0.2	31520.9
Ca 370.602	8816	ppb	59.70	0.7	-9930
Cd 226.502	-2.6551	ppb	0.2443	9.2	1239.03
Co 228.615	162.598	ppb	1.3487	0.8	2161.96
Cr 267.716	237.896	ppb	0.7557	0.3	12584.2
Cu 324.754	251.842	ppb	1.0390	0.4	13092.6
Fe 271.441	444713	ppb	392.779	0.1	913686
K 766.491	16553.4	ppb	8.9274	0.1	890254
Mg 279.078	10089.1	ppb	32.1630	0.3	26256.8
Mn 257.610	6885.80	ppb	2.5458	0.0	1892317
Mo 202.032	4.3579	ppb	0.3098	7.1	19.7149
Na 330.237	405.407	ppb	111.926	27.6	-147.536
Ni 231.604	283.050	ppb	1.6844	0.6	965.084
Pb 220.353	194.878	ppb	2.6804	1.4	441.723
Sb 206.834	-2.7790	ppb	3.5070	126.2	13.6201
Se 196.026	-4.9661	ppb	2.8047	56.5	3.4024
Sn 189.925	16.8344	ppb	2.5052	14.9	15.3604
Sr 216.596	39.8260	ppb	0.1724	0.4	763.807
Ti 334.941	996.957	ppb	4.2916	0.4	288499
Tl 190.794	12.1239	ppb	1.2924	10.7	-53.3956
V 292.401	323.548	ppb	0.5784	0.2	10218.6
Zn 206.200	349.688	ppb	0.9742	0.3	699.396

E04052013.wvq. All Data Report 4/8/2013, 10:52:27 AM

680-88915-a-21-d (Samp) 4/6/2013, 4:47:02 AM Rack 3, Tube 44

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-3.4348u	-3.1999u	-3.0783u
Al 308.215	151886	153103	152249
As 188.980	38.2353	34.8533	38.8996
B 249.678	4.9673u	5.4179u	5.0396u
Ba 389.178	384.472	388.049	387.205
Be 313.042	7.7126	7.7801	7.7495
Ca 370.602	10116	10172	10154
Cd 226.502	-0.7457	-0.7230	-0.5525
Co 228.615	25.5399	25.6808	26.1389
Cr 267.716	159.558	160.564	159.730
Cu 324.754	83.9084	84.3087	83.7846
Fe 271.441	127177	128273	127609
K 766.491	17076.8	17226.5	17204.0
Mg 279.078	12398.9	12513.5	12449.2
Mn 257.610	1037.59	1045.73	1040.80
Mo 202.032	1.6546	1.9983	1.9977
Na 330.237	316.800u	198.489u	68.3638u
Ni 231.604	109.635	110.231	111.249
Pb 220.353	32.9132	32.6380	35.5486
Sb 206.834	-1.3285	-4.6146u	-0.4813
Se 196.026	-4.3183u	-5.6011u	-7.6510u
Sn 189.925	13.5278	14.1784	18.1723
Sr 216.596	48.5611	48.1472	48.6233
Ti 334.941	914.116	922.244	917.396
Tl 190.794	3.5159u	5.6634u	2.7983u
V 292.401	129.600	131.108	129.763
Zn 206.200	176.819	180.726	176.866

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-3.2377	ppb	0.1812	5.6	-359.078
Al 308.215	152412	ppb	624.989	0.4	546585
As 188.980	37.3294	ppb	2.1699	5.8	28.7549
B 249.678	5.1416	ppb	0.2420	4.7	-33.3800
Ba 389.178	386.575	ppb	1.8699	0.5	10796.6
Be 313.042	7.7474	ppb	0.0338	0.4	15984.2
Ca 370.602	10147	ppb	28.18	0.3	27428
Cd 226.502	-0.6737	ppb	0.1056	15.7	366.181
Co 228.615	25.7865	ppb	0.3132	1.2	367.240
Cr 267.716	159.951	ppb	0.5381	0.3	8405.17
Cu 324.754	84.0006	ppb	0.2739	0.3	4281.05
Fe 271.441	127687	ppb	552.098	0.4	262335
K 766.491	17169.1	ppb	80.7535	0.5	923361
Mg 279.078	12453.9	ppb	57.4629	0.5	32474.8
Mn 257.610	1041.38	ppb	4.0974	0.4	286781
Mo 202.032	1.8835	ppb	0.1983	10.5	17.8457
Na 330.237	194.551	ppb	124.265	63.9	-45.1983
Ni 231.604	110.372	ppb	0.8160	0.7	375.471
Pb 220.353	33.6999	ppb	1.6068	4.8	74.9478
Sb 206.834	-2.1415	ppb	2.1833	102.0	5.5755
Se 196.026	-5.8568	ppb	1.6810	28.7	-1.1285
Sn 189.925	15.2928	ppb	2.5148	16.4	13.8056
Sr 216.596	48.4439	ppb	0.2588	0.5	720.803
Ti 334.941	917.919	ppb	4.0893	0.4	265599
Tl 190.794	3.9925	ppb	1.4909	37.3	-15.5464
V 292.401	130.157	ppb	0.8274	0.6	4113.88
Zn 206.200	178.137	ppb	2.2424	1.3	357.012

E04052013.wvq. All Data Report 4/8/2013, 10:52:27 AM

680-88915-a-22-b (Samp) 4/6/2013, 4:53:30 AM Rack 3, Tube 45

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-3.1837u	-3.1991u	-3.5650u
Al 308.215	139736	140334	141552
As 188.980	94.8403	93.1458	97.7166
B 249.678	-16.9301u	-17.2018u	-18.2311u
Ba 389.178	702.419	702.010	703.232
Be 313.042	14.6129	14.6216	14.6696
Ca 370.602	20614	20608	20578
Cd 226.502	-1.3241	-1.5056	-1.4564
Co 228.615	135.131	135.367	135.520
Cr 267.716	263.344	264.130	265.659
Cu 324.754	205.041	203.172	201.343
Fe 271.441	380467	380404	380515
K 766.491	21086.4	21044.2	21058.4
Mg 279.078	12620.2	12662.4	12659.6
Mn 257.610	7441.12	7437.93	7451.22
Mo 202.032	3.4565	2.3012u	3.9897
Na 330.237	501.060u	673.848u	456.416u
Ni 231.604	236.256	238.047	238.368
Pb 220.353	206.804	202.517	206.844
Sb 206.834	-6.4456	-4.4807	-1.7848
Se 196.026	-11.5328u	-1.8247	-9.0136u
Sn 189.925	14.3035	17.7831	22.9024
Sr 216.596	62.5847	63.9035	63.7390
Ti 334.941	790.715	791.318	795.387
Tl 190.794	13.5511u	11.9697u	8.3295u
V 292.401	258.173	258.255	258.591
Zn 206.200	611.586	608.753	612.007

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-3.3159	ppb	0.2159	6.5	-333.777
Al 308.215	140541	ppb	925.528	0.7	504010
As 188.980	95.2343	ppb	2.3107	2.4	69.0248
B 249.678	-17.4544	ppb	0.6863	3.9	-616.305
Ba 389.178	702.554	ppb	0.6221	0.1	19869.8
Be 313.042	14.6347	ppb	0.0305	0.2	30473.2
Ca 370.602	20600	ppb	19.73	0.1	43264
Cd 226.502	-1.4287	ppb	0.0939	6.6	1100.96
Co 228.615	135.339	ppb	0.1963	0.1	1798.94
Cr 267.716	264.378	ppb	1.1772	0.4	13953.4
Cu 324.754	203.185	ppb	1.8489	0.9	10546.8
Fe 271.441	380462	ppb	55.4994	0.0	781677
K 766.491	21063.0	ppb	21.4589	0.1	1132727
Mg 279.078	12647.4	ppb	23.6191	0.2	32911.6
Mn 257.610	7443.42	ppb	6.9378	0.1	2045222
Mo 202.032	3.2491	ppb	0.8632	26.6	14.1979
Na 330.237	543.775	ppb	114.837	21.1	-116.742
Ni 231.604	237.557	ppb	1.1381	0.5	810.263
Pb 220.353	205.389	ppb	2.4866	1.2	466.182
Sb 206.834	-4.2370	ppb	2.3399	55.2	10.7534
Se 196.026	-7.4570	ppb	5.0378	67.6	1.6426
Sn 189.925	18.3297	ppb	4.3254	23.6	16.8859
Sr 216.596	63.4091	ppb	0.7186	1.1	1048.65
Ti 334.941	792.473	ppb	2.5414	0.3	229326
Tl 190.794	11.2834	ppb	2.6776	23.7	-48.0704
V 292.401	258.340	ppb	0.2217	0.1	8153.39
Zn 206.200	610.782	ppb	1.7697	0.3	1220.87

E04052013.vvq. All Data Report 4/8/2013, 10:52:27 AM

680-88915-a-23-b (Samp) 4/6/2013, 5:00:07 AM Rack 3, Tube 46

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-2.5592u	-2.7409u	-2.5352u
Al 308.215	149882	149704	149778
As 188.980	19.6420	19.3285	21.3372
B 249.678	13.0888u	13.6577u	13.6793u
Ba 389.178	582.245	583.514	583.893
Be 313.042	8.7875	8.7952	8.7866
Ca 370.602	8233	8263	8268
Cd 226.502	-1.5807	-1.1237	-1.3602
Co 228.615	53.4287	54.3709	53.2514
Cr 267.716	162.275	162.092	161.786
Cu 324.754	80.4775	81.4366	80.6428
Fe 271.441	181004	181357	181380
K 766.491	20302.0	20392.9	20454.3
Mg 279.078	23690.4	23745.9	23731.6
Mn 257.610	4597.21	4602.35	4601.62
Mo 202.032	1.6481	1.5539	1.2518u
Na 330.237	155.211u	371.346u	165.027u
Ni 231.604	180.865	180.012	184.158
Pb 220.353	38.4125	41.3941	41.2599
Sb 206.834	-0.1457	0.1127	-8.0644u
Se 196.026	-11.0707u	-1.6040	-7.4341u
Sn 189.925	8.7672	15.8106	15.4627
Sr 216.596	36.6046	37.1597	36.3538
Ti 334.941	1986.31	1984.33	1992.87
Tl 190.794	12.6232u	8.8732u	11.6503u
V 292.401	151.928	152.525	151.938
Zn 206.200	246.549	248.049	246.943

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-2.6118	ppb	0.1125	4.3	-288.887
Al 308.215	149788	ppb	89.3150	0.1	537173
As 188.980	20.1026	ppb	1.0806	5.4	15.1885
B 249.678	13.4753	ppb	0.3349	2.5	2.5076
Ba 389.178	583.218	ppb	0.8633	0.1	16302.0
Be 313.042	8.7898	ppb	0.0047	0.1	18173.8
Ca 370.602	8255	ppb	18.75	0.2	14837
Cd 226.502	-1.3549	ppb	0.2286	16.9	497.924
Co 228.615	53.6837	ppb	0.6017	1.1	764.697
Cr 267.716	162.051	ppb	0.2470	0.2	8547.76
Cu 324.754	80.8523	ppb	0.5127	0.6	4133.91
Fe 271.441	181247	ppb	210.843	0.1	372379
K 766.491	20383.0	ppb	76.6474	0.4	1096167
Mg 279.078	23722.6	ppb	28.8531	0.1	61822.0
Mn 257.610	4600.39	ppb	2.7833	0.1	1264153
Mo 202.032	1.4846	ppb	0.2070	13.9	11.2042
Na 330.237	230.528	ppb	122.051	52.9	-72.4580
Ni 231.604	181.678	ppb	2.1893	1.2	616.880
Pb 220.353	40.3555	ppb	1.6840	4.2	90.3638
Sb 206.834	-2.6991	ppb	4.6482	172.2	6.3431
Se 196.026	-6.7029	ppb	4.7756	71.2	-0.1760
Sn 189.925	13.3469	ppb	3.9699	29.7	11.8279
Sr 216.596	36.7060	ppb	0.4125	1.1	589.657
Ti 334.941	1987.83	ppb	4.4689	0.2	575283
Tl 190.794	11.0489	ppb	1.9460	17.6	-19.5862
V 292.401	152.130	ppb	0.3416	0.2	4827.51
Zn 206.200	247.180	ppb	0.7779	0.3	494.926

E04052013.wvq. All Data Report 4/8/2013, 10:52:27 AM

680-88915-a-24-b (Samp) 4/6/2013, 5:06:35 AM Rack 3, Tube 47

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-3.1142u	-3.1513u	-3.7915u
Al 308.215	107592	106861	108999
As 188.980	45.6480	48.1796	40.5415
B 249.678	0.2673u	1.8428u	-0.6114u
Ba 389.178	703.077	698.962	705.455
Be 313.042	8.0057	7.9517	8.0633
Ca 370.602	9323	9293	9327
Cd 226.502	-1.0749	-1.0988	-1.1574
Co 228.615	105.240	103.777	104.708
Cr 267.716	139.585	138.509	140.880
Cu 324.754	152.640	152.030	153.226
Fe 271.441	191795	190886	192562
K 766.491	13615.2	13506.5	13617.2
Mg 279.078	12597.6	12532.9	12664.7
Mn 257.610	11904.5	11858.2	11983.7
Mo 202.032	2.2137	2.5704	2.6902
Na 330.237	204.169u	366.915u	509.125u
Ni 231.604	184.570	184.784	184.012
Pb 220.353	94.7357	96.6281	95.3264
Sb 206.834	-5.9063u	-6.4811u	-3.0174
Se 196.026	-2.7048	-6.6723	-13.9537u
Sn 189.925	12.7100	12.3278	15.7340
Sr 216.596	75.9479	76.1739	77.1156
Ti 334.941	1043.90	1034.17	1050.25
Tl 190.794	26.9908u	28.4022u	27.4352u
V 292.401	152.628	151.960	153.102
Zn 206.200	202.657	203.309	204.810

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-3.3523	ppb	0.3808	11.4	-314.535
Al 308.215	107817	ppb	1086.74	1.0	386658
As 188.980	44.7897	ppb	3.8907	8.7	33.5303
B 249.678	0.4996	ppb	1.2435	248.9	-168.063
Ba 389.178	702.498	ppb	3.2854	0.5	19549.6
Be 313.042	8.0069	ppb	0.0558	0.7	16520.0
Ca 370.602	9315	ppb	18.58	0.2	18002
Cd 226.502	-1.1104	ppb	0.0424	3.8	541.310
Co 228.615	104.575	ppb	0.7405	0.7	1407.63
Cr 267.716	139.658	ppb	1.1873	0.9	7413.62
Cu 324.754	152.632	ppb	0.5979	0.4	7864.48
Fe 271.441	191748	ppb	839.012	0.4	393961
K 766.491	13579.6	ppb	63.3147	0.5	730363
Mg 279.078	12598.4	ppb	65.9355	0.5	32662.1
Mn 257.610	11915.4	ppb	63.4716	0.5	3272346
Mo 202.032	2.4915	ppb	0.2479	10.0	19.1735
Na 330.237	360.070	ppb	152.593	42.4	-59.4300
Ni 231.604	184.455	ppb	0.3986	0.2	626.490
Pb 220.353	95.5634	ppb	0.9682	1.0	219.278
Sb 206.834	-5.1349	ppb	1.8562	36.1	3.7228
Se 196.026	-7.7770	ppb	5.7052	73.4	1.4686
Sn 189.925	13.5906	ppb	1.8661	13.7	12.0757
Sr 216.596	76.4125	ppb	0.6193	0.8	1125.66
Ti 334.941	1042.77	ppb	8.1009	0.8	301737
Tl 190.794	27.6094	ppb	0.7216	2.6	-13.5443
V 292.401	152.563	ppb	0.5735	0.4	4825.67
Zn 206.200	203.592	ppb	1.1039	0.5	407.936

E04052013.vvq. All Data Report 4/8/2013, 10:52:27 AM

680-88915-a-25-b (Samp) 4/6/2013, 5:13:02 AM Rack 3, Tube 48

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-3.5134u	-2.8332u	-3.3727u
Al 308.215	116921	117124	116874
As 188.980	91.6939	92.4145	90.7779
B 249.678	-10.1807u	-8.7291u	-8.8205u
Ba 389.178	597.132	597.087	596.760
Be 313.042	12.8195	12.8353	12.8142
Ca 370.602	18124	18130	18116
Cd 226.502	-1.9180	-1.6442	-1.8115
Co 228.615	138.651	142.173	140.965
Cr 267.716	261.106	261.257	260.464
Cu 324.754	201.568	204.368	201.719
Fe 271.441	280498	280787	280222
K 766.491	18008.4	18109.6	18068.9
Mg 279.078	11613.1	11612.4	11593.0
Mn 257.610	3928.49	3933.80	3919.59
Mo 202.032	2.2651	2.3745	2.9534
Na 330.237	544.317u	572.919u	506.741u
Ni 231.604	196.676	193.561	195.662
Pb 220.353	314.298	311.387	310.700
Sb 206.834	-10.2465u	-0.3297	-4.6159
Se 196.026	-8.0907u	-1.2656	-11.9095u
Sn 189.925	14.2147	15.1265	18.3373
Sr 216.596	60.4206	59.4370	59.7523
Ti 334.941	799.736	801.372	800.887
Tl 190.794	3.7651u	7.8876u	12.6853u
V 292.401	238.080	238.815	238.299
Zn 206.200	405.098	411.741	407.002

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-3.2398	ppb	0.3591	11.1	-345.151
Al 308.215	116973	ppb	133.031	0.1	419491
As 188.980	91.6288	ppb	0.8202	0.9	67.5396
B 249.678	-9.2434	ppb	0.8130	8.8	-395.061
Ba 389.178	596.993	ppb	0.2028	0.0	16810.2
Be 313.042	12.8230	ppb	0.0110	0.1	26660.1
Ca 370.602	18123	ppb	7.087	0.0	43483
Cd 226.502	-1.7913	ppb	0.1380	7.7	780.863
Co 228.615	140.596	ppb	1.7899	1.3	1872.36
Cr 267.716	260.942	ppb	0.4210	0.2	13731.4
Cu 324.754	202.552	ppb	1.5749	0.8	10483.3
Fe 271.441	280503	ppb	282.496	0.1	576314
K 766.491	18062.3	ppb	50.9602	0.3	971386
Mg 279.078	11606.2	ppb	11.4288	0.1	30251.4
Mn 257.610	3927.29	ppb	7.1803	0.2	1079571
Mo 202.032	2.5310	ppb	0.3699	14.6	14.0287
Na 330.237	541.326	ppb	33.1905	6.1	-79.6877
Ni 231.604	195.300	ppb	1.5886	0.8	665.372
Pb 220.353	312.128	ppb	1.9102	0.6	707.512
Sb 206.834	-5.0640	ppb	4.9736	98.2	7.3373
Se 196.026	-7.0886	ppb	5.3922	76.1	0.0961
Sn 189.925	15.8928	ppb	2.1655	13.6	14.4143
Sr 216.596	59.8700	ppb	0.5022	0.8	951.042
Ti 334.941	800.665	ppb	0.8398	0.1	231679
Tl 190.794	8.1127	ppb	4.4644	55.0	-33.6795
V 292.401	238.398	ppb	0.3772	0.2	7524.06
Zn 206.200	407.947	ppb	3.4208	0.8	815.691

E04052013.vvq. All Data Report 4/8/2013, 10:52:27 AM

Cont Calib Verif (CCV) 4/6/2013, 5:19:29 AM Rack 3, Tube 49  
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	508.290	502.240	511.577
Al 308.215	5000.54	5003.86	5095.99
As 188.980	481.432	488.025	491.912
B 249.678	504.499	509.402	511.596
Ba 389.178	4779.23	4783.28	4793.44
Be 313.042	478.670	478.028	479.702
Ca 370.602	4874	4881	4910
Cd 226.502	472.198	473.691	474.864
Co 228.615	484.141	485.674	485.467
Cr 267.716	4842.96	4830.23	4862.03
Cu 324.754	4772.99	4831.76	4748.31
Fe 271.441	5125.56	5221.83	5345.93
K 766.491	9900.45	9896.05	9909.27
Mg 279.078	4828.59	4846.04	4870.82
Mn 257.610	4795.55	4796.91	4824.88
Mo 202.032	486.397	487.165	489.461
Na 330.237	7125.00	7068.36	7101.54
Ni 231.604	2365.17	2391.30	2360.31
Pb 220.353	486.598	489.154	492.583
Sb 206.834	969.070	960.185	973.019
Se 196.026	4783.27	4808.60	4811.47
Sn 189.925	4891.41	4872.22	4910.72
Sr 216.596	2368.45	2362.61	2377.43
Ti 334.941	491.380	489.825	492.302
Tl 190.794	4923.76	4925.76	4951.31
V 292.401	4842.75	4852.90	4859.29
Zn 206.200	2390.88	2401.45	2399.34

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	507.369	ppb	4.7358	0.9	41669.4	101.47376
Al 308.215	5033.46	ppb	54.1797	1.1	18043.1	100.66926
As 188.980	487.123	ppb	5.2979	1.1	366.418	97.42455
B 249.678	508.499	ppb	3.6338	0.7	6231.61	20.33996Q
Ba 389.178	4785.32	ppb	7.3232	0.2	130943	95.70634
Be 313.042	478.800	ppb	0.8446	0.2	1007354	95.76005
Ca 370.602	4888	ppb	18.91	0.4	19165	97.76349
Cd 226.502	473.584	ppb	1.3362	0.3	22004.0	94.71690
Co 228.615	485.094	ppb	0.8319	0.2	6411.90	97.01883
Cr 267.716	4845.08	ppb	16.0016	0.3	253024	96.90151
Cu 324.754	4784.35	ppb	42.8700	0.9	248280	95.68709
Fe 271.441	5231.10	ppb	110.478	2.1	10891.2	104.62208
K 766.491	9901.92	ppb	6.7304	0.1	532620	99.01923
Mg 279.078	4848.48	ppb	21.2222	0.4	12575.9	96.96966
Mn 257.610	4805.78	ppb	16.5559	0.3	1319785	96.11566
Mo 202.032	487.674	ppb	1.5943	0.3	4163.04	97.53483
Na 330.237	7098.30	ppb	28.4555	0.4	401.677	94.64402
Ni 231.604	2372.26	ppb	16.6652	0.7	7984.27	94.89035
Pb 220.353	489.445	ppb	3.0036	0.6	1111.28	97.88897
Sb 206.834	967.425	ppb	6.5735	0.7	1098.16	96.74247
Se 196.026	4801.11	ppb	15.5175	0.3	2845.62	96.02229
Sn 189.925	4891.45	ppb	19.2505	0.4	4962.91	97.82900
Sr 216.596	2369.50	ppb	7.4689	0.3	31602.0	94.77983
Ti 334.941	491.169	ppb	1.2522	0.3	142042	98.23381
Tl 190.794	4933.61	ppb	15.3639	0.3	6336.95	98.67222
V 292.401	4851.65	ppb	8.3372	0.2	152809	97.03297
Zn 206.200	2397.22	ppb	5.5940	0.2	4771.46	95.88882

E04052013.vvq. All Data Report 4/8/2013, 10:52:27 AM

Cont Calib Blank (CCB) 4/6/2013, 5:25:56 AM Rack 3, Tube 50

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.3210	0.6735	0.1462
Al 308.215	3.7300	11.6985	7.6839
As 188.980	-8.8185u	-1.9681u	-6.1761u
B 249.678	9.3202	6.4654	7.3725
Ba 389.178	0.5198	1.7034	1.7889
Be 313.042	0.0668	0.0952	0.1241
Ca 370.602	5.131	3.957	8.662
Cd 226.502	0.1290	0.0480	0.2094
Co 228.615	0.1001	-0.5338u	-0.2730u
Cr 267.716	0.3839	0.5923	0.9001
Cu 324.754	1.1715	1.4392	1.8486
Fe 271.441	11.5166	16.0573	17.9761
K 766.491	4.5658	5.5193	6.1689
Mg 279.078	0.7858	4.9476	-0.0100u
Mn 257.610	-0.2328u	0.1882	0.5179
Mo 202.032	0.1499	0.3891	0.5529
Na 330.237	-32.3601u	-140.313u	49.9854
Ni 231.604	-0.2051u	-0.8953u	1.0998
Pb 220.353	-0.2807u	-0.2968u	0.6553
Sb 206.834	-2.1549u	5.8945	0.0211
Se 196.026	3.8916	6.3837	0.5716
Sn 189.925	0.4382	2.5041	1.9629
Sr 216.596	0.1315	0.3324	0.3901
Ti 334.941	0.3418	0.2763	0.3455
Tl 190.794	7.2100	2.7769	9.4593
V 292.401	0.5475	0.8917	1.2847
Zn 206.200	0.4510	-0.7349u	0.0202

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.3802	ppb	0.2686	70.6	-64.7225	0.38023
Al 308.215	7.7041	ppb	3.9843	51.7	32.6829	7.70413
As 188.980	-5.6542	ppb	3.4549	61.1	-1.9085	-5.65425
B 249.678	7.7194	ppb	1.4586	18.9	153.654	7.71938
Ba 389.178	1.3373	ppb	0.7093	53.0	1.8185	1.33734
Be 313.042	0.0954	ppb	0.0287	30.1	-134.370	0.09538
Ca 370.602	5.916	ppb	2.449	41.4	16.84	5.91639
Cd 226.502	0.1288	ppb	0.0807	62.7	14.4520	0.12881
Co 228.615	-0.2356	ppb	0.3186	135.3	1.3633	-0.23556
Cr 267.716	0.6254	ppb	0.2597	41.5	44.0008	0.62544
Cu 324.754	1.4865	ppb	0.3410	22.9	-41.8107	1.48645
Fe 271.441	15.1834	ppb	3.3173	21.8	30.3478	15.18336
K 766.491	5.4180	ppb	0.8063	14.9	505.756	5.41800
Mg 279.078	1.9078	ppb	2.6624	139.6	26.3134	1.90783
Mn 257.610	0.1578	ppb	0.3763	238.5	389.553	0.15779
Mo 202.032	0.3640	ppb	0.2026	55.7	12.7455	0.36396
Na 330.237	-40.8961	ppb	95.4361	233.4	-4.0833	-40.89606
Ni 231.604	-0.0002	ppb	1.0132	479101.4	0.5413	-0.00021
Pb 220.353	0.0260	ppb	0.5451	2099.8	2.5916	0.02596
Sb 206.834	1.2536	ppb	4.1639	332.2	4.3333	1.25357
Se 196.026	3.6156	ppb	2.9159	80.6	3.2639	3.61560
Sn 189.925	1.6351	ppb	1.0713	65.5	-0.0581	1.63508
Sr 216.596	0.2847	ppb	0.1358	47.7	13.0616	0.28467
Ti 334.941	0.3212	ppb	0.0389	12.1	-28.2991	0.32123
Tl 190.794	6.4821	ppb	3.4001	52.5	4.5841	6.48209
V 292.401	0.9080	ppb	0.3689	40.6	26.9117	0.90798
Zn 206.200	-0.0879	ppb	0.6003	682.8	41.6076	-0.08790



E04052013.wvq. All Data Report 4/8/2013, 10:52:27 AM

680-88915-a-26-b (Samp) 4/6/2013, 5:32:24 AM Rack 3, Tube 51

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-3.1994u	-2.9713u	-2.3074u
Al 308.215	89205.5	88748.8	87700.6
As 188.980	60.8962	58.6878	61.3792
B 249.678	-3.1076u	-0.9134u	-2.3280u
Ba 389.178	449.604	448.573	446.690
Be 313.042	9.0222	9.0034	8.9574
Ca 370.602	13614	13603	13593
Cd 226.502	-1.5177	-1.7782	-1.3333
Co 228.615	82.5513	83.3043	81.8214
Cr 267.716	161.439	160.980	159.859
Cu 324.754	126.242	125.519	126.795
Fe 271.441	223546	223297	222913
K 766.491	13503.2	13511.2	13460.6
Mg 279.078	8576.48	8556.25	8525.65
Mn 257.610	2020.24	2013.89	2009.20
Mo 202.032	2.3434	2.5664	2.3943
Na 330.237	326.120u	242.020u	363.397u
Ni 231.604	169.128	167.130	165.911
Pb 220.353	198.106	198.135	198.782
Sb 206.834	-2.9882	-1.2024	-4.2690
Se 196.026	-2.1950	4.0343	-4.3789u
Sn 189.925	16.3329	13.1792	15.0945
Sr 216.596	43.6120	43.3875	43.0623
Ti 334.941	860.074	859.289	851.688
Tl 190.794	7.6182u	8.4310u	5.2565u
V 292.401	174.370	173.959	173.742
Zn 206.200	371.167	369.607	369.689

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-2.8260	ppb	0.4634	16.4	-320.332
Al 308.215	88551.6	ppb	771.542	0.9	317567
As 188.980	60.3211	ppb	1.4349	2.4	44.7988
B 249.678	-2.1163	ppb	1.1123	52.6	-238.106
Ba 389.178	448.289	ppb	1.4774	0.3	12634.6
Be 313.042	8.9943	ppb	0.0333	0.4	18600.4
Ca 370.602	13603	ppb	10.20	0.1	31403
Cd 226.502	-1.5431	ppb	0.2235	14.5	616.674
Co 228.615	82.5590	ppb	0.7415	0.9	1110.65
Cr 267.716	160.759	ppb	0.8128	0.5	8475.57
Cu 324.754	126.185	ppb	0.6402	0.5	6500.67
Fe 271.441	223252	ppb	319.031	0.1	458682
K 766.491	13491.6	ppb	27.2026	0.2	725632
Mg 279.078	8552.79	ppb	25.5909	0.3	22318.8
Mn 257.610	2014.45	ppb	5.5399	0.3	554203
Mo 202.032	2.4347	ppb	0.1169	4.8	16.7771
Na 330.237	310.512	ppb	62.1751	20.0	-73.3892
Ni 231.604	167.389	ppb	1.6244	1.0	569.887
Pb 220.353	198.341	ppb	0.3825	0.2	449.755
Sb 206.834	-2.8199	ppb	1.5402	54.6	7.2369
Se 196.026	-0.8465	ppb	4.3657	515.7	2.8067
Sn 189.925	14.8689	ppb	1.5890	10.7	13.3743
Sr 216.596	43.3539	ppb	0.2764	0.6	700.886
Ti 334.941	857.017	ppb	4.6318	0.5	247964
Tl 190.794	7.1019	ppb	1.6490	23.2	-24.5894
V 292.401	174.023	ppb	0.3189	0.2	5498.87
Zn 206.200	370.155	ppb	0.8779	0.2	749.588

E04052013.vvq. All Data Report 4/8/2013, 10:52:27 AM

680-88975-a-1-a (Samp) 4/6/2013, 5:38:51 AM Rack 3, Tube 52

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	5.2049	4.2534	4.5446
Al 308.215	73719.9	73838.1	74059.9
As 188.980	106.728	100.836	98.8727
B 249.678	468.613	471.349	474.323
Ba 389.178	16653.6x	16654.9x	16677.5x
Be 313.042	25.5744	25.5509	25.6075
Ca 370.602	119486	119562	119902
Cd 226.502	261.884	261.799	261.713
Co 228.615	151.938	153.439	151.948
Cr 267.716	4375.22	4383.93	4391.61
Cu 324.754	3564.34	3578.54	3593.32
Fe 271.441	723580	720684	723790
K 766.491	7729.70	7718.96	7739.17
Mg 279.078	24028.0	24077.0	24103.6
Mn 257.610	5521.10	5532.86	5520.71
Mo 202.032	315.978	318.537	318.574
Na 330.237	3310.19u	3225.42u	3220.56u
Ni 231.604	2848.02	2826.90	2837.97
Pb 220.353	4190.50	4189.53	4203.66
Sb 206.834	60.5541	53.1966	60.2164
Se 196.026	-14.9227u	-7.1452	-17.1828u
Sn 189.925	105.911	106.554	115.247
Sr 216.596	2370.33	2372.58	2376.90
Ti 334.941	12814.3	12815.7	12865.3
Tl 190.794	8.8154u	8.1642u	3.0197u
V 292.401	222.311	223.113	223.383
Zn 206.200	39548.5x	39504.2x	39571.3x

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	4.6676b	ppb	0.4875	10.4	197.752
Al 308.215	73872.6b	ppb	172.627	0.2	264951
As 188.980	102.146b	ppb	4.0880	4.0	70.8407
B 249.678	471.428b	ppb	2.8555	0.6	4905.58
Ba 389.178	16662.0xb	ppb	13.4378	0.1	457176
Be 313.042	25.5776b	ppb	0.0284	0.1	53477.3
Ca 370.602	119650b	ppb	221.7	0.2	403488
Cd 226.502	261.799b	ppb	0.0854	0.0	14361.1
Co 228.615	152.442b	ppb	0.8638	0.6	2372.06
Cr 267.716	4383.59b	ppb	8.2016	0.2	229187
Cu 324.754	3578.73b	ppb	14.4909	0.4	185942
Fe 271.441	722684b	ppb	1735.77	0.2	1484782
K 766.491	7729.27b	ppb	10.1138	0.1	415801
Mg 279.078	24069.5b	ppb	38.3220	0.2	62856.9
Mn 257.610	5524.89b	ppb	6.9026	0.1	1519743
Mo 202.032	317.696b	ppb	1.4882	0.5	2679.16
Na 330.237	3252.06b	ppb	50.4027	1.5	-529.619
Ni 231.604	2837.63b	ppb	10.5653	0.4	9569.72
Pb 220.353	4194.56b	ppb	7.8923	0.2	9495.76
Sb 206.834	57.9890b	ppb	4.1538	7.2	125.844
Se 196.026	-13.0836b	ppb	5.2655	40.2	0.1510
Sn 189.925	109.238b	ppb	5.2146	4.8	109.192
Sr 216.596	2373.27b	ppb	3.3419	0.1	32032.0
Ti 334.941	12831.8b	ppb	29.0937	0.2	3713511
Tl 190.794	6.6664b	ppb	3.1749	47.6	-90.8140
V 292.401	222.936b	ppb	0.5576	0.3	6889.36
Zn 206.200	39541.3xb	ppb	34.1197	0.1	78974.5

E04052013.wvq. All Data Report 4/8/2013, 10:52:27 AM

680-88975-a-2-a (Samp) 4/6/2013, 5:45:18 AM Rack 3, Tube 53

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	5.8183	6.3012	5.8597
Al 308.215	141033	140688	139590
As 188.980	141.514	129.345	133.164
B 249.678	952.173	957.308	959.888
Ba 389.178	11504.4x	11503.0x	11472.3x
Be 313.042	34.1062	34.1025	34.0110
Ca 370.602	412795	414274	410942
Cd 226.502	6.7343	6.8411	7.1536
Co 228.615	193.798	193.130	194.425
Cr 267.716	4950.79	4947.55	4920.33
Cu 324.754	9530.54	9391.44	9497.41
Fe 271.441	503843	503905	502838
K 766.491	20341.2	20424.1	20434.3
Mg 279.078	61707.7	61744.2	61558.4
Mn 257.610	11112.5	11093.6	11094.1
Mo 202.032	543.331	541.891	538.511
Na 330.237	3664.40u	3589.22u	3486.58u
Ni 231.604	3281.48	3240.92	3230.51
Pb 220.353	157.852	157.086	164.167
Sb 206.834	69.0619	83.9331	90.1456
Se 196.026	-4.4742	-0.9004	-7.9976
Sn 189.925	59.1273	58.6706	57.1946
Sr 216.596	2990.60	2995.93	2969.99
Ti 334.941	14962.7	14971.0	14844.0
Tl 190.794	17.8573u	17.3703u	13.7030u
V 292.401	404.095	403.844	403.328
Zn 206.200	8371.67	8348.77	8354.88

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	5.9931b	ppb	0.2677	4.5	305.689
Al 308.215	140437b	ppb	753.505	0.5	503681
As 188.980	134.674b	ppb	6.2233	4.6	100.799
B 249.678	956.456b	ppb	3.9274	0.4	11066.5
Ba 389.178	11493.2xb	ppb	18.1236	0.2	315491
Be 313.042	34.0732b	ppb	0.0539	0.2	71437.3
Ca 370.602	412670b	ppb	1670	0.4	1587557
Cd 226.502	6.9097b	ppb	0.2179	3.2	1863.28
Co 228.615	193.784b	ppb	0.6479	0.3	2982.62
Cr 267.716	4939.56b	ppb	16.7316	0.3	258200
Cu 324.754	9473.13b	ppb	72.6618	0.8	491953
Fe 271.441	503528b	ppb	599.005	0.1	1034544
K 766.491	20399.8b	ppb	51.0707	0.3	1097071
Mg 279.078	61670.1b	ppb	98.4360	0.2	160791
Mn 257.610	11100.1b	ppb	10.7687	0.1	3049996
Mo 202.032	541.244b	ppb	2.4739	0.5	4600.81
Na 330.237	3580.07b	ppb	89.2643	2.5	-174.771
Ni 231.604	3250.97b	ppb	26.9332	0.8	10954.9
Pb 220.353	159.702b	ppb	3.8857	2.4	352.247
Sb 206.834	81.0468b	ppb	10.8341	13.4	148.002
Se 196.026	-4.4574b	ppb	3.5486	79.6	5.3890
Sn 189.925	58.3308b	ppb	1.0102	1.7	57.6817
Sr 216.596	2985.51b	ppb	13.6975	0.5	40118.4
Ti 334.941	14925.9b	ppb	71.0338	0.5	4319701
Tl 190.794	16.3102b	ppb	2.2710	13.9	-63.2547
V 292.401	403.756b	ppb	0.3908	0.1	12548.1
Zn 206.200	8358.44b	ppb	11.8587	0.1	16679.6

E04052013.vvq. All Data Report 4/8/2013, 10:52:27 AM

680-88980-b-8-a (Samp) 4/6/2013, 5:51:45 AM Rack 3, Tube 54

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.4747	1.5597	0.2396
Al 308.215	88059.2	89404.8	89318.4
As 188.980	256.350	257.465	269.291
B 249.678	33.2141u	29.8502u	30.3807u
Ba 389.178	6600.64	6623.75	6616.23
Be 313.042	15.0722	15.1641	15.1384
Ca 370.602	105799	106346	106343
Cd 226.502	16.9081	16.6535	16.4220
Co 228.615	297.804	295.318	296.751
Cr 267.716	351.352	354.458	353.731
Cu 324.754	488.357	488.956	491.521
Fe 271.441	410084	409036	409196
K 766.491	10759.1	10787.4	10759.8
Mg 279.078	13186.3	13237.1	13254.3
Mn 257.610	58469.0x	58531.2x	58609.1x
Mo 202.032	25.6363	25.1540	25.6906
Na 330.237	1048.33u	954.183u	1017.89u
Ni 231.604	146.333	149.136	148.531
Pb 220.353	2605.90	2626.08	2620.72
Sb 206.834	11.8424	7.7108	17.3055
Se 196.026	5.4116	-0.1740	14.3438
Sn 189.925	76.8613	80.1796	73.7422
Sr 216.596	653.796	660.705	660.769
Ti 334.941	1213.42	1223.81	1224.30
Tl 190.794	152.806	156.486	155.930
V 292.401	447.397	447.440	446.336
Zn 206.200	7154.10	7168.50	7163.58

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.7580b	ppb	0.7041	92.9	234.666
Al 308.215	88927.4b	ppb	753.193	0.8	318914
As 188.980	261.036b	ppb	7.1713	2.7	193.520
B 249.678	31.1483b	ppb	1.8086	5.8	-61.1259
Ba 389.178	6613.54b	ppb	11.7884	0.2	181660
Be 313.042	15.1249b	ppb	0.0474	0.3	31502.4
Ca 370.602	106163b	ppb	314.8	0.3	381239
Cd 226.502	16.6612b	ppb	0.2431	1.5	2028.73
Co 228.615	296.624b	ppb	1.2477	0.4	3937.23
Cr 267.716	353.181b	ppb	1.6246	0.5	18841.4
Cu 324.754	489.611b	ppb	1.6805	0.3	25427.5
Fe 271.441	409439b	ppb	564.871	0.1	841241
K 766.491	10768.8b	ppb	16.1011	0.1	579230
Mg 279.078	13225.9b	ppb	35.3691	0.3	33413.8
Mn 257.610	58536.4xb	ppb	70.1807	0.1	16072340
Mo 202.032	25.4936b	ppb	0.2954	1.2	202.014
Na 330.237	1006.80b	ppb	48.0439	4.8	-160.959
Ni 231.604	148.000b	ppb	1.4751	1.0	509.627
Pb 220.353	2617.57b	ppb	10.4490	0.4	5947.42
Sb 206.834	12.2862b	ppb	4.8127	39.2	29.9757
Se 196.026	6.5271b	ppb	7.3229	112.2	25.5282
Sn 189.925	76.9277b	ppb	3.2192	4.2	76.4033
Sr 216.596	658.423b	ppb	4.0076	0.6	9025.93
Ti 334.941	1220.51b	ppb	6.1436	0.5	353199
Tl 190.794	155.074b	ppb	1.9839	1.3	35.6290
V 292.401	447.058b	ppb	0.6250	0.1	14111.5
Zn 206.200	7162.06b	ppb	7.3155	0.1	14207.7

E04052013.vvq. All Data Report 4/8/2013, 10:52:27 AM

680-88980-b-8-aSD^5 (Samp) 4/6/2013, 5:58:23 AM Rack 3, Tube 55

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.0748	0.3581	0.1973
Al 308.215	19415.6	20569.4	19184.6
As 188.980	53.3414	60.3765	52.9341
B 249.678	10.0773	9.7881	10.4458
Ba 389.178	1465.09	1551.93	1462.20
Be 313.042	3.3449	3.5394	3.3206
Ca 370.602	23078	24363	23051
Cd 226.502	3.3819	4.1268	3.3551
Co 228.615	65.3395	69.1637	65.3314
Cr 267.716	78.2626	82.9750	77.8560
Cu 324.754	109.782	112.710	106.070
Fe 271.441	92831.0	98232.5	92228.4
K 766.491	2240.31	2338.03	2235.84
Mg 279.078	2987.70	3146.35	2969.01
Mn 257.610	15276.1	16288.3	15327.9
Mo 202.032	5.2699	5.9742	5.7834
Na 330.237	271.126u	280.974u	295.555u
Ni 231.604	33.9484	34.9549	33.5480
Pb 220.353	583.217	613.955	579.857
Sb 206.834	6.3771	3.6545	-1.3456
Se 196.026	-4.2875	3.3285	5.6502
Sn 189.925	17.4565	18.3899	15.1828
Sr 216.596	147.350	155.204	145.057
Ti 334.941	263.006	282.871	265.568
Tl 190.794	43.5881	40.4543	37.0414
V 292.401	98.4731	104.564	98.5988
Zn 206.200	1625.01	1708.44	1604.98

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1602	ppb	0.2188	136.6	-9.9736
Al 308.215	19723.2	ppb	741.867	3.8	70735.6
As 188.980	55.5507	ppb	4.1842	7.5	42.9300
B 249.678	10.1038	ppb	0.3296	3.3	67.5270
Ba 389.178	1493.08	ppb	50.9939	3.4	40988.0
Be 313.042	3.4016	ppb	0.1199	3.5	6824.40
Ca 370.602	23497	ppb	749.4	3.2	84090
Cd 226.502	3.6213	ppb	0.4380	12.1	463.911
Co 228.615	66.6116	ppb	2.2103	3.3	887.448
Cr 267.716	79.6978	ppb	2.8453	3.6	4272.59
Cu 324.754	109.521	ppb	3.3276	3.0	5596.33
Fe 271.441	94430.7	ppb	3306.26	3.5	194018
K 766.491	2271.40	ppb	57.7509	2.5	122343
Mg 279.078	3034.35	ppb	97.4384	3.2	7638.22
Mn 257.610	15630.8	ppb	570.005	3.6	4291938
Mo 202.032	5.6758	ppb	0.3643	6.4	52.2768
Na 330.237	282.552	ppb	12.2908	4.3	-35.1140
Ni 231.604	34.1504	ppb	0.7249	2.1	118.008
Pb 220.353	592.343	ppb	18.7920	3.2	1348.56
Sb 206.834	2.8954	ppb	3.9169	135.3	9.2547
Se 196.026	1.5637	ppb	5.1986	332.4	7.4285
Sn 189.925	17.0097	ppb	1.6496	9.7	15.5560
Sr 216.596	149.204	ppb	5.3212	3.6	2053.28
Ti 334.941	270.481	ppb	10.8055	4.0	78180.0
Tl 190.794	40.3612	ppb	3.2743	8.1	7.1513
V 292.401	100.545	ppb	3.4807	3.5	3172.42
Zn 206.200	1646.14	ppb	54.8686	3.3	3289.90

E04052013.vvq. All Data Report 4/8/2013, 10:52:27 AM

680-88980-b-8-aPDS (Samp) 4/6/2013, 6:04:50 AM Rack 3, Tube 56

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	51.0860	50.6648	50.2823
Al 308.215	88858.5	89643.0	89607.0
As 188.980	2449.48	2451.23	2444.60
B 249.678	13.4373u	13.8574u	14.5039u
Ba 389.178	8519.19	8538.52	8517.73
Be 313.042	64.5373	64.7265	64.5489
Ca 370.602	104575	104847	104754
Cd 226.502	64.6395	64.5548	64.2949
Co 228.615	784.830	787.825	793.008
Cr 267.716	546.885	549.517	548.322
Cu 324.754	749.850	741.369	739.633
Fe 271.441	405814	405877	403956
K 766.491	10668.0	10645.3	10614.2
Mg 279.078	13019.7	13069.0	13063.6
Mn 257.610	58207.1x	58330.3x	58170.4x
Mo 202.032	24.2728	25.5286	24.6502
Na 330.237	928.185u	972.426u	955.450u
Ni 231.604	633.303	638.314	638.584
Pb 220.353	3017.93	3018.76	3019.37
Sb 206.834	493.245	490.752	490.187
Se 196.026	1953.73	1977.44	1953.81
Sn 189.925	69.0370	73.7261	74.1755
Sr 216.596	648.400	653.508	650.007
Ti 334.941	1200.33	1206.25	1204.42
Tl 190.794	2054.21	2062.18	2048.00
V 292.401	921.289	922.399	917.639
Zn 206.200	7538.48	7565.20	7560.37

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	50.6777b	ppb	0.4020	0.8	4351.83
Al 308.215	89369.5b	ppb	442.887	0.5	320494
As 188.980	2448.44b	ppb	3.4337	0.1	1829.32
B 249.678	13.9328b	ppb	0.5373	3.9	-265.003
Ba 389.178	8525.15b	ppb	11.6061	0.1	233960
Be 313.042	64.6042b	ppb	0.1060	0.2	135645
Ca 370.602	104725b	ppb	138.2	0.1	375976
Cd 226.502	64.4964b	ppb	0.1795	0.3	4235.59
Co 228.615	788.554b	ppb	4.1375	0.5	10425.5
Cr 267.716	548.241b	ppb	1.3178	0.2	29020.6
Cu 324.754	743.617b	ppb	5.4670	0.7	38610.8
Fe 271.441	405216b	ppb	1090.97	0.3	832659
K 766.491	10642.5b	ppb	27.0132	0.3	572438
Mg 279.078	13050.8b	ppb	27.0650	0.2	32962.1
Mn 257.610	58235.9xb	ppb	83.7902	0.1	15989819
Mo 202.032	24.8172b	ppb	0.6443	2.6	195.440
Na 330.237	952.020b	ppb	22.3192	2.3	-166.062
Ni 231.604	636.734b	ppb	2.9738	0.5	2154.29
Pb 220.353	3018.69b	ppb	0.7253	0.0	6855.89
Sb 206.834	491.395b	ppb	1.6272	0.3	550.137
Se 196.026	1961.66b	ppb	13.6636	0.7	1183.15
Sn 189.925	72.3128b	ppb	2.8459	3.9	71.7187
Sr 216.596	650.638b	ppb	2.6121	0.4	8909.14
Ti 334.941	1203.67b	ppb	3.0300	0.3	348323
Tl 190.794	2054.79b	ppb	7.1096	0.3	2481.50
V 292.401	920.442b	ppb	2.4901	0.3	29051.4
Zn 206.200	7554.68b	ppb	14.2389	0.2	15091.3

E04052013.vvq. All Data Report 4/8/2013, 10:52:27 AM

680-88980-b-8-d ms (Samp)      4/6/2013, 6:11:17 AM      Rack 3, Tube 57  
 Weight: 1      Volume: 1      Dilution: 1

Label	Replicates Concentration		
Ag 328.068	27.8693	26.6109	27.3097
Al 308.215	97364.2	97398.5	97092.1
As 188.980	357.750	352.653	353.227
B 249.678	191.048	192.669	193.200
Ba 389.178	2262.14	2259.15	2262.52
Be 313.042	61.5926	61.6379	61.5528
Ca 370.602	117768	117761	117649
Cd 226.502	61.2735	61.0062	61.5620
Co 228.615	156.328	153.060	153.157
Cr 267.716	467.672	466.672	466.023
Cu 324.754	739.954	729.666	744.715
Fe 271.441	341246	340905	341966
K 766.491	17126.1	17114.2	17142.6
Mg 279.078	19187.4	19120.4	19116.9
Mn 257.610	8735.39	8736.62	8726.64
Mo 202.032	109.728	110.658	109.710
Na 330.237	5714.35	6085.97	6040.57
Ni 231.604	248.762	251.117	253.043
Pb 220.353	2825.34	2834.90	2826.71
Sb 206.834	25.1847	31.1182	28.2646
Se 196.026	79.0457	82.9627	83.8369
Sn 189.925	312.219	311.746	312.925
Sr 216.596	712.685	711.934	707.967
Ti 334.941	1476.65	1478.15	1474.94
Tl 190.794	56.4992	52.0851	54.6246
V 292.401	451.518	452.031	452.571
Zn 206.200	8034.55	8034.82	8024.16

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	27.2633	ppb	0.6305	2.3	2162.36
Al 308.215	97284.9	ppb	167.869	0.2	348892
As 188.980	354.544	ppb	2.7919	0.8	264.378
B 249.678	192.306	ppb	1.1211	0.6	1980.07
Ba 389.178	2261.27	ppb	1.8481	0.1	62475.1
Be 313.042	61.5944	ppb	0.0426	0.1	129339
Ca 370.602	117726	ppb	67.12	0.1	432295
Cd 226.502	61.2806	ppb	0.2780	0.5	3892.07
Co 228.615	154.181	ppb	1.8593	1.2	2065.71
Cr 267.716	466.789	ppb	0.8305	0.2	24519.0
Cu 324.754	738.112	ppb	7.6916	1.0	38312.5
Fe 271.441	341372	ppb	541.448	0.2	701374
K 766.491	17127.6	ppb	14.2718	0.1	921129
Mg 279.078	19141.6	ppb	39.7244	0.2	49838.4
Mn 257.610	8732.88	ppb	5.4418	0.1	2399164
Mo 202.032	110.032	ppb	0.5421	0.5	927.971
Na 330.237	5946.97	ppb	202.724	3.4	153.137
Ni 231.604	250.974	ppb	2.1439	0.9	854.355
Pb 220.353	2828.98	ppb	5.1682	0.2	6411.01
Sb 206.834	28.1892	ppb	2.9675	10.5	45.8512
Se 196.026	81.9484	ppb	2.5516	3.1	54.6946
Sn 189.925	312.297	ppb	0.5933	0.2	315.303
Sr 216.596	710.862	ppb	2.5352	0.4	9687.17
Ti 334.941	1476.58	ppb	1.6066	0.1	427324
Tl 190.794	54.4030	ppb	2.2154	4.1	9.6313
V 292.401	452.040	ppb	0.5266	0.1	14246.0
Zn 206.200	8031.18	ppb	6.0774	0.1	16943.5

E04052013.vvq. All Data Report 4/8/2013, 10:52:27 AM

**680-88980-b-8-e msd (Samp) 4/6/2013, 6:17:45 AM Rack 3, Tube 58****Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	27.1041	27.4970	26.6601
Al 308.215	87885.9	88448.5	88755.5
As 188.980	308.944	312.057	314.113
B 249.678	205.524	203.437	209.354
Ba 389.178	2279.68	2282.15	2283.69
Be 313.042	60.7816	60.9698	60.9325
Ca 370.602	117620	118123	118348
Cd 226.502	62.5091	61.9547	62.0651
Co 228.615	152.957	152.564	150.967
Cr 267.716	438.135	440.673	441.262
Cu 324.754	751.644	743.006	743.558
Fe 271.441	322279	323733	322869
K 766.491	16481.0	16456.4	16404.0
Mg 279.078	18240.9	18302.4	18336.5
Mn 257.610	8985.29	8983.89	8995.84
Mo 202.032	112.832	113.976	113.863
Na 330.237	5765.79	5696.12	5476.76
Ni 231.604	254.641	251.477	254.655
Pb 220.353	3091.80	3106.58	3124.49
Sb 206.834	31.7020	35.8057	26.5998
Se 196.026	82.8514	93.6137	88.3370
Sn 189.925	280.668	287.168	283.942
Sr 216.596	734.321	738.411	741.128
Ti 334.941	1299.25	1304.42	1306.91
Tl 190.794	47.6207	55.9268	53.6622
V 292.401	399.581	400.108	400.284
Zn 206.200	7678.87	7687.65	7726.76

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	27.0871	ppb	0.4187	1.5	2147.31
Al 308.215	88363.3	ppb	440.982	0.5	316898
As 188.980	311.705	ppb	2.6025	0.8	232.572
B 249.678	206.105	ppb	3.0007	1.5	2169.97
Ba 389.178	2281.84	ppb	2.0207	0.1	63004.5
Be 313.042	60.8946	ppb	0.0997	0.2	127866
Ca 370.602	118030	ppb	372.9	0.3	435330
Cd 226.502	62.1763	ppb	0.2935	0.5	3878.09
Co 228.615	152.163	ppb	1.0539	0.7	2034.45
Cr 267.716	440.024	ppb	1.6615	0.4	23117.7
Cu 324.754	746.070	ppb	4.8356	0.6	38720.8
Fe 271.441	322960	ppb	731.364	0.2	663546
K 766.491	16447.1	ppb	39.3377	0.2	884543
Mg 279.078	18293.3	ppb	48.4441	0.3	47618.5
Mn 257.610	8988.34	ppb	6.5313	0.1	2469229
Mo 202.032	113.557	ppb	0.6306	0.6	959.276
Na 330.237	5646.23	ppb	150.836	2.7	145.883
Ni 231.604	253.591	ppb	1.8307	0.7	862.670
Pb 220.353	3107.62	ppb	16.3675	0.5	7042.70
Sb 206.834	31.3692	ppb	4.6120	14.7	48.4886
Se 196.026	88.2674	ppb	5.3815	6.1	58.3830
Sn 189.925	283.926	ppb	3.2498	1.1	286.509
Sr 216.596	737.954	ppb	3.4267	0.5	10039.7
Ti 334.941	1303.53	ppb	3.9045	0.3	377237
Tl 190.794	52.4032	ppb	4.2938	8.2	8.6865
V 292.401	399.991	ppb	0.3657	0.1	12599.6
Zn 206.200	7697.76	ppb	25.4962	0.3	15277.5



E04052013.vvq. All Data Report 4/8/2013, 10:52:27 AM

680-88939-a-1-a (Samp) 4/6/2013, 6:24:12 AM Rack 3, Tube 59

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	10.8272u	11.2319u	10.5097u
Al 308.215	17429.4	17601.4	17606.9
As 188.980	4.3199	6.3701	6.2160
B 249.678	38.3831	37.8343	38.1921
Ba 389.178	41200.5x	41281.1x	41300.6x
Be 313.042	0.6357	0.7331	0.7831
Ca 370.602	39366	39614	39629
Cd 226.502	3.3105	3.6565	3.3726
Co 228.615	16.9016	16.5801	17.4048
Cr 267.716	158.806	159.724	159.932
Cu 324.754	885.426	883.901	883.106
Fe 271.441	13327.3	13798.3	14034.1
K 766.491	1179.80	1209.52	1230.45
Mg 279.078	3452.34	3500.50	3510.00
Mn 257.610	187.136	207.640	221.749
Mo 202.032	255.869	256.555	255.804
Na 330.237	3973.66	3905.97	3873.64
Ni 231.604	223.423	222.683	224.155
Pb 220.353	26.1864	30.7839	33.5934
Sb 206.834	2.7091	-6.0995u	-3.9072u
Se 196.026	-2.0896u	2.4359	4.8748
Sn 189.925	1235.99	1229.68	1231.37
Sr 216.596	23388.4x	23413.7x	23331.5x
Ti 334.941	785.488	789.787	790.251
Tl 190.794	0.2747u	1.9483	5.9381
V 292.401	360.797	361.887	362.592
Zn 206.200	1429.49	1442.48	1443.39

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	10.8563b	ppb	0.3620	3.3	-365.851
Al 308.215	17545.9b	ppb	100.943	0.6	62945.8
As 188.980	5.6353b	ppb	1.1418	20.3	6.6814
B 249.678	38.1365b	ppb	0.2786	0.7	506.489
Ba 389.178	41260.7xb	ppb	53.0252	0.1	1129002
Be 313.042	0.7173b	ppb	0.0750	10.4	1113.21
Ca 370.602	39536b	ppb	148.0	0.4	155436
Cd 226.502	3.4465b	ppb	0.1845	5.4	210.221
Co 228.615	16.9621b	ppb	0.4157	2.5	240.646
Cr 267.716	159.487b	ppb	0.5989	0.4	8343.42
Cu 324.754	884.144b	ppb	1.1786	0.1	45799.3
Fe 271.441	13719.9b	ppb	359.878	2.6	28192.6
K 766.491	1206.59b	ppb	25.4479	2.1	65090.3
Mg 279.078	3487.61b	ppb	30.9162	0.9	9115.17
Mn 257.610	205.508b	ppb	17.4045	8.5	56845.2
Mo 202.032	256.076b	ppb	0.4162	0.2	2194.79
Na 330.237	3917.76b	ppb	51.0430	1.3	211.346
Ni 231.604	223.420b	ppb	0.7360	0.3	752.815
Pb 220.353	30.1879b	ppb	3.7393	12.4	69.5179
Sb 206.834	-2.4326b	ppb	4.5857	188.5	-1.1871
Se 196.026	1.7404b	ppb	3.5339	203.1	2.3067
Sn 189.925	1232.35b	ppb	3.2660	0.3	1249.09
Sr 216.596	23377.8xb	ppb	42.1121	0.2	312390
Ti 334.941	788.509b	ppb	2.6259	0.3	228086
Tl 190.794	2.7204b	ppb	2.9096	107.0	-2.1690
V 292.401	361.759b	ppb	0.9046	0.3	11369.9
Zn 206.200	1438.45b	ppb	7.7764	0.5	2874.69

E04052013.wvq. All Data Report 4/8/2013, 10:52:27 AM

680-88939-a-2-a (Samp) 4/6/2013, 6:30:39 AM Rack 3, Tube 60

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	11.2973	11.1669	10.2884
Al 308.215	242490	243452	245174
As 188.980	217.071	207.524	213.911
B 249.678	320.153	319.524	319.453
Ba 389.178	11771.8x	11788.0x	11783.2x
Be 313.042	17.8868	17.8912	17.9218
Ca 370.602	830276x	827530x	829791x
Cd 226.502	2.9037	2.6253	2.0028
Co 228.615	278.864	281.123	278.639
Cr 267.716	2049.41	2056.22	2066.01
Cu 324.754	16338.6	16201.5	16251.2
Fe 271.441	833507	834442	833917
K 766.491	36170.7	36048.2	36066.5
Mg 279.078	122162	122294	122589
Mn 257.610	18666.6	18692.3	18746.9
Mo 202.032	202.125	204.151	204.109
Na 330.237	6193.09u	6357.64u	6460.96u
Ni 231.604	1453.12	1451.00	1459.26
Pb 220.353	105.955	100.610	94.7356
Sb 206.834	53.9654	40.0726	45.3525
Se 196.026	-23.4631u	-7.7315	-13.3845
Sn 189.925	40.3750	41.5386	44.0013
Sr 216.596	2106.89	2114.90	2123.91
Ti 334.941	13341.9	13334.4	13383.0
Tl 190.794	21.6028u	28.7508u	27.8680u
V 292.401	715.227	714.809	715.275
Zn 206.200	5152.16	5168.01	5168.67

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	10.9175b	ppb	0.5487	5.0	792.325
Al 308.215	243705b	ppb	1360.00	0.6	873990
As 188.980	212.835b	ppb	4.8638	2.3	159.486
B 249.678	319.710b	ppb	0.3854	0.1	2926.00
Ba 389.178	11781.0xb	ppb	8.3165	0.1	324108
Be 313.042	17.8999b	ppb	0.0191	0.1	37594.8
Ca 370.602	829199xb	ppb	1466	0.2	3204020
Cd 226.502	2.5106b	ppb	0.4613	18.4	2668.88
Co 228.615	279.542b	ppb	1.3736	0.5	4055.48
Cr 267.716	2057.22b	ppb	8.3454	0.4	107781
Cu 324.754	16263.8b	ppb	69.4245	0.4	844655
Fe 271.441	833955b	ppb	469.041	0.1	1713408
K 766.491	36095.1b	ppb	66.0864	0.2	1940973
Mg 279.078	122349b	ppb	218.696	0.2	319019
Mn 257.610	18701.9b	ppb	41.0003	0.2	5138672
Mo 202.032	203.462b	ppb	1.1577	0.6	1695.90
Na 330.237	6337.23b	ppb	135.095	2.1	-82.4270
Ni 231.604	1454.46b	ppb	4.2902	0.3	4917.82
Pb 220.353	100.433b	ppb	5.6116	5.6	219.581
Sb 206.834	46.4635b	ppb	7.0127	15.1	93.1052
Se 196.026	-14.8597b	ppb	7.9689	53.6	3.8574
Sn 189.925	41.9716b	ppb	1.8516	4.4	41.2820
Sr 216.596	2115.23b	ppb	8.5190	0.4	28765.1
Ti 334.941	13353.1b	ppb	26.1396	0.2	3864853
Tl 190.794	26.0739b	ppb	3.8972	14.9	-103.797
V 292.401	715.104b	ppb	0.2560	0.0	22637.1
Zn 206.200	5162.94b	ppb	9.3445	0.2	40707.4

E04052013.vvq. All Data Report 4/8/2013, 10:52:27 AM

Cont Calib Verif (CCV) 4/6/2013, 6:37:06 AM Rack 4, Tube 1  
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	503.917	498.612	500.252
Al 308.215	5070.89	5104.53	5156.62
As 188.980	500.943	489.884	488.456
B 249.678	515.599	508.347	508.728
Ba 389.178	4818.48	4786.29	4779.74
Be 313.042	479.757	476.780	474.304
Ca 370.602	5514	5664	5910
Cd 226.502	475.885	471.033	469.595
Co 228.615	487.443	482.697	481.749
Cr 267.716	4860.94	4821.44	4804.00
Cu 324.754	4729.97	4673.47	4800.19
Fe 271.441	5492.85	5680.82	5980.94
K 766.491	9907.28	9896.87	9880.98
Mg 279.078	4942.30	4915.78	4944.90
Mn 257.610	4822.48	4794.21	4779.65
Mo 202.032	491.587	485.740	482.807
Na 330.237	7066.95	7078.91	6937.66
Ni 231.604	2405.50	2357.36	2355.71
Pb 220.353	495.831	491.535	487.535
Sb 206.834	981.755	969.432	965.238
Se 196.026	4820.94	4760.34	4747.36
Sn 189.925	4870.72	4909.86	4821.38
Sr 216.596	2381.16	2360.02	2357.03
Ti 334.941	503.975	503.671	505.860
Tl 190.794	4955.35	4906.64	4880.33
V 292.401	4859.21	4824.40	4810.52
Zn 206.200	2410.09	2388.33	2377.77

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	500.927	ppb	2.7163	0.5	41138.2	100.18544
Al 308.215	5110.68	ppb	43.1942	0.8	18320.2	102.21365
As 188.980	493.094	ppb	6.8350	1.4	370.886	98.61884
B 249.678	510.891	ppb	4.0813	0.8	6260.08	20.43565Q
Ba 389.178	4794.84	ppb	20.7325	0.4	131205	95.89673
Be 313.042	476.947	ppb	2.7301	0.6	1003454	95.38943
Ca 370.602	5696	ppb	200.2	3.5	22318	113.92274Q
Cd 226.502	472.171	ppb	3.2958	0.7	21939.9	94.43416
Co 228.615	483.963	ppb	3.0510	0.6	6397.30	96.79265
Cr 267.716	4828.79	ppb	29.1730	0.6	252174	96.57586
Cu 324.754	4734.54	ppb	63.4859	1.3	245694	94.69084
Fe 271.441	5718.20	ppb	246.183	4.3	11891.1	114.36407Q
K 766.491	9895.04	ppb	13.2421	0.1	532250	98.95042
Mg 279.078	4934.33	ppb	16.1126	0.3	12800.2	98.68653
Mn 257.610	4798.78	ppb	21.7796	0.5	1317864	95.97559
Mo 202.032	486.711	ppb	4.4699	0.9	4154.83	97.34225
Na 330.237	7027.84	ppb	78.3281	1.1	397.162	93.70448
Ni 231.604	2372.86	ppb	28.2849	1.2	7986.30	94.91433
Pb 220.353	491.634	ppb	4.1485	0.8	1116.23	98.32677
Sb 206.834	972.142	ppb	8.5852	0.9	1103.16	97.21416
Se 196.026	4776.21	ppb	39.2731	0.8	2830.88	95.52427
Sn 189.925	4867.32	ppb	44.3423	0.9	4938.42	97.34641
Sr 216.596	2366.07	ppb	13.1544	0.6	31556.5	94.64275
Ti 334.941	504.502	ppb	1.1860	0.2	145901	100.90044
Tl 190.794	4914.10	ppb	38.0625	0.8	6311.80	98.28207
V 292.401	4831.38	ppb	25.0807	0.5	152170	96.62753
Zn 206.200	2392.06	ppb	16.4827	0.7	4761.19	95.68244

E04052013.vvq. All Data Report 4/8/2013, 10:52:27 AM

Cont Calib Blank (CCB) 4/6/2013, 6:43:34 AM Rack 4, Tube 2  
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.1790	0.1862	0.3637
Al 308.215	13.1976	27.0608	42.1652
As 188.980	-7.6239u	-5.6899u	-2.8431u
B 249.678	11.2023	9.9299	10.9648
Ba 389.178	3.1803	4.6039	7.9133
Be 313.042	0.1008	0.1506	0.2446
Ca 370.602	47.63	73.21	121.9
Cd 226.502	-0.0213u	0.2397	0.2734
Co 228.615	0.1044	0.0305	0.2842
Cr 267.716	0.8360	1.3991	2.3134
Cu 324.754	2.1683	2.3488	4.8596
Fe 271.441	54.7394	92.5564	152.553
K 766.491	6.5700	8.1641	13.3788
Mg 279.078	10.4120	9.2387	19.1241
Mn 257.610	1.3108	3.1430	6.3222
Mo 202.032	0.4768	0.4566	0.7338
Na 330.237	-173.708u	-146.809u	-88.5578u
Ni 231.604	1.0953	1.3376	2.0684
Pb 220.353	-0.5391u	2.4542	3.3412
Sb 206.834	3.1205	2.3488	-2.7837u
Se 196.026	4.5896	7.0673	3.8656
Sn 189.925	3.7786	0.7953	2.4698
Sr 216.596	0.6783	1.5110	3.2111
Ti 334.941	1.1995	1.6622	2.6083
Tl 190.794	6.7883	5.7803	8.3728
V 292.401	0.8945	1.8965	2.6934
Zn 206.200	0.9850	0.8398	3.5687

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.2430	ppb	0.1046	43.1	-76.0998	0.24298
Al 308.215	27.4745	ppb	14.4882	52.7	103.589	27.47450
As 188.980	-5.3856	ppb	2.4049	44.7	-1.7080	-5.38561
B 249.678	10.6990	ppb	0.6765	6.3	189.751	10.69899
Ba 389.178	5.2325	ppb	2.4283	46.4	108.579	5.23248Z
Be 313.042	0.1653	ppb	0.0730	44.2	12.8629	0.16533
Ca 370.602	80.92	ppb	37.73	46.6	305.8	80.91553
Cd 226.502	0.1640	ppb	0.1613	98.4	16.3443	0.16395
Co 228.615	0.1397	ppb	0.1304	93.4	6.3488	0.13972
Cr 267.716	1.5162	ppb	0.7456	49.2	90.5501	1.51616
Cu 324.754	3.1256	ppb	1.5044	48.1	43.3245	3.12556
Fe 271.441	99.9495	ppb	49.3239	49.3	204.513	99.94949Z
K 766.491	9.3709	ppb	3.5612	38.0	718.297	9.37095
Mg 279.078	12.9249	ppb	5.4006	41.8	55.0058	12.92492
Mn 257.610	3.5920	ppb	2.5357	70.6	1332.76	3.59201
Mo 202.032	0.5557	ppb	0.1546	27.8	14.3762	0.55574
Na 330.237	-136.358	ppb	43.5264	31.9	-9.9370	-136.35820
Ni 231.604	1.5005	ppb	0.5066	33.8	5.5939	1.50046
Pb 220.353	1.7521	ppb	2.0332	116.0	6.5015	1.75210
Sb 206.834	0.8952	ppb	3.2093	358.5	3.9549	0.89523
Se 196.026	5.1742	ppb	1.6790	32.4	4.1884	5.17419
Sn 189.925	2.3479	ppb	1.4954	63.7	0.6654	2.34789
Sr 216.596	1.8001	ppb	1.2909	71.7	33.3337	1.80012
Ti 334.941	1.8233	ppb	0.7181	39.4	406.470	1.82334
Tl 190.794	6.9805	ppb	1.3069	18.7	5.2091	6.98047
V 292.401	1.8281	ppb	0.9014	49.3	55.9053	1.82814
Zn 206.200	1.7978	ppb	1.5353	85.4	5.3714	1.79785

mb 680-271798/1-a (Samp) 4/6/2013, 6:50:02 AM Rack 4, Tube 3  
Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.0564u	0.4397	0.0005
Al 308.215	6.3353	9.6153	11.8690
As 188.980	-4.9101u	-0.6973u	-3.8075u
B 249.678	4.5693	5.0726	4.6235
Ba 389.178	0.2415	0.6678	-0.0047u
Be 313.042	0.0096	0.0157	0.0139
Ca 370.602	23.54	18.94	22.74
Cd 226.502	0.0065	0.1051	-0.0296u
Co 228.615	-0.3331u	-0.7533u	-0.2898u
Cr 267.716	0.1351	0.3634	0.3784
Cu 324.754	1.3756	0.3915	0.4375
Fe 271.441	29.8376	28.4383	33.4690
K 766.491	12.6765	11.7017	11.7753
Mg 279.078	16.1223	8.1175	11.9193
Mn 257.610	-0.7633u	-0.7284u	-0.7696u
Mo 202.032	0.4299	0.0596	0.2837
Na 330.237	2.4159	34.6379	-5.7554u
Ni 231.604	1.0462	0.0177	0.5803
Pb 220.353	-1.0417u	-0.0448u	0.9665
Sb 206.834	0.0249	-0.2022u	-1.6835u
Se 196.026	3.8684	3.6705	4.1934
Sn 189.925	15.5649	13.5001	12.4932
Sr 216.596	0.0699	-0.1323u	0.2733
Ti 334.941	0.5475	0.5898	0.5509
Tl 190.794	4.6813	0.0623	-0.3561u
V 292.401	0.0104	0.1610	0.0259
Zn 206.200	1.2543	0.1176	0.3892

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1279	ppb	0.2715	212.2	-85.4970
Al 308.215	9.2732	ppb	2.7827	30.0	38.3144
As 188.980	-3.1383	ppb	2.1847	69.6	-0.0271
B 249.678	4.7551	ppb	0.2763	5.8	117.621
Ba 389.178	0.3015	ppb	0.3402	112.8	-26.4704
Be 313.042	0.0131	ppb	0.0031	23.9	-307.600
Ca 370.602	21.74	ppb	2.459	11.3	78.06
Cd 226.502	0.0273	ppb	0.0697	255.1	9.7876
Co 228.615	-0.4587	ppb	0.2560	55.8	-1.5829
Cr 267.716	0.2923	ppb	0.1363	46.6	26.6124
Cu 324.754	0.7349	ppb	0.5554	75.6	-80.8254
Fe 271.441	30.5816	ppb	2.5966	8.5	61.9164
K 766.491	12.0512	ppb	0.5428	4.5	862.407
Mg 279.078	12.0530	ppb	4.0041	33.2	52.8085
Mn 257.610	-0.7538	ppb	0.0222	2.9	139.438
Mo 202.032	0.2578	ppb	0.1865	72.4	11.8396
Na 330.237	10.4328	ppb	21.3567	204.7	-0.9817
Ni 231.604	0.5481	ppb	0.5150	94.0	2.3869
Pb 220.353	-0.0400	ppb	1.0041	2509.8	2.4418
Sb 206.834	-0.6203	ppb	0.9278	149.6	2.3079
Se 196.026	3.9108	ppb	0.2640	6.8	3.4385
Sn 189.925	13.8527	ppb	1.5659	11.3	12.3424
Sr 216.596	0.0703	ppb	0.2028	288.5	10.1946
Ti 334.941	0.5627	ppb	0.0235	4.2	41.6348
Tl 190.794	1.4625	ppb	2.7954	191.1	-1.8746
V 292.401	0.0658	ppb	0.0829	126.0	0.3479
Zn 206.200	0.5871	ppb	0.5936	210.1	2.9572

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ics 680-271798/2-a (Samp) 4/6/2013, 6:56:30 AM Rack 4, Tube 4  
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	6.5692	7.0967	7.1539
Al 308.215	4921.08	4875.41	4874.56
As 188.980	101.685	95.2485	99.5103
B 249.678	184.052	185.392	185.318
Ba 389.178	102.129	102.229	101.434
Be 313.042	51.4748	51.2918	51.2198
Ca 370.602	4895	4877	4871
Cd 226.502	50.2021	50.4714	50.5204
Co 228.615	51.6463	51.0395	52.1286
Cr 267.716	103.044	102.530	102.432
Cu 324.754	101.753	104.121	103.545
Fe 271.441	4864.69	4853.59	4854.65
K 766.491	5097.59	5080.13	5068.03
Mg 279.078	4800.75	4796.82	4781.18
Mn 257.610	517.782	517.512	517.349
Mo 202.032	99.0391	99.2540	98.5994
Na 330.237	4411.16	4568.44	4617.93
Ni 231.604	98.0284	99.7946	99.4573
Pb 220.353	52.0074	49.6549	51.3268
Sb 206.834	51.3166	47.4859	44.4655
Se 196.026	85.8141	91.2732	91.7981
Sn 189.925	206.135	207.998	206.778
Sr 216.596	97.9884	98.4942	97.8674
Ti 334.941	98.4248	97.7810	97.6421
Tl 190.794	41.4718	41.6434	41.3868
V 292.401	99.1516	98.9486	98.8651
Zn 206.200	102.679	104.083	102.369

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	6.9399	ppb	0.3223	4.6	474.420
Al 308.215	4890.35	ppb	26.6189	0.5	17550.1
As 188.980	98.8145	ppb	3.2741	3.3	76.1709
B 249.678	184.920	ppb	0.7533	0.4	2300.70
Ba 389.178	101.931	ppb	0.4334	0.4	2777.95
Be 313.042	51.3288	ppb	0.1314	0.3	107702
Ca 370.602	4881	ppb	12.18	0.2	18879
Cd 226.502	50.3979	ppb	0.1714	0.3	2362.30
Co 228.615	51.6048	ppb	0.5457	1.1	684.155
Cr 267.716	102.668	ppb	0.3289	0.3	5375.91
Cu 324.754	103.140	ppb	1.2351	1.2	5240.03
Fe 271.441	4857.65	ppb	6.1248	0.1	9989.81
K 766.491	5081.91	ppb	14.8576	0.3	273458
Mg 279.078	4792.92	ppb	10.3528	0.2	12517.5
Mn 257.610	517.548	ppb	0.2187	0.0	142495
Mo 202.032	98.9642	ppb	0.3337	0.3	854.241
Na 330.237	4532.51	ppb	107.967	2.4	269.953
Ni 231.604	99.0934	ppb	0.9377	0.9	334.163
Pb 220.353	50.9964	ppb	1.2106	2.4	117.835
Sb 206.834	47.7560	ppb	3.4335	7.2	54.7972
Se 196.026	89.6285	ppb	3.3137	3.7	54.3872
Sn 189.925	206.970	ppb	0.9460	0.5	208.353
Sr 216.596	98.1167	ppb	0.3325	0.3	1316.80
Ti 334.941	97.9493	ppb	0.4176	0.4	28247.1
Tl 190.794	41.5007	ppb	0.1307	0.3	48.1146
V 292.401	98.9884	ppb	0.1473	0.1	3096.96
Zn 206.200	103.043	ppb	0.9132	0.8	407.225

E04052013.vvq. All Data Report 4/8/2013, 10:52:27 AM

ics 680-271798/3-a (Samp) 4/6/2013, 7:02:58 AM Rack 4, Tube 5

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	211.286	210.375	215.775
Al 308.215	2115.41	2124.04	2120.63
As 188.980	219.331	224.119	223.593
B 249.678	387.111	390.190	391.163
Ba 389.178	210.356	209.609	211.222
Be 313.042	216.010	216.542	216.446
Ca 370.602	20302	20337	20361
Cd 226.502	206.412	206.996	206.473
Co 228.615	212.933	213.607	210.433
Cr 267.716	216.029	216.749	216.186
Cu 324.754	214.888	212.403	217.278
Fe 271.441	20989.9	21106.5	21044.4
K 766.491	20294.3	20354.7	20376.7
Mg 279.078	20294.2	20320.1	20294.5
Mn 257.610	2149.35	2146.42	2130.79
Mo 202.032	206.612	207.753	206.882
Na 330.237	17288.8	17172.6	16973.3
Ni 231.604	205.582	205.743	207.445
Pb 220.353	206.616	203.007	204.228
Sb 206.834	200.910	192.417	197.783
Se 196.026	199.084	205.304	194.145
Sn 189.925	214.959	217.040	212.756
Sr 216.596	215.542	216.798	215.300
Ti 334.941	206.465	206.812	207.119
Tl 190.794	51.2579	44.1085	46.1544
V 292.401	205.028	205.898	205.925
Zn 206.200	197.261	197.231	196.683

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	212.479	ppb	2.8905	1.4	17421.5
Al 308.215	2120.03	ppb	4.3506	0.2	7623.06
As 188.980	222.348	ppb	2.6262	1.2	168.469
B 249.678	389.488	ppb	2.1152	0.5	4766.35
Ba 389.178	210.396	ppb	0.8073	0.4	5821.40
Be 313.042	216.332	ppb	0.2836	0.1	455047
Ca 370.602	20333	ppb	29.69	0.1	78528
Cd 226.502	206.627	ppb	0.3209	0.2	9662.70
Co 228.615	212.324	ppb	1.6723	0.8	2802.63
Cr 267.716	216.322	ppb	0.3787	0.2	11321.4
Cu 324.754	214.856	ppb	2.4377	1.1	11048.1
Fe 271.441	21046.9	ppb	58.3591	0.3	43281.7
K 766.491	20341.9	ppb	42.6774	0.2	1093954
Mg 279.078	20302.9	ppb	14.8376	0.1	52963.2
Mn 257.610	2142.19	ppb	9.9780	0.5	588723
Mo 202.032	207.082	ppb	0.5962	0.3	1776.31
Na 330.237	17144.9	ppb	159.544	0.9	1027.82
Ni 231.604	206.257	ppb	1.0319	0.5	695.243
Pb 220.353	204.617	ppb	1.8356	0.9	466.087
Sb 206.834	197.037	ppb	4.2949	2.2	217.516
Se 196.026	199.511	ppb	5.5920	2.8	120.060
Sn 189.925	214.919	ppb	2.1421	1.0	216.434
Sr 216.596	215.880	ppb	0.8042	0.4	2893.45
Ti 334.941	206.799	ppb	0.3270	0.2	59819.4
Tl 190.794	47.1736	ppb	3.6821	7.8	50.4945
V 292.401	205.617	ppb	0.5102	0.2	6434.44
Zn 206.200	197.058	ppb	0.3252	0.2	394.586

E04052013.vvq. All Data Report 4/8/2013, 10:52:27 AM

680-88913-b-2-d (Samp) 4/6/2013, 7:09:26 AM Rack 4, Tube 6

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	1.0153	0.6634	1.3064
Al 308.215	76324.5	75966.0	75704.4
As 188.980	182.467	185.121	191.634
B 249.678	-1.6406u	-0.5906u	0.3406u
Ba 389.178	1183.42	1183.46	1181.76
Be 313.042	9.6847	9.7676	9.8050
Ca 370.602	38772	38734	38714
Cd 226.502	10.3276	10.6705	10.7413
Co 228.615	97.4939	97.9457	97.2663
Cr 267.716	309.819	308.783	308.833
Cu 324.754	428.049	425.778	423.136
Fe 271.441	268026	268280	268455
K 766.491	9063.91	9087.25	9055.72
Mg 279.078	9799.94	9772.51	9802.17
Mn 257.610	13370.6	13372.4	13348.5
Mo 202.032	14.3908	14.0517	15.3189
Na 330.237	512.504u	853.730u	833.381u
Ni 231.604	989.002	983.799	986.232
Pb 220.353	1166.60	1163.37	1170.94
Sb 206.834	0.2010	4.2368	4.4873
Se 196.026	1.4401	-3.0393	1.2992
Sn 189.925	82.3058	87.1174	84.6078
Sr 216.596	161.018	161.307	161.673
Ti 334.941	914.938	913.059	910.667
Tl 190.794	31.5209u	32.3859u	31.9790u
V 292.401	365.196	365.529	364.926
Zn 206.200	2980.46	2966.95	2980.08

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.9950	ppb	0.3220	32.4	47.9178
Al 308.215	75998.3	ppb	311.339	0.4	272547
As 188.980	186.407	ppb	4.7171	2.5	138.775
B 249.678	-0.6302	ppb	0.9912	157.3	-275.412
Ba 389.178	1182.88	ppb	0.9712	0.1	32815.4
Be 313.042	9.7524	ppb	0.0616	0.6	20190.1
Ca 370.602	38740	ppb	29.33	0.1	126787
Cd 226.502	10.5798	ppb	0.2212	2.1	1317.51
Co 228.615	97.5687	ppb	0.3458	0.4	1308.35
Cr 267.716	309.145	ppb	0.5841	0.2	16289.1
Cu 324.754	425.654	ppb	2.4590	0.6	22063.4
Fe 271.441	268254	ppb	215.690	0.1	551142
K 766.491	9068.96	ppb	16.3596	0.2	487833
Mg 279.078	9791.54	ppb	16.5201	0.2	25336.9
Mn 257.610	13363.8	ppb	13.3198	0.1	3670215
Mo 202.032	14.5871	ppb	0.6560	4.5	117.430
Na 330.237	733.205	ppb	191.403	26.1	-87.4117
Ni 231.604	986.344	ppb	2.6034	0.3	3327.20
Pb 220.353	1166.97	ppb	3.7971	0.3	2647.96
Sb 206.834	2.9750	ppb	2.4056	80.9	16.0600
Se 196.026	-0.1000	ppb	2.5465	2546.9	6.9871
Sn 189.925	84.6770	ppb	2.4066	2.8	84.2383
Sr 216.596	161.332	ppb	0.3283	0.2	2285.69
Ti 334.941	912.888	ppb	2.1407	0.2	264143
Tl 190.794	31.9619	ppb	0.4328	1.4	-19.5914
V 292.401	365.217	ppb	0.3024	0.1	11526.1
Zn 206.200	2975.83	ppb	7.6920	0.3	5945.25



E04052013.vvq. All Data Report 4/8/2013, 10:52:27 AM

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Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.2510	0.0624	0.3642
Al 308.215	18138.2	16747.6	16603.9
As 188.980	41.8152	37.4065	32.2395
B 249.678	0.7517u	0.3940u	0.8391u
Ba 389.178	288.718	266.874	265.829
Be 313.042	2.3366	2.1735	2.1775
Ca 370.602	9414	8835	8791
Cd 226.502	2.7713	2.1065	2.1993
Co 228.615	23.7559	21.4565	22.0777
Cr 267.716	76.1930	70.1191	69.6516
Cu 324.754	103.950	93.3919	96.4330
Fe 271.441	66597.7	61390.5	60737.6
K 766.491	2044.53	1927.07	1917.01
Mg 279.078	2423.35	2254.16	2239.46
Mn 257.610	3299.99	3060.93	3026.33
Mo 202.032	3.2753	2.1283	3.1668
Na 330.237	86.8607u	35.4406u	183.153u
Ni 231.604	241.815	224.674	221.311
Pb 220.353	289.107	265.228	263.016
Sb 206.834	0.9030	-0.0377	4.1797
Se 196.026	3.6750	6.2267	2.5474
Sn 189.925	20.7292	22.5554	19.5239
Sr 216.596	40.1816	37.6707	37.7441
Ti 334.941	221.668	205.639	204.065
Tl 190.794	8.1836u	7.4674u	8.6458u
V 292.401	89.2107	82.5417	81.2422
Zn 206.200	731.403	679.262	675.624

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.2259	ppb	0.1524	67.5	-62.9394
Al 308.215	17163.2	ppb	847.422	4.9	61555.1
As 188.980	37.1537	ppb	4.7928	12.9	29.4135
B 249.678	0.6616	ppb	0.2358	35.6	-8.9441
Ba 389.178	273.807	ppb	12.9237	4.7	7570.72
Be 313.042	2.2292	ppb	0.0931	4.2	4356.60
Ca 370.602	9013	ppb	347.4	3.9	29441
Cd 226.502	2.3590	ppb	0.3601	15.3	309.833
Co 228.615	22.4300	ppb	1.1895	5.3	304.201
Cr 267.716	71.9879	ppb	3.6492	5.1	3802.00
Cu 324.754	97.9251	ppb	5.4351	5.6	4984.59
Fe 271.441	62908.6	ppb	3211.48	5.1	129248
K 766.491	1962.87	ppb	70.8962	3.6	105754
Mg 279.078	2305.66	ppb	102.189	4.4	5983.12
Mn 257.610	3129.09	ppb	149.018	4.8	859630
Mo 202.032	2.8568	ppb	0.6332	22.2	30.1033
Na 330.237	101.818	ppb	74.9833	73.6	-25.9271
Ni 231.604	229.267	ppb	10.9961	4.8	773.809
Pb 220.353	272.450	ppb	14.4674	5.3	620.182
Sb 206.834	1.6817	ppb	2.2139	131.6	7.1063
Se 196.026	4.1497	ppb	1.8850	45.4	4.9685
Sn 189.925	20.9362	ppb	1.5263	7.3	19.5346
Sr 216.596	38.5321	ppb	1.4290	3.7	552.522
Ti 334.941	210.457	ppb	9.7409	4.6	60802.6
Tl 190.794	8.0989	ppb	0.5938	7.3	-6.6900
V 292.401	84.3315	ppb	4.2751	5.1	2660.28
Zn 206.200	695.430	ppb	31.2066	4.5	1390.73

E04052013.vvq. All Data Report 4/8/2013, 10:52:27 AM

680-88913-b-2-dPDS (Samp) 4/6/2013, 7:22:32 AM Rack 4, Tube 8

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	49.6616	50.8924	50.5304
Al 308.215	76840.8	76611.8	76213.1
As 188.980	2388.32	2393.99	2381.80
B 249.678	947.910	955.744	959.778
Ba 389.178	3176.38	3173.85	3168.14
Be 313.042	60.3797	60.3195	60.1290
Ca 370.602	42902	42828	42796
Cd 226.502	59.1680	59.2415	59.3218
Co 228.615	593.692	603.381	596.799
Cr 267.716	507.675	506.122	504.530
Cu 324.754	666.531	673.837	668.728
Fe 271.441	265872	265072	263941
K 766.491	13852.9	13891.9	13802.8
Mg 279.078	14397.6	14412.0	14400.8
Mn 257.610	13558.0	13588.0	13582.0
Mo 202.032	513.042	512.636	514.546
Na 330.237	5495.81	5547.70	5312.64
Ni 231.604	1465.22	1464.28	1461.49
Pb 220.353	1624.04	1627.41	1625.56
Sb 206.834	494.730	493.072	496.623
Se 196.026	1935.68	1941.94	1955.26
Sn 189.925	1068.53	1063.81	1062.13
Sr 216.596	648.835	644.974	645.220
Ti 334.941	1843.14	1837.69	1830.04
Tl 190.794	1982.40	2006.42	1994.53
V 292.401	852.244	852.432	851.666
Zn 206.200	3408.31	3418.80	3417.49

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	50.3615	ppb	0.6325	1.3	4097.72
Al 308.215	76555.3	ppb	317.620	0.4	274581
As 188.980	2388.04	ppb	6.1021	0.3	1785.09
B 249.678	954.478	ppb	6.0345	0.6	11333.0
Ba 389.178	3172.79	ppb	4.2195	0.1	87277.4
Be 313.042	60.2761	ppb	0.1309	0.2	126444
Ca 370.602	42842	ppb	54.24	0.1	143598
Cd 226.502	59.2438	ppb	0.0769	0.1	3566.15
Co 228.615	597.958	ppb	4.9473	0.8	7915.75
Cr 267.716	506.109	ppb	1.5724	0.3	26572.5
Cu 324.754	669.698	ppb	3.7484	0.6	34744.2
Fe 271.441	264962	ppb	970.334	0.4	544477
K 766.491	13849.2	ppb	44.6911	0.3	744856
Mg 279.078	14403.5	ppb	7.5402	0.1	37366.7
Mn 257.610	13576.0	ppb	15.8812	0.1	3728499
Mo 202.032	513.408	ppb	1.0061	0.2	4376.25
Na 330.237	5452.05	ppb	123.490	2.3	187.790
Ni 231.604	1463.66	ppb	1.9398	0.1	4933.48
Pb 220.353	1625.67	ppb	1.6870	0.1	3685.43
Sb 206.834	494.808	ppb	1.7770	0.4	542.710
Se 196.026	1944.29	ppb	10.0021	0.5	1158.41
Sn 189.925	1064.82	ppb	3.3211	0.3	1079.05
Sr 216.596	646.343	ppb	2.1616	0.3	8732.31
Ti 334.941	1836.96	ppb	6.5794	0.4	531583
Tl 190.794	1994.45	ppb	12.0100	0.6	2505.61
V 292.401	852.114	ppb	0.3991	0.0	26794.3
Zn 206.200	3414.86	ppb	5.7160	0.2	6821.51

E04052013.vvq. All Data Report 4/8/2013, 10:52:27 AM

680-88913-b-2-e ms (Samp) 4/6/2013, 7:29:01 AM Rack 4, Tube 9

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	8.0312	7.9338	7.5758
Al 308.215	84105.9	85376.1	85966.6
As 188.980	300.515	298.490	301.483
B 249.678	153.329	152.638	152.378
Ba 389.178	1176.31	1176.14	1173.76
Be 313.042	60.2774	60.2768	60.3462
Ca 370.602	42958	42903	42915
Cd 226.502	58.1577	57.7386	58.0037
Co 228.615	151.229	150.502	152.201
Cr 267.716	436.879	436.942	436.156
Cu 324.754	457.774	454.758	457.435
Fe 271.441	284112	283923	284333
K 766.491	12471.9	12517.4	12508.3
Mg 279.078	15595.2	15585.0	15576.1
Mn 257.610	11177.2	11178.1	11165.9
Mo 202.032	110.386	108.983	110.192
Na 330.237	4975.37	5233.20	5166.17
Ni 231.604	756.668	748.206	752.786
Pb 220.353	1136.14	1128.19	1130.25
Sb 206.834	23.2210	24.9932	25.1902
Se 196.026	91.0030	92.4470	90.8044
Sn 189.925	243.339	237.529	240.025
Sr 216.596	245.672	246.047	246.602
Ti 334.941	962.438	964.127	964.054
Tl 190.794	67.9867	64.8383	66.8158
V 292.401	444.571	444.021	444.696
Zn 206.200	2761.24	2758.69	2757.21

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	7.8469	ppb	0.2398	3.1	597.856
Al 308.215	85149.5	ppb	950.784	1.1	305372
As 188.980	300.163	ppb	1.5272	0.5	223.652
B 249.678	152.782	ppb	0.4915	0.3	1568.86
Ba 389.178	1175.41	ppb	1.4238	0.1	32656.6
Be 313.042	60.3001	ppb	0.0399	0.1	126585
Ca 370.602	42925	ppb	29.09	0.1	141660
Cd 226.502	57.9666	ppb	0.2120	0.4	3565.91
Co 228.615	151.311	ppb	0.8525	0.6	2014.54
Cr 267.716	436.659	ppb	0.4365	0.1	22941.4
Cu 324.754	456.656	ppb	1.6522	0.4	23680.1
Fe 271.441	284123	ppb	204.813	0.1	583755
K 766.491	12499.2	ppb	24.1015	0.2	672271
Mg 279.078	15585.5	ppb	9.5746	0.1	40501.1
Mn 257.610	11173.7	ppb	6.7674	0.1	3069049
Mo 202.032	109.854	ppb	0.7600	0.7	929.831
Na 330.237	5124.91	ppb	133.771	2.6	174.896
Ni 231.604	752.553	ppb	4.2358	0.6	2540.84
Pb 220.353	1131.53	ppb	4.1246	0.4	2566.57
Sb 206.834	24.4681	ppb	1.0845	4.4	40.0726
Se 196.026	91.4181	ppb	0.8965	1.0	60.6364
Sn 189.925	240.298	ppb	2.9146	1.2	242.191
Sr 216.596	246.107	ppb	0.4676	0.2	3427.87
Ti 334.941	963.540	ppb	0.9545	0.1	278830
Tl 190.794	66.5469	ppb	1.5913	2.4	27.2310
V 292.401	444.429	ppb	0.3594	0.1	13998.4
Zn 206.200	2759.05	ppb	2.0356	0.1	5511.69

E04052013.vvq. All Data Report 4/8/2013, 10:52:27 AM

680-88913-b-2-f msd (Samp) 4/6/2013, 7:35:29 AM Rack 4, Tube 10

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	7.2490	6.7989	6.7434
Al 308.215	75062.0	75178.5	74380.6
As 188.980	273.559	279.243	276.647
B 249.678	136.049	137.250	137.292
Ba 389.178	1299.18	1299.79	1295.86
Be 313.042	55.9570	56.0043	55.7790
Ca 370.602	31210	31220	31153
Cd 226.502	58.3789	58.2578	58.5547
Co 228.615	138.256	137.456	137.947
Cr 267.716	377.881	377.916	375.505
Cu 324.754	489.573	484.197	474.749
Fe 271.441	248252	248690	248237
K 766.491	11983.7	11982.4	11975.1
Mg 279.078	11475.1	11479.8	11450.3
Mn 257.610	12288.6	12295.5	12285.0
Mo 202.032	105.206	105.157	105.571
Na 330.237	5084.85	4901.92	4994.24
Ni 231.604	622.096	623.340	615.548
Pb 220.353	1292.48	1291.76	1300.63
Sb 206.834	23.2722	19.2230	29.7881
Se 196.026	92.3170	88.0388	83.1967
Sn 189.925	232.205	232.942	229.072
Sr 216.596	231.952	232.671	230.145
Ti 334.941	940.679	942.321	934.273
Tl 190.794	67.8209	66.3546	65.6777
V 292.401	352.411	353.269	352.138
Zn 206.200	3217.84	3219.56	3230.67

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	6.9304	ppb	0.2773	4.0	528.118
Al 308.215	74873.7	ppb	431.009	0.6	268522
As 188.980	276.483	ppb	2.8460	1.0	206.277
B 249.678	136.864	ppb	0.7060	0.5	1419.45
Ba 389.178	1298.28	ppb	2.1178	0.2	35945.1
Be 313.042	55.9134	ppb	0.1188	0.2	117350
Ca 370.602	31194	ppb	36.22	0.1	98892
Cd 226.502	58.3971	ppb	0.1493	0.3	3476.00
Co 228.615	137.886	ppb	0.4032	0.3	1838.27
Cr 267.716	377.100	ppb	1.3822	0.4	19827.6
Cu 324.754	482.840	ppb	7.5044	1.6	25029.4
Fe 271.441	248393	ppb	257.366	0.1	510347
K 766.491	11980.4	ppb	4.6369	0.0	644375
Mg 279.078	11468.4	ppb	15.8726	0.1	29730.4
Mn 257.610	12289.7	ppb	5.3294	0.0	3375264
Mo 202.032	105.312	ppb	0.2262	0.2	893.391
Na 330.237	4993.67	ppb	91.4679	1.8	175.804
Ni 231.604	620.328	ppb	4.1861	0.7	2094.88
Pb 220.353	1294.96	ppb	4.9282	0.4	2937.42
Sb 206.834	24.0945	ppb	5.3304	22.1	38.1755
Se 196.026	87.8508	ppb	4.5631	5.2	58.6026
Sn 189.925	231.406	ppb	2.0546	0.9	233.161
Sr 216.596	231.589	ppb	1.3017	0.6	3216.98
Ti 334.941	939.091	ppb	4.2528	0.5	271731
Tl 190.794	66.6178	ppb	1.0956	1.6	29.3749
V 292.401	352.606	ppb	0.5899	0.2	11102.4
Zn 206.200	3222.69	ppb	6.9630	0.2	6438.12

E04052013.vvq. All Data Report 4/8/2013, 10:52:27 AM

680-88913-b-4-b (Samp) 4/6/2013, 7:42:08 AM Rack 4, Tube 11

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	4.3766	3.3918	4.5373
Al 308.215	81378.0	81074.0	81269.2
As 188.980	377.807	374.968	379.908
B 249.678	25.5203u	26.1894u	25.5304u
Ba 389.178	1918.86	1909.68	1917.51
Be 313.042	9.9290	9.9046	9.9489
Ca 370.602	251421	250680	250998
Cd 226.502	14.3702	14.2584	13.9042
Co 228.615	147.104	147.755	145.871
Cr 267.716	398.193	397.020	398.251
Cu 324.754	558.762	565.587	567.161
Fe 271.441	265082	264716	265654
K 766.491	8768.20	8778.72	8813.21
Mg 279.078	94852.3	94566.9	94720.3
Mn 257.610	18007.3	17963.7	18015.5
Mo 202.032	16.0667	15.9809	15.9707
Na 330.237	757.760u	687.171u	893.729u
Ni 231.604	142.937	143.966	143.117
Pb 220.353	1483.57	1482.50	1483.20
Sb 206.834	10.0290	10.8444	11.3348
Se 196.026	-3.8477	-6.3392	9.1954
Sn 189.925	72.1992	73.5816	73.7610
Sr 216.596	349.518	347.250	348.425
Ti 334.941	1140.14	1137.98	1142.37
Tl 190.794	42.5933u	42.4486u	42.4130u
V 292.401	295.045	294.471	295.318
Zn 206.200	6066.86	6045.67	6060.45

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	4.1019	ppb	0.6202	15.1	316.007
Al 308.215	81240.4	ppb	153.996	0.2	291347
As 188.980	377.561	ppb	2.4789	0.7	283.915
B 249.678	25.7467	ppb	0.3834	1.5	48.7699
Ba 389.178	1915.35	ppb	4.9584	0.3	53111.2
Be 313.042	9.9275	ppb	0.0222	0.2	20638.5
Ca 370.602	251033	ppb	372.1	0.1	968448
Cd 226.502	14.1776	ppb	0.2432	1.7	1476.55
Co 228.615	146.910	ppb	0.9571	0.7	1966.42
Cr 267.716	397.821	ppb	0.6944	0.2	20942.9
Cu 324.754	563.837	ppb	4.4646	0.8	29238.5
Fe 271.441	265151	ppb	472.621	0.2	544776
K 766.491	8786.71	ppb	23.5447	0.3	472657
Mg 279.078	94713.1	ppb	142.833	0.2	246846
Mn 257.610	17995.5	ppb	27.8226	0.2	4942586
Mo 202.032	16.0061	ppb	0.0527	0.3	129.886
Na 330.237	779.553	ppb	104.989	13.5	-112.925
Ni 231.604	143.340	ppb	0.5496	0.4	490.087
Pb 220.353	1483.09	ppb	0.5428	0.0	3365.25
Sb 206.834	10.7360	ppb	0.6596	6.1	25.3018
Se 196.026	-0.3305	ppb	8.3432	2524.4	8.2252
Sn 189.925	73.1806	ppb	0.8546	1.2	72.6779
Sr 216.596	348.397	ppb	1.1342	0.3	4828.39
Ti 334.941	1140.17	ppb	2.1930	0.2	330307
Tl 190.794	42.4850	ppb	0.0955	0.2	-14.6012
V 292.401	294.945	ppb	0.4325	0.1	9304.95
Zn 206.200	6057.66	ppb	10.8659	0.2	42101.3

E04052013.vvq. All Data Report 4/8/2013, 10:52:27 AM

680-88915-a-1-b (Samp) 4/6/2013, 7:48:36 AM Rack 4, Tube 12

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.3454	0.5756	0.7443
Al 308.215	110041	109721	109174
As 188.980	145.796	149.475	156.564
B 249.678	24.8556u	26.2413	25.4032
Ba 389.178	1994.80	1997.80	1994.80
Be 313.042	5.3963	5.3929	5.3910
Ca 370.602	147563	147223	147577
Cd 226.502	26.4509	26.4148	26.4703
Co 228.615	154.345	152.191	152.607
Cr 267.716	304.745	305.269	304.160
Cu 324.754	589.493	588.569	590.740
Fe 271.441	247563	248173	247962
K 766.491	11057.4	11048.0	11023.5
Mg 279.078	36794.8	36810.6	36774.9
Mn 257.610	10635.3	10657.8	10640.9
Mo 202.032	18.3891	18.1126	17.7180
Na 330.237	394.035u	446.972u	282.594u
Ni 231.604	97.9191	101.869	103.842
Pb 220.353	6704.10	6702.46	6696.28
Sb 206.834	17.1253	20.7060	13.5710
Se 196.026	6.7429	-1.3647	-5.4386
Sn 189.925	110.723	109.988	108.715
Sr 216.596	238.393	238.272	237.519
Ti 334.941	1046.36	1047.30	1042.82
Tl 190.794	28.9547u	25.4617u	26.3763u
V 292.401	254.064	254.161	253.662
Zn 206.200	5844.18	5826.82	5826.92

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.3248	ppb	0.5865	180.6	-26.5030
Al 308.215	109646	ppb	438.331	0.4	393215
As 188.980	150.612	ppb	5.4733	3.6	113.372
B 249.678	25.5000	ppb	0.6979	2.7	67.2261
Ba 389.178	1995.80	ppb	1.7342	0.1	55106.5
Be 313.042	5.3934	ppb	0.0027	0.0	11061.3
Ca 370.602	147454	ppb	200.2	0.1	559564
Cd 226.502	26.4453	ppb	0.0282	0.1	1991.58
Co 228.615	153.048	ppb	1.1425	0.7	2044.79
Cr 267.716	304.725	ppb	0.5549	0.2	16041.4
Cu 324.754	589.601	ppb	1.0897	0.2	30571.4
Fe 271.441	247899	ppb	309.810	0.1	509333
K 766.491	11043.0	ppb	17.4972	0.2	593973
Mg 279.078	36793.4	ppb	17.9077	0.0	95837.6
Mn 257.610	10644.7	ppb	11.6909	0.1	2923884
Mo 202.032	18.0732	ppb	0.3373	1.9	148.674
Na 330.237	374.534	ppb	83.9066	22.4	-128.411
Ni 231.604	101.210	ppb	3.0160	3.0	347.847
Pb 220.353	6700.95	ppb	4.1286	0.1	15184.3
Sb 206.834	17.1341	ppb	3.5675	20.8	30.7322
Se 196.026	-0.0201	ppb	6.2011	30862.6	6.0676
Sn 189.925	109.809	ppb	1.0157	0.9	109.802
Sr 216.596	238.061	ppb	0.4735	0.2	3332.87
Ti 334.941	1045.49	ppb	2.3620	0.2	302642
Tl 190.794	26.9309	ppb	1.8113	6.7	-18.4438
V 292.401	253.963	ppb	0.2645	0.1	8013.72
Zn 206.200	5832.64	ppb	9.9913	0.2	41652.2

E04052013.vvq. All Data Report 4/8/2013, 10:52:27 AM

Cont Calib Verif (CCV) 4/6/2013, 7:55:04 AM Rack 4, Tube 13  
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	507.259	503.717	506.802
Al 308.215	5005.71	5003.02	5027.53
As 188.980	485.632	489.156	480.372
B 249.678	507.872	507.327	508.612
Ba 389.178	4810.19	4784.31	4791.04
Be 313.042	479.048	478.061	477.832
Ca 370.602	5030	5033	5071
Cd 226.502	474.820	472.666	472.641
Co 228.615	487.086	483.874	484.308
Cr 267.716	4864.52	4839.99	4842.44
Cu 324.754	4786.08	4791.76	4760.67
Fe 271.441	5102.25	5140.13	5188.58
K 766.491	9940.68	9901.67	9911.54
Mg 279.078	4882.67	4871.09	4876.59
Mn 257.610	4817.43	4790.92	4794.29
Mo 202.032	489.024	489.356	488.411
Na 330.237	6976.18	7042.93	6938.85
Ni 231.604	2397.65	2368.19	2389.88
Pb 220.353	495.933	494.230	495.378
Sb 206.834	972.468	971.585	976.807
Se 196.026	4814.91	4780.98	4800.60
Sn 189.925	4881.54	4900.68	4892.24
Sr 216.596	2380.93	2366.86	2368.54
Ti 334.941	494.676	492.359	493.826
Tl 190.794	4954.99	4931.53	4925.67
V 292.401	4868.01	4841.41	4843.01
Zn 206.200	2407.28	2392.23	2393.17

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	505.926	ppb	1.9264	0.4	41550.4	101.18520
Al 308.215	5012.09	ppb	13.4439	0.3	17966.6	100.24177
As 188.980	485.053	ppb	4.4204	0.9	364.872	97.01062
B 249.678	507.937	ppb	0.6446	0.1	6224.88	20.31748Q
Ba 389.178	4795.18	ppb	13.4286	0.3	131213	95.90363
Be 313.042	478.314	ppb	0.6458	0.1	1006330	95.66276
Ca 370.602	5044	ppb	23.25	0.5	19792	100.88971
Cd 226.502	473.376	ppb	1.2507	0.3	21994.0	94.67516
Co 228.615	485.089	ppb	1.7430	0.4	6411.77	97.01784
Cr 267.716	4848.99	ppb	13.5111	0.3	253228	96.97971
Cu 324.754	4779.51	ppb	16.5560	0.3	248028	95.59016
Fe 271.441	5143.65	ppb	43.2739	0.8	10711.2	102.87308
K 766.491	9917.96	ppb	20.2818	0.2	533482	99.17965
Mg 279.078	4876.78	ppb	5.7928	0.1	12649.9	97.53569
Mn 257.610	4800.88	ppb	14.4271	0.3	1318439	96.01765
Mo 202.032	488.930	ppb	0.4792	0.1	4173.77	97.78606
Na 330.237	6985.99	ppb	52.7314	0.8	394.927	93.14648
Ni 231.604	2385.24	ppb	15.2694	0.6	8027.95	95.40948
Pb 220.353	495.180	ppb	0.8686	0.2	1124.27	99.03603
Sb 206.834	973.620	ppb	2.7950	0.3	1104.91	97.36198
Se 196.026	4798.83	ppb	17.0379	0.4	2844.27	95.97660
Sn 189.925	4891.49	ppb	9.5915	0.2	4962.95	97.82973
Sr 216.596	2372.11	ppb	7.6846	0.3	31636.5	94.88454
Ti 334.941	493.620	ppb	1.1722	0.2	142752	98.72401
Tl 190.794	4937.40	ppb	15.5154	0.3	6341.85	98.74791
V 292.401	4850.81	ppb	14.9173	0.3	152782	97.01617
Zn 206.200	2397.56	ppb	8.4335	0.4	4772.11	95.90238

Cont Calib Blank (CCB) 4/6/2013, 8:01:32 AM Rack 4, Tube 14  
Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.4340	0.1681	0.7123
Al 308.215	11.1124	11.9181	28.7353
As 188.980	-6.2992u	-5.5256u	-2.1734u
B 249.678	9.4424	9.1467	9.2462
Ba 389.178	2.5433	3.0404	5.1821
Be 313.042	0.1618	0.2199	0.3709
Ca 370.602	19.57	25.19	49.38
Cd 226.502	0.1566	0.2213	0.5583
Co 228.615	-0.5786u	-0.4973u	0.4527
Cr 267.716	1.1584	1.9181	3.2393
Cu 324.754	2.2036	2.6134	4.0940
Fe 271.441	27.2041	33.3218	71.1927
K 766.491	8.0884	9.5958	15.8283
Mg 279.078	7.3179	10.9961	18.8606
Mn 257.610	1.6852	2.8038	6.4519
Mo 202.032	0.3016	0.1547	0.5277
Na 330.237	-153.805u	-143.795u	-161.281u
Ni 231.604	2.4444	1.3349	1.9904
Pb 220.353	0.3245	1.9385	0.4491
Sb 206.834	-3.0183u	4.8811	-3.9443u
Se 196.026	4.7205	-0.6336u	9.6429
Sn 189.925	3.2996	1.9648	3.6542
Sr 216.596	0.8554	1.0553	1.5714
Ti 334.941	0.5149	0.5547	1.0757
Tl 190.794	4.7173	10.6085	7.8134
V 292.401	2.2833	2.4102	3.9749
Zn 206.200	1.3121	1.1864	3.7976

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.4381	ppb	0.2721	62.1	-59.9677	0.43815
Al 308.215	17.2553	ppb	9.9501	57.7	66.9143	17.25525
As 188.980	-4.6661	ppb	2.1931	47.0	-1.1697	-4.66609
B 249.678	9.2785	ppb	0.1505	1.6	172.560	9.27846
Ba 389.178	3.5886	ppb	1.4022	39.1	63.5047	3.58859
Be 313.042	0.2509	ppb	0.1079	43.0	192.979	0.25090
Ca 370.602	31.38	ppb	15.84	50.5	114.9	31.38162
Cd 226.502	0.3120	ppb	0.2157	69.1	23.0478	0.31203
Co 228.615	-0.2078	ppb	0.5734	276.0	1.7426	-0.20775
Cr 267.716	2.1053	ppb	1.0530	50.0	121.287	2.10529
Cu 324.754	2.9703	ppb	0.9945	33.5	35.2286	2.97029
Fe 271.441	43.9062	ppb	23.8279	54.3	89.3422	43.90619Z
K 766.491	11.1708	ppb	4.1033	36.7	815.073	11.17083
Mg 279.078	12.3915	ppb	5.8965	47.6	53.6041	12.39155
Mn 257.610	3.6470	ppb	2.4927	68.3	1347.66	3.64696
Mo 202.032	0.3280	ppb	0.1879	57.3	12.4325	0.32803
Na 330.237	-152.960	ppb	8.7737	5.7	-10.9175	-152.96028
Ni 231.604	1.9232	ppb	0.5578	29.0	7.0153	1.92325
Pb 220.353	0.9040	ppb	0.8981	99.3	4.5816	0.90405
Sb 206.834	-0.6938	ppb	4.8502	699.1	2.2470	-0.69381
Se 196.026	4.5766	ppb	5.1397	112.3	3.8342	4.57657
Sn 189.925	2.9729	ppb	0.8908	30.0	1.2997	2.97288
Sr 216.596	1.1607	ppb	0.3695	31.8	24.7574	1.16069
Ti 334.941	0.7151	ppb	0.3129	43.8	85.7583	0.71512
Tl 190.794	7.7130	ppb	2.9469	38.2	6.1587	7.71303
V 292.401	2.8895	ppb	0.9422	32.6	89.4044	2.88949
Zn 206.200	2.0987	ppb	1.4726	70.2	5.9698	2.09870



E04052013.vvq. All Data Report 4/8/2013, 10:52:27 AM

680-88915-a-2-b (Samp) 4/6/2013, 8:08:00 AM Rack 4, Tube 15

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	1.5225	2.0489	2.1750
Al 308.215	13637.5	13625.7	13711.5
As 188.980	26.8620	28.9070	33.9274
B 249.678	126.922	128.420	128.245
Ba 389.178	1085.80	1085.98	1087.22
Be 313.042	0.4420	0.4497	0.4404
Ca 370.602	16879	16851	16857
Cd 226.502	-0.0083	0.1408	-0.0289
Co 228.615	1.4877	2.0679	1.1662
Cr 267.716	21.6192	21.8520	22.0020
Cu 324.754	266.127	264.647	264.489
Fe 271.441	11961.0	11954.2	11946.3
K 766.491	7122.12	7107.88	7109.54
Mg 279.078	923.202	925.510	919.594
Mn 257.610	27.6571	27.5921	27.5486
Mo 202.032	3.4205	3.4026	2.6193
Na 330.237	92.3569u	68.7342u	220.959u
Ni 231.604	6.8773	7.5595	7.3936
Pb 220.353	4244.88	4250.67	4256.42
Sb 206.834	93.9091	95.1291	91.1124
Se 196.026	7.0913	-0.8077u	12.5073
Sn 189.925	541.053	537.813	540.767
Sr 216.596	102.799	102.434	102.374
Ti 334.941	1316.18	1316.17	1321.32
Tl 190.794	1.1179u	2.3478	5.8896
V 292.401	21.6559	21.4125	21.2866
Zn 206.200	65.2965	67.2079	65.5831

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	1.9155	ppb	0.3461	18.1	56.9942
Al 308.215	13658.2	ppb	46.5078	0.3	48986.1
As 188.980	29.8988	ppb	3.6356	12.2	24.7003
B 249.678	127.862	ppb	0.8188	0.6	1598.81
Ba 389.178	1086.33	ppb	0.7735	0.1	29713.2
Be 313.042	0.4440	ppb	0.0050	1.1	603.893
Ca 370.602	16863	ppb	14.70	0.1	65891
Cd 226.502	0.0345	ppb	0.0926	268.2	46.5550
Co 228.615	1.5739	ppb	0.4570	29.0	63.3858
Cr 267.716	21.8244	ppb	0.1929	0.9	1157.04
Cu 324.754	265.088	ppb	0.9034	0.3	13649.6
Fe 271.441	11953.9	ppb	7.3985	0.1	24559.2
K 766.491	7113.18	ppb	7.7872	0.1	382675
Mg 279.078	922.769	ppb	2.9820	0.3	2426.74
Mn 257.610	27.5993	ppb	0.0546	0.2	7971.53
Mo 202.032	3.1475	ppb	0.4575	14.5	35.7581
Na 330.237	127.350	ppb	81.9237	64.3	-10.7601
Ni 231.604	7.2768	ppb	0.3558	4.9	25.3573
Pb 220.353	4250.65	ppb	5.7703	0.1	9631.76
Sb 206.834	93.3836	ppb	2.0593	2.2	104.494
Se 196.026	6.2636	ppb	6.6960	106.9	4.9245
Sn 189.925	539.878	ppb	1.7940	0.3	546.245
Sr 216.596	102.536	ppb	0.2301	0.2	1387.34
Ti 334.941	1317.89	ppb	2.9697	0.2	381275
Tl 190.794	3.1184	ppb	2.4774	79.4	-1.1868
V 292.401	21.4517	ppb	0.1877	0.9	697.575
Zn 206.200	66.0292	ppb	1.0308	1.6	132.603

E04052013.vvq. All Data Report 4/8/2013, 10:52:27 AM

680-88915-a-3-b (Samp) 4/6/2013, 8:14:28 AM Rack 4, Tube 16

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	31.4583	30.8327	32.4705
Al 308.215	12877.7	12849.2	12807.0
As 188.980	112.270	119.344	114.939
B 249.678	65.5816	65.2071	65.8939
Ba 389.178	5389.12	5380.63	5382.44
Be 313.042	1.9525	1.9391	1.9356
Ca 370.602	32007	31921	31942
Cd 226.502	24.1970	23.9704	24.4325
Co 228.615	12.6686	12.3495	12.6026
Cr 267.716	52.1640	51.8941	51.5272
Cu 324.754	7021.52	6941.08	6974.88
Fe 271.441	101652	101171	101566
K 766.491	6641.85	6635.01	6651.90
Mg 279.078	4662.37	4646.60	4657.30
Mn 257.610	334.098	333.172	333.808
Mo 202.032	15.3394	15.1263	15.7562
Na 330.237	356.368u	237.457u	567.953u
Ni 231.604	40.1956	38.3263	38.4178
Pb 220.353	110743x	110119x	110267x
Sb 206.834	272.554	274.418	273.147
Se 196.026	5.3795	0.9253	5.0713
Sn 189.925	4292.57	4309.52	4321.30
Sr 216.596	406.404	405.432	404.397
Ti 334.941	1641.27	1639.07	1637.17
Tl 190.794	5.8817u	6.6571u	4.7864u
V 292.401	109.324	109.309	109.452
Zn 206.200	2887.07	2874.50	2878.16

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	31.5871b	ppb	0.8265	2.6	2489.53
Al 308.215	12844.7b	ppb	35.5734	0.3	46068.6
As 188.980	115.518b	ppb	3.5722	3.1	87.7671
B 249.678	65.5609b	ppb	0.3438	0.5	732.646
Ba 389.178	5384.06b	ppb	4.4737	0.1	147473
Be 313.042	1.9424b	ppb	0.0089	0.5	3725.93
Ca 370.602	31957b	ppb	45.06	0.1	116652
Cd 226.502	24.1999b	ppb	0.2311	1.0	1442.83
Co 228.615	12.5402b	ppb	0.1684	1.3	210.648
Cr 267.716	51.8618b	ppb	0.3196	0.6	2749.85
Cu 324.754	6979.16b	ppb	40.3866	0.6	362313
Fe 271.441	101463b	ppb	256.281	0.3	208457
K 766.491	6642.92b	ppb	8.4992	0.1	357390
Mg 279.078	4655.42b	ppb	8.0491	0.2	12181.5
Mn 257.610	333.693b	ppb	0.4738	0.1	92335.5
Mo 202.032	15.4073b	ppb	0.3204	2.1	134.935
Na 330.237	387.259b	ppb	167.399	43.2	-54.6824
Ni 231.604	38.9799b	ppb	1.0539	2.7	134.450
Pb 220.353	110376xb	ppb	326.448	0.3	250075
Sb 206.834	273.373b	ppb	0.9523	0.3	302.172
Se 196.026	3.7920b	ppb	2.4875	65.6	4.1852
Sn 189.925	4307.80b	ppb	14.4437	0.3	4370.53
Sr 216.596	405.411b	ppb	1.0032	0.2	5480.98
Ti 334.941	1639.17b	ppb	2.0475	0.1	474279
Tl 190.794	5.7751b	ppb	0.9399	16.3	-8.8349
V 292.401	109.362b	ppb	0.0786	0.1	3475.51
Zn 206.200	2879.91b	ppb	6.4648	0.2	5754.65

E04052013.wvq. All Data Report 4/8/2013, 10:52:27 AM

680-88915-a-4-b (Samp) 4/6/2013, 8:20:56 AM Rack 4, Tube 17

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-1.6193u	-2.3791u	-1.5256u
Al 308.215	73519.0	73942.5	74148.5
As 188.980	45.1512	40.8954	41.9261
B 249.678	3.3718u	2.7283u	3.0982u
Ba 389.178	569.587	569.557	569.959
Be 313.042	6.2626	6.2718	6.2799
Ca 370.602	17077	17058	17072
Cd 226.502	-1.1204	-1.0672	-1.2003
Co 228.615	120.590	120.493	119.155
Cr 267.716	144.345	145.001	145.027
Cu 324.754	698.130	694.129	697.395
Fe 271.441	272433	271698	270501
K 766.491	5390.37	5373.20	5375.92
Mg 279.078	3156.98	3158.73	3160.78
Mn 257.610	11261.7	11238.4	11211.1
Mo 202.032	5.1435	4.9093	4.7578
Na 330.237	954.477u	864.679u	988.019u
Ni 231.604	57.1920	59.2821	59.7928
Pb 220.353	308.540	310.043	306.320
Sb 206.834	1.0733	-0.0001	-2.6703
Se 196.026	-1.8597	1.2833	-0.1632
Sn 189.925	51.8410	49.9027	45.8350
Sr 216.596	51.0639	50.9149	51.7390
Ti 334.941	685.521	687.484	688.322
Tl 190.794	27.9900u	25.8062u	25.6389u
V 292.401	152.252	151.971	152.082
Zn 206.200	1480.93	1482.19	1482.11

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.8414	ppb	0.4681	25.4	-192.795
Al 308.215	73870.0	ppb	320.932	0.4	264916
As 188.980	42.6576	ppb	2.2202	5.2	31.0237
B 249.678	3.0661	ppb	0.3229	10.5	-234.182
Ba 389.178	569.701	ppb	0.2237	0.0	16021.6
Be 313.042	6.2714	ppb	0.0087	0.1	12865.1
Ca 370.602	17069	ppb	9.702	0.1	40487
Cd 226.502	-1.1293	ppb	0.0670	5.9	783.125
Co 228.615	120.080	ppb	0.8019	0.7	1598.24
Cr 267.716	144.791	ppb	0.3863	0.3	7697.87
Cu 324.754	696.551	ppb	2.1295	0.3	36132.9
Fe 271.441	271544	ppb	975.210	0.4	557903
K 766.491	5379.83	ppb	9.2271	0.2	289477
Mg 279.078	3158.83	ppb	1.8984	0.1	8073.21
Mn 257.610	11237.1	ppb	25.3339	0.2	3086277
Mo 202.032	4.9369	ppb	0.1943	3.9	35.3182
Na 330.237	935.725	ppb	63.7722	6.8	-60.8966
Ni 231.604	58.7556	ppb	1.3780	2.3	205.582
Pb 220.353	308.301	ppb	1.8728	0.6	702.099
Sb 206.834	-0.5323	ppb	1.9278	362.1	10.6934
Se 196.026	-0.2465	ppb	1.5731	638.1	6.2789
Sn 189.925	49.1929	ppb	3.0653	6.2	48.2124
Sr 216.596	51.2392	ppb	0.4392	0.9	833.614
Ti 334.941	687.109	ppb	1.4381	0.2	198774
Tl 190.794	26.4784	ppb	1.3118	5.0	-23.0224
V 292.401	152.102	ppb	0.1416	0.1	4803.80
Zn 206.200	1481.74	ppb	0.7079	0.0	2961.22

680-88915-a-5-b (Samp) 4/6/2013, 8:27:24 AM Rack 4, Tube 18  
Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-1.5195u	-1.6541u	-2.5137u
Al 308.215	160216	160011	159975
As 188.980	61.0611	49.6235	50.6821
B 249.678	9.9458u	8.2056u	10.9769u
Ba 389.178	2104.72	2101.08	2104.52
Be 313.042	15.2814	15.2651	15.3323
Ca 370.602	29616	29614	29637
Cd 226.502	-0.8653	-0.8696	-0.6573
Co 228.615	95.4310	94.6388	95.7815
Cr 267.716	234.885	234.078	234.867
Cu 324.754	60.3763	60.3666	59.9107
Fe 271.441	230454	230182	231242
K 766.491	15201.0	15207.5	15290.8
Mg 279.078	11227.1	11224.0	11230.5
Mn 257.610	8203.56	8185.51	8208.90
Mo 202.032	3.8383	4.5915	3.9430
Na 330.237	7604.78	7954.19	7612.37
Ni 231.604	123.612	122.139	124.920
Pb 220.353	197.427	198.741	196.316
Sb 206.834	4.2069	2.3660	-4.7977
Se 196.026	0.4093	-1.1721	-6.2927
Sn 189.925	17.0773	16.5810	16.8240
Sr 216.596	124.392	125.002	125.085
Ti 334.941	647.803	646.715	648.115
Tl 190.794	19.8658u	25.0509u	19.2619u
V 292.401	296.784	296.917	298.565
Zn 206.200	293.086	292.955	293.993

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.8958	ppb	0.5394	28.5	-214.977
Al 308.215	160067	ppb	130.083	0.1	574035
As 188.980	53.7889	ppb	6.3201	11.7	39.9825
B 249.678	9.7095	ppb	1.4007	14.4	-103.595
Ba 389.178	2103.44	ppb	2.0484	0.1	57944.7
Be 313.042	15.2929	ppb	0.0351	0.2	31864.3
Ca 370.602	29622	ppb	12.99	0.0	94277
Cd 226.502	-0.7974	ppb	0.1213	15.2	674.168
Co 228.615	95.2837	ppb	0.5854	0.6	1272.03
Cr 267.716	234.610	ppb	0.4610	0.2	12363.2
Cu 324.754	60.2179	ppb	0.2660	0.4	3076.32
Fe 271.441	230626	ppb	550.573	0.2	473836
K 766.491	15233.1	ppb	50.0486	0.3	819267
Mg 279.078	11227.2	ppb	3.2731	0.0	29150.0
Mn 257.610	8199.32	ppb	12.2552	0.1	2252241
Mo 202.032	4.1242	ppb	0.4080	9.9	30.4831
Na 330.237	7723.78	ppb	199.578	2.6	376.509
Ni 231.604	123.557	ppb	1.3912	1.1	422.606
Pb 220.353	197.494	ppb	1.2138	0.6	448.171
Sb 206.834	0.5917	ppb	4.7573	804.0	11.9396
Se 196.026	-2.3518	ppb	3.5033	149.0	3.8292
Sn 189.925	16.8274	ppb	0.2482	1.5	15.3734
Sr 216.596	124.826	ppb	0.3788	0.3	1796.25
Ti 334.941	647.545	ppb	0.7349	0.1	187360
Tl 190.794	21.3928	ppb	3.1823	14.9	-18.8564
V 292.401	297.422	ppb	0.9923	0.3	9386.79
Zn 206.200	293.345	ppb	0.5654	0.2	586.853

E04052013.vvq. All Data Report 4/8/2013, 10:52:27 AM

680-88915-a-6-b (Samp) 4/6/2013, 8:33:52 AM Rack 4, Tube 19

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.2921	-0.3578	-0.0399
Al 308.215	85904.7	85345.0	85805.5
As 188.980	75.0843	79.4085	70.7704
B 249.678	16.9854u	15.7183u	16.2500u
Ba 389.178	217.959	217.516	218.387
Be 313.042	2.7248	2.7213	2.7246
Ca 370.602	11958	11941	11932
Cd 226.502	-1.5105	-1.8935	-1.6605
Co 228.615	79.0801	78.1033	77.7557
Cr 267.716	173.540	173.909	174.955
Cu 324.754	59.8994	59.8734	60.8917
Fe 271.441	218823	218321	218634
K 766.491	7271.97	7262.44	7261.64
Mg 279.078	4541.17	4544.61	4553.20
Mn 257.610	7046.95	7029.34	7047.82
Mo 202.032	6.8563	6.8002	6.4635
Na 330.237	154.278u	414.234u	371.599u
Ni 231.604	37.4217	36.7088	37.1984
Pb 220.353	165.360	167.864	169.397
Sb 206.834	-14.2752u	-7.8155u	2.8998
Se 196.026	4.1633	7.9969	8.6760
Sn 189.925	12.0926	17.2853	15.6567
Sr 216.596	68.7951	68.2269	68.7306
Ti 334.941	725.946	727.890	730.835
Tl 190.794	18.1124u	17.2701u	18.4679u
V 292.401	251.527	250.338	251.710
Zn 206.200	176.531	171.397	174.359

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.2299	ppb	0.1678	73.0	-81.3142
Al 308.215	85685.1	ppb	298.650	0.3	307286
As 188.980	75.0877	ppb	4.3190	5.8	55.8802
B 249.678	16.3179	ppb	0.6363	3.9	-8.5139
Ba 389.178	217.954	ppb	0.4356	0.2	6312.04
Be 313.042	2.7236	ppb	0.0020	0.1	5393.30
Ca 370.602	11943	ppb	12.99	0.1	25445
Cd 226.502	-1.6882	ppb	0.1930	11.4	595.814
Co 228.615	78.3131	ppb	0.6866	0.9	1050.79
Cr 267.716	174.135	ppb	0.7337	0.4	9195.81
Cu 324.754	60.2215	ppb	0.5806	1.0	3073.31
Fe 271.441	218592	ppb	253.499	0.1	449109
K 766.491	7265.35	ppb	5.7483	0.1	390857
Mg 279.078	4546.33	ppb	6.1970	0.1	11762.6
Mn 257.610	7041.37	ppb	10.4260	0.1	1934235
Mo 202.032	6.7067	ppb	0.2125	3.2	53.3601
Na 330.237	313.370	ppb	139.417	44.5	-68.6270
Ni 231.604	37.1096	ppb	0.3646	1.0	131.320
Pb 220.353	167.541	ppb	2.0381	1.2	381.642
Sb 206.834	-6.3970	ppb	8.6749	135.6	3.2842
Se 196.026	6.9454	ppb	2.4332	35.0	8.8997
Sn 189.925	15.0115	ppb	2.6558	17.7	13.5184
Sr 216.596	68.5842	ppb	0.3111	0.5	1038.01
Ti 334.941	728.224	ppb	2.4616	0.3	210673
Tl 190.794	17.9501	ppb	0.6151	3.4	-19.6742
V 292.401	251.192	ppb	0.7450	0.3	7932.14
Zn 206.200	174.095	ppb	2.5770	1.5	348.875

E04052013.vvq. All Data Report 4/8/2013, 10:52:27 AM

680-88915-a-7-b (Samp) 4/6/2013, 8:40:20 AM Rack 4, Tube 20

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	1.2157	0.9960	0.9479
Al 308.215	47680.0	47476.4	47702.1
As 188.980	157.741	153.348	154.973
B 249.678	12.3542u	13.2055u	12.7425u
Ba 389.178	1108.07	1105.85	1107.34
Be 313.042	3.5447	3.5311	3.5357
Ca 370.602	984944x	979300x	979161x
Cd 226.502	27.0971	26.6612	26.7835
Co 228.615	98.7561	99.5975	100.369
Cr 267.716	910.589	905.493	908.078
Cu 324.754	1488.37	1484.83	1467.63
Fe 271.441	589690	585004	587845
K 766.491	13368.0	13324.1	13357.2
Mg 279.078	253686	253669	254024
Mn 257.610	18418.7	18285.3	18370.6
Mo 202.032	73.5849	72.2944	70.5142
Na 330.237	1095.52u	1205.52u	1356.46u
Ni 231.604	433.526	429.662	432.318
Pb 220.353	1444.60	1438.28	1442.32
Sb 206.834	42.3273	37.4737	40.1595
Se 196.026	-7.9278	-17.0890u	-7.0324
Sn 189.925	99.9104	98.0693	106.282
Sr 216.596	815.518	812.965	813.307
Ti 334.941	1697.44	1690.37	1694.72
Tl 190.794	30.7040u	29.7391u	31.6365u
V 292.401	162.380	160.569	160.467
Zn 206.200	4969.40	4952.55	4963.31

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	1.0532b	ppb	0.1428	13.6	36.5740
Al 308.215	47619.5b	ppb	124.399	0.3	170782
As 188.980	155.354b	ppb	2.2214	1.4	121.122
B 249.678	12.7674b	ppb	0.4262	3.3	-502.127
Ba 389.178	1107.09b	ppb	1.1320	0.1	32021.8
Be 313.042	3.5372b	ppb	0.0069	0.2	7444.80
Ca 370.602	981135xb	ppb	3300	0.3	3828480
Cd 226.502	26.8473b	ppb	0.2248	0.8	3048.53
Co 228.615	99.5741b	ppb	0.8065	0.8	1345.28
Cr 267.716	908.053b	ppb	2.5485	0.3	47677.9
Cu 324.754	1480.27b	ppb	11.0919	0.7	76928.5
Fe 271.441	587513b	ppb	2360.84	0.4	1207052
K 766.491	13349.8b	ppb	22.8646	0.2	718003
Mg 279.078	253793b	ppb	200.285	0.1	662046
Mn 257.610	18358.2b	ppb	67.5779	0.4	5044745
Mo 202.032	72.1312b	ppb	1.5418	2.1	590.313
Na 330.237	1219.17b	ppb	131.003	10.7	-196.205
Ni 231.604	431.835b	ppb	1.9766	0.5	1469.60
Pb 220.353	1441.73b	ppb	3.2004	0.2	3271.98
Sb 206.834	39.9869b	ppb	2.4314	6.1	69.4607
Se 196.026	-10.6831b	ppb	5.5657	52.1	4.4813
Sn 189.925	101.421b	ppb	4.3098	4.2	101.702
Sr 216.596	813.930b	ppb	1.3856	0.2	11296.7
Ti 334.941	1694.17b	ppb	3.5677	0.2	491400
Tl 190.794	30.6932b	ppb	0.9488	3.1	-68.5487
V 292.401	161.139b	ppb	1.0761	0.7	5041.40
Zn 206.200	4961.75b	ppb	8.5306	0.2	4910.07

E04052013.vvq. All Data Report 4/8/2013, 10:52:27 AM

680-88915-a-8-b (Samp)                      4/6/2013, 8:46:47 AM                      Rack 4, Tube 21  
 Weight: 1                                      Volume: 1                                      Dilution: 1

Label	Replicates Concentration		
Ag 328.068	53.0794	52.3187	52.7990
Al 308.215	68739.8	69059.9	69819.4
As 188.980	798.716	790.526	787.315
B 249.678	50.3613	51.1734	50.4235
Ba 389.178	1903.62	1898.68	1905.72
Be 313.042	4.9832	4.9690	4.9960
Ca 370.602	1171386x	1170781x	1179870x
Cd 226.502	18.0557	17.2655	17.4299
Co 228.615	81.5292	81.2297	83.0584
Cr 267.716	653.891	655.684	660.373
Cu 324.754	32376.6	31441.5	31771.9
Fe 271.441	436593	436373	436508
K 766.491	9828.54	10140.5	9770.51
Mg 279.078	128013	128009	128552
Mn 257.610	4619.75	4601.41	4617.18
Mo 202.032	21.5227	20.6721	21.3269
Na 330.237	1125.44u	1072.24u	828.934u
Ni 231.604	240.633	242.020	241.447
Pb 220.353	291490x	290943x	293733x
Sb 206.834	27759.3x	27778.3x	27983.7x
Se 196.026	-4.4546	15.6394	1.8418
Sn 189.925	15616.8x	15645.6x	15660.4x
Sr 216.596	1023.84	1023.68	1031.92
Ti 334.941	1165.06	1167.69	1174.35
Tl 190.794	6.2134u	10.0151u	9.0380u
V 292.401	146.312	145.853	146.760
Zn 206.200	4713.57	4705.92	4725.70

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	52.7324b	ppb	0.3847	0.7	4217.85
Al 308.215	69206.4b	ppb	554.506	0.8	248193
As 188.980	792.185b	ppb	5.8790	0.7	601.221
B 249.678	50.6527b	ppb	0.4520	0.9	143.111
Ba 389.178	1902.67b	ppb	3.6098	0.2	53153.9
Be 313.042	4.9827b	ppb	0.0135	0.3	10507.3
Ca 370.602	1174012xb	ppb	5082	0.4	4607540
Cd 226.502	17.5837b	ppb	0.4170	2.4	2160.04
Co 228.615	81.9391b	ppb	0.9808	1.2	1092.20
Cr 267.716	656.649b	ppb	3.3471	0.5	34442.3
Cu 324.754	31863.3b	ppb	474.195	1.5	1654558
Fe 271.441	436491b	ppb	110.831	0.0	896777
K 766.491	9913.19b	ppb	198.993	2.0	533226
Mg 279.078	128191b	ppb	312.532	0.2	334521
Mn 257.610	4612.78b	ppb	9.9335	0.2	1269405
Mo 202.032	21.1739b	ppb	0.4455	2.1	164.203
Na 330.237	1008.87b	ppb	158.084	15.7	-148.143
Ni 231.604	241.366b	ppb	0.6969	0.3	824.548
Pb 220.353	292055xb	ppb	1478.11	0.5	661697
Sb 206.834	27840.4xb	ppb	124.434	0.4	30109.6
Se 196.026	4.3422b	ppb	10.2777	236.7	8.1664
Sn 189.925	15640.9xb	ppb	22.2012	0.1	15873.8
Sr 216.596	1026.48b	ppb	4.7140	0.5	14090.2
Ti 334.941	1169.03b	ppb	4.7893	0.4	338834
Tl 190.794	8.4222b	ppb	1.9742	23.4	-52.9744
V 292.401	146.308b	ppb	0.4534	0.3	4591.47
Zn 206.200	4715.06b	ppb	9.9730	0.2	4418.25

E04052013.vvq. All Data Report 4/8/2013, 10:52:27 AM

680-88915-a-9-b (Samp) 4/6/2013, 8:53:15 AM Rack 4, Tube 22

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	4.8652	4.3426	4.0828
Al 308.215	37534.3	37532.7	37317.6
As 188.980	1084.37	1080.37	1083.61
B 249.678	73.4142u	77.9502u	80.0962u
Ba 389.178	2268.10	2265.82	2268.65
Be 313.042	5.5156	5.5087	5.5104
Ca 370.602	168399	169374	168550
Cd 226.502	32.6018	32.4636	33.8395
Co 228.615	216.932	218.994	219.355
Cr 267.716	309.076	308.984	308.115
Cu 324.754	5228.07	5233.73	5143.99
Fe 271.441	1823462x	1822951x	1823330x
K 766.491	5486.59	5501.12	5497.50
Mg 279.078	21813.3	21792.3	21745.7
Mn 257.610	11545.0	11556.0	11547.2
Mo 202.032	39.3863	39.1768	39.1802
Na 330.237	803.695u	643.149u	862.289u
Ni 231.604	389.120	380.440	387.801
Pb 220.353	17805.0	17755.3	17746.4
Sb 206.834	670.913	667.241	662.991
Se 196.026	0.1354	-14.9540	-12.1019
Sn 189.925	653.548	650.911	651.247
Sr 216.596	807.568	809.156	803.786
Ti 334.941	1888.15	1892.22	1886.24
Tl 190.794	-11.8747u	-12.5966u	-21.1996u
V 292.401	554.132	554.539	553.438
Zn 206.200	9450.19	9445.54	9459.48

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	4.4302b	ppb	0.3985	9.0	283.325
Al 308.215	37461.5b	ppb	124.653	0.3	134346
As 188.980	1082.79b	ppb	2.1230	0.2	791.088
B 249.678	77.1535b	ppb	3.4115	4.4	-1226.54
Ba 389.178	2267.52b	ppb	1.5020	0.1	65153.1
Be 313.042	5.5116b	ppb	0.0036	0.1	11259.9
Ca 370.602	168774b	ppb	524.7	0.3	483654
Cd 226.502	32.9683b	ppb	0.7576	2.3	7090.29
Co 228.615	218.427b	ppb	1.3073	0.6	2868.91
Cr 267.716	308.725b	ppb	0.5300	0.2	16659.9
Cu 324.754	5201.93b	ppb	50.2575	1.0	270558
Fe 271.441	1823248xb	ppb	265.372	0.0	3745862
K 766.491	5495.07b	ppb	7.5600	0.1	295673
Mg 279.078	21783.8b	ppb	34.6073	0.2	57031.8
Mn 257.610	11549.4b	ppb	5.8249	0.1	3177281
Mo 202.032	39.2478b	ppb	0.1200	0.3	235.224
Na 330.237	769.711b	ppb	113.454	14.7	-704.814
Ni 231.604	385.787b	ppb	4.6773	1.2	1347.68
Pb 220.353	17768.9b	ppb	31.5492	0.2	40261.7
Sb 206.834	667.048b	ppb	3.9644	0.6	772.005
Se 196.026	-8.9735b	ppb	8.0164	89.3	12.1694
Sn 189.925	651.902b	ppb	1.4354	0.2	659.967
Sr 216.596	806.837b	ppb	2.7587	0.3	11734.2
Ti 334.941	1888.87b	ppb	3.0541	0.2	546825
Tl 190.794	-15.2236b	ppb	5.1879	34.1	-259.544
V 292.401	554.036b	ppb	0.5569	0.1	17504.8
Zn 206.200	9451.73b	ppb	7.0961	0.1	18881.9



E04052013.wvq. All Data Report 4/8/2013, 10:52:27 AM

680-88915-a-10-b (Samp) 4/6/2013, 8:59:43 AM Rack 4, Tube 23

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.3168	-0.8222	-0.8652
Al 308.215	88367.2	87816.4	88555.4
As 188.980	108.968	109.490	109.315
B 249.678	-2.5012u	-2.6032u	-4.0596u
Ba 389.178	314.093	313.736	313.235
Be 313.042	4.6985	4.7018	4.7110
Ca 370.602	13608	13616	13584
Cd 226.502	-2.0261	-2.0046	-2.1026
Co 228.615	192.138	190.196	194.703
Cr 267.716	311.687	311.223	312.584
Cu 324.754	76.5134	76.2792	75.6379
Fe 271.441	340321	339097	339505
K 766.491	6750.30	6725.20	6727.68
Mg 279.078	4512.13	4513.26	4545.42
Mn 257.610	17097.3	17099.5	17116.8
Mo 202.032	10.4636	9.8013	11.0071
Na 330.237	278.504u	144.158u	361.694u
Ni 231.604	46.8186	49.6989	48.2525
Pb 220.353	326.321	327.764	325.624
Sb 206.834	11.5137	8.0345	9.6670
Se 196.026	2.7614	-0.2304	1.5074
Sn 189.925	16.0437	17.1256	15.9147
Sr 216.596	82.7863	81.9143	83.4846
Ti 334.941	769.157	765.518	770.139
Tl 190.794	39.3045u	37.3244u	38.2314u
V 292.401	325.389	325.074	325.534
Zn 206.200	342.958	344.641	344.914

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.6681	ppb	0.3050	45.6	-66.7567
Al 308.215	88246.3	ppb	384.080	0.4	316471
As 188.980	109.258	ppb	0.2656	0.2	79.9492
B 249.678	-3.0546	ppb	0.8718	28.5	-391.243
Ba 389.178	313.688	ppb	0.4310	0.1	9135.21
Be 313.042	4.7038	ppb	0.0065	0.1	9553.60
Ca 370.602	13603	ppb	16.64	0.1	20067
Cd 226.502	-2.0444	ppb	0.0515	2.5	947.110
Co 228.615	192.346	ppb	2.2607	1.2	2551.55
Cr 267.716	311.831	ppb	0.6918	0.2	16465.9
Cu 324.754	76.1435	ppb	0.4533	0.6	3936.81
Fe 271.441	339641	ppb	623.189	0.2	697822
K 766.491	6734.39	ppb	13.8304	0.2	362309
Mg 279.078	4523.60	ppb	18.9008	0.4	11527.1
Mn 257.610	17104.5	ppb	10.6469	0.1	4697356
Mo 202.032	10.4240	ppb	0.6039	5.8	77.7608
Na 330.237	261.452	ppb	109.766	42.0	-116.653
Ni 231.604	48.2567	ppb	1.4402	3.0	172.068
Pb 220.353	326.570	ppb	1.0918	0.3	744.820
Sb 206.834	9.7384	ppb	1.7407	17.9	25.1690
Se 196.026	1.3462	ppb	1.5024	111.6	9.4639
Sn 189.925	16.3613	ppb	0.6650	4.1	14.8857
Sr 216.596	82.7284	ppb	0.7868	1.0	1288.58
Ti 334.941	768.271	ppb	2.4343	0.3	222277
Tl 190.794	38.2868	ppb	0.9912	2.6	-26.8794
V 292.401	325.332	ppb	0.2350	0.1	10264.2
Zn 206.200	344.171	ppb	1.0594	0.3	688.075

E04052013.wvq. All Data Report 4/8/2013, 10:52:27 AM

680-88915-a-11-b (Samp) 4/6/2013, 9:06:11 AM Rack 4, Tube 24

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-4.1161u	-3.3743u	-3.8424u
Al 308.215	112471	112442	112440
As 188.980	116.851	116.944	114.795
B 249.678	-21.9183u	-21.1067u	-21.9794u
Ba 389.178	1188.43	1190.31	1192.77
Be 313.042	38.5802	38.5875	38.5228
Ca 370.602	29264	29357	29586
Cd 226.502	-1.4218	-1.1852	-1.1750
Co 228.615	228.901	230.628	229.804
Cr 267.716	191.417	192.042	191.826
Cu 324.754	225.415	229.784	232.248
Fe 271.441	361476	362375	362740
K 766.491	10165.1	10180.5	10206.9
Mg 279.078	7932.54	7951.63	7984.95
Mn 257.610	14882.9	14910.4	14918.8
Mo 202.032	4.2670	4.8913	4.3255
Na 330.237	361.550u	389.569u	344.712u
Ni 231.604	404.737	403.153	402.599
Pb 220.353	404.169	421.457	467.325
Sb 206.834	1.6143	1.4300	4.5815
Se 196.026	-6.8366	-5.8335	-12.7799u
Sn 189.925	16.9759	16.8558	22.0577
Sr 216.596	80.0980	79.9332	81.3483
Ti 334.941	809.344	810.797	812.277
Tl 190.794	36.9992u	34.5036u	33.4627u
V 292.401	320.172	321.216	321.574
Zn 206.200	1096.36	1102.26	1102.37

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-3.7776	ppb	0.3751	9.9	-334.172
Al 308.215	112451	ppb	17.1303	0.0	403273
As 188.980	116.197	ppb	1.2147	1.0	85.0129
B 249.678	-21.6681	ppb	0.4872	2.2	-645.479
Ba 389.178	1190.50	ppb	2.1736	0.2	33176.4
Be 313.042	38.5635	ppb	0.0355	0.1	80844.5
Ca 370.602	29402	ppb	165.9	0.6	80250
Cd 226.502	-1.2607	ppb	0.1396	11.1	1053.66
Co 228.615	229.778	ppb	0.8636	0.4	3045.13
Cr 267.716	191.762	ppb	0.3174	0.2	10190.9
Cu 324.754	229.149	ppb	3.4606	1.5	11888.8
Fe 271.441	362197	ppb	650.433	0.2	744171
K 766.491	10184.1	ppb	21.1078	0.2	547794
Mg 279.078	7956.38	ppb	26.5251	0.3	20526.3
Mn 257.610	14904.0	ppb	18.7710	0.1	4093347
Mo 202.032	4.4946	ppb	0.3448	7.7	25.7670
Na 330.237	365.277	ppb	22.6593	6.2	-125.534
Ni 231.604	403.496	ppb	1.1095	0.3	1368.22
Pb 220.353	430.984	ppb	32.6379	7.6	980.164
Sb 206.834	2.5419	ppb	1.7687	69.6	17.0414
Se 196.026	-8.4834	ppb	3.7546	44.3	3.1478
Sn 189.925	18.6298	ppb	2.9692	15.9	17.1954
Sr 216.596	80.4598	ppb	0.7739	1.0	1264.76
Ti 334.941	810.806	ppb	1.4665	0.2	234605
Tl 190.794	34.9885	ppb	1.8174	5.2	-29.6142
V 292.401	320.987	ppb	0.7284	0.2	10137.7
Zn 206.200	1100.33	ppb	3.4360	0.3	2199.11

E04052013.vvq. All Data Report 4/8/2013, 10:52:27 AM

Cont Calib Verif (CCV) 4/6/2013, 9:12:39 AM Rack 4, Tube 25  
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	502.957	502.854	502.830
Al 308.215	4988.21	5052.13	5074.81
As 188.980	485.853	487.238	486.470
B 249.678	498.236	506.011	511.239
Ba 389.178	4740.07	4795.58	4807.03
Be 313.042	473.657	477.806	478.588
Ca 370.602	4879	4956	4981
Cd 226.502	466.782	473.041	474.162
Co 228.615	476.168	483.896	484.869
Cr 267.716	4788.89	4829.47	4852.21
Cu 324.754	4796.90	4804.76	4745.18
Fe 271.441	5153.38	5375.96	5467.36
K 766.491	9836.65	9960.63	9929.69
Mg 279.078	4790.93	4854.30	4878.37
Mn 257.610	4740.49	4796.92	4821.27
Mo 202.032	480.784	489.906	491.139
Na 330.237	7027.37	7154.45	7012.97
Ni 231.604	2349.10	2391.02	2367.03
Pb 220.353	487.298	498.664	505.911
Sb 206.834	961.554	977.658	983.120
Se 196.026	4748.07	4790.13	4818.85
Sn 189.925	4926.06	4926.44	4880.72
Sr 216.596	2344.67	2365.24	2373.83
Ti 334.941	490.045	494.092	495.369
Tl 190.794	4875.70	4924.14	4953.75
V 292.401	4794.02	4851.74	4862.69
Zn 206.200	2350.02	2382.47	2396.41

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	502.880	ppb	0.0674	0.0	41299.5	100.57610
Al 308.215	5038.38	ppb	44.9058	0.9	18061.0	100.76761
As 188.980	486.520	ppb	0.6940	0.1	365.966	97.30408
B 249.678	505.162	ppb	6.5427	1.3	6190.95	20.20648Q
Ba 389.178	4780.89	ppb	35.8121	0.7	130822	95.61785
Be 313.042	476.684	ppb	2.6500	0.6	1002899	95.33675
Ca 370.602	4939	ppb	53.15	1.1	19354	98.77489
Cd 226.502	471.328	ppb	3.9771	0.8	21899.5	94.26563
Co 228.615	481.644	ppb	4.7677	1.0	6366.17	96.32885
Cr 267.716	4823.52	ppb	32.0776	0.7	251898	96.47041
Cu 324.754	4782.28	ppb	32.3683	0.7	248172	95.64557
Fe 271.441	5332.23	ppb	161.489	3.0	11098.0	106.64467
K 766.491	9908.99	ppb	64.5314	0.7	533000	99.08990
Mg 279.078	4841.20	ppb	45.1719	0.9	12557.5	96.82398
Mn 257.610	4786.23	ppb	41.4349	0.9	1314416	95.72453
Mo 202.032	487.276	ppb	5.6562	1.2	4159.66	97.45519
Na 330.237	7064.93	ppb	77.8603	1.1	399.849	94.19904
Ni 231.604	2369.05	ppb	21.0327	0.9	7973.48	94.76208
Pb 220.353	497.291	ppb	9.3822	1.9	1129.05	99.45811
Sb 206.834	974.111	ppb	11.2121	1.2	1105.06	97.41106
Se 196.026	4785.68	ppb	35.6022	0.7	2836.48	95.71363
Sn 189.925	4911.07	ppb	26.2859	0.5	4982.83	98.22146
Sr 216.596	2361.25	ppb	14.9814	0.6	31491.8	94.44987
Ti 334.941	493.169	ppb	2.7798	0.6	142621	98.63374
Tl 190.794	4917.87	ppb	39.4026	0.8	6316.74	98.35731
V 292.401	4836.15	ppb	36.8927	0.8	152321	96.72301
Zn 206.200	2376.30	ppb	23.8950	1.0	4729.77	95.05197

E04052013.vvq. All Data Report 4/8/2013, 10:52:27 AM

Cont Calib Blank (CCB) 4/6/2013, 9:19:18 AM Rack 4, Tube 26

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.9710	0.7722	0.2872
Al 308.215	8.3011	12.5561	12.3049
As 188.980	-6.7262u	-6.0189u	-5.5271u
B 249.678	9.0458	7.9281	7.6898
Ba 389.178	1.8603	1.2305	3.1109
Be 313.042	0.1164	0.1518	0.1756
Ca 370.602	21.02	19.94	24.73
Cd 226.502	0.1481	0.2837	0.2062
Co 228.615	-0.4826u	0.3493	-0.4477u
Cr 267.716	0.7437	1.3691	1.1543
Cu 324.754	1.4989	1.5553	2.8438
Fe 271.441	38.6535	47.2126	57.9752
K 766.491	6.0847	6.4380	6.7074
Mg 279.078	0.4813	3.7655	4.5695
Mn 257.610	1.4346	2.0573	2.6675
Mo 202.032	0.1042	0.3881	0.4687
Na 330.237	-73.3875u	-91.9145u	87.6866
Ni 231.604	0.9098	0.3356	1.8807
Pb 220.353	4.2816	0.6256	3.9452
Sb 206.834	0.0781	6.3081	2.7024
Se 196.026	5.3351	0.0647	5.9097
Sn 189.925	0.9119	3.0005	1.8454
Sr 216.596	0.8135	0.7286	1.3267
Ti 334.941	0.4455	0.4542	0.4799
Tl 190.794	5.6106	4.9735	7.0460
V 292.401	1.5227	1.4325	2.0058
Zn 206.200	1.6585	0.2027	1.8327

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.6768	ppb	0.3517	52.0	-40.2902	0.67679
Al 308.215	11.0540	ppb	2.3874	21.6	44.7063	11.05405
As 188.980	-6.0907	ppb	0.6028	9.9	-2.2353	-6.09075
B 249.678	8.2212	ppb	0.7240	8.8	159.708	8.22121
Ba 389.178	2.0672	ppb	0.9571	46.3	21.8539	2.06723
Be 313.042	0.1479	ppb	0.0298	20.2	-23.7848	0.14794
Ca 370.602	21.90	ppb	2.512	11.5	76.70	21.89614
Cd 226.502	0.2127	ppb	0.0680	32.0	18.4502	0.21267
Co 228.615	-0.1937	ppb	0.4706	243.0	1.9096	-0.19367
Cr 267.716	1.0890	ppb	0.3178	29.2	68.2227	1.08903
Cu 324.754	1.9660	ppb	0.7607	38.7	-16.9006	1.96599
Fe 271.441	47.9471	ppb	9.6817	20.2	97.6353	47.94708Z
K 766.491	6.4100	ppb	0.3123	4.9	559.095	6.41002
Mg 279.078	2.9388	ppb	2.1659	73.7	28.9711	2.93878
Mn 257.610	2.0531	ppb	0.6164	30.0	910.018	2.05313
Mo 202.032	0.3203	ppb	0.1915	59.8	12.3692	0.32033
Na 330.237	-25.8718	ppb	98.7798	381.8	-3.1956	-25.87181
Ni 231.604	1.0420	ppb	0.7810	74.9	4.0498	1.04204
Pb 220.353	2.9508	ppb	2.0207	68.5	9.2183	2.95081
Sb 206.834	3.0295	ppb	3.1279	103.2	6.2559	3.02953
Se 196.026	3.7698	ppb	3.2216	85.5	3.3560	3.76984
Sn 189.925	1.9193	ppb	1.0462	54.5	0.2304	1.91927
Sr 216.596	0.9563	ppb	0.3236	33.8	22.0299	0.95626
Ti 334.941	0.4599	ppb	0.0179	3.9	11.8242	0.45986
Tl 190.794	5.8767	ppb	1.0615	18.1	3.7977	5.87669
V 292.401	1.6537	ppb	0.3082	18.6	50.3838	1.65366
Zn 206.200	1.2313	ppb	0.8950	72.7	4.2409	1.23129

E04052013.wvq. All Data Report 4/8/2013, 10:52:27 AM

680-88915-a-12-d (Samp) 4/6/2013, 9:25:47 AM Rack 4, Tube 27

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-3.7358u	-3.4724u	-3.5118u
Al 308.215	99127.3	98138.9	98137.7
As 188.980	171.562	171.801	173.025
B 249.678	-32.8887u	-32.4510u	-30.6238u
Ba 389.178	857.674	854.509	855.777
Be 313.042	18.3969	18.2970	18.2909
Ca 370.602	30239	30229	30197
Cd 226.502	-1.6292	-1.4312	-1.2450
Co 228.615	179.358	177.893	180.298
Cr 267.716	219.206	217.949	218.033
Cu 324.754	268.210	266.321	265.353
Fe 271.441	420147	419336	420070
K 766.491	8758.56	8722.61	8704.02
Mg 279.078	7648.58	7631.41	7642.93
Mn 257.610	10601.1	10587.7	10574.1
Mo 202.032	3.6100	3.5375	3.0295
Na 330.237	608.272u	362.692u	276.533u
Ni 231.604	268.809	266.498	267.113
Pb 220.353	477.034	475.728	472.992
Sb 206.834	-4.1068	0.0031	-8.2491
Se 196.026	-15.7376u	-3.2479	-7.4744
Sn 189.925	16.7279	14.8437	14.0404
Sr 216.596	53.9079	53.3050	52.7871
Ti 334.941	655.399	651.054	649.627
Tl 190.794	20.4387u	22.3640u	23.6199u
V 292.401	339.769	338.521	339.848
Zn 206.200	1228.78	1218.83	1221.81

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-3.5733	ppb	0.1421	4.0	-338.372
Al 308.215	98468.0	ppb	570.991	0.6	353127
As 188.980	172.129	ppb	0.7847	0.5	126.141
B 249.678	-31.9878	ppb	1.2014	3.8	-840.459
Ba 389.178	855.987	ppb	1.5932	0.2	24118.6
Be 313.042	18.3283	ppb	0.0595	0.3	38244.0
Ca 370.602	30221	ppb	21.99	0.1	77490
Cd 226.502	-1.4351	ppb	0.1921	13.4	1219.28
Co 228.615	179.183	ppb	1.2121	0.7	2371.24
Cr 267.716	218.396	ppb	0.7030	0.3	11575.3
Cu 324.754	266.628	ppb	1.4528	0.5	13852.4
Fe 271.441	419851	ppb	447.884	0.1	862609
K 766.491	8728.39	ppb	27.7262	0.3	469522
Mg 279.078	7640.97	ppb	8.7501	0.1	19807.7
Mn 257.610	10587.6	ppb	13.4824	0.1	2908511
Mo 202.032	3.3923	ppb	0.3163	9.3	12.9229
Na 330.237	415.833	ppb	172.135	41.4	-142.500
Ni 231.604	267.474	ppb	1.1969	0.4	911.968
Pb 220.353	475.251	ppb	2.0628	0.4	1079.59
Sb 206.834	-4.1176	ppb	4.1261	100.2	11.3921
Se 196.026	-8.8200	ppb	6.3527	72.0	2.0492
Sn 189.925	15.2040	ppb	1.3795	9.1	13.7171
Sr 216.596	53.3334	ppb	0.5610	1.1	934.520
Ti 334.941	652.027	ppb	3.0060	0.5	188661
Tl 190.794	22.1409	ppb	1.6023	7.2	-44.5827
V 292.401	339.379	ppb	0.7444	0.2	10714.2
Zn 206.200	1223.14	ppb	5.1061	0.4	2444.33

E04052013.wvq. All Data Report 4/8/2013, 10:52:27 AM

680-88915-a-12-e ms (Samp) 4/6/2013, 9:32:15 AM Rack 4, Tube 28

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	7.6987	8.4789	7.1202
Al 308.215	120194	118109	119246
As 188.980	234.278	220.583	229.526
B 249.678	29.4527u	29.4316u	30.6819u
Ba 389.178	899.355	880.072	888.916
Be 313.042	61.8237	60.5133	61.1234
Ca 370.602	39146	38510	38771
Cd 226.502	37.9622	36.2445	36.9117
Co 228.615	164.939	161.263	162.228
Cr 267.716	314.200	308.168	310.838
Cu 324.754	292.146	284.185	287.801
Fe 271.441	446440	435660	441410
K 766.491	12220.3	11970.6	12099.6
Mg 279.078	11904.0	11636.6	11752.0
Mn 257.610	9279.49	9067.37	9183.05
Mo 202.032	79.6793	77.9573	79.0009
Na 330.237	4114.73	4230.06	4114.40
Ni 231.604	353.267	343.251	345.090
Pb 220.353	345.620	338.753	344.186
Sb 206.834	13.8394	11.8605	15.3185
Se 196.026	62.7353	61.0318	60.0249
Sn 189.925	154.160	160.148	157.040
Sr 216.596	138.912	136.447	137.296
Ti 334.941	733.347	719.122	727.992
Tl 190.794	46.5534u	46.6612u	43.9922u
V 292.401	391.537	383.500	387.980
Zn 206.200	995.831	974.641	981.769

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	7.7659	ppb	0.6818	8.8	585.365
Al 308.215	119183	ppb	1044.03	0.9	427420
As 188.980	228.129	ppb	6.9536	3.0	167.809
B 249.678	29.8554	ppb	0.7159	2.4	-115.409
Ba 389.178	889.448	ppb	9.6526	1.1	25083.7
Be 313.042	61.1535	ppb	0.6557	1.1	128389
Ca 370.602	38809	ppb	319.8	0.8	109279
Cd 226.502	37.0395	ppb	0.8660	2.3	3070.71
Co 228.615	162.810	ppb	1.9058	1.2	2153.89
Cr 267.716	311.069	ppb	3.0228	1.0	16413.7
Cu 324.754	288.044	ppb	3.9863	1.4	14972.8
Fe 271.441	441170	ppb	5394.09	1.2	906406
K 766.491	12096.8	ppb	124.887	1.0	650635
Mg 279.078	11764.2	ppb	134.120	1.1	30593.6
Mn 257.610	9176.64	ppb	106.204	1.2	2521246
Mo 202.032	78.8792	ppb	0.8674	1.1	656.157
Na 330.237	4153.06	ppb	66.6847	1.6	78.0958
Ni 231.604	347.203	ppb	5.3315	1.5	1180.87
Pb 220.353	342.853	ppb	3.6225	1.1	778.550
Sb 206.834	13.6728	ppb	1.7350	12.7	31.3993
Se 196.026	61.2640	ppb	1.3700	2.2	43.2793
Sn 189.925	157.116	ppb	2.9948	1.9	157.757
Sr 216.596	137.552	ppb	1.2521	0.9	2066.83
Ti 334.941	726.820	ppb	7.1845	1.0	210328
Tl 190.794	45.7356	ppb	1.5108	3.3	-14.0958
V 292.401	387.672	ppb	4.0271	1.0	12217.1
Zn 206.200	984.080	ppb	10.7823	1.1	1966.41

E04052013.wvq. All Data Report 4/8/2013, 10:52:27 AM

680-88915-a-12-f msd (Samp) 4/6/2013, 9:38:43 AM Rack 4, Tube 29

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	47.2490	46.6970	46.8156
Al 308.215	117249	117616	116718
As 188.980	201.930	200.507	199.622
B 249.678	35.8666u	35.0392u	37.0043u
Ba 389.178	875.449	876.788	877.444
Be 313.042	58.3660	58.4719	58.3423
Ca 370.602	39037	39026	39020
Cd 226.502	37.8434	37.7200	38.0594
Co 228.615	147.697	148.778	148.964
Cr 267.716	294.411	295.009	293.418
Cu 324.754	253.802	252.180	252.622
Fe 271.441	378355	379115	379426
K 766.491	12201.3	12221.6	12225.3
Mg 279.078	11672.1	11684.3	11665.1
Mn 257.610	7424.69	7423.50	7424.13
Mo 202.032	77.4501	77.0616	78.0380
Na 330.237	4210.60	4325.38	4221.58
Ni 231.604	315.981	317.612	316.138
Pb 220.353	278.955	284.412	283.072
Sb 206.834	15.0091	13.3507	14.2459
Se 196.026	75.0525	60.1175	67.7077
Sn 189.925	160.707	156.502	155.672
Sr 216.596	138.917	139.017	139.044
Ti 334.941	668.467	669.477	667.033
Tl 190.794	41.7437u	45.1838u	41.0432u
V 292.401	341.666	341.591	341.748
Zn 206.200	844.755	851.044	849.265

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	46.9205	ppb	0.2906	0.6	3804.10
Al 308.215	117194	ppb	451.453	0.4	420290
As 188.980	200.686	ppb	1.1644	0.6	148.064
B 249.678	35.9700	ppb	0.9866	2.7	34.8131
Ba 389.178	876.560	ppb	1.0169	0.1	24625.7
Be 313.042	58.3934	ppb	0.0690	0.1	122582
Ca 370.602	39028	ppb	8.740	0.0	116419
Cd 226.502	37.8743	ppb	0.1718	0.5	2919.91
Co 228.615	148.480	ppb	0.6839	0.5	1965.58
Cr 267.716	294.279	ppb	0.8040	0.3	15512.7
Cu 324.754	252.868	ppb	0.8389	0.3	13127.5
Fe 271.441	378965	ppb	551.108	0.1	778605
K 766.491	12216.1	ppb	12.9268	0.1	657047
Mg 279.078	11673.8	ppb	9.6882	0.1	30379.8
Mn 257.610	7424.11	ppb	0.5980	0.0	2039905
Mo 202.032	77.5166	ppb	0.4916	0.6	648.322
Na 330.237	4252.52	ppb	63.3350	1.5	108.037
Ni 231.604	316.577	ppb	0.9000	0.3	1076.14
Pb 220.353	282.146	ppb	2.8438	1.0	640.582
Sb 206.834	14.2019	ppb	0.8301	5.8	30.2368
Se 196.026	67.6259	ppb	7.4679	11.0	46.0792
Sn 189.925	157.627	ppb	2.6996	1.7	158.278
Sr 216.596	138.992	ppb	0.0669	0.0	2054.98
Ti 334.941	668.326	ppb	1.2281	0.2	193392
Tl 190.794	42.6569	ppb	2.2162	5.2	-7.4103
V 292.401	341.669	ppb	0.0783	0.0	10764.2
Zn 206.200	848.355	ppb	3.2416	0.4	1695.34

E04052013.vvq. All Data Report 4/8/2013, 10:52:27 AM

680-88915-a-13-b (Samp) 4/6/2013, 9:45:11 AM Rack 4, Tube 30

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.8799u	-0.7641u	-1.1497u
Al 308.215	110802	111836	112459
As 188.980	67.9969	73.3957	72.4743
B 249.678	-1.1680u	-3.9758u	-2.4676u
Ba 389.178	793.551	790.911	794.046
Be 313.042	11.8067	11.8214	11.8863
Ca 370.602	1057055x	1059633x	1068114x
Cd 226.502	0.2411	0.0830	0.2233
Co 228.615	60.5194	58.8830	59.9764
Cr 267.716	158.763	159.618	160.845
Cu 324.754	220.269	220.051	222.609
Fe 271.441	229789	229713	230331
K 766.491	12610.7	12552.2	12587.6
Mg 279.078	12532.1	12492.3	12579.9
Mn 257.610	2546.71	2550.86	2562.85
Mo 202.032	3.1047	3.9204	4.1869
Na 330.237	833.380u	842.417u	871.672u
Ni 231.604	132.160	125.837	129.473
Pb 220.353	387.438	385.191	396.206
Sb 206.834	-3.2091	-5.2097	0.0730
Se 196.026	-5.5161u	-2.9348	-20.2758u
Sn 189.925	10.0990	7.6452	12.3063
Sr 216.596	570.714	576.219	577.894
Ti 334.941	644.685	647.597	651.468
Tl 190.794	2.4749u	0.8221u	-1.4186u
V 292.401	232.525	232.046	232.942
Zn 206.200	500.370	497.866	500.570

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.9312b	ppb	0.1978	21.2	-189.929
Al 308.215	111699b	ppb	837.430	0.7	400578
As 188.980	71.2890b	ppb	2.8880	4.1	63.5302
B 249.678	-2.5371b	ppb	1.4052	55.4	-251.324
Ba 389.178	792.836b	ppb	1.6857	0.2	22085.6
Be 313.042	11.8381b	ppb	0.0424	0.4	24988.6
Ca 370.602	1061601xb	ppb	5786	0.5	4183005
Cd 226.502	0.1824b	ppb	0.0866	47.5	717.042
Co 228.615	59.7929b	ppb	0.8335	1.4	803.664
Cr 267.716	159.742b	ppb	1.0467	0.7	8425.86
Cu 324.754	220.976b	ppb	1.4178	0.6	11424.3
Fe 271.441	229944b	ppb	336.751	0.1	472428
K 766.491	12583.5b	ppb	29.4435	0.2	676804
Mg 279.078	12534.7b	ppb	43.8991	0.4	32692.7
Mn 257.610	2553.48b	ppb	8.3822	0.3	702263
Mo 202.032	3.7374b	ppb	0.5639	15.1	27.3762
Na 330.237	849.156b	ppb	20.0156	2.4	-42.2240
Ni 231.604	129.157b	ppb	3.1732	2.5	441.407
Pb 220.353	389.612b	ppb	5.8203	1.5	882.910
Sb 206.834	-2.7819b	ppb	2.6671	95.9	7.4370
Se 196.026	-9.5755b	ppb	9.3561	97.7	-2.1546
Sn 189.925	10.0168b	ppb	2.3316	23.3	8.9818
Sr 216.596	574.942b	ppb	3.7566	0.7	7939.62
Ti 334.941	647.917b	ppb	3.4027	0.5	187472
Tl 190.794	0.6261b	ppb	1.9541	312.1	-34.7058
V 292.401	232.504b	ppb	0.4482	0.2	7342.00
Zn 206.200	499.602b	ppb	1.5069	0.3	999.185



E04052013.wvq. All Data Report 4/8/2013, 10:52:27 AM

680-88915-a-14-b (Samp) 4/6/2013, 9:51:40 AM Rack 4, Tube 31

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	2.0174	1.6602	1.2508
Al 308.215	79467.3	79350.9	79102.3
As 188.980	255.249	262.573	252.716
B 249.678	1.2585u	2.7718u	3.2622u
Ba 389.178	2157.21	2152.26	2151.13
Be 313.042	4.2706	4.2518	4.2612
Ca 370.602	209606	209564	210073
Cd 226.502	29.1390	28.6312	28.7026
Co 228.615	97.6883	98.7003	97.7996
Cr 267.716	484.289	482.298	481.809
Cu 324.754	1078.70	1064.44	1071.63
Fe 271.441	391655	388547	388663
K 766.491	12517.7	12458.7	12470.2
Mg 279.078	75216.7	74895.7	74769.5
Mn 257.610	4025.18	4007.99	4003.47
Mo 202.032	23.9036	23.0770	23.7546
Na 330.237	538.872u	210.485u	252.770u
Ni 231.604	148.128	146.060	147.243
Pb 220.353	4842.23	4840.04	4841.74
Sb 206.834	41.2476	46.1496	45.9776
Se 196.026	-10.7941u	-11.1275u	4.8031
Sn 189.925	93.9563	94.2011	93.9230
Sr 216.596	246.252	247.172	246.214
Ti 334.941	1000.25	998.556	997.485
Tl 190.794	9.2411u	11.6918u	10.7319u
V 292.401	222.604	221.737	221.290
Zn 206.200	6659.72	6637.15	6623.33

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	1.6428	ppb	0.3836	23.3	46.1947
Al 308.215	79306.9	ppb	186.433	0.2	284415
As 188.980	256.846	ppb	5.1187	2.0	191.673
B 249.678	2.4308	ppb	1.0445	43.0	-385.684
Ba 389.178	2153.53	ppb	3.2360	0.2	59776.8
Be 313.042	4.2612	ppb	0.0094	0.2	8696.55
Ca 370.602	209748	ppb	282.2	0.1	791701
Cd 226.502	28.8243	ppb	0.2749	1.0	2533.44
Co 228.615	98.0628	ppb	0.5549	0.6	1312.88
Cr 267.716	482.799	ppb	1.3135	0.3	25346.4
Cu 324.754	1071.59	ppb	7.1262	0.7	55643.6
Fe 271.441	389622	ppb	1761.62	0.5	800488
K 766.491	12482.2	ppb	31.2594	0.3	671356
Mg 279.078	74960.6	ppb	230.558	0.3	195613
Mn 257.610	4012.22	ppb	11.4516	0.3	1103848
Mo 202.032	23.5784	ppb	0.4406	1.9	187.349
Na 330.237	334.042	ppb	178.643	53.5	-187.782
Ni 231.604	147.144	ppb	1.0377	0.7	506.207
Pb 220.353	4841.34	ppb	1.1486	0.0	10969.9
Sb 206.834	44.4583	ppb	2.7819	6.3	65.5442
Se 196.026	-5.7062	ppb	9.1028	159.5	1.7043
Sn 189.925	94.0268	ppb	0.1519	0.2	93.8106
Sr 216.596	246.546	ppb	0.5426	0.2	3525.09
Ti 334.941	998.762	ppb	1.3924	0.1	289309
Tl 190.794	10.5549	ppb	1.2349	11.7	-43.5107
V 292.401	221.877	ppb	0.6678	0.3	6986.28
Zn 206.200	6640.07	ppb	18.3700	0.3	13264.5

E04052013.vvq. All Data Report 4/8/2013, 10:52:27 AM

680-88915-a-15-b (Samp) 4/6/2013, 9:58:08 AM Rack 4, Tube 32

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.5564	0.3236	0.1240
Al 308.215	83840.5	83880.2	84301.4
As 188.980	184.775	191.670	191.930
B 249.678	163.771	165.714	165.845
Ba 389.178	2119.52	2116.56	2118.40
Be 313.042	5.8342	5.8369	5.8488
Ca 370.602	920356x	919500x	923972x
Cd 226.502	30.5179	30.3408	30.5627
Co 228.615	144.359	145.745	146.296
Cr 267.716	329.399	329.796	331.102
Cu 324.754	645.322	652.089	653.003
Fe 271.441	271984	272685	272232
K 766.491	13132.8	13088.1	13046.5
Mg 279.078	149582	149757	150040
Mn 257.610	13326.5	13366.5	13364.1
Mo 202.032	18.2876	18.9515	18.0169
Na 330.237	623.702u	604.741u	486.184u
Ni 231.604	118.829	119.556	119.773
Pb 220.353	1272.33	1278.75	1285.73
Sb 206.834	14.5615	20.5414	26.1655
Se 196.026	3.6629	-9.7762	-2.8900
Sn 189.925	57.7062	58.6896	57.8555
Sr 216.596	818.100	818.368	821.089
Ti 334.941	1030.38	1030.40	1032.68
Tl 190.794	33.3914u	28.1196u	24.1417u
V 292.401	212.384	213.521	212.738
Zn 206.200	7143.77	7157.51	7180.77

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.3347b	ppb	0.2164	64.7	-45.2460
Al 308.215	84007.4b	ppb	255.423	0.3	301271
As 188.980	189.458b	ppb	4.0576	2.1	149.982
B 249.678	165.110b	ppb	1.1617	0.7	1734.20
Ba 389.178	2118.16b	ppb	1.4982	0.1	58838.3
Be 313.042	5.8400b	ppb	0.0078	0.1	12293.8
Ca 370.602	921276xb	ppb	2374	0.3	3623196
Cd 226.502	30.4738b	ppb	0.1173	0.4	2253.23
Co 228.615	145.466b	ppb	0.9983	0.7	1943.50
Cr 267.716	330.099b	ppb	0.8907	0.3	17385.8
Cu 324.754	650.138b	ppb	4.1958	0.6	33722.7
Fe 271.441	272300b	ppb	355.200	0.1	559463
K 766.491	13089.1b	ppb	43.1761	0.3	703989
Mg 279.078	149793b	ppb	231.437	0.2	390673
Mn 257.610	13352.4b	ppb	22.4154	0.2	3668422
Mo 202.032	18.4187b	ppb	0.4809	2.6	150.290
Na 330.237	571.542b	ppb	74.5279	13.0	-136.500
Ni 231.604	119.386b	ppb	0.4943	0.4	409.648
Pb 220.353	1278.93b	ppb	6.7016	0.5	2901.32
Sb 206.834	20.4228b	ppb	5.8029	28.4	35.1294
Se 196.026	-3.0011b	ppb	6.7202	223.9	5.2841
Sn 189.925	58.0838b	ppb	0.5299	0.9	57.6964
Sr 216.596	819.186b	ppb	1.6537	0.2	11207.2
Ti 334.941	1031.15b	ppb	1.3213	0.1	299012
Tl 190.794	28.5509b	ppb	4.6399	16.3	-24.3890
V 292.401	212.881b	ppb	0.5819	0.3	6715.61
Zn 206.200	7160.69b	ppb	18.7029	0.3	14205.1

E04052013.vvq. All Data Report 4/8/2013, 10:52:27 AM

680-88915-a-16-b (Samp) 4/6/2013, 10:04:36 AM Rack 4, Tube 33

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-1.8837u	-1.3897u	-1.2636u
Al 308.215	87701.3	87255.1	87154.2
As 188.980	44.5173	41.6160	50.4955
B 249.678	1.4945u	2.3454u	2.3138u
Ba 389.178	550.766	549.122	549.823
Be 313.042	3.3334	3.3111	3.3062
Ca 370.602	8866	8825	8836
Cd 226.502	-0.4900	-0.5521	-0.3772
Co 228.615	84.5710	83.0537	83.9965
Cr 267.716	115.152	114.659	114.242
Cu 324.754	51.6985	51.4381	51.9379
Fe 271.441	115605	114871	114892
K 766.491	4964.31	4944.09	4942.45
Mg 279.078	4137.05	4128.31	4128.70
Mn 257.610	9684.70	9621.04	9654.30
Mo 202.032	5.0810	5.0271	4.6315
Na 330.237	155.969u	153.723u	155.257u
Ni 231.604	48.7717	49.1941	46.9077
Pb 220.353	170.977	170.042	171.313
Sb 206.834	-3.0977	0.5725	3.0399
Se 196.026	0.0091	-0.3222	0.5004
Sn 189.925	15.6862	17.8079	16.5883
Sr 216.596	56.0812	55.8800	55.9643
Ti 334.941	954.846	951.257	950.756
Tl 190.794	27.6246	24.2922u	23.4467u
V 292.401	187.806	186.660	187.151
Zn 206.200	159.311	158.401	156.941

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.5123	ppb	0.3277	21.7	-173.058
Al 308.215	87370.2	ppb	291.144	0.3	313330
As 188.980	45.5429	ppb	4.5277	9.9	35.0402
B 249.678	2.0512	ppb	0.4824	23.5	-55.4890
Ba 389.178	549.904	ppb	0.8254	0.2	15218.8
Be 313.042	3.3169	ppb	0.0145	0.4	6645.44
Ca 370.602	8842	ppb	21.20	0.2	23862
Cd 226.502	-0.4731	ppb	0.0887	18.7	336.764
Co 228.615	83.8737	ppb	0.7661	0.9	1134.46
Cr 267.716	114.684	ppb	0.4557	0.4	6077.67
Cu 324.754	51.6915	ppb	0.2500	0.5	2598.92
Fe 271.441	115123	ppb	418.034	0.4	236534
K 766.491	4950.28	ppb	12.1731	0.2	266381
Mg 279.078	4131.35	ppb	4.9398	0.1	10603.5
Mn 257.610	9653.35	ppb	31.8369	0.3	2650980
Mo 202.032	4.9132	ppb	0.2454	5.0	44.3429
Na 330.237	154.983	ppb	1.1477	0.7	-43.1914
Ni 231.604	48.2912	ppb	1.2166	2.5	166.178
Pb 220.353	170.777	ppb	0.6583	0.4	389.577
Sb 206.834	0.1716	ppb	3.0884	1800.1	7.2049
Se 196.026	0.0625	ppb	0.4139	662.6	4.8761
Sn 189.925	16.6941	ppb	1.0648	6.4	15.2275
Sr 216.596	55.9752	ppb	0.1010	0.2	815.955
Ti 334.941	952.286	ppb	2.2309	0.2	275501
Tl 190.794	25.1212	ppb	2.2089	8.8	-3.2892
V 292.401	187.206	ppb	0.5750	0.3	5919.41
Zn 206.200	158.218	ppb	1.1956	0.8	317.395

E04052013.wvq. All Data Report 4/8/2013, 10:52:27 AM

680-88915-a-17-b (Samp) 4/6/2013, 10:11:04 AM Rack 4, Tube 34

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.1882	-0.1645u	-0.4904u
Al 308.215	101321	101074	100497
As 188.980	30.6409	32.8943	32.1684
B 249.678	-0.5437u	-0.3291u	-0.1669u
Ba 389.178	351.461	351.622	351.229
Be 313.042	1.3763	1.3731	1.3751
Ca 370.602	10652	10640	10635
Cd 226.502	-0.7312	-0.9693	-0.8147
Co 228.615	15.7121	15.3087	15.4062
Cr 267.716	130.821	130.130	130.176
Cu 324.754	33.2694	33.4056	32.5555
Fe 271.441	125458	125183	125667
K 766.491	8278.25	8281.13	8290.65
Mg 279.078	4702.85	4691.66	4690.32
Mn 257.610	452.544	451.469	452.674
Mo 202.032	3.9514	4.0686	3.9052
Na 330.237	260.769u	223.811u	205.802u
Ni 231.604	35.4788	35.6109	34.4703
Pb 220.353	52.3390	55.9695	56.7134
Sb 206.834	4.8501	-0.9468	0.4810
Se 196.026	8.4169	-3.2746u	5.9001
Sn 189.925	17.6538	12.5270	12.7846
Sr 216.596	56.5902	55.4927	55.7934
Ti 334.941	724.365	722.723	720.824
Tl 190.794	1.7311u	-0.3259u	2.2116u
V 292.401	187.045	187.494	187.628
Zn 206.200	83.0392	82.2591	83.1651

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1555	ppb	0.3394	218.2	-108.159
Al 308.215	100964	ppb	423.047	0.4	362081
As 188.980	31.9012	ppb	1.1502	3.6	24.7299
B 249.678	-0.3466	ppb	0.1890	54.5	-97.0921
Ba 389.178	351.437	ppb	0.1978	0.1	9807.41
Be 313.042	1.3749	ppb	0.0016	0.1	2561.96
Ca 370.602	10643	ppb	8.566	0.1	29574
Cd 226.502	-0.8384	ppb	0.1208	14.4	350.963
Co 228.615	15.4757	ppb	0.2105	1.4	225.371
Cr 267.716	130.376	ppb	0.3862	0.3	6855.55
Cu 324.754	33.0768	ppb	0.4566	1.4	1635.47
Fe 271.441	125436	ppb	242.501	0.2	257709
K 766.491	8283.34	ppb	6.4897	0.1	445592
Mg 279.078	4694.94	ppb	6.8788	0.1	12257.0
Mn 257.610	452.229	ppb	0.6616	0.1	124956
Mo 202.032	3.9750	ppb	0.0842	2.1	35.7236
Na 330.237	230.127	ppb	28.0225	12.2	-39.5422
Ni 231.604	35.1867	ppb	0.6239	1.8	122.356
Pb 220.353	55.0073	ppb	2.3406	4.3	124.400
Sb 206.834	1.4614	ppb	3.0203	206.7	9.0162
Se 196.026	3.6808	ppb	6.1536	167.2	4.3235
Sn 189.925	14.3218	ppb	2.8885	20.2	12.8203
Sr 216.596	55.9588	ppb	0.5671	1.0	821.538
Ti 334.941	722.637	ppb	1.7721	0.2	209047
Tl 190.794	1.2056	ppb	1.3479	111.8	-17.6781
V 292.401	187.389	ppb	0.3054	0.2	5920.14
Zn 206.200	82.8212	ppb	0.4908	0.6	166.717

E04052013.vvq. All Data Report 4/8/2013, 10:52:27 AM

**X (Samp)** 4/6/2013, 10:17:33 AM Rack 4, Tube 35**Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.1002	1.3330	0.7077
Al 308.215	113.991	139.373	145.567
As 188.980	-5.4682u	-7.3502u	-2.3706u
B 249.678	0.2059	0.8925	0.4190
Ba 389.178	2.0059	1.2443	2.1870
Be 313.042	0.0193	0.0209	0.0248
Ca 370.602	134.1	194.8	217.8
Cd 226.502	0.0150	-0.1424u	-0.0258u
Co 228.615	-0.3232u	-0.2018u	-0.4844u
Cr 267.716	0.0224	0.1148	0.0268
Cu 324.754	0.5037	1.1639	1.3350
Fe 271.441	194.071	249.654	274.281
K 766.491	14.3549	18.8345	19.6214
Mg 279.078	16.3035	31.0487	30.3774
Mn 257.610	2.7413	4.2320	4.8396
Mo 202.032	-0.2038u	0.0475	0.0338
Na 330.237	91.9175	-57.3306u	113.825
Ni 231.604	-0.5676u	-1.2974u	0.0506
Pb 220.353	0.5990	2.2566	4.8007
Sb 206.834	-0.6134u	-4.5755u	-3.2938u
Se 196.026	-8.3057u	-0.6422u	-3.6704u
Sn 189.925	-1.8196u	-0.5231u	0.5398
Sr 216.596	0.3422	-0.0707u	0.3458
Ti 334.941	1.3342	1.4690	1.5149
Tl 190.794	2.2800	3.3360	5.1732
V 292.401	0.1260	0.3094	0.6540
Zn 206.200	1.9380	2.0528	1.0160

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.7136	ppb	0.6164	86.4	-37.2096
Al 308.215	132.977	ppb	16.7315	12.6	481.920
As 188.980	-5.0630	ppb	2.5144	49.7	-1.4674
B 249.678	0.5058	ppb	0.3514	69.5	65.7352
Ba 389.178	1.8124	ppb	0.5003	27.6	15.2654
Be 313.042	0.0217	ppb	0.0028	13.0	-289.432
Ca 370.602	182.2	ppb	43.24	23.7	692.7
Cd 226.502	-0.0510	ppb	0.0817	160.1	6.7916
Co 228.615	-0.3365	ppb	0.1417	42.1	0.0642
Cr 267.716	0.0547	ppb	0.0521	95.3	14.2799
Cu 324.754	1.0009	ppb	0.4389	43.9	-66.9567
Fe 271.441	239.335	ppb	41.0886	17.2	490.786
K 766.491	17.6036	ppb	2.8408	16.1	1160.95
Mg 279.078	25.9098	ppb	8.3261	32.1	88.8779
Mn 257.610	3.9376	ppb	1.0797	27.4	1428.23
Mo 202.032	-0.0408	ppb	0.1413	345.9	9.2765
Na 330.237	49.4707	ppb	93.1390	188.3	1.2964
Ni 231.604	-0.6048	ppb	0.6748	111.6	-1.4872
Pb 220.353	2.5521	ppb	2.1164	82.9	8.3130
Sb 206.834	-2.8276	ppb	2.0218	71.5	-0.0750
Se 196.026	-4.2061	ppb	3.8597	91.8	-1.3651
Sn 189.925	-0.6010	ppb	1.1816	196.6	-2.3275
Sr 216.596	0.2058	ppb	0.2395	116.4	12.1699
Ti 334.941	1.4393	ppb	0.0939	6.5	295.413
Tl 190.794	3.5964	ppb	1.4641	40.7	0.8373
V 292.401	0.3631	ppb	0.2681	73.8	9.8191
Zn 206.200	1.6690	ppb	0.5684	34.1	5.1195

E04052013.vvq. All Data Report 4/8/2013, 10:52:27 AM

**CRI (Samp)** 4/6/2013, 10:24:01 AM **Rack 4, Tube 36**  
**Weight: 1** **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	11.1398	10.6143	10.6518
Al 308.215	218.286	222.206	223.531
As 188.980	18.5690	14.7075	17.7234
B 249.678	95.7948	97.5313	98.0581
Ba 389.178	9.8336	10.6933	11.1884
Be 313.042	4.2742	4.2863	4.3117
Ca 370.602	541.6	543.8	552.3
Cd 226.502	5.1485	5.1523	5.3198
Co 228.615	10.2282	10.4728	10.5415
Cr 267.716	10.4605	10.5459	10.6431
Cu 324.754	21.5465	22.5970	21.6175
Fe 271.441	73.4983	78.2890	82.5522
K 766.491	1089.18	1094.28	1104.05
Mg 279.078	519.174	516.893	521.404
Mn 257.610	10.3807	10.6268	10.7984
Mo 202.032	10.2849	10.5659	9.9353
Na 330.237	1240.14	965.811	1001.77
Ni 231.604	42.3877	42.3058	41.7166
Pb 220.353	9.0069	8.2760	10.4545
Sb 206.834	20.9488	20.7740	18.7778
Se 196.026	24.8543	25.7538	11.5862
Sn 189.925	50.3466	49.1850	52.4365
Sr 216.596	10.0899	9.9126	10.3623
Ti 334.941	10.2829	10.2796	10.3232
Tl 190.794	26.0832	20.8833	23.1123
V 292.401	10.3385	10.0784	10.5080
Zn 206.200	22.2301	21.0736	20.8292

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	10.8019	ppb	0.2932	2.7	794.045
Al 308.215	221.341	ppb	2.7276	1.2	799.563
As 188.980	17.0000	ppb	2.0298	11.9	15.0338
B 249.678	97.1281	ppb	1.1843	1.2	1239.88
Ba 389.178	10.5717	ppb	0.6855	6.5	256.255
Be 313.042	4.2907	ppb	0.0192	0.4	8695.60
Ca 370.602	545.9	ppb	5.602	1.0	2153
Cd 226.502	5.2069	ppb	0.0978	1.9	250.322
Co 228.615	10.4142	ppb	0.1647	1.6	141.723
Cr 267.716	10.5498	ppb	0.0914	0.9	562.279
Cu 324.754	21.9203	ppb	0.5871	2.7	1019.46
Fe 271.441	78.1132	ppb	4.5295	5.8	161.728
K 766.491	1095.84	ppb	7.5536	0.7	59135.4
Mg 279.078	519.157	ppb	2.2556	0.4	1375.82
Mn 257.610	10.6020	ppb	0.2099	2.0	3262.02
Mo 202.032	10.2621	ppb	0.3159	3.1	97.2462
Na 330.237	1069.24	ppb	149.094	13.9	62.9908
Ni 231.604	42.1367	ppb	0.3662	0.9	142.350
Pb 220.353	9.2458	ppb	1.1087	12.0	23.4480
Sb 206.834	20.1669	ppb	1.2061	6.0	24.7755
Se 196.026	20.7314	ppb	7.9327	38.3	13.4027
Sn 189.925	50.6560	ppb	1.6477	3.3	49.6969
Sr 216.596	10.1216	ppb	0.2265	2.2	143.266
Ti 334.941	10.2952	ppb	0.0243	0.2	2860.42
Tl 190.794	23.3596	ppb	2.6087	11.2	26.2781
V 292.401	10.3083	ppb	0.2164	2.1	321.039
Zn 206.200	21.3776	ppb	0.7483	3.5	44.4492

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Cont Calib Verif (CCV) 4/6/2013, 10:30:29 AM Rack 4, Tube 37

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	504.288	501.071	504.400
Al 308.215	4919.41	4898.93	4942.79
As 188.980	491.154	485.875	486.412
B 249.678	502.024	505.821	510.734
Ba 389.178	4791.44	4787.87	4800.79
Be 313.042	478.104	476.688	477.804
Ca 370.602	4871	4870	4882
Cd 226.502	471.852	472.879	473.840
Co 228.615	482.663	484.371	485.376
Cr 267.716	4818.55	4814.88	4841.97
Cu 324.754	4710.72	4780.58	4894.39
Fe 271.441	4903.57	4884.39	4909.73
K 766.491	10006.1	9961.27	9968.38
Mg 279.078	4839.86	4848.08	4857.16
Mn 257.610	4763.65	4765.11	4782.82
Mo 202.032	485.571	488.349	490.065
Na 330.237	7013.94	7155.14	7084.98
Ni 231.604	2356.53	2388.56	2378.46
Pb 220.353	494.603	493.720	499.624
Sb 206.834	968.653	964.283	979.434
Se 196.026	4814.61	4825.82	4848.81
Sn 189.925	4885.62	4910.71	4878.71
Sr 216.596	2359.41	2356.63	2370.68
Ti 334.941	491.865	490.558	491.951
Tl 190.794	4924.65	4948.41	4964.45
V 292.401	4835.83	4838.33	4851.78
Zn 206.200	2366.08	2390.43	2389.76

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	503.253	ppb	1.8903	0.4	41329.7	100.65065
Al 308.215	4920.38	ppb	21.9471	0.4	17637.9	98.40753
As 188.980	487.813	ppb	2.9056	0.6	366.937	97.56270
B 249.678	506.193	ppb	4.3667	0.9	6204.02	20.24773Q
Ba 389.178	4793.37	ppb	6.6728	0.1	131163	95.86737
Be 313.042	477.532	ppb	0.7462	0.2	1004684	95.50639
Ca 370.602	4874	ppb	6.495	0.1	19142	97.48496
Cd 226.502	472.857	ppb	0.9940	0.2	21969.2	94.57138
Co 228.615	484.137	ppb	1.3714	0.3	6398.96	96.82735
Cr 267.716	4825.13	ppb	14.6958	0.3	251982	96.50269
Cu 324.754	4795.23	ppb	92.7093	1.9	248845	95.90463
Fe 271.441	4899.23	ppb	13.2154	0.3	10208.7	97.98453
K 766.491	9978.57	ppb	24.0729	0.2	536741	99.78571
Mg 279.078	4848.37	ppb	8.6528	0.2	12576.6	96.96739
Mn 257.610	4770.53	ppb	10.6705	0.2	1310104	95.41051
Mo 202.032	487.995	ppb	2.2679	0.5	4165.81	97.59902
Na 330.237	7084.68	ppb	70.5984	1.0	401.152	94.46246
Ni 231.604	2374.52	ppb	16.3731	0.7	7991.86	94.98072
Pb 220.353	495.983	ppb	3.1844	0.6	1126.07	99.19651
Sb 206.834	970.790	ppb	7.7980	0.8	1101.44	97.07898
Se 196.026	4829.75	ppb	17.4305	0.4	2862.56	96.59494
Sn 189.925	4891.68	ppb	16.8387	0.3	4963.14	97.83356
Sr 216.596	2362.24	ppb	7.4375	0.3	31504.7	94.48965
Ti 334.941	491.458	ppb	0.7807	0.2	142126	98.29155
Tl 190.794	4945.84	ppb	20.0215	0.4	6352.82	98.91676
V 292.401	4841.98	ppb	8.5788	0.2	152505	96.83958
Zn 206.200	2382.09	ppb	13.8718	0.6	4741.35	95.28367

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Cont Calib Blank (CCB) 4/6/2013, 10:36:58 AM Rack 4, Tube 38

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.6090	0.4388	-0.1000u
Al 308.215	4.4044	4.5464	8.4071
As 188.980	-4.7204u	-2.8010u	-9.9615u
B 249.678	8.9124	8.4064	7.9289
Ba 389.178	0.1584	0.5218	0.9302
Be 313.042	0.0346	0.0615	0.0662
Ca 370.602	4.687	6.958	7.952
Cd 226.502	0.1036	-0.0009u	0.0938
Co 228.615	-0.0058u	0.4667	-0.3148u
Cr 267.716	0.1662	0.2249	0.3562
Cu 324.754	1.0163	1.2248	1.0602
Fe 271.441	9.7510	7.0404	13.7590
K 766.491	1.4150	2.7269	2.6557
Mg 279.078	1.5399	3.6228	5.1036
Mn 257.610	-0.6007u	-0.4276u	-0.3989u
Mo 202.032	0.8541	-0.1035u	0.1359
Na 330.237	140.752	-84.4515u	90.2318
Ni 231.604	0.6497	0.6794	0.8494
Pb 220.353	0.5862	-2.2283u	-0.9191u
Sb 206.834	3.3342	1.0528	-3.8863u
Se 196.026	-5.7356u	-6.5429u	-3.6950u
Sn 189.925	2.2943	1.1046	0.4221
Sr 216.596	0.4209	0.1438	0.1015
Ti 334.941	0.2266	0.2522	0.2118
Tl 190.794	1.7332	3.8267	4.6514
V 292.401	0.6752	0.8800	0.8453
Zn 206.200	-0.6180u	0.6517	0.0913

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.3160	ppb	0.3702	117.2	-70.0131	0.31595
Al 308.215	5.7859	ppb	2.2711	39.3	25.8105	5.78595
As 188.980	-5.8276	ppb	3.7064	63.6	-2.0381	-5.82761
B 249.678	8.4159	ppb	0.4918	5.8	162.123	8.41590
Ba 389.178	0.5368	ppb	0.3861	71.9	-20.0920	0.53682
Be 313.042	0.0541	ppb	0.0171	31.6	-221.287	0.05410
Ca 370.602	6.532	ppb	1.674	25.6	19.76	6.53220
Cd 226.502	0.0655	ppb	0.0577	88.1	11.4974	0.06550
Co 228.615	0.0487	ppb	0.3936	807.7	5.1050	0.04873
Cr 267.716	0.2491	ppb	0.0973	39.0	24.3436	0.24909
Cu 324.754	1.1004	ppb	0.1099	10.0	-61.8544	1.10042
Fe 271.441	10.1835	ppb	3.3801	33.2	20.0875	10.18349
K 766.491	2.2659	ppb	0.7377	32.6	336.272	2.26586
Mg 279.078	3.4221	ppb	1.7903	52.3	30.2780	3.42212
Mn 257.610	-0.4758	ppb	0.1092	22.9	215.610	-0.47576
Mo 202.032	0.2955	ppb	0.4983	168.6	12.1615	0.29551
Na 330.237	48.8443	ppb	118.169	241.9	1.3644	48.84427
Ni 231.604	0.7262	ppb	0.1077	14.8	2.9857	0.72616
Pb 220.353	-0.8537	ppb	1.4084	165.0	0.5983	-0.85375
Sb 206.834	0.1669	ppb	3.6909	2211.7	3.1535	0.16688
Se 196.026	-5.3245	ppb	1.4678	27.6	-2.0303	-5.32452
Sn 189.925	1.2737	ppb	0.9475	74.4	-0.4248	1.27369
Sr 216.596	0.2221	ppb	0.1735	78.1	12.2222	0.22206
Ti 334.941	0.2302	ppb	0.0205	8.9	-54.6432	0.23020
Tl 190.794	3.4038	ppb	1.5043	44.2	0.6254	3.40376
V 292.401	0.8001	ppb	0.1096	13.7	23.5125	0.80015
Zn 206.200	0.0417	ppb	0.6363	1527.1	48.8678	0.04167





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Blank (Blk)		4/9/2013, 3:06:23 PM		Rack S, Tube 1	
Label	Sol'n Conc.	Units	SD(Int)	%RSD(Int)	Int. (c/s)
Ag 328.068	0.0000	ppb	7.008	36.1	-19.4055
Al 308.215	0.0000	ppb	3.739	10.4	36.0186
As 188.980	0.0000	ppb	3.099	436.7	-0.7097
B 249.678	0.0000	ppb	2.146	5.0	42.8648
Ba 389.178	0.0000	ppb	1.016	4.7	-21.4839
Be 313.042	0.0000	ppb	6.469	6.6	97.7028
Ca 370.602	0.0000	ppb	8.108	13.4	-60.56
Cd 226.502	0.0000	ppb	1.866	11.9	15.6187
Co 228.615	0.0000	ppb	3.353	70.0	-4.7912
Cr 267.716	0.0000	ppb	2.462	33.1	7.4282
Cu 324.754	0.0000	ppb	3.236	2.8	114.749
Fe 271.441	0.0000	ppb	2.367	92.9	-2.5468
K 766.491	0.0000	ppb	29.782	1.3	2353.89
Mg 279.078	0.0000	ppb	3.643	13.6	26.8622
Mn 257.610	0.0000	ppb	3.386	6.1	55.1922
Mo 202.032	0.0000	ppb	2.450	324.6	-0.7548
Na 330.237	0.0000	ppb	3.897	186.9	-2.0850
Ni 231.604	0.0000	ppb	1.877	176.4	-1.0642
Pb 220.353	0.0000	ppb	1.278	46.8	2.7278
Sb 206.834	0.0000	ppb	0.881	113.3	0.7778
Se 196.026	0.0000	ppb	3.173	180.8	1.7545
Sn 189.925	0.0000	ppb	0.739	58.9	1.2558
Sr 216.596	0.0000	ppb	1.003	17.8	-5.6404
Ti 334.941	0.0000	ppb	16.569	55.5	-29.8385
Tl 190.794	0.0000	ppb	1.319	373.0	0.3537
V 292.401	0.0000	ppb	3.357	17.2	19.5148
Zn 206.200	0.0000	ppb	0.831	24.4	3.4051

HIGH STD (Std)		4/9/2013, 3:11:48 PM		Rack S, Tube 2	
Label	Sol'n Conc.	Units	SD(Int)	%RSD(Int)	Int. (c/s)
Ag 328.068	1000.00	ppb	234.467	0.8	30112.0
Al 308.215	10000.0	ppb	66.188	0.2	27643.9
As 188.980	1000.00	ppb	5.408	1.6	343.951
B 249.678	1000.00	ppb	13.574	0.2	8588.23
Ba 389.178	10000.0	ppb	304.300	0.2	162594
Be 313.042	1000.00	ppb	373.368	0.0	1516205
Ca 370.602	10000	ppb	56.611	0.1	37771
Cd 226.502	1000.00	ppb	26.489	0.1	21618.9
Co 228.615	1000.00	ppb	37.518	0.5	7892.77
Cr 267.716	10000.0	ppb	136.505	0.1	159956
Cu 324.754	10000.0	ppb	1959.374	0.5	358304
Fe 271.441	10000.0	ppb	19.201	0.3	7366.75
K 766.491	20000.0	ppb	5611.600	0.2	2490010
Mg 279.078	10000.0	ppb	28.982	0.3	11088.1
Mn 257.610	10000.0	ppb	1713.837	0.2	944893
Mo 202.032	1000.00	ppb	12.653	0.4	3365.94
Na 330.237	15000.0	ppb	6.825	0.7	981.016
Ni 231.604	5000.00	ppb	24.433	0.2	14246.9
Pb 220.353	1000.00	ppb	1.618	0.2	831.277
Sb 206.834	2000.00	ppb	7.522	0.6	1267.40
Se 196.026	10000.0	ppb	1.579	0.1	2600.25
Sn 189.925	10000.0	ppb	31.244	0.5	6036.40

F04092013.wvq. All Data Report 4/10/2013, 11:45:37 AM

Label	Sol'n Conc.	Units	SD(Int)	%RSD(Int)	Int. (c/s)
Sr 216.596	5000.00	ppb	36.380	0.1	29448.9
Ti 334.941	1000.00	ppb	244.583	0.1	211416
Tl 190.794	10000.0	ppb	12.228	0.3	4421.58
V 292.401	10000.0	ppb	571.846	0.2	281183
Zn 206.200	5000.00	ppb	19.562	0.1	14865.7

**Ag 328.068 Calibration (ppb) 4/9/2013, 3:11:48 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-19.4055	0.0000	0.0000	-	-
HIGH STD		30112.0	1000.00	1000.00	0.0000	0.0

Curve Type: Linear Equation:  $y = 30.1 x + -19.4$ **Al 308.215 Calibration (ppb) 4/9/2013, 3:11:48 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		36.0186	0.0000	0.0000	-	-
HIGH STD		27643.9	10000.0	10000.0	0.0010	0.0

Curve Type: Linear Equation:  $y = 2.8 x + 36.0$ **As 188.980 Calibration (ppb) 4/9/2013, 3:11:48 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-0.7097	0.0000	0.0000	-	-
HIGH STD		343.951	1000.00	1000.00	0.0000	0.0

Curve Type: Linear Equation:  $y = 0.3 x + -0.7$ **B 249.678 Calibration (ppb) 4/9/2013, 3:11:48 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		42.8648	0.0000	0.0000	-	-
HIGH STD		8588.23	1000.00	1000.000	-0.0002	0.0

Curve Type: Linear Equation:  $y = 8.5 x + 42.9$ **Ba 389.178 Calibration (ppb) 4/9/2013, 3:11:48 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-21.4839	0.0000	0.0000	-	-
HIGH STD		162594	10000.0	10000.00	-0.0010	0.0

Curve Type: Linear Equation:  $y = 16.3 x + -21.5$ **Be 313.042 Calibration (ppb) 4/9/2013, 3:11:48 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		97.7028	0.0000	0.0000	-	-
HIGH STD		1516205	1000.00	1000.00	0.0000	0.0

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Curve Type: Linear Equation:  $y = 1516.1 x + 97.7$ **Ca 370.602 Calibration (ppb) 4/9/2013, 3:11:48 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-60.56	0.0000	0.0000	-	-
HIGH STD		37771	10000	10000	0.0000	0.0

Curve Type: Linear Equation:  $y = 3.8 x + -60.6$ **Cd 226.502 Calibration (ppb) 4/9/2013, 3:11:48 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		15.6187	0.0000	0.0000	-	-
HIGH STD		21618.9	1000.00	1000.00	0.0000	0.0

Curve Type: Linear Equation:  $y = 21.6 x + 15.6$ **Co 228.615 Calibration (ppb) 4/9/2013, 3:11:48 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-4.7912	0.0000	0.0000	-	-
HIGH STD		7892.77	1000.00	1000.00	0.0000	0.0

Curve Type: Linear Equation:  $y = 7.9 x + -4.8$ **Cr 267.716 Calibration (ppb) 4/9/2013, 3:11:48 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		7.4282	0.0000	0.0000	-	-
HIGH STD		159956	10000.0	10000.0	0.0000	0.0

Curve Type: Linear Equation:  $y = 16.0 x + 7.4$ **Cu 324.754 Calibration (ppb) 4/9/2013, 3:11:48 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		114.749	0.0000	0.0000	-	-
HIGH STD		358304	10000.0	10000.0	0.0000	0.0

Curve Type: Linear Equation:  $y = 35.8 x + 114.7$ **Fe 271.441 Calibration (ppb) 4/9/2013, 3:11:48 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-2.5468	0.0000	0.0000	-	-
HIGH STD		7366.75	10000.0	10000.00	-0.0010	0.0

Curve Type: Linear Equation:  $y = 0.7 x + -2.5$

F04092013.wvq. All Data Report 4/10/2013, 11:45:37 AM

**K 766.491 Calibration (ppb) 4/9/2013, 3:11:48 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		2353.89	0.0000	0.0000	-	-
HIGH STD		2490010	20000.0	20000.0	0.0020	0.0

Curve Type: Linear Equation:  $y = 124.4 x + 2353.9$ **Mg 279.078 Calibration (ppb) 4/9/2013, 3:11:48 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		26.8622	0.0000	0.0000	-	-
HIGH STD		11088.1	10000.0	10000.0	0.0010	0.0

Curve Type: Linear Equation:  $y = 1.1 x + 26.9$ **Mn 257.610 Calibration (ppb) 4/9/2013, 3:11:48 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		55.1922	0.0000	0.0000	-	-
HIGH STD		944893	10000.0	10000.0	0.0000	0.0

Curve Type: Linear Equation:  $y = 94.5 x + 55.2$ **Mo 202.032 Calibration (ppb) 4/9/2013, 3:11:48 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-0.7548	0.0000	0.0000	-	-
HIGH STD		3365.94	1000.00	1000.00	0.0000	0.0

Curve Type: Linear Equation:  $y = 3.4 x + -0.8$ **Na 330.237 Calibration (ppb) 4/9/2013, 3:11:48 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-2.0850	0.0000	0.0000	-	-
HIGH STD		981.016	15000.0	15000.0	0.0010	0.0

Curve Type: Linear Equation:  $y = 0.1 x + -2.1$ **Ni 231.604 Calibration (ppb) 4/9/2013, 3:11:48 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-1.0642	0.0000	0.0000	-	-
HIGH STD		14246.9	5000.00	5000.00	0.0000	0.0

Curve Type: Linear Equation:  $y = 2.8 x + -1.1$ **Pb 220.353 Calibration (ppb) 4/9/2013, 3:11:48 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		2.7278	0.0000	0.0000	-	-
HIGH STD		831.277	1000.00	1000.00	0.0000	0.0

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Curve Type: Linear Equation:  $y = 0.8 x + 2.7$ **Sb 206.834 Calibration (ppb) 4/9/2013, 3:11:48 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		0.7778	0.0000	0.0000	-	-
HIGH STD		1267.40	2000.00	2000.00	0.0000	0.0

Curve Type: Linear Equation:  $y = 0.6 x + 0.8$ **Se 196.026 Calibration (ppb) 4/9/2013, 3:11:48 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		1.7545	0.0000	0.0000	-	-
HIGH STD		2600.25	10000.0	10000.0	0.0000	0.0

Curve Type: Linear Equation:  $y = 0.3 x + 1.8$ **Sn 189.925 Calibration (ppb) 4/9/2013, 3:11:48 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		1.2558	0.0000	0.0000	-	-
HIGH STD		6036.40	10000.0	10000.0	0.0010	0.0

Curve Type: Linear Equation:  $y = 0.6 x + 1.3$ **Sr 216.596 Calibration (ppb) 4/9/2013, 3:11:48 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-5.6404	0.0000	0.0000	-	-
HIGH STD		29448.9	5000.00	5000.00	0.0000	0.0

Curve Type: Linear Equation:  $y = 5.9 x + -5.6$ **Ti 334.941 Calibration (ppb) 4/9/2013, 3:11:48 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-29.8385	0.0000	0.0000	-	-
HIGH STD		211416	1000.00	1000.00	0.0001	0.0

Curve Type: Linear Equation:  $y = 211.4 x + -29.8$ **Tl 190.794 Calibration (ppb) 4/9/2013, 3:11:48 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		0.3537	0.0000	0.0000	-	-
HIGH STD		4421.58	10000.0	10000.0	0.0000	0.0

Curve Type: Linear Equation:  $y = 0.4 x + 0.4$

F04092013.wvq. All Data Report 4/10/2013, 11:45:37 AM

**V 292.401 Calibration (ppb) 4/9/2013, 3:11:48 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		19.5148	0.0000	0.0000	-	-
HIGH STD		281183	10000.0	10000.0	0.0010	0.0

Curve Type: Linear Equation:  $y = 28.1 x + 19.5$

**Zn 206.200 Calibration (ppb) 4/9/2013, 3:11:48 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		3.4051	0.0000	0.0000	-	-
HIGH STD		14865.7	5000.00	5000.00	-0.0005	0.0

Curve Type: Linear Equation:  $y = 3.0 x + 3.4$

**Lab Control Sample (LCS) 4/9/2013, 3:17:14 PM Rack S, Tube 2**  
**Weight: 1 Volume: 1 Dilution: 1**

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	1000.18	ppb	6.3037	0.6	30115.2	100.01775
Al 308.215	10017.5	ppb	38.7259	0.4	28197.9	100.17509
As 188.980	1005.04	ppb	6.7770	0.7	347.116	100.50401
B 249.678	1002.38	ppb	3.4322	0.3	8597.10	20.04758F
Ba 389.178	10005.5	ppb	43.7462	0.4	162768	100.05511
Be 313.042	1000.69	ppb	5.1977	0.5	1523062	100.06857
Ca 370.602	10201	ppb	39.08	0.4	37221	102.00603
Cd 226.502	1001.04	ppb	5.3148	0.5	21662.5	100.10394
Co 228.615	999.038	ppb	5.1129	0.5	7890.51	99.90382
Cr 267.716	10004.7	ppb	48.7800	0.5	159968	100.04712
Cu 324.754	9966.70	ppb	86.2763	0.9	356949	99.66704
Fe 271.441	10017.6	ppb	67.4441	0.7	7500.99	100.17623
K 766.491	20008.6	ppb	76.1775	0.4	2488464	100.04298
Mg 279.078	10018.8	ppb	40.6689	0.4	11057.9	100.18777
Mn 257.610	10009.4	ppb	46.9534	0.5	945829	100.09413
Mo 202.032	1001.02	ppb	5.2886	0.5	3350.03	100.10168
Na 330.237	14974.1	ppb	140.386	0.9	975.546	99.82730
Ni 231.604	5003.01	ppb	12.2755	0.2	14261.2	100.06027
Pb 220.353	1007.05	ppb	7.2896	0.7	825.929	100.70491
Sb 206.834	1911.74	ppb	11.8051	0.6	1275.08	191.17392F
Se 196.026	9962.64	ppb	38.4985	0.4	2592.31	99.62644
Sn 189.925	9982.13	ppb	81.6554	0.8	6025.82	99.82125
Sr 216.596	5008.04	ppb	25.7019	0.5	29296.4	100.16087
Ti 334.941	999.429	ppb	4.5431	0.5	211920	99.94287
Tl 190.794	10004.5	ppb	51.3999	0.5	4434.42	100.04481
V 292.401	10022.1	ppb	43.6288	0.4	280967	100.22105
Zn 206.200	5007.84	ppb	30.5423	0.6	14852.6	100.15678

**Initial Calib Verif (ICV) 4/9/2013, 3:22:40 PM Rack S, Tube 3**  
**Weight: 1 Volume: 1 Dilution: 1**

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	971.626b	ppb	8.9536	0.9	29256.2	97.16258
Al 308.215	960.727b	ppb	7.4361	0.8	2757.43	96.07267

F04092013.wvq. All Data Report 4/10/2013, 11:45:37 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
As 188.980	1006.18b	ppb	8.2745	0.8	346.280	100.61830
B 249.678	961.037b	ppb	3.7464	0.4	8264.40	96.10374
Ba 389.178	1022.39b	ppb	3.5535	0.3	16616.9	102.23875
Be 313.042	1030.42xb	ppb	2.8323	0.3	1562815	103.04236
Ca 370.602	986.1b	ppb	7.773	0.8	3637	98.61183
Cd 226.502	1031.45xb	ppb	3.2400	0.3	22300.4	103.14461
Co 228.615	994.776b	ppb	4.3081	0.4	7847.17	99.47763
Cr 267.716	1017.61b	ppb	3.4372	0.3	16277.1	101.76093
Cu 324.754	1008.53b	ppb	10.6913	1.1	36231.9	100.85338
Fe 271.441	980.777b	ppb	8.1393	0.8	773.300	98.07773
K 766.491	9874.52b	ppb	31.2646	0.3	1230307	98.74519
Mg 279.078	994.153b	ppb	5.3315	0.5	1121.20	99.41530
Mn 257.610	1054.48b	ppb	4.0368	0.4	99699.9	105.44757Q
Mo 202.032	996.854b	ppb	6.5533	0.7	3353.46	99.68545
Na 330.237	9335.37b	ppb	125.257	1.3	603.997	93.35367Q
Ni 231.604	1028.22b	ppb	6.1273	0.6	2928.70	102.82159
Pb 220.353	1002.71b	ppb	5.1071	0.5	831.002	100.27069
Sb 206.834	959.805b	ppb	4.5951	0.5	610.248	95.98051
Se 196.026	962.147b	ppb	12.6420	1.3	251.954	96.21474
Sn 189.925	4886.98b	ppb	14.8547	0.3	2950.85	97.73967
Sr 216.596	4901.34b	ppb	21.8439	0.4	28813.4	98.02674
Ti 334.941	969.073b	ppb	3.5912	0.4	204940	96.90735
Tl 190.794	991.635b	ppb	13.6133	1.4	440.894	99.16354
V 292.401	985.831b	ppb	3.2961	0.3	27451.3	98.58311
Zn 206.200	1026.43b	ppb	7.3115	0.7	3050.73	102.64323

Initial Calib Blank (ICB)

4/9/2013, 3:28:06 PM

Rack S, Tube 1

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.1773	ppb	0.4051	228.5	-14.0659	0.17725
Al 308.215	0.3894	ppb	1.8078	464.3	37.0971	0.38936
As 188.980	1.8862	ppb	5.1099	270.9	-0.0597	1.88624
B 249.678	2.3434	ppb	0.3097	13.2	62.8711	2.34336
Ba 389.178	0.9322	ppb	0.5321	57.1	-6.3167	0.93222
Be 313.042	0.0695	ppb	0.0075	10.9	202.946	0.06948
Ca 370.602	2.986	ppb	1.017	34.1	-49.36	2.98576
Cd 226.502	0.0184	ppb	0.0699	379.2	16.0176	0.01843
Co 228.615	-0.6656	ppb	0.1476	22.2	-10.0493	-0.66558
Cr 267.716	0.6007	ppb	0.2192	36.5	17.0374	0.60068
Cu 324.754	0.2640	ppb	0.3861	146.2	124.211	0.26405
Fe 271.441	0.2496	ppb	7.4732	2993.8	-2.3960	0.24962
K 766.491	0.8595	ppb	0.3097	36.0	2460.60	0.85945
Mg 279.078	-1.9717	ppb	4.7952	243.2	24.6791	-1.97174
Mn 257.610	0.0572	ppb	0.0285	49.8	60.6088	0.05724
Mo 202.032	1.5851	ppb	0.3196	20.2	4.5818	1.58509
Na 330.237	55.9151	ppb	130.981	234.3	1.5787	55.91506
Ni 231.604	1.1079	ppb	0.7127	64.3	2.0948	1.10791
Pb 220.353	-1.1260	ppb	5.4251	481.8	1.7942	-1.12604
Sb 206.834	5.8544	ppb	2.0705	35.4	4.4957	5.85436
Se 196.026	7.3700	ppb	6.5204	88.5	3.6697	7.37004
Sn 189.925	-5.5890	ppb	2.5302	45.3	-2.1172	-5.58901
Sr 216.596	0.6644	ppb	0.4467	67.2	-1.7749	0.66436
Ti 334.941	0.1652	ppb	0.0544	32.9	5.1137	0.16523



F04092013.wvq. All Data Report 4/10/2013, 11:45:37 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Tl 190.794	4.5759	ppb	2.3217	50.7	2.3753	4.57585
V 292.401	-0.0880	ppb	0.1544	175.5	16.9423	-0.08796
Zn 206.200	0.2025	ppb	0.2137	105.5	4.0059	0.20255

**CRI (CRI)****4/9/2013, 3:33:32 PM****Rack S, Tube 4****Weight: 1****Volume: 1****Dilution: 1**

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	10.0225	ppb	0.2393	2.4	282.560	100.22531
Al 308.215	207.142	ppb	2.6164	1.3	608.599	103.57079
As 188.980	19.2565	ppb	2.7033	14.0	5.9172	96.28250
B 249.678	100.718	ppb	0.6079	0.6	903.540	100.71790
Ba 389.178	10.1746	ppb	0.4539	4.5	145.077	101.74631
Be 313.042	4.2795	ppb	0.0154	0.4	6590.84	106.98788
Ca 370.602	520.0	ppb	1.210	0.2	1900	104.00533
Cd 226.502	5.4798	ppb	0.1031	1.9	134.112	109.59572
Co 228.615	10.1117	ppb	0.5574	5.5	75.0293	101.11725
Cr 267.716	10.6352	ppb	0.0326	0.3	177.464	106.35235
Cu 324.754	20.8175	ppb	0.1146	0.6	859.211	104.08762
Fe 271.441	48.0213	ppb	1.3191	2.7	33.3783	96.04259
K 766.491	1076.18	ppb	1.6745	0.2	136209	107.61765
Mg 279.078	521.246	ppb	4.1117	0.8	603.244	104.24919
Mn 257.610	10.8550	ppb	0.0942	0.9	1082.25	108.54997
Mo 202.032	10.9776	ppb	0.7591	6.9	36.1819	109.77635
Na 330.237	990.706	ppb	74.6230	7.5	62.7857	99.07058
Ni 231.604	43.0258	ppb	1.0048	2.3	121.567	107.56447
Pb 220.353	7.6051	ppb	2.4106	31.7	8.9812	76.05099R
Sb 206.834	21.7131	ppb	1.1213	5.2	14.5135	108.56528
Se 196.026	22.3113	ppb	6.0397	27.1	7.5597	111.55628
Sn 189.925	50.4828	ppb	3.1849	6.3	31.7237	100.96553
Sr 216.596	10.5472	ppb	0.7145	6.8	54.7970	105.47166
Ti 334.941	10.1111	ppb	0.0761	0.8	2109.28	101.11119
Tl 190.794	22.7087	ppb	4.2228	18.6	10.4069	90.83481
V 292.401	10.0706	ppb	0.2252	2.2	299.665	100.70566
Zn 206.200	21.4911	ppb	0.2898	1.3	67.2649	107.45544

**Interf Check A (ICSA)****4/9/2013, 3:39:00 PM****Rack S, Tube 5****Weight: 1****Volume: 1****Dilution: 1**

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	-0.5713	ppb	0.6985	122.3	-73.2822	-0.57131
Al 308.215	555613	ppb	1854.71	0.3	1533944	-
As 188.980	-4.2188	ppb	6.2731	148.7	-8.8997	-4.21884
B 249.678	13.8390	ppb	2.0966	15.1	-275.267	13.83899
Ba 389.178	-0.3526	ppb	0.1029	29.2	1175.99	-0.35262
Be 313.042	-0.1631	ppb	0.0114	7.0	9.7230	-0.16313
Ca 370.602	503661	ppb	2164	0.4	1870482	-
Cd 226.502	1.8119	ppb	0.4114	22.7	480.842	1.81187
Co 228.615	0.2093	ppb	0.4370	208.8	0.0670	0.20932
Cr 267.716	-0.0384	ppb	0.3260	849.5	-94.3783	-0.03838
Cu 324.754	4.2868	ppb	0.6968	16.3	-963.229	4.28683
Fe 271.441	192288	ppb	674.603	0.4	141701	-
K 766.491	-0.4328	ppb	0.2287	52.8	2273.65	-0.43283

F04092013.wvq. All Data Report 4/10/2013, 11:45:37 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Mg 279.078	540256	ppb	1644.52	0.3	596969	-
Mn 257.610	1.2732	ppb	0.0771	6.1	1720.99	1.27320
Mo 202.032	-1.0049	ppb	0.5220	51.9	-21.2833	-1.00491
Na 330.237	141.213	ppb	175.065	124.0	-83.2919	141.21335
Ni 231.604	6.1965	ppb	2.4252	39.1	48.1307	6.19654
Pb 220.353	0.6562	ppb	5.4171	825.5	-56.8669	0.65620
Sb 206.834	-7.2525	ppb	7.1953	99.2	5.4867	-7.25246
Se 196.026	-15.9192	ppb	10.8935	68.4	2.1285	-15.91917
Sn 189.925	0.6322	ppb	1.3148	208.0	-0.1796	0.63219
Sr 216.596	-1.5306	ppb	0.3250	21.2	102.832	-1.53063
Ti 334.941	5.9844	ppb	0.0503	0.8	1821.57	5.98437
Tl 190.794	0.3427	ppb	10.2097	2978.9	-17.1790	0.34274
V 292.401	-0.0596	ppb	0.2775	465.6	59.5567	-0.05959
Zn 206.200	8.4682	ppb	1.3527	16.0	50.7801	8.46820

Interf Check AB (ICSAB)

4/9/2013, 3:44:28 PM

Rack S, Tube 6

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	220.059	ppb	1.9155	0.9	6576.84	110.02935
Al 308.215	562666	ppb	451.317	0.1	1553462	112.53321
As 188.980	105.292	ppb	17.0256	16.2	28.8724	105.29197
B 249.678	12.8583	ppb	0.5578	4.3	-287.634	-
Ba 389.178	525.313	ppb	1.3577	0.3	9748.16	105.06250
Be 313.042	513.431	ppb	0.5145	0.1	778866	102.68620
Ca 370.602	510748	ppb	618.6	0.1	1896953	102.14969
Cd 226.502	1003.74	ppb	1.3374	0.1	22130.2	100.37365
Co 228.615	493.814	ppb	0.8885	0.2	3879.62	98.76285
Cr 267.716	515.868	ppb	1.5385	0.3	8152.20	103.17351
Cu 324.754	570.373	ppb	4.1653	0.7	19303.7	114.07468
Fe 271.441	194258	ppb	190.392	0.1	143179	97.12921
K 766.491	-0.0580	ppb	0.4158	717.0	2182.45	-
Mg 279.078	548823	ppb	522.312	0.1	606438	109.76464
Mn 257.610	523.719	ppb	0.4756	0.1	51104.8	104.74386
Mo 202.032	1086.73	ppb	0.7022	0.1	3639.74	108.67340
Na 330.237	563.947	ppb	93.4389	16.6	-54.9034	-
Ni 231.604	978.727	ppb	0.7373	0.1	2819.36	97.87270
Pb 220.353	49.8078	ppb	7.0289	14.1	-18.9082	99.61552
Sb 206.834	606.669	ppb	6.4471	1.1	397.399	101.11154
Se 196.026	58.6202	ppb	1.2767	2.2	21.6625	117.24034
Sn 189.925	1022.67	ppb	9.3164	0.9	616.606	102.26672
Sr 216.596	-2.7921	ppb	1.2820	45.9	42.7528	-
Ti 334.941	-0.1567	ppb	0.0349	22.3	562.692	-
Tl 190.794	92.3628	ppb	14.5065	15.7	23.5025	92.36285
V 292.401	499.735	ppb	0.9279	0.2	13827.2	99.94691
Zn 206.200	982.000	ppb	2.6622	0.3	2942.95	98.19995

Cont Calib Verif (CCV)

4/9/2013, 3:53:29 PM

Rack 1, Tube 1

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	498.412	ppb	1.9446	0.4	14997.7	99.68239
Al 308.215	5010.71	ppb	7.8083	0.2	14119.4	100.21415

F04092013.wvq. All Data Report 4/10/2013, 11:45:37 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
As 188.980	490.537	ppb	9.9631	2.0	169.096	98.10748
B 249.678	508.372	ppb	0.9686	0.2	4381.63	20.33488Q
Ba 389.178	5141.80	ppb	9.6619	0.2	83634.3	102.83604
Be 313.042	515.153	ppb	0.7320	0.1	783996	103.03066
Ca 370.602	5055	ppb	4.774	0.1	18411	101.09424
Cd 226.502	514.575	ppb	0.4503	0.1	11142.8	102.91502
Co 228.615	513.681	ppb	1.3195	0.3	4054.91	102.73621
Cr 267.716	5198.00	ppb	8.3218	0.2	83117.6	103.96000
Cu 324.754	5096.00	ppb	62.3147	1.2	182569	101.91998
Fe 271.441	5034.58	ppb	16.5157	0.3	3767.95	100.69169
K 766.491	10018.3	ppb	28.9473	0.3	1247119	100.18332
Mg 279.078	4961.03	ppb	21.3326	0.4	5488.28	99.22050
Mn 257.610	5324.11	ppb	5.3777	0.1	503120	106.48215
Mo 202.032	497.937	ppb	1.7966	0.4	1666.10	99.58748
Na 330.237	7361.85	ppb	101.183	1.4	478.688	98.15800
Ni 231.604	2598.25	ppb	5.0323	0.2	7405.69	103.92991
Pb 220.353	500.539	ppb	3.5606	0.7	411.690	100.10780
Sb 206.834	934.530	ppb	4.2216	0.5	626.456	37.38118Q
Se 196.026	4917.64	ppb	21.3733	0.4	1280.54	98.35289
Sn 189.925	4971.51	ppb	15.9420	0.3	3001.74	99.43014
Sr 216.596	2526.58	ppb	3.6664	0.1	14774.7	101.06302
Ti 334.941	497.744	ppb	1.2991	0.3	105539	99.54884
Tl 190.794	4994.95	ppb	20.8792	0.4	2214.12	99.89904
V 292.401	4946.19	ppb	7.9558	0.2	138658	98.92378
Zn 206.200	2602.02	ppb	4.5327	0.2	7718.88	104.08070

## Cont Calib Blank (CCB)

4/9/2013, 3:58:55 PM

Rack 1, Tube 2

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.3984	ppb	0.4114	103.3	-7.4023	0.39837
Al 308.215	-1.9646	ppb	2.5042	127.5	30.6091	-1.96458
As 188.980	2.0097	ppb	5.2657	262.0	-0.0169	2.00975
B 249.678	0.7673	ppb	0.3567	46.5	49.4049	0.76734
Ba 389.178	0.6346	ppb	0.7578	119.4	-11.1640	0.63463
Be 313.042	-0.0715	ppb	0.0068	9.6	-10.7136	-0.07147
Ca 370.602	-2.998	ppb	3.414	113.9	-71.49	-2.99825
Cd 226.502	-0.1794	ppb	0.1026	57.2	11.7369	-0.17945
Co 228.615	-0.8804	ppb	0.1682	19.1	-11.7545	-0.88036
Cr 267.716	0.3966	ppb	0.2608	65.8	13.7741	0.39662
Cu 324.754	-0.3617	ppb	0.2225	61.5	101.812	-0.36165
Fe 271.441	-3.6516	ppb	3.9145	107.2	-5.2765	-3.65164
K 766.491	-2.0615	ppb	0.1595	7.7	2097.40	-2.06154
Mg 279.078	-3.1399	ppb	3.7872	120.6	23.3975	-3.13991
Mn 257.610	-0.1245	ppb	0.1102	88.5	43.4243	-0.12449
Mo 202.032	1.3594	ppb	0.8889	65.4	3.8220	1.35936
Na 330.237	3.1244	ppb	91.3007	2922.2	-1.8782	3.12443
Ni 231.604	0.8441	ppb	0.6852	81.2	1.3416	0.84413
Pb 220.353	-3.0879	ppb	2.2821	73.9	0.1683	-3.08786
Sb 206.834	2.8048	ppb	1.7700	63.1	2.5583	2.80479
Se 196.026	-3.4787	ppb	8.3131	239.0	0.8506	-3.47872
Sn 189.925	-0.8552	ppb	1.0507	122.9	0.7397	-0.85515
Sr 216.596	-0.1926	ppb	0.2795	145.1	-6.8169	-0.19260
Ti 334.941	-0.1131	ppb	0.0893	79.0	53.7375	-0.11313

F04092013.wvq. All Data Report 4/10/2013, 11:45:37 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Tl 190.794	-0.3823	ppb	6.2120	1624.9	0.1828	-0.38230
V 292.401	0.0050	ppb	0.1303	2605.5	19.4811	0.00500
Zn 206.200	-0.0201	ppb	0.2117	1054.8	3.3435	-0.02007

mb 680-272197/1-a (Samp) 4/9/2013, 4:04:21 PM Rack 1, Tube 3

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.5686	ppb	0.3911	68.8	-36.5411
Al 308.215	-5.8624	ppb	2.0159	34.4	19.8153
As 188.980	-0.5442	ppb	8.3518	1534.6	-0.8972
B 249.678	1.8397	ppb	0.6395	34.8	58.5716
Ba 389.178	-0.0560	ppb	0.6133	1094.4	-22.4066
Be 313.042	-0.1132	ppb	0.0092	8.1	-74.0404
Ca 370.602	-3.932	ppb	4.094	104.1	-75.18
Cd 226.502	-0.1147	ppb	0.1511	131.7	13.1361
Co 228.615	-0.8296	ppb	0.2094	25.2	-11.3422
Cr 267.716	0.2702	ppb	0.1189	44.0	11.7533
Cu 324.754	-0.5125	ppb	0.2094	40.9	96.4096
Fe 271.441	-2.8519	ppb	4.5110	158.2	-4.6964
K 766.491	-2.7888	ppb	0.3545	12.7	2007.02
Mg 279.078	-6.5264	ppb	2.3736	36.4	19.6497
Mn 257.610	-0.4877	ppb	0.0401	8.2	9.1009
Mo 202.032	1.1121	ppb	1.0034	90.2	2.9901
Na 330.237	56.4863	ppb	129.880	229.9	1.6192
Ni 231.604	0.3542	ppb	1.6408	463.3	-0.0532
Pb 220.353	-2.5836	ppb	2.0988	81.2	0.5877
Sb 206.834	2.2297	ppb	2.0665	92.7	2.1911
Se 196.026	-3.5646	ppb	6.8168	191.2	0.8281
Sn 189.925	-2.1008	ppb	2.9640	141.1	-0.0121
Sr 216.596	-0.1020	ppb	0.6376	625.2	-6.2525
Ti 334.941	-0.1366	ppb	0.0709	51.9	-58.7156
Tl 190.794	-0.4061	ppb	0.4363	107.4	0.1725
V 292.401	-0.3107	ppb	0.2105	67.7	10.8082
Zn 206.200	0.0971	ppb	0.1573	162.1	3.6926

lcs 680-272197/2-a (Samp) 4/9/2013, 4:09:47 PM Rack 1, Tube 4

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	11.1378	ppb	0.4203	3.8	317.026
Al 308.215	5035.33	ppb	3.1922	0.1	13943.9
As 188.980	98.8923	ppb	5.4897	5.6	33.3266
B 249.678	194.335	ppb	0.7460	0.4	1692.50
Ba 389.178	102.783	ppb	0.6705	0.7	1665.51
Be 313.042	52.9274	ppb	0.0716	0.1	80390.9
Ca 370.602	4946	ppb	9.684	0.2	17782
Cd 226.502	51.8682	ppb	0.2173	0.4	1146.45
Co 228.615	51.2759	ppb	0.3787	0.7	399.984
Cr 267.716	103.715	ppb	0.3701	0.4	1663.73
Cu 324.754	102.874	ppb	0.9752	0.9	3788.05
Fe 271.441	4938.97	ppb	2.8304	0.1	3640.28
K 766.491	4970.23	ppb	5.4264	0.1	620537

F04092013.wvq. All Data Report 4/10/2013, 11:45:37 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Mg 279.078	4930.37	ppb	5.7423	0.1	5462.88
Mn 257.610	535.187	ppb	0.7121	0.1	50640.3
Mo 202.032	99.6830	ppb	0.5034	0.5	334.111
Na 330.237	4712.55	ppb	37.0814	0.8	303.915
Ni 231.604	103.029	ppb	1.0753	1.0	292.969
Pb 220.353	49.2394	ppb	1.5605	3.2	42.7243
Sb 206.834	50.6987	ppb	4.0823	8.1	33.4858
Se 196.026	94.6972	ppb	6.4227	6.8	26.4463
Sn 189.925	192.417	ppb	1.9505	1.0	117.390
Sr 216.596	99.7968	ppb	1.1201	1.1	579.310
Ti 334.941	97.9978	ppb	0.2227	0.2	20703.3
Tl 190.794	36.5173	ppb	5.2659	14.4	16.3526
V 292.401	98.9183	ppb	0.1655	0.2	2772.23
Zn 206.200	102.068	ppb	1.3551	1.3	306.692

ics 680-272197/3-a (Samp) 4/9/2013, 4:15:13 PM Rack 1, Tube 5

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	200.193	ppb	0.7221	0.4	6016.88
Al 308.215	2065.15	ppb	7.8741	0.4	5749.44
As 188.980	206.100	ppb	14.1244	6.9	70.0799
B 249.678	393.066	ppb	0.7614	0.2	3356.87
Ba 389.178	196.975	ppb	0.5662	0.3	3244.32
Be 313.042	213.627	ppb	0.2541	0.1	324081
Ca 370.602	20499	ppb	35.03	0.2	73791
Cd 226.502	208.000	ppb	0.4986	0.2	4551.44
Co 228.615	207.566	ppb	0.6676	0.3	1634.15
Cr 267.716	209.973	ppb	0.5247	0.2	3355.91
Cu 324.754	208.751	ppb	1.5792	0.8	7546.45
Fe 271.441	20868.8	ppb	55.0293	0.3	15387.4
K 766.491	20051.7	ppb	20.2341	0.1	2496384
Mg 279.078	20246.4	ppb	41.3098	0.2	22347.9
Mn 257.610	2152.28	ppb	2.7484	0.1	203486
Mo 202.032	204.207	ppb	0.9498	0.5	683.781
Na 330.237	18531.4	ppb	76.7764	0.4	1201.53
Ni 231.604	212.081	ppb	0.6928	0.3	605.094
Pb 220.353	199.004	ppb	1.0720	0.5	166.781
Sb 206.834	194.314	ppb	4.9893	2.6	126.358
Se 196.026	213.101	ppb	15.6919	7.4	57.4003
Sn 189.925	197.463	ppb	4.0227	2.0	120.409
Sr 216.596	212.687	ppb	1.0282	0.5	1246.40
Ti 334.941	199.785	ppb	0.3836	0.2	42249.2
Tl 190.794	35.9710	ppb	6.6505	18.5	15.6819
V 292.401	203.118	ppb	0.6003	0.3	5672.37
Zn 206.200	194.279	ppb	0.7990	0.4	581.270

680-88598-b-10-a (Samp) 4/9/2013, 4:20:40 PM Rack 1, Tube 6

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.7635	ppb	0.3794	49.7	-42.4130
Al 308.215	69.9619	ppb	2.4221	3.5	229.152

F04092013.wvq. All Data Report 4/10/2013, 11:45:37 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	1.7579	ppb	6.3552	361.5	-0.1861
B 249.678	9.1054	ppb	0.8376	9.2	120.478
Ba 389.178	20.2417	ppb	0.2031	1.0	312.967
Be 313.042	-0.0896	ppb	0.0040	4.5	-37.6995
Ca 370.602	6332	ppb	99.00	1.6	23878
Cd 226.502	-0.0723	ppb	0.1185	164.0	14.2142
Co 228.615	-0.2983	ppb	0.4418	148.1	-7.1122
Cr 267.716	0.2249	ppb	0.1335	59.4	11.0619
Cu 324.754	0.5931	ppb	0.1996	33.6	119.183
Fe 271.441	84.6307	ppb	12.5000	14.8	59.7974
K 766.491	1388.55	ppb	15.8369	1.1	175060
Mg 279.078	2841.60	ppb	33.2146	1.2	3169.73
Mn 257.610	9.0313	ppb	0.1883	2.1	915.623
Mo 202.032	0.1141	ppb	0.5479	480.2	-0.3804
Na 330.237	12115.7	ppb	203.439	1.7	791.933
Ni 231.604	1.0097	ppb	1.0864	107.6	1.9232
Pb 220.353	-2.0220	ppb	2.2585	111.7	1.0452
Sb 206.834	1.1370	ppb	2.1350	187.8	1.5586
Se 196.026	0.1870	ppb	8.0472	4303.5	1.8457
Sn 189.925	-2.1499	ppb	1.1763	54.7	-0.0617
Sr 216.596	36.1028	ppb	0.2630	0.7	207.308
Ti 334.941	1.2270	ppb	0.0767	6.3	235.827
Tl 190.794	-2.8366	ppb	1.9120	67.4	-0.9611
V 292.401	-0.0309	ppb	0.1850	598.2	18.6471
Zn 206.200	3.0983	ppb	0.1263	4.1	12.7095

680-88598-a-10-a (Samp)

4/9/2013, 4:26:07 PM

Rack 1, Tube 7

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0353	ppb	0.4571	1294.7	-20.4629
Al 308.215	25.2245	ppb	3.5261	14.0	105.650
As 188.980	0.6919	ppb	3.2825	474.4	-0.5522
B 249.678	8.6088	ppb	0.6797	7.9	116.294
Ba 389.178	20.1447	ppb	0.6140	3.0	311.234
Be 313.042	-0.0893	ppb	0.0055	6.2	-37.4978
Ca 370.602	6225	ppb	90.75	1.5	23482
Cd 226.502	-0.1340	ppb	0.2036	152.0	12.8077
Co 228.615	-1.0333	ppb	0.0990	9.6	-12.9410
Cr 267.716	-0.1489	ppb	0.1314	88.2	5.1013
Cu 324.754	0.4728	ppb	0.0983	20.8	115.162
Fe 271.441	49.2372	ppb	3.1219	6.3	33.6861
K 766.491	1374.20	ppb	16.5301	1.2	173276
Mg 279.078	2776.05	ppb	42.1495	1.5	3097.35
Mn 257.610	8.4092	ppb	0.1219	1.4	856.640
Mo 202.032	1.6770	ppb	0.6380	38.0	4.8857
Na 330.237	11909.6	ppb	89.9769	0.8	778.449
Ni 231.604	1.7339	ppb	0.6800	39.2	3.9824
Pb 220.353	-0.2884	ppb	5.0866	1763.7	2.4858
Sb 206.834	3.6056	ppb	1.4505	40.2	3.1223
Se 196.026	-5.5026	ppb	10.3685	188.4	0.3667
Sn 189.925	-3.9260	ppb	4.7985	122.2	-1.1334
Sr 216.596	35.2891	ppb	0.4276	1.2	202.453
Ti 334.941	0.4352	ppb	0.0317	7.3	68.2851

F04092013.wvq. All Data Report 4/10/2013, 11:45:37 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Tl 190.794	-5.2717	ppb	0.3343	6.3	-2.0375
V 292.401	-0.2973	ppb	0.4163	140.0	10.9726
Zn 206.200	4.7196	ppb	0.8475	18.0	17.5270

**680-88598-b-11-a (Samp)**      **4/9/2013, 4:31:34 PM**      **Rack 1, Tube 8**  
**Weight: 1**      **Volume: 1**      **Dilution: 1**

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.2160	ppb	0.2230	103.2	-25.9164
Al 308.215	-4.7497	ppb	1.3532	28.5	22.8892
As 188.980	-0.2667	ppb	7.0736	2652.2	-0.8020
B 249.678	-0.9952	ppb	0.5051	50.8	34.3317
Ba 389.178	0.4638	ppb	0.6774	146.1	-13.9325
Be 313.042	-0.1133	ppb	0.0047	4.2	-74.3833
Ca 370.602	29.90	ppb	1.577	5.3	52.34
Cd 226.502	-0.1142	ppb	0.0271	23.7	13.1525
Co 228.615	-1.0455	ppb	0.2748	26.3	-13.0522
Cr 267.716	-0.0847	ppb	0.1040	122.7	6.0765
Cu 324.754	-0.2526	ppb	0.1408	55.7	105.634
Fe 271.441	-0.4287	ppb	6.9988	1632.6	-2.9230
K 766.491	-0.8518	ppb	0.2676	31.4	2247.85
Mg 279.078	1.5762	ppb	3.5522	225.4	28.6034
Mn 257.610	-0.3872	ppb	0.0262	6.8	18.6135
Mo 202.032	0.1660	ppb	0.7408	446.2	-0.1953
Na 330.237	260.996	ppb	65.0046	24.9	15.0213
Ni 231.604	0.4247	ppb	0.4431	104.3	0.1466
Pb 220.353	0.4621	ppb	3.4569	748.2	3.1110
Sb 206.834	4.6480	ppb	4.3755	94.1	3.7288
Se 196.026	0.0085	ppb	1.2884	15070.2	1.7568
Sn 189.925	-3.0650	ppb	2.1772	71.0	-0.5941
Sr 216.596	-0.1102	ppb	0.1937	175.8	-6.3073
Ti 334.941	-0.1778	ppb	0.0082	4.6	-67.4239
Tl 190.794	-3.1964	ppb	6.2573	195.8	-1.0625
V 292.401	-0.4505	ppb	0.1672	37.1	6.7978
Zn 206.200	-0.2834	ppb	0.3459	122.1	2.5627

**680-88598-a-11-a (Samp)**      **4/9/2013, 4:37:02 PM**      **Rack 1, Tube 9**  
**Weight: 1**      **Volume: 1**      **Dilution: 1**

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1591	ppb	0.4408	277.1	-24.2019
Al 308.215	-2.0446	ppb	2.1605	105.7	30.3529
As 188.980	-0.8812	ppb	6.2149	705.3	-1.0137
B 249.678	-0.6788	ppb	0.4875	71.8	37.0460
Ba 389.178	-0.1640	ppb	0.6768	412.8	-24.1434
Be 313.042	-0.0653	ppb	0.0117	18.0	-1.5914
Ca 370.602	28.90	ppb	2.282	7.9	48.56
Cd 226.502	-0.1488	ppb	0.1321	88.8	12.4063
Co 228.615	-0.9578	ppb	0.4530	47.3	-12.3573
Cr 267.716	0.0076	ppb	0.3220	4252.3	7.5536
Cu 324.754	2.1242	ppb	0.1430	6.7	190.767
Fe 271.441	0.8559	ppb	5.1610	603.0	-1.9538
K 766.491	0.7119	ppb	0.0756	10.6	2442.54

F04092013.wvq. All Data Report 4/10/2013, 11:45:37 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Mg 279.078	-0.1140	ppb	4.2572	3735.2	26.7332
Mn 257.610	-0.3445	ppb	0.0358	10.4	22.6469
Mo 202.032	0.7354	ppb	0.6546	89.0	1.7217
Na 330.237	195.837	ppb	13.2651	6.8	10.7508
Ni 231.604	-0.2670	ppb	1.5972	598.1	-1.8246
Pb 220.353	-2.0495	ppb	3.3888	165.4	1.0299
Sb 206.834	2.2390	ppb	1.3521	60.4	2.2015
Se 196.026	-0.8915	ppb	3.3809	379.2	1.5229
Sn 189.925	-2.6230	ppb	0.9262	35.3	-0.3273
Sr 216.596	-0.2597	ppb	0.3317	127.7	-7.1623
Ti 334.941	-0.0490	ppb	0.0395	80.5	-40.1883
Tl 190.794	-2.9989	ppb	1.7393	58.0	-0.9743
V 292.401	-0.5265	ppb	0.1157	22.0	4.6768
Zn 206.200	0.4175	ppb	0.6292	150.7	4.6460

680-88598-b-13-a (Samp) 4/9/2013, 4:42:29 PM Rack 1, Tube 10

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0563	ppb	0.2656	472.0	-17.7457
Al 308.215	10.1033	ppb	2.4400	24.2	63.9060
As 188.980	-7.2925	ppb	2.0058	27.5	-3.4540
B 249.678	2.8169	ppb	0.8712	30.9	66.7281
Ba 389.178	62.0722	ppb	0.6836	1.1	995.552
Be 313.042	0.0071	ppb	0.0048	67.2	111.970
Ca 370.602	17804	ppb	22.99	0.1	67270
Cd 226.502	-0.1181	ppb	0.1628	137.8	13.3544
Co 228.615	5.9756	ppb	0.5169	8.6	42.4458
Cr 267.716	1.0104	ppb	0.4315	42.7	23.5931
Cu 324.754	0.5767	ppb	0.2909	50.4	87.8281
Fe 271.441	148.835	ppb	2.1376	1.4	107.409
K 766.491	2231.36	ppb	3.8422	0.2	279881
Mg 279.078	4091.82	ppb	2.3688	0.1	4552.42
Mn 257.610	7.5493	ppb	0.0632	0.8	778.799
Mo 202.032	0.9228	ppb	0.6534	70.8	2.3332
Na 330.237	13155.9	ppb	82.3780	0.6	860.145
Ni 231.604	1.8785	ppb	0.7605	40.5	4.4445
Pb 220.353	-2.8266	ppb	3.2627	115.4	0.3827
Sb 206.834	5.0619	ppb	2.9656	58.6	4.1598
Se 196.026	7.6811	ppb	7.3478	95.7	3.8352
Sn 189.925	-1.7538	ppb	0.7134	40.7	0.1352
Sr 216.596	80.9538	ppb	0.9032	1.1	471.995
Ti 334.941	0.3809	ppb	0.0109	2.9	69.2967
Tl 190.794	1.4562	ppb	2.4123	165.7	0.8416
V 292.401	0.1552	ppb	0.1661	107.0	23.7669
Zn 206.200	37.5526	ppb	0.2923	0.8	115.162

680-88598-b-13-aSD^5 (Samp) 4/9/2013, 4:47:57 PM Rack 1, Tube 11

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1444	ppb	0.6030	417.7	-15.0655
Al 308.215	-0.5973	ppb	1.7526	293.4	34.3356



F04092013.wvq. All Data Report 4/10/2013, 11:45:37 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	1.7427	ppb	9.8637	566.0	-0.1569
B 249.678	0.4882	ppb	0.9618	197.0	46.9917
Ba 389.178	12.8713	ppb	1.2839	10.0	189.434
Be 313.042	-0.0911	ppb	0.0161	17.7	-39.9447
Ca 370.602	3682	ppb	232.1	6.3	13864
Cd 226.502	-0.1447	ppb	0.1027	71.0	12.5537
Co 228.615	0.8629	ppb	0.1217	14.1	2.0383
Cr 267.716	0.1633	ppb	0.2083	127.6	10.0430
Cu 324.754	-0.2622	ppb	0.1979	75.5	95.5287
Fe 271.441	30.7694	ppb	11.9652	38.9	20.1719
K 766.491	459.580	ppb	20.5976	4.5	59514.4
Mg 279.078	856.101	ppb	57.3266	6.7	973.711
Mn 257.610	1.2089	ppb	0.0910	7.5	171.592
Mo 202.032	-0.2123	ppb	0.5090	239.7	-1.4728
Na 330.237	2638.08	ppb	125.627	4.8	170.813
Ni 231.604	0.6956	ppb	0.3851	55.4	0.9521
Pb 220.353	-2.9273	ppb	5.3800	183.8	0.3028
Sb 206.834	3.4501	ppb	3.1554	91.5	3.0045
Se 196.026	6.6339	ppb	9.4598	142.6	3.4959
Sn 189.925	-4.7604	ppb	1.6198	34.0	-1.6301
Sr 216.596	15.9858	ppb	0.8635	5.4	88.6822
Ti 334.941	-0.0464	ppb	0.0629	135.7	-35.7996
Tl 190.794	-1.8095	ppb	3.1615	174.7	-0.4791
V 292.401	-0.4822	ppb	0.1560	32.4	6.0354
Zn 206.200	7.7128	ppb	0.3730	4.8	26.3593

680-88598-b-13-aPDS (Samp) 4/9/2013, 4:53:26 PM Rack 1, Tube 12

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	50.4988	ppb	0.7412	1.5	1501.49
Al 308.215	2073.54	ppb	2.7488	0.1	5796.27
As 188.980	2073.45	ppb	7.4393	0.4	713.682
B 249.678	1008.64	ppb	0.6188	0.1	8665.70
Ba 389.178	2194.51	ppb	2.5686	0.1	35687.3
Be 313.042	54.0446	ppb	0.0795	0.1	82290.7
Ca 370.602	22564	ppb	16.91	0.1	85219
Cd 226.502	53.0144	ppb	0.2452	0.5	1163.52
Co 228.615	540.655	ppb	0.4199	0.1	4271.59
Cr 267.716	215.397	ppb	0.4166	0.2	3450.22
Cu 324.754	266.305	ppb	1.1350	0.4	9585.81
Fe 271.441	1189.29	ppb	9.7446	0.8	903.108
K 766.491	7503.47	ppb	1.4207	0.0	935082
Mg 279.078	9245.23	ppb	18.5395	0.2	10248.2
Mn 257.610	561.364	ppb	0.6831	0.1	53129.8
Mo 202.032	525.887	ppb	1.6798	0.3	1768.69
Na 330.237	17955.9	ppb	79.1399	0.4	1167.80
Ni 231.604	527.726	ppb	3.1920	0.6	1503.86
Pb 220.353	514.667	ppb	4.7069	0.9	427.927
Sb 206.834	495.733	ppb	3.0888	0.6	312.107
Se 196.026	2043.11	ppb	16.6529	0.8	532.884
Sn 189.925	1032.94	ppb	3.1602	0.3	624.817
Sr 216.596	605.289	ppb	2.7349	0.5	3533.43
Ti 334.941	1016.70	ppb	0.8337	0.1	214986

F04092013.wvq. All Data Report 4/10/2013, 11:45:37 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Tl 190.794	2110.00	ppb	5.8130	0.3	934.441
V 292.401	513.058	ppb	0.5462	0.1	14317.8
Zn 206.200	561.387	ppb	1.5971	0.3	1671.64

Cont Calib Verif (CCV) 4/9/2013, 4:58:53 PM Rack 1, Tube 13

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	496.478	ppb	1.8249	0.4	14939.5	99.29553
Al 308.215	5009.63	ppb	6.8665	0.1	14116.3	100.19263
As 188.980	504.611	ppb	2.7969	0.6	173.946	100.92220
B 249.678	508.056	ppb	0.6919	0.1	4378.97	20.32223Q
Ba 389.178	5126.88	ppb	6.8111	0.1	83391.5	102.53759
Be 313.042	515.255	ppb	0.9425	0.2	784149	103.05100
Ca 370.602	5038	ppb	10.82	0.2	18350	100.75086
Cd 226.502	513.370	ppb	0.3961	0.1	11116.7	102.67407
Co 228.615	513.393	ppb	1.6271	0.3	4052.63	102.67865
Cr 267.716	5179.93	ppb	6.9792	0.1	82828.6	103.59869
Cu 324.754	5041.48	ppb	53.4421	1.1	180616	100.82953
Fe 271.441	5015.34	ppb	4.4918	0.1	3753.76	100.30675
K 766.491	10014.7	ppb	21.7254	0.2	1246669	100.14693
Mg 279.078	4952.09	ppb	6.5215	0.1	5478.47	99.04178
Mn 257.610	5312.73	ppb	9.0081	0.2	502045	106.25464
Mo 202.032	500.187	ppb	1.5499	0.3	1673.68	100.03740
Na 330.237	7512.98	ppb	115.592	1.5	488.603	100.17300
Ni 231.604	2594.78	ppb	5.5403	0.2	7395.82	103.79131
Pb 220.353	504.339	ppb	2.8569	0.6	414.848	100.86778
Sb 206.834	928.975	ppb	4.2276	0.5	622.851	37.15901Q
Se 196.026	4899.58	ppb	16.6757	0.3	1275.85	97.99170
Sn 189.925	4955.83	ppb	11.1733	0.2	2992.28	99.11663
Sr 216.596	2523.06	ppb	7.3838	0.3	14754.1	100.92222
Ti 334.941	497.170	ppb	0.6451	0.1	105417	99.43391
Tl 190.794	5001.53	ppb	17.1899	0.3	2217.03	100.03059
V 292.401	4945.11	ppb	3.0674	0.1	138628	98.90216
Zn 206.200	2599.56	ppb	0.9989	0.0	7711.61	103.98242

Cont Calib Blank (CCB) 4/9/2013, 5:04:18 PM Rack 1, Tube 14

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	-0.4317	ppb	0.4581	106.1	-32.4152	-0.43171
Al 308.215	-5.4489	ppb	1.8051	33.1	20.9774	-5.44887
As 188.980	-5.4420	ppb	4.0623	74.6	-2.5853	-5.44196
B 249.678	1.5685	ppb	0.5933	37.8	56.2388	1.56853
Ba 389.178	0.2283	ppb	0.7973	349.2	-17.7691	0.22831
Be 313.042	-0.0869	ppb	0.0072	8.3	-34.1516	-0.08693
Ca 370.602	-5.011	ppb	2.074	41.4	-80.42	-5.01125
Cd 226.502	-0.0760	ppb	0.0665	87.5	13.9852	-0.07604
Co 228.615	-0.8029	ppb	0.3568	44.4	-11.1372	-0.80287
Cr 267.716	0.3352	ppb	0.1158	34.5	12.7886	0.33525
Cu 324.754	-0.0922	ppb	0.3982	431.8	111.469	-0.09223
Fe 271.441	4.4316	ppb	1.3044	29.4	0.6809	4.43159
K 766.491	-2.5060	ppb	0.2646	10.6	2042.21	-2.50601

F04092013.wvq. All Data Report 4/10/2013, 11:45:37 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Mg 279.078	-9.7796	ppb	5.2820	54.0	16.0287	-9.77959
Mn 257.610	-0.1386	ppb	0.0563	40.6	42.0976	-0.13856
Mo 202.032	1.0227	ppb	0.6149	60.1	2.6878	1.02273
Na 330.237	-1.1621	ppb	20.9991	1807.0	-2.1631	-1.16209
Ni 231.604	0.6963	ppb	0.5478	78.7	0.9196	0.69628
Pb 220.353	-1.6344	ppb	1.6046	98.2	1.3736	-1.63442
Sb 206.834	4.9921	ppb	2.6240	52.6	3.9426	4.99210
Se 196.026	-1.0212	ppb	14.0983	1380.6	1.4890	-1.02120
Sn 189.925	-2.3514	ppb	5.0155	213.3	-0.1633	-2.35141
Sr 216.596	-1.0243	ppb	0.5513	53.8	-11.7020	-1.02427
Ti 334.941	-0.1267	ppb	0.0597	47.1	-56.6254	-0.12671
Tl 190.794	-1.7717	ppb	6.4858	366.1	-0.4314	-1.77170
V 292.401	-0.0467	ppb	0.1987	425.7	18.1317	-0.04669
Zn 206.200	-0.4408	ppb	0.4868	110.4	2.0939	-0.44080

680-88598-b-13-b ms (Samp) 4/9/2013, 5:09:43 PM Rack 1, Tube 15

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.5386	ppb	0.3128	58.1	-35.6700
Al 308.215	4.9140	ppb	2.7360	55.7	49.5892
As 188.980	-1.9002	ppb	0.5627	29.6	-1.5950
B 249.678	2.5367	ppb	0.5314	20.9	64.3210
Ba 389.178	61.9166	ppb	0.8884	1.4	993.026
Be 313.042	0.0153	ppb	0.0063	41.1	124.438
Ca 370.602	17774	ppb	23.32	0.1	67154
Cd 226.502	-0.1719	ppb	0.1432	83.3	12.2002
Co 228.615	5.9366	ppb	0.0488	0.8	42.1345
Cr 267.716	0.8005	ppb	0.0306	3.8	20.2336
Cu 324.754	1.1280	ppb	0.0538	4.8	107.655
Fe 271.441	151.423	ppb	10.1063	6.7	109.311
K 766.491	2225.36	ppb	3.2040	0.1	279134
Mg 279.078	4084.62	ppb	12.3114	0.3	4544.45
Mn 257.610	7.5446	ppb	0.0302	0.4	778.352
Mo 202.032	1.1484	ppb	0.6245	54.4	3.0919
Na 330.237	12977.4	ppb	106.278	0.8	848.439
Ni 231.604	1.4952	ppb	0.8886	59.4	3.3522
Pb 220.353	-3.5492	ppb	3.0093	84.8	-0.2164
Sb 206.834	3.5039	ppb	3.0643	87.5	3.1747
Se 196.026	-8.4782	ppb	5.3434	63.0	-0.3639
Sn 189.925	-3.4271	ppb	3.8596	112.6	-0.8746
Sr 216.596	79.5771	ppb	0.2443	0.3	463.891
Ti 334.941	0.3864	ppb	0.0178	4.6	70.4442
Tl 190.794	-7.4749	ppb	7.7151	103.2	-3.1073
V 292.401	0.2569	ppb	0.1862	72.5	26.5584
Zn 206.200	36.9375	ppb	0.4114	1.1	113.333

680-88598-b-13-c msd (Samp) 4/9/2013, 5:15:09 PM Rack 1, Tube 16

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0963	ppb	0.5219	541.8	-16.5383
Al 308.215	6.2225	ppb	3.7682	60.6	53.1986

F04092013.wvq. All Data Report 4/10/2013, 11:45:37 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	3.2419	ppb	7.3691	227.3	0.1739
B 249.678	1.6650	ppb	0.2369	14.2	56.8737
Ba 389.178	62.5554	ppb	1.0080	1.6	1003.52
Be 313.042	0.0049	ppb	0.0018	35.8	108.586
Ca 370.602	18022	ppb	491.1	2.7	68092
Cd 226.502	-0.0393	ppb	0.0633	161.1	15.0639
Co 228.615	6.6347	ppb	0.5972	9.0	47.6439
Cr 267.716	0.7853	ppb	0.2711	34.5	19.9931
Cu 324.754	0.2803	ppb	0.1176	42.0	76.6381
Fe 271.441	152.306	ppb	3.4092	2.2	109.970
K 766.491	2250.56	ppb	70.9753	3.2	282269
Mg 279.078	4151.05	ppb	98.0519	2.4	4617.93
Mn 257.610	7.5428	ppb	0.2496	3.3	778.326
Mo 202.032	0.9268	ppb	1.0974	118.4	2.3464
Na 330.237	13257.7	ppb	303.778	2.3	866.811
Ni 231.604	2.4588	ppb	1.7110	69.6	6.1010
Pb 220.353	-0.8359	ppb	1.7499	209.3	2.0316
Sb 206.834	1.4569	ppb	1.4473	99.3	1.8742
Se 196.026	6.3780	ppb	4.2034	65.9	3.4976
Sn 189.925	-0.5821	ppb	3.3414	574.1	0.8416
Sr 216.596	80.7701	ppb	2.0869	2.6	470.889
Ti 334.941	0.4499	ppb	0.0460	10.2	84.1012
Tl 190.794	-0.2104	ppb	1.3751	653.5	0.1022
V 292.401	0.0726	ppb	0.2098	288.8	21.3466
Zn 206.200	38.0286	ppb	0.9295	2.4	116.580

680-88598-b-13-d du (Samp)

4/9/2013, 5:20:35 PM

Rack 1, Tube 17

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0160	ppb	0.6517	4073.5	-18.9621
Al 308.215	5.8914	ppb	0.4268	7.2	52.2935
As 188.980	2.2921	ppb	5.0045	218.3	-0.1650
B 249.678	2.3379	ppb	0.5178	22.1	62.6098
Ba 389.178	66.1893	ppb	0.4625	0.7	1063.00
Be 313.042	0.0108	ppb	0.0145	134.0	117.841
Ca 370.602	18917	ppb	16.76	0.1	71477
Cd 226.502	0.0209	ppb	0.2973	1424.7	16.3884
Co 228.615	6.8847	ppb	0.3564	5.2	49.6245
Cr 267.716	1.0134	ppb	0.2517	24.8	23.6365
Cu 324.754	0.4349	ppb	0.1173	27.0	79.7764
Fe 271.441	165.001	ppb	4.1156	2.5	119.356
K 766.491	2371.95	ppb	4.2714	0.2	297367
Mg 279.078	4356.21	ppb	9.3480	0.2	4844.82
Mn 257.610	8.0279	ppb	0.1069	1.3	824.681
Mo 202.032	0.4812	ppb	0.1667	34.7	0.8441
Na 330.237	13867.5	ppb	90.0396	0.6	906.776
Ni 231.604	2.1670	ppb	0.8554	39.5	5.2755
Pb 220.353	-2.8833	ppb	1.8538	64.3	0.3346
Sb 206.834	5.0659	ppb	1.9000	37.5	4.1728
Se 196.026	6.0771	ppb	3.1971	52.6	3.4237
Sn 189.925	-1.9518	ppb	1.0019	51.3	0.0118
Sr 216.596	84.7404	ppb	0.5402	0.6	494.336
Ti 334.941	0.5370	ppb	0.0917	17.1	103.484

F04092013.wvq. All Data Report 4/10/2013, 11:45:37 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Tl 190.794	-9.6391	ppb	2.1623	22.4	-4.0735
V 292.401	0.3461	ppb	0.3003	86.8	29.0426
Zn 206.200	40.9764	ppb	0.7269	1.8	125.348

**680-88598-a-13-a (Samp)**      **4/9/2013, 5:26:01 PM**      **Rack 1, Tube 18**  
**Weight: 1**      **Volume: 1**      **Dilution: 1**

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1089	ppb	0.3870	355.3	-22.6916
Al 308.215	-1.8063	ppb	4.8024	265.9	31.0340
As 188.980	0.1836	ppb	7.1073	3871.4	-0.8774
B 249.678	2.1167	ppb	0.4975	23.5	61.0216
Ba 389.178	61.2573	ppb	0.5090	0.8	982.140
Be 313.042	-0.0145	ppb	0.0030	20.7	79.1354
Ca 370.602	17801	ppb	24.94	0.1	67284
Cd 226.502	-0.0502	ppb	0.0674	134.3	14.5271
Co 228.615	3.3817	ppb	0.5379	15.9	21.9525
Cr 267.716	-0.0972	ppb	0.2879	296.2	5.9560
Cu 324.754	0.1852	ppb	0.3481	188.0	73.7583
Fe 271.441	2.9691	ppb	3.4223	115.3	-0.2050
K 766.491	2244.80	ppb	0.9481	0.0	281552
Mg 279.078	4089.57	ppb	5.2387	0.1	4550.43
Mn 257.610	7.7477	ppb	0.0234	0.3	797.389
Mo 202.032	1.0715	ppb	0.1126	10.5	2.8521
Na 330.237	13128.9	ppb	128.356	1.0	858.441
Ni 231.604	2.5814	ppb	0.8431	32.7	6.4395
Pb 220.353	-0.1937	ppb	2.1093	1088.7	2.5669
Sb 206.834	2.4857	ppb	2.9338	118.0	2.5228
Se 196.026	-4.6901	ppb	6.3205	134.8	0.6230
Sn 189.925	-5.3906	ppb	2.5790	47.8	-2.0598
Sr 216.596	80.7938	ppb	0.8085	1.0	470.962
Ti 334.941	-0.1407	ppb	0.0521	37.0	-41.0401
Tl 190.794	-7.8856	ppb	3.6138	45.8	-3.2873
V 292.401	0.0306	ppb	0.1472	480.8	20.3018
Zn 206.200	33.7866	ppb	0.6986	2.1	103.967

**mb 680-272071/1-a (Samp)**      **4/9/2013, 5:31:28 PM**      **Rack 1, Tube 19**  
**Weight: 1**      **Volume: 1**      **Dilution: 1**

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1112	ppb	0.4809	432.4	-22.7662
Al 308.215	1.6140	ppb	1.3505	83.7	40.4415
As 188.980	-1.8782	ppb	3.0139	160.5	-1.3572
B 249.678	-0.1027	ppb	1.1214	1091.9	41.9191
Ba 389.178	-0.1649	ppb	0.7190	435.9	-24.1364
Be 313.042	-0.1125	ppb	0.0045	4.0	-73.0692
Ca 370.602	13.62	ppb	0.9269	6.8	-13.16
Cd 226.502	0.0936	ppb	0.1588	169.7	17.6855
Co 228.615	-0.8916	ppb	0.2675	30.0	-11.8258
Cr 267.716	0.7569	ppb	0.1066	14.1	19.5258
Cu 324.754	-0.5362	ppb	0.1211	22.6	95.5172
Fe 271.441	23.0839	ppb	5.9882	25.9	14.4108
K 766.491	18.0237	ppb	0.2416	1.3	4595.85

F04092013.wvq. All Data Report 4/10/2013, 11:45:37 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Mg 279.078	3.8611	ppb	4.6516	120.5	31.0570
Mn 257.610	-0.2383	ppb	0.0135	5.7	32.7151
Mo 202.032	0.5065	ppb	0.9065	179.0	0.9482
Na 330.237	64.5105	ppb	131.095	203.2	2.1321
Ni 231.604	-0.0238	ppb	1.2361	5192.6	-1.1327
Pb 220.353	-2.0751	ppb	4.6044	221.9	1.0084
Sb 206.834	5.6406	ppb	4.9858	88.4	4.3215
Se 196.026	7.6133	ppb	5.0665	66.5	3.7325
Sn 189.925	19.8366	ppb	1.5499	7.8	13.2275
Sr 216.596	-0.3148	ppb	0.1854	58.9	-7.4755
Ti 334.941	0.1522	ppb	0.0203	13.4	2.3786
Tl 190.794	-2.3902	ppb	4.1768	174.7	-0.7056
V 292.401	-0.4238	ppb	0.0737	17.4	7.6985
Zn 206.200	0.4585	ppb	0.2201	48.0	4.7662

ics 680-272071/2-a (Samp) 4/9/2013, 5:36:55 PM Rack 1, Tube 20

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	8.7580	ppb	0.4687	5.4	245.336
Al 308.215	5059.58	ppb	18.8944	0.4	14010.9
As 188.980	98.2706	ppb	7.1795	7.3	33.1117
B 249.678	185.706	ppb	0.9939	0.5	1618.53
Ba 389.178	104.419	ppb	0.2733	0.3	1692.28
Be 313.042	52.7547	ppb	0.1419	0.3	80129.7
Ca 370.602	5057	ppb	13.54	0.3	18183
Cd 226.502	52.6787	ppb	0.1402	0.3	1164.16
Co 228.615	51.9742	ppb	0.4341	0.8	405.481
Cr 267.716	106.478	ppb	0.7522	0.7	1707.87
Cu 324.754	104.283	ppb	0.1905	0.2	3838.26
Fe 271.441	5039.41	ppb	31.8938	0.6	3714.35
K 766.491	5043.62	ppb	13.9744	0.3	629666
Mg 279.078	4947.75	ppb	21.4434	0.4	5481.77
Mn 257.610	545.101	ppb	0.8941	0.2	51577.2
Mo 202.032	102.567	ppb	0.1527	0.1	343.806
Na 330.237	4591.10	ppb	135.669	3.0	295.892
Ni 231.604	103.874	ppb	0.3569	0.3	295.381
Pb 220.353	49.4983	ppb	2.1542	4.4	42.9285
Sb 206.834	50.8849	ppb	1.4683	2.9	33.5604
Se 196.026	99.0676	ppb	14.8701	15.0	27.5826
Sn 189.925	219.021	ppb	5.2065	2.4	133.446
Sr 216.596	101.387	ppb	0.3517	0.3	588.643
Ti 334.941	100.608	ppb	0.1900	0.2	21255.4
Tl 190.794	32.6713	ppb	2.3680	7.2	14.6483
V 292.401	100.359	ppb	0.0792	0.1	2811.89
Zn 206.200	102.634	ppb	1.0743	1.0	308.367

ics 680-272071/3-a (Samp) 4/9/2013, 5:42:22 PM Rack 1, Tube 21

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	26.6316	ppb	0.6207	2.3	784.719
Al 308.215	10280.4	ppb	25.1837	0.2	28431.3

F04092013.wvq. All Data Report 4/10/2013, 11:45:37 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	203.421	ppb	1.0873	0.5	69.3017
B 249.678	376.492	ppb	1.2792	0.3	3237.32
Ba 389.178	211.787	ppb	0.6253	0.3	3454.42
Be 313.042	106.356	ppb	0.1292	0.1	161447
Ca 370.602	10330	ppb	14.56	0.1	37221
Cd 226.502	106.401	ppb	0.4059	0.4	2335.51
Co 228.615	105.151	ppb	0.9635	0.9	825.262
Cr 267.716	213.598	ppb	0.6271	0.3	3418.49
Cu 324.754	209.869	ppb	0.9254	0.4	7607.89
Fe 271.441	10206.5	ppb	8.5363	0.1	7525.44
K 766.491	10149.0	ppb	7.0576	0.1	1264661
Mg 279.078	10050.5	ppb	31.4218	0.3	11107.7
Mn 257.610	1093.22	ppb	1.4202	0.1	103385
Mo 202.032	206.000	ppb	0.9553	0.5	691.260
Na 330.237	9427.26	ppb	281.961	3.0	609.864
Ni 231.604	209.920	ppb	1.3889	0.7	598.032
Pb 220.353	98.5458	ppb	1.7405	1.8	82.7359
Sb 206.834	96.4191	ppb	1.4403	1.5	63.0012
Se 196.026	197.662	ppb	4.0794	2.1	53.2883
Sn 189.925	425.556	ppb	5.3553	1.3	258.100
Sr 216.596	205.088	ppb	1.3198	0.6	1196.54
Ti 334.941	202.764	ppb	0.3910	0.2	42868.5
Tl 190.794	73.0402	ppb	2.1387	2.9	32.3434
V 292.401	204.474	ppb	0.2791	0.1	5709.57
Zn 206.200	208.386	ppb	0.4887	0.2	622.602

CRI (Samp)

4/9/2013, 5:47:49 PM

Rack 1, Tube 22

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	9.5907	ppb	0.5062	5.3	269.551
Al 308.215	209.436	ppb	4.4628	2.1	614.920
As 188.980	21.6373	ppb	2.4666	11.4	6.7377
B 249.678	98.0179	ppb	0.8953	0.9	880.466
Ba 389.178	10.8975	ppb	0.5133	4.7	156.839
Be 313.042	4.2444	ppb	0.0423	1.0	6537.47
Ca 370.602	519.4	ppb	5.375	1.0	1897
Cd 226.502	5.2382	ppb	0.1310	2.5	128.894
Co 228.615	10.0890	ppb	0.4032	4.0	74.8506
Cr 267.716	10.6696	ppb	0.0474	0.4	178.015
Cu 324.754	20.7014	ppb	0.2894	1.4	855.060
Fe 271.441	48.6746	ppb	1.9798	4.1	33.8607
K 766.491	1068.58	ppb	9.7530	0.9	135264
Mg 279.078	515.200	ppb	4.3535	0.8	596.552
Mn 257.610	11.0445	ppb	0.0821	0.7	1100.16
Mo 202.032	11.0369	ppb	1.4538	13.2	36.3817
Na 330.237	964.169	ppb	51.1125	5.3	61.0462
Ni 231.604	43.1549	ppb	0.6640	1.5	121.933
Pb 220.353	8.7982	ppb	1.5551	17.7	9.9701
Sb 206.834	25.4929	ppb	3.5925	14.1	16.9100
Se 196.026	22.8653	ppb	7.4383	32.5	7.7037
Sn 189.925	48.5262	ppb	4.7195	9.7	30.5428
Sr 216.596	9.6846	ppb	0.3295	3.4	49.7119
Ti 334.941	9.9928	ppb	0.0980	1.0	2084.25

F04092013.wvq. All Data Report 4/10/2013, 11:45:37 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Tl 190.794	19.1565	ppb	0.8751	4.6	8.8362
V 292.401	9.8345	ppb	0.1416	1.4	293.054
Zn 206.200	21.0856	ppb	0.5538	2.6	66.0604

ICSA (Samp) 4/9/2013, 5:53:17 PM Rack 1, Tube 23  
 Weight: 1 Volume: 1 Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.3203	ppb	0.5357	167.2	-46.2605
Al 308.215	553841	ppb	842.326	0.2	1529050
As 188.980	-18.6968	ppb	8.4120	45.0	-13.8736
B 249.678	13.3508	ppb	0.6953	5.2	-277.602
Ba 389.178	0.3479	ppb	1.0410	299.2	1182.96
Be 313.042	-0.1717	ppb	0.0068	4.0	-3.5836
Ca 370.602	502512	ppb	674.9	0.1	1866281
Cd 226.502	1.9628	ppb	0.3175	16.2	482.358
Co 228.615	-0.1651	ppb	0.3155	191.1	-2.9226
Cr 267.716	-0.1869	ppb	0.5614	300.3	-96.3235
Cu 324.754	3.4948	ppb	0.0568	1.6	-989.005
Fe 271.441	191530	ppb	229.311	0.1	141142
K 766.491	0.6358	ppb	0.2062	32.4	2406.47
Mg 279.078	537911	ppb	547.345	0.1	594379
Mn 257.610	1.3405	ppb	0.0255	1.9	1721.71
Mo 202.032	-0.9550	ppb	1.6696	174.8	-21.0312
Na 330.237	242.108	ppb	131.635	54.4	-76.2973
Ni 231.604	6.1856	ppb	0.8176	13.2	47.9720
Pb 220.353	-2.0611	ppb	11.5876	562.2	-58.9667
Sb 206.834	-1.4162	ppb	6.0613	428.0	9.1625
Se 196.026	2.7246	ppb	5.1964	190.7	6.9629
Sn 189.925	-2.5118	ppb	8.3432	332.2	-2.0729
Sr 216.596	-1.4022	ppb	0.6444	46.0	103.127
Ti 334.941	6.0705	ppb	0.0334	0.5	1838.43
Tl 190.794	-8.5267	ppb	4.3077	50.5	-21.0448
V 292.401	0.2873	ppb	0.2289	79.7	68.7787
Zn 206.200	8.2895	ppb	0.4915	5.9	50.1653

ICSAB (Samp) 4/9/2013, 5:58:45 PM Rack 1, Tube 24  
 Weight: 1 Volume: 1 Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	221.986	ppb	5.6113	2.5	6634.53
Al 308.215	568698	ppb	11256.7	2.0	1570115
As 188.980	94.6262	ppb	2.9052	3.1	25.1343
B 249.678	13.4164	ppb	1.6858	12.6	-287.669
Ba 389.178	530.987	ppb	11.4331	2.2	9854.48
Be 313.042	519.164	ppb	9.2505	1.8	787562
Ca 370.602	515442	ppb	9252	1.8	1914324
Cd 226.502	1014.27	ppb	19.1129	1.9	22362.6
Co 228.615	500.082	ppb	9.6904	1.9	3928.94
Cr 267.716	521.676	ppb	8.0021	1.5	8243.96
Cu 324.754	577.536	ppb	11.1526	1.9	19549.0
Fe 271.441	196449	ppb	3389.79	1.7	144794
K 766.491	1.9668	ppb	0.3582	18.2	2432.51



F04092013.wvq. All Data Report 4/10/2013, 11:45:37 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Mg 279.078	554000	ppb	10161.7	1.8	612157
Mn 257.610	530.179	ppb	9.7942	1.8	51733.1
Mo 202.032	1095.72	ppb	18.9739	1.7	3669.80
Na 330.237	220.769	ppb	147.762	66.9	-78.3818
Ni 231.604	989.043	ppb	19.4269	2.0	2849.11
Pb 220.353	39.0974	ppb	8.8605	22.7	-28.5220
Sb 206.834	603.792	ppb	10.1899	1.7	395.688
Se 196.026	71.2192	ppb	9.1839	12.9	24.9896
Sn 189.925	1031.60	ppb	14.6285	1.4	621.979
Sr 216.596	-1.6938	ppb	1.3898	82.1	49.8932
Ti 334.941	-0.1031	ppb	0.0411	39.8	579.920
Tl 190.794	81.8540	ppb	13.4629	16.4	18.6655
V 292.401	504.813	ppb	9.7865	1.9	13967.1
Zn 206.200	988.949	ppb	15.7193	1.6	2963.84

## Cont Calib Verif (CCV)

4/9/2013, 6:04:11 PM

Rack 1, Tube 25

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	495.646	ppb	2.5768	0.5	14914.4	99.12917
Al 308.215	5017.31	ppb	9.8347	0.2	14137.1	100.34618
As 188.980	488.840	ppb	10.6509	2.2	168.511	97.76802
B 249.678	507.260	ppb	0.7341	0.1	4372.13	20.29039Q
Ba 389.178	5128.25	ppb	7.6884	0.1	83413.9	102.56508
Be 313.042	516.071	ppb	1.7810	0.3	785382	103.21425
Ca 370.602	5057	ppb	3.037	0.1	18419	101.13599
Cd 226.502	513.646	ppb	0.7887	0.2	11122.7	102.72929
Co 228.615	514.014	ppb	1.6340	0.3	4057.56	102.80278
Cr 267.716	5197.47	ppb	7.1652	0.1	83109.1	103.94939
Cu 324.754	5070.17	ppb	12.7939	0.3	181644	101.40343
Fe 271.441	5038.79	ppb	6.3649	0.1	3770.96	100.77585
K 766.491	10014.8	ppb	20.2102	0.2	1246682	100.14791
Mg 279.078	4975.12	ppb	15.3060	0.3	5503.87	99.50249
Mn 257.610	5324.96	ppb	8.3052	0.2	503201	106.49929
Mo 202.032	497.513	ppb	2.5779	0.5	1664.69	99.50267
Na 330.237	7509.16	ppb	136.421	1.8	488.342	100.12219
Ni 231.604	2588.79	ppb	4.7751	0.2	7378.77	103.55175
Pb 220.353	491.951	ppb	3.7224	0.8	404.581	98.39014
Sb 206.834	932.781	ppb	4.4435	0.5	625.333	37.31125Q
Se 196.026	4908.92	ppb	27.9085	0.6	1278.28	98.17838
Sn 189.925	4957.17	ppb	7.8062	0.2	2993.08	99.14334
Sr 216.596	2521.07	ppb	4.8910	0.2	14742.7	100.84291
Ti 334.941	497.308	ppb	1.2482	0.3	105447	99.46169
Tl 190.794	4992.73	ppb	9.0561	0.2	2213.13	99.85454
V 292.401	4936.10	ppb	14.3015	0.3	138375	98.72205
Zn 206.200	2601.31	ppb	5.8025	0.2	7716.82	104.05259

## Cont Calib Blank (CCB)

4/9/2013, 6:09:36 PM

Rack 1, Tube 26

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.0147	ppb	0.1714	1168.7	-18.9656	0.01467
Al 308.215	0.3917	ppb	6.5389	1669.4	37.0876	0.39169

F04092013.wvq. All Data Report 4/10/2013, 11:45:37 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
As 188.980	-0.5936	ppb	3.6016	606.8	-0.9143	-0.59357
B 249.678	0.8785	ppb	0.5925	67.4	50.3430	0.87851
Ba 389.178	-0.1766	ppb	0.6909	391.1	-24.3390	-0.17664
Be 313.042	-0.0677	ppb	0.0140	20.7	-5.0789	-0.06773
Ca 370.602	4.056	ppb	6.891	169.9	-46.51	4.05604
Cd 226.502	-0.0911	ppb	0.2011	220.8	13.6641	-0.09111
Co 228.615	-0.7277	ppb	0.1940	26.7	-10.5360	-0.72772
Cr 267.716	0.1076	ppb	0.4082	379.3	9.1480	0.10762
Cu 324.754	-0.1790	ppb	0.1925	107.6	108.333	-0.17896
Fe 271.441	6.0970	ppb	7.3004	119.7	1.9116	6.09702
K 766.491	-2.5572	ppb	0.3462	13.5	2035.93	-2.55720
Mg 279.078	4.5001	ppb	5.8602	130.2	31.8165	4.50011
Mn 257.610	-0.0914	ppb	0.1120	122.5	46.5773	-0.09140
Mo 202.032	0.9163	ppb	0.7926	86.5	2.3296	0.91633
Na 330.237	57.7735	ppb	68.4966	118.6	1.6986	57.77348
Ni 231.604	-0.0166	ppb	1.8538	11198.7	-1.1133	-0.01655
Pb 220.353	-1.6033	ppb	4.4382	276.8	1.3994	-1.60327
Sb 206.834	4.3262	ppb	2.1736	50.2	3.5236	4.32622
Se 196.026	4.5273	ppb	3.6240	80.0	2.9309	4.52728
Sn 189.925	-3.8139	ppb	4.3366	113.7	-1.0460	-3.81390
Sr 216.596	-0.6825	ppb	0.8375	122.7	-9.6554	-0.68251
Ti 334.941	-0.0980	ppb	0.0057	5.8	-50.5604	-0.09800
Tl 190.794	-6.6922	ppb	3.9506	59.0	-2.6066	-6.69223
V 292.401	-0.1834	ppb	0.2260	123.3	14.3966	-0.18338
Zn 206.200	-0.1766	ppb	0.2529	143.2	2.8801	-0.17661

680-89004-b-1-a (Samp)

4/9/2013, 6:15:02 PM

Rack 1, Tube 27

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-3.0544	ppb	0.3462	11.3	-40.1508
Al 308.215	176133	ppb	422.726	0.2	486295
As 188.980	44.5461	ppb	4.9802	11.2	14.3406
B 249.678	41.6131	ppb	0.6061	1.5	-50.6436
Ba 389.178	987.494	ppb	3.7870	0.4	16283.0
Be 313.042	7.5299	ppb	0.0254	0.3	11704.1
Ca 370.602	9263	ppb	17.21	0.2	-421.4
Cd 226.502	-1.1498	ppb	0.3627	31.5	405.322
Co 228.615	230.850	ppb	1.4510	0.6	1838.16
Cr 267.716	235.206	ppb	0.9389	0.4	3693.78
Cu 324.754	78.0034	ppb	0.7099	0.9	2961.20
Fe 271.441	200030	ppb	794.946	0.4	147418
K 766.491	14822.0	ppb	38.1488	0.3	1845687
Mg 279.078	10290.8	ppb	7.2211	0.1	10690.5
Mn 257.610	26369.6	ppb	158.673	0.6	2491809
Mo 202.032	6.7573	ppb	1.0182	15.1	-1.4961
Na 330.237	441.382	ppb	18.8338	4.3	-75.1001
Ni 231.604	122.035	ppb	1.9882	1.6	358.719
Pb 220.353	210.355	ppb	1.6290	0.8	156.893
Sb 206.834	4.0343	ppb	2.6349	65.3	8.3985
Se 196.026	9.0144	ppb	8.6106	95.5	6.1445
Sn 189.925	25.5974	ppb	5.8405	22.8	16.9865
Sr 216.596	77.1544	ppb	0.7552	1.0	538.708
Ti 334.941	1168.29	ppb	3.6433	0.3	247039

F04092013.wvq. All Data Report 4/10/2013, 11:45:37 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Tl 190.794	-23.4752	ppb	3.6652	15.6	-18.3849
V 292.401	312.580	ppb	0.6025	0.2	8790.26
Zn 206.200	277.610	ppb	1.7500	0.6	832.723

**680-89004-b-2-a (Samp)**      **4/9/2013, 6:20:28 PM**      **Rack 1, Tube 28**  
**Weight: 1**      **Volume: 1**      **Dilution: 1**

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.7183b	ppb	0.4012	23.4	27.7635
Al 308.215	247602b	ppb	1567.33	0.6	683594
As 188.980	27.4490b	ppb	7.1210	25.9	8.2767
B 249.678	78.1086b	ppb	2.0521	2.6	-3.5662
Ba 389.178	1628.53b	ppb	9.3200	0.6	26853.5
Be 313.042	7.8549b	ppb	0.0507	0.6	12221.6
Ca 370.602	12727b	ppb	29.50	0.2	-8315
Cd 226.502	-1.7360b	ppb	0.4324	24.9	634.439
Co 228.615	329.039b	ppb	3.4171	1.0	2616.64
Cr 267.716	267.620b	ppb	2.2386	0.8	4163.37
Cu 324.754	152.210b	ppb	1.7670	1.2	5661.94
Fe 271.441	317648b	ppb	1673.67	0.5	234100
K 766.491	30040.4b	ppb	119.609	0.4	3738427
Mg 279.078	17506.4b	ppb	120.882	0.7	18255.4
Mn 257.610	37945.8xb	ppb	133.855	0.4	3585725
Mo 202.032	5.8778b	ppb	1.8555	31.6	-18.4162
Na 330.237	605.299b	ppb	27.7438	4.6	-120.117
Ni 231.604	159.305b	ppb	5.1013	3.2	472.060
Pb 220.353	293.956b	ppb	6.9993	2.4	217.847
Sb 206.834	-1.6735b	ppb	4.8833	291.8	7.9219
Se 196.026	6.9997b	ppb	15.6095	223.0	6.0222
Sn 189.925	24.4412b	ppb	1.6241	6.6	16.3106
Sr 216.596	132.371b	ppb	2.3805	1.8	917.460
Ti 334.941	1226.55b	ppb	6.7853	0.6	259371
Tl 190.794	-30.2747b	ppb	8.4145	27.8	-26.5584
V 292.401	352.181b	ppb	2.5189	0.7	9902.49
Zn 206.200	243.325b	ppb	1.4911	0.6	733.673

**680-89004-b-3-a (Samp)**      **4/9/2013, 6:25:54 PM**      **Rack 1, Tube 29**  
**Weight: 1**      **Volume: 1**      **Dilution: 1**

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.1480b	ppb	0.8302	72.3	-106.231
Al 308.215	271688b	ppb	21773.2	8.0	750093
As 188.980	-2.2363b	ppb	1.0778	48.2	-1.7855
B 249.678	143.298b	ppb	6.7145	4.7	630.466
Ba 389.178	404.575b	ppb	34.3439	8.5	6923.70
Be 313.042	8.4148b	ppb	0.6942	8.3	13042.2
Ca 370.602	4601b	ppb	731.5	15.9	-33439
Cd 226.502	-1.7492b	ppb	2.1972	125.6	562.014
Co 228.615	35.3842b	ppb	2.5147	7.1	303.853
Cr 267.716	374.244b	ppb	29.5404	7.9	5844.47
Cu 324.754	151.620b	ppb	12.5834	8.3	5645.14
Fe 271.441	281119b	ppb	22509.8	8.0	207166
K 766.491	44375.2xb	ppb	2959.00	6.7	5521751

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Mg 279.078	25364.2b	ppb	1913.84	7.5	27131.6
Mn 257.610	1098.01b	ppb	87.1281	7.9	104192
Mo 202.032	-0.0754b	ppb	1.3844	1836.7	-33.4486
Na 330.237	254.715b	ppb	351.924	138.2	-129.816
Ni 231.604	142.588b	ppb	13.2204	9.3	422.778
Pb 220.353	30.9972b	ppb	7.2556	23.4	-2.4172
Sb 206.834	0.3265b	ppb	9.6490	2955.1	8.3536
Se 196.026	11.4767b	ppb	7.3942	64.4	1.3133
Sn 189.925	26.1727b	ppb	4.5061	17.2	17.5108
Sr 216.596	39.4801b	ppb	4.2027	10.6	354.373
Ti 334.941	1769.39b	ppb	141.562	8.0	374147
Tl 190.794	-1.8401b	ppb	1.0304	56.0	-12.8876
V 292.401	288.176b	ppb	22.7372	7.9	8168.43
Zn 206.200	248.572b	ppb	19.1583	7.7	748.318

680-89004-b-4-a (Samp) 4/9/2013, 6:32:43 PM Rack 1, Tube 30

Weight: 1 Volume: 1 Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-5.6494	ppb	0.9309	16.5	-274.114
Al 308.215	218749	ppb	160.107	0.1	603916
As 188.980	44.8055	ppb	2.3056	5.1	14.1722
B 249.678	74.4530	ppb	0.6592	0.9	-484.298
Ba 389.178	866.805	ppb	0.6093	0.1	14679.5
Be 313.042	14.9769	ppb	0.0049	0.0	23006.9
Ca 370.602	3108	ppb	23.21	0.7	-81268
Cd 226.502	-3.7733	ppb	0.4252	11.3	983.335
Co 228.615	41.1143	ppb	0.2032	0.5	338.536
Cr 267.716	316.608	ppb	1.2128	0.4	4798.74
Cu 324.754	305.914	ppb	1.7618	0.6	11285.5
Fe 271.441	513277	ppb	197.367	0.0	378251
K 766.491	23015.3	ppb	13.0067	0.1	2864818
Mg 279.078	12598.1	ppb	33.1151	0.3	12224.7
Mn 257.610	2368.23	ppb	0.7253	0.0	224423
Mo 202.032	2.4080	ppb	1.3179	54.7	-55.0191
Na 330.237	-102.666	ppb	30.5651	29.8	-254.741
Ni 231.604	222.414	ppb	0.7008	0.3	663.375
Pb 220.353	170.581	ppb	4.4899	2.6	117.559
Sb 206.834	-5.8136	ppb	9.1081	156.7	11.3079
Se 196.026	2.1944	ppb	8.0157	365.3	-5.0400
Sn 189.925	23.8403	ppb	3.5945	15.1	15.8962
Sr 216.596	375.719	ppb	0.9070	0.2	2436.84
Ti 334.941	718.664	ppb	0.3181	0.0	151976
Tl 190.794	-6.8194	ppb	8.0602	118.2	-24.3327
V 292.401	323.787	ppb	0.3045	0.1	9207.66
Zn 206.200	285.610	ppb	0.3650	0.1	863.644

680-89004-b-5-a (Samp) 4/9/2013, 6:38:09 PM Rack 1, Tube 31

Weight: 1 Volume: 1 Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-2.7339b	ppb	0.4537	16.6	-143.733
Al 308.215	255993b	ppb	219.549	0.1	706754

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	17.4775b	ppb	6.2423	35.7	4.9691
B 249.678	148.272b	ppb	1.0546	0.7	601.051
Ba 389.178	538.597b	ppb	1.0290	0.2	9158.00
Be 313.042	13.0911b	ppb	0.0220	0.2	20074.9
Ca 370.602	1697b	ppb	23.87	1.4	-50127
Cd 226.502	-2.3191b	ppb	0.2412	10.4	614.419
Co 228.615	124.599b	ppb	0.6603	0.5	1018.28
Cr 267.716	294.305b	ppb	0.9400	0.3	4554.79
Cu 324.754	196.570b	ppb	0.9134	0.5	7276.36
Fe 271.441	313646b	ppb	503.129	0.2	231139
K 766.491	49423.7xb	ppb	72.7722	0.1	6149656
Mg 279.078	35460.7b	ppb	34.7491	0.1	38182.7
Mn 257.610	5404.01b	ppb	9.4254	0.2	511108
Mo 202.032	0.3665b	ppb	0.8808	240.3	-36.0855
Na 330.237	375.953b	ppb	115.819	30.8	-141.779
Ni 231.604	278.406b	ppb	1.0273	0.4	812.023
Pb 220.353	44.2384b	ppb	10.5541	23.9	10.0947
Sb 206.834	0.0929b	ppb	11.1758	12036.2	7.3642
Se 196.026	5.0191b	ppb	10.7024	213.2	-0.1112
Sn 189.925	20.9731b	ppb	2.1337	10.2	14.5522
Sr 216.596	28.6431b	ppb	1.1670	4.1	300.050
Ti 334.941	2445.74b	ppb	2.8890	0.1	517152
Tl 190.794	-6.2765b	ppb	4.3041	68.6	-15.4854
V 292.401	197.655b	ppb	0.1711	0.1	5632.73
Zn 206.200	380.667b	ppb	2.5791	0.7	1142.35

680-89004-b-6-a (Samp)

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Rack 1, Tube 32

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-5.4272	ppb	0.3158	5.8	-187.685
Al 308.215	270433	ppb	231.770	0.1	746621
As 188.980	17.1100	ppb	4.3101	25.2	4.8200
B 249.678	70.7066	ppb	1.2186	1.7	-85.4177
Ba 389.178	616.147	ppb	2.3286	0.4	10401.8
Be 313.042	12.5742	ppb	0.0147	0.1	19342.5
Ca 370.602	2788	ppb	23.97	0.9	-47854
Cd 226.502	-2.1018	ppb	0.1129	5.4	641.205
Co 228.615	144.295	ppb	0.4314	0.3	1151.90
Cr 267.716	248.454	ppb	0.2960	0.1	3823.59
Cu 324.754	145.006	ppb	0.5293	0.4	5438.37
Fe 271.441	324256	ppb	497.844	0.2	238960
K 766.491	30700.3	ppb	47.8932	0.2	3820770
Mg 279.078	19482.1	ppb	14.6821	0.1	20459.5
Mn 257.610	13307.4	ppb	8.5269	0.1	1257803
Mo 202.032	1.8352	ppb	1.2721	69.3	-32.4367
Na 330.237	371.969	ppb	96.4712	25.9	-135.427
Ni 231.604	218.333	ppb	1.0643	0.5	640.857
Pb 220.353	103.493	ppb	2.0257	2.0	57.5901
Sb 206.834	1.8467	ppb	4.5972	248.9	10.7164
Se 196.026	6.0935	ppb	17.0417	279.7	1.3237
Sn 189.925	18.9535	ppb	4.0742	21.5	12.9434
Sr 216.596	65.7047	ppb	0.6387	1.0	525.663
Ti 334.941	838.503	ppb	1.0018	0.1	177308

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Tl 190.794	-9.9310	ppb	2.8145	28.3	-18.5577
V 292.401	284.281	ppb	0.5608	0.2	8042.26
Zn 206.200	416.539	ppb	0.8272	0.2	1248.86

**680-89004-b-7-a (Samp)**      **4/9/2013, 6:49:04 PM**      **Rack 1, Tube 33**  
**Weight: 1**      **Volume: 1**      **Dilution: 1**

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-3.3560	ppb	0.8253	24.6	-120.350
Al 308.215	189344	ppb	173.612	0.1	522766
As 188.980	0.5239	ppb	5.4387	1038.1	-0.7274
B 249.678	64.1509	ppb	0.4971	0.8	229.698
Ba 389.178	708.452	ppb	0.9535	0.1	11721.0
Be 313.042	7.6352	ppb	0.0103	0.1	11779.9
Ca 370.602	2396	ppb	11.13	0.5	-19635
Cd 226.502	-1.0807	ppb	0.3840	35.5	327.738
Co 228.615	119.030	ppb	0.5763	0.5	966.353
Cr 267.716	176.881	ppb	0.3581	0.2	2762.10
Cu 324.754	74.1044	ppb	0.8329	1.1	2820.85
Fe 271.441	160433	ppb	154.632	0.1	118232
K 766.491	27300.9	ppb	4.3569	0.0	3397920
Mg 279.078	21660.6	ppb	15.5393	0.1	23430.4
Mn 257.610	8502.79	ppb	5.8595	0.1	803684
Mo 202.032	0.2824	ppb	0.9396	332.7	-17.8681
Na 330.237	202.485	ppb	98.7167	48.8	-78.3409
Ni 231.604	189.404	ppb	1.7131	0.9	548.870
Pb 220.353	41.7749	ppb	4.4685	10.7	16.0730
Sb 206.834	5.6658	ppb	3.4846	61.5	6.6537
Se 196.026	0.7504	ppb	12.9924	1731.3	1.5787
Sn 189.925	23.4941	ppb	2.0925	8.9	15.9469
Sr 216.596	67.0536	ppb	0.9153	1.4	458.770
Ti 334.941	2044.23	ppb	1.6793	0.1	432240
Tl 190.794	-15.4955	ppb	2.8505	18.4	-13.1400
V 292.401	163.685	ppb	0.1696	0.1	4644.12
Zn 206.200	312.415	ppb	2.0018	0.6	935.859

**680-89004-b-8-a (Samp)**      **4/9/2013, 6:54:31 PM**      **Rack 1, Tube 34**  
**Weight: 1**      **Volume: 1**      **Dilution: 1**

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.1953b	ppb	0.5259	44.0	-88.1247
Al 308.215	99292.0b	ppb	131.935	0.1	274142
As 188.980	91.8212b	ppb	10.9867	12.0	19.9899
B 249.678	126.894b	ppb	0.7148	0.6	570.686
Ba 389.178	498.661b	ppb	0.4105	0.1	9217.66
Be 313.042	6.4183b	ppb	0.0141	0.2	10141.7
Ca 370.602	826389xb	ppb	1234	0.1	3081853
Cd 226.502	53.3206b	ppb	0.1820	0.3	1674.00
Co 228.615	104.864b	ppb	0.2888	0.3	838.860
Cr 267.716	235.093b	ppb	0.8944	0.4	3640.79
Cu 324.754	731.444b	ppb	0.8725	0.1	24224.9
Fe 271.441	246396b	ppb	125.400	0.1	181580
K 766.491	40975.0xb	ppb	21.3100	0.1	5098782

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Mg 279.078	464334b	ppb	1186.05	0.3	512800
Mn 257.610	4337.43b	ppb	2.5672	0.1	411305
Mo 202.032	8.6201b	ppb	0.6662	7.7	-1.7599
Na 330.237	2805.62b	ppb	193.987	6.9	74.2620
Ni 231.604	147.828b	ppb	2.7673	1.9	451.897
Pb 220.353	629.269b	ppb	5.7207	0.9	511.860
Sb 206.834	7.8293b	ppb	7.3922	94.4	19.9062
Se 196.026	-8.6408b	ppb	14.1836	164.1	2.7620
Sn 189.925	55.1941b	ppb	5.5764	10.1	31.7682
Sr 216.596	374.862b	ppb	1.3821	0.4	2344.85
Ti 334.941	820.419b	ppb	0.7881	0.1	174373
Tl 190.794	-15.4496b	ppb	2.1840	14.1	-23.7939
V 292.401	172.165b	ppb	0.2059	0.1	4898.00
Zn 206.200	8622.40b	ppb	7.3208	0.1	25653.2

680-89004-b-9-a (Samp) 4/9/2013, 6:59:59 PM Rack 1, Tube 35

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.0436b	ppb	0.7731	74.1	-48.0723
Al 308.215	121520b	ppb	4758.41	3.9	335511
As 188.980	26.6874b	ppb	3.8407	14.4	6.8134
B 249.678	130.813b	ppb	4.4171	3.4	639.135
Ba 389.178	1310.15b	ppb	51.3597	3.9	21609.5
Be 313.042	9.6179b	ppb	0.4101	4.3	14809.4
Ca 370.602	111678b	ppb	3944	3.5	380669
Cd 226.502	0.4055b	ppb	1.1283	278.3	501.592
Co 228.615	302.896b	ppb	10.9775	3.6	2405.25
Cr 267.716	243.906b	ppb	9.0748	3.7	3798.09
Cu 324.754	264.497b	ppb	10.5640	4.0	9386.17
Fe 271.441	232651b	ppb	8891.31	3.8	171460
K 766.491	46738.4xb	ppb	1663.63	3.6	5815459
Mg 279.078	33685.3b	ppb	1324.18	3.9	36482.4
Mn 257.610	11491.3b	ppb	448.297	3.9	1086152
Mo 202.032	0.9393b	ppb	1.3835	147.3	-25.6126
Na 330.237	1246.62b	ppb	43.7769	3.5	-35.5158
Ni 231.604	171.666b	ppb	5.6392	3.3	502.865
Pb 220.353	156.914b	ppb	12.2880	7.8	118.187
Sb 206.834	0.4927b	ppb	3.4525	700.8	8.4250
Se 196.026	12.0477b	ppb	11.7492	97.5	4.0403
Sn 189.925	25.0533b	ppb	6.1317	24.5	16.2404
Sr 216.596	247.055b	ppb	10.7878	4.4	1555.96
Ti 334.941	972.061b	ppb	37.1795	3.8	205656
Tl 190.794	-12.6588b	ppb	5.9119	46.7	-15.4227
V 292.401	167.098b	ppb	6.1601	3.7	4735.50
Zn 206.200	726.299b	ppb	27.5716	3.8	2167.95

680-89004-b-10-a (Samp) 4/9/2013, 7:05:27 PM Rack 1, Tube 36

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.8014	ppb	0.6079	33.7	-78.7100
Al 308.215	119233	ppb	12.5270	0.0	329205

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	31.9999	ppb	3.3153	10.4	10.0447
B 249.678	36.6766	ppb	0.6234	1.7	-62.2974
Ba 389.178	371.460	ppb	1.4168	0.4	6242.46
Be 313.042	3.7134	ppb	0.0127	0.3	5878.75
Ca 370.602	8522	ppb	9.284	0.1	-1289
Cd 226.502	-1.3699	ppb	0.4294	31.3	369.052
Co 228.615	183.563	ppb	0.4651	0.3	1459.01
Cr 267.716	206.979	ppb	0.2720	0.1	3226.68
Cu 324.754	73.8203	ppb	0.6215	0.8	2810.48
Fe 271.441	186189	ppb	199.047	0.1	137216
K 766.491	11382.5	ppb	16.6787	0.1	1418035
Mg 279.078	6369.50	ppb	8.0825	0.1	6431.42
Mn 257.610	7398.10	ppb	5.8647	0.1	699286
Mo 202.032	5.1155	ppb	1.6824	32.9	-5.8718
Na 330.237	995.779	ppb	69.6982	7.0	-29.7387
Ni 231.604	65.5811	ppb	1.2193	1.9	196.903
Pb 220.353	145.810	ppb	8.3963	5.8	109.530
Sb 206.834	1.6655	ppb	3.8007	228.2	6.8741
Se 196.026	0.5413	ppb	6.7583	1248.6	0.5609
Sn 189.925	25.3006	ppb	1.8218	7.2	16.7186
Sr 216.596	55.5812	ppb	0.9332	1.7	406.361
Ti 334.941	796.271	ppb	1.3917	0.2	168371
Tl 190.794	-10.0852	ppb	10.6139	105.2	-11.7166
V 292.401	244.489	ppb	0.7422	0.3	6909.22
Zn 206.200	173.982	ppb	0.4653	0.3	524.363

Cont Calib Verif (CCV)

4/9/2013, 7:10:53 PM

Rack 1, Tube 37

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	495.410	ppb	1.4753	0.3	14907.3	99.08199
Al 308.215	4987.24	ppb	4.1023	0.1	14053.9	99.74483
As 188.980	489.718	ppb	10.5140	2.1	168.814	97.94355
B 249.678	506.817	ppb	0.5414	0.1	4368.31	20.27266Q
Ba 389.178	5126.11	ppb	7.3399	0.1	83379.0	102.52222
Be 313.042	515.434	ppb	0.5940	0.1	784412	103.08683
Ca 370.602	5047	ppb	10.88	0.2	18380	100.93676
Cd 226.502	513.948	ppb	0.7179	0.1	11129.2	102.78963
Co 228.615	513.914	ppb	2.6134	0.5	4056.75	102.78288
Cr 267.716	5203.10	ppb	4.9391	0.1	83199.3	104.06209
Cu 324.754	5088.21	ppb	19.8781	0.4	182290	101.76417
Fe 271.441	5042.92	ppb	2.9069	0.1	3773.91	100.85835
K 766.491	10034.0	ppb	25.6712	0.3	1249076	100.34029
Mg 279.078	4935.17	ppb	17.3380	0.4	5459.66	98.70341
Mn 257.610	5331.98	ppb	4.8435	0.1	503864	106.63966
Mo 202.032	494.467	ppb	2.4825	0.5	1654.44	98.89344
Na 330.237	7488.49	ppb	161.470	2.2	486.977	99.84648
Ni 231.604	2587.58	ppb	1.2246	0.0	7375.29	103.50304
Pb 220.353	499.905	ppb	4.3084	0.9	411.173	99.98096
Sb 206.834	925.114	ppb	4.9489	0.5	620.439	37.00454Q
Se 196.026	4906.03	ppb	8.6327	0.2	1277.53	98.12061
Sn 189.925	4965.93	ppb	14.8475	0.3	2998.37	99.31870
Sr 216.596	2513.40	ppb	2.5734	0.1	14697.5	100.53582
Ti 334.941	497.575	ppb	0.5471	0.1	105503	99.51494



F04092013.wvq. All Data Report 4/10/2013, 11:45:37 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Tl 190.794	4984.07	ppb	11.5924	0.2	2209.29	99.68140
V 292.401	4928.78	ppb	8.8053	0.2	138169	98.57568
Zn 206.200	2597.26	ppb	2.6452	0.1	7704.76	103.89024

Cont Calib Blank (CCB)

4/9/2013, 7:16:19 PM

Rack 1, Tube 38

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	-0.5496	ppb	0.2884	52.5	-35.9668	-0.54961
Al 308.215	-6.1240	ppb	1.9130	31.2	19.0999	-6.12402
As 188.980	-2.5789	ppb	5.0688	196.6	-1.5986	-2.57889
B 249.678	0.6207	ppb	0.2204	35.5	48.1430	0.62069
Ba 389.178	0.1663	ppb	0.2264	136.2	-18.7757	0.16625
Be 313.042	-0.0719	ppb	0.0021	3.0	-11.4097	-0.07186
Ca 370.602	-3.133	ppb	1.405	44.8	-72.99	-3.13321
Cd 226.502	-0.0806	ppb	0.1061	131.5	13.8823	-0.08063
Co 228.615	-0.9165	ppb	0.5832	63.6	-12.0299	-0.91648
Cr 267.716	0.1505	ppb	0.4859	322.8	9.8372	0.15054
Cu 324.754	-0.2558	ppb	0.0386	15.1	105.609	-0.25578
Fe 271.441	3.8972	ppb	6.1981	159.0	0.2813	3.89723
K 766.491	-2.0965	ppb	0.1524	7.3	2093.14	-2.09654
Mg 279.078	-5.1653	ppb	4.0478	78.4	21.1386	-5.16526
Mn 257.610	-0.0608	ppb	0.0386	63.4	49.4476	-0.06085
Mo 202.032	0.7854	ppb	0.2493	31.7	1.8893	0.78537
Na 330.237	93.2360	ppb	34.1416	36.6	4.0253	93.23602
Ni 231.604	0.9626	ppb	1.8312	190.2	1.6780	0.96261
Pb 220.353	-0.9972	ppb	1.6274	163.2	1.9018	-0.99715
Sb 206.834	1.9933	ppb	2.1819	109.5	2.0432	1.99327
Se 196.026	4.1117	ppb	6.2002	150.8	2.8229	4.11170
Sn 189.925	-0.6937	ppb	3.2661	470.8	0.8372	-0.69369
Sr 216.596	-0.0109	ppb	0.7974	7343.7	-5.7394	-0.01086
Ti 334.941	-0.0685	ppb	0.0270	39.4	-44.3351	-0.06851
Tl 190.794	-5.7212	ppb	4.3735	76.4	-2.1777	-5.72121
V 292.401	-0.2427	ppb	0.1352	55.7	12.6823	-0.24268
Zn 206.200	0.3773	ppb	0.6038	160.0	4.5265	0.37730

680-89004-b-11-a (Samp)

4/9/2013, 7:21:44 PM

Rack 1, Tube 39

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.5107	ppb	0.4797	93.9	-78.0251
Al 308.215	160586	ppb	1532.53	1.0	443367
As 188.980	20.5000	ppb	11.8642	57.9	5.9301
B 249.678	49.5818	ppb	0.9366	1.9	-91.7353
Ba 389.178	400.314	ppb	4.0796	1.0	6784.54
Be 313.042	3.9949	ppb	0.0585	1.5	6333.33
Ca 370.602	15052	ppb	46.35	0.3	12255
Cd 226.502	-1.8500	ppb	0.6555	35.4	482.843
Co 228.615	34.0495	ppb	0.4975	1.5	275.168
Cr 267.716	209.349	ppb	2.3664	1.1	3223.76
Cu 324.754	87.0994	ppb	0.4675	0.5	3297.17
Fe 271.441	246521	ppb	2301.28	0.9	181670
K 766.491	19634.2	ppb	167.341	0.9	2444402

F04092013.wvq. All Data Report 4/10/2013, 11:45:37 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Mg 279.078	8810.68	ppb	80.9586	0.9	8939.37
Mn 257.610	625.762	ppb	6.5053	1.0	59480.2
Mo 202.032	3.7158	ppb	0.6074	16.3	-17.7110
Na 330.237	1308.89	ppb	95.2088	7.3	-35.4226
Ni 231.604	82.1585	ppb	2.1694	2.6	247.883
Pb 220.353	60.8234	ppb	7.0163	11.5	34.4108
Sb 206.834	2.8081	ppb	1.1059	39.4	9.5851
Se 196.026	0.8125	ppb	1.9009	234.0	-1.4215
Sn 189.925	25.0839	ppb	3.3236	13.2	16.5034
Sr 216.596	86.9732	ppb	0.6943	0.8	619.104
Ti 334.941	500.765	ppb	5.0701	1.0	105898
Tl 190.794	-5.3812	ppb	5.7083	106.1	-12.8661
V 292.401	281.436	ppb	2.3455	0.8	7970.89
Zn 206.200	178.608	ppb	1.7191	1.0	539.604

680-89004-b-12-a (Samp) 4/9/2013, 7:27:10 PM Rack 1, Tube 40

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.6688	ppb	0.5520	82.5	-100.761
Al 308.215	242393	ppb	137.108	0.1	669211
As 188.980	37.9114	ppb	8.3377	22.0	11.6066
B 249.678	47.5655	ppb	1.1479	2.4	-392.122
Ba 389.178	284.048	ppb	1.2449	0.4	5043.96
Be 313.042	5.6765	ppb	0.0040	0.1	8963.69
Ca 370.602	30416	ppb	14.37	0.0	47645
Cd 226.502	-2.0504	ppb	0.5247	25.6	736.481
Co 228.615	91.2548	ppb	1.3108	1.4	726.026
Cr 267.716	267.572	ppb	0.9280	0.3	4088.24
Cu 324.754	99.6493	ppb	0.8088	0.8	3761.04
Fe 271.441	371867	ppb	148.340	0.0	274045
K 766.491	27008.7	ppb	19.1873	0.1	3361689
Mg 279.078	13072.8	ppb	2.1306	0.0	13229.1
Mn 257.610	1483.51	ppb	0.3292	0.0	140671
Mo 202.032	4.2377	ppb	1.5204	35.9	-30.9023
Na 330.237	1561.70	ppb	61.0924	3.9	-76.1524
Ni 231.604	108.528	ppb	0.2140	0.2	330.534
Pb 220.353	68.6076	ppb	10.7513	15.7	31.3790
Sb 206.834	-0.7523	ppb	8.5793	1140.4	11.2889
Se 196.026	7.2833	ppb	16.2430	223.0	-1.3456
Sn 189.925	30.4536	ppb	5.4994	18.1	19.6593
Sr 216.596	146.098	ppb	1.0778	0.7	1025.51
Ti 334.941	290.897	ppb	0.2129	0.1	61550.2
Tl 190.794	0.7484	ppb	5.0708	677.6	-15.9849
V 292.401	403.682	ppb	0.8444	0.2	11425.7
Zn 206.200	246.387	ppb	1.5054	0.6	743.939

680-89004-b-13-a (Samp) 4/9/2013, 7:32:36 PM Rack 1, Tube 41

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0243	ppb	0.9465	3893.3	-80.7946
Al 308.215	205555	ppb	228.987	0.1	567508

F04092013.wvq. All Data Report 4/10/2013, 11:45:37 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	34.4929	ppb	21.1843	61.4	10.4534
B 249.678	46.9408	ppb	1.8344	3.9	-406.160
Ba 389.178	355.206	ppb	0.7422	0.2	6201.26
Be 313.042	5.0421	ppb	0.0238	0.5	7991.18
Ca 370.602	28793	ppb	14.18	0.0	40910
Cd 226.502	-2.4075	ppb	0.2314	9.6	733.383
Co 228.615	43.5245	ppb	1.0500	2.4	350.627
Cr 267.716	289.331	ppb	2.4385	0.8	4435.00
Cu 324.754	89.6565	ppb	0.6420	0.7	3408.27
Fe 271.441	375365	ppb	383.541	0.1	276621
K 766.491	22371.8	ppb	11.9268	0.1	2784920
Mg 279.078	11062.1	ppb	33.3128	0.3	10992.9
Mn 257.610	1877.90	ppb	2.0432	0.1	177934
Mo 202.032	4.1358	ppb	0.2754	6.7	-32.1169
Na 330.237	1506.06	ppb	109.124	7.2	-82.2718
Ni 231.604	89.6258	ppb	0.2173	0.2	276.810
Pb 220.353	98.9696	ppb	6.3933	6.5	60.4045
Sb 206.834	-4.6052	ppb	4.0586	88.1	8.9731
Se 196.026	5.5034	ppb	13.1616	239.2	-1.9333
Sn 189.925	30.6726	ppb	2.1068	6.9	19.8236
Sr 216.596	135.491	ppb	0.5639	0.4	964.575
Ti 334.941	397.400	ppb	0.3225	0.1	84067.9
Tl 190.794	-8.2534	ppb	3.0795	37.3	-19.7396
V 292.401	390.572	ppb	0.2428	0.1	11056.7
Zn 206.200	179.867	ppb	1.5445	0.9	546.142

680-89004-b-14-a (Samp)

4/9/2013, 7:38:02 PM

Rack 1, Tube 42

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.2271	ppb	0.7368	60.0	-52.6263
Al 308.215	148175	ppb	124.454	0.1	409108
As 188.980	15.7390	ppb	12.9329	82.2	3.9679
B 249.678	31.8379	ppb	0.6829	2.1	-79.1690
Ba 389.178	473.488	ppb	1.1467	0.2	7894.60
Be 313.042	2.5914	ppb	0.0051	0.2	4200.20
Ca 370.602	45627	ppb	39.82	0.1	141092
Cd 226.502	-0.8253	ppb	0.2234	27.1	360.462
Co 228.615	163.853	ppb	0.8755	0.5	1300.15
Cr 267.716	189.685	ppb	0.3062	0.2	2957.45
Cu 324.754	100.388	ppb	0.6758	0.7	3658.60
Fe 271.441	175249	ppb	113.425	0.1	129153
K 766.491	10234.6	ppb	6.2106	0.1	1275239
Mg 279.078	9352.55	ppb	11.7475	0.1	9765.74
Mn 257.610	8823.74	ppb	17.8632	0.2	833978
Mo 202.032	5.2356	ppb	1.3474	25.7	-3.7553
Na 330.237	662.333	ppb	130.873	19.8	-44.7445
Ni 231.604	64.9063	ppb	2.1627	3.3	194.467
Pb 220.353	155.430	ppb	2.8896	1.9	114.527
Sb 206.834	3.1506	ppb	7.2462	230.0	8.0466
Se 196.026	1.8114	ppb	8.5679	473.0	1.5541
Sn 189.925	26.6685	ppb	5.8085	21.8	17.3513
Sr 216.596	85.2581	ppb	1.0420	1.2	578.240
Ti 334.941	571.104	ppb	0.4484	0.1	120800

F04092013.wvq. All Data Report 4/10/2013, 11:45:37 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Tl 190.794	-10.9236	ppb	2.4785	22.7	-12.4262
V 292.401	262.511	ppb	0.6625	0.3	7409.98
Zn 206.200	223.161	ppb	0.2984	0.1	670.450

680-89004-b-15-a (Samp) 4/9/2013, 7:43:29 PM Rack 1, Tube 43

Weight: 1 Volume: 1 Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1979	ppb	0.3578	180.8	-22.2727
Al 308.215	170897	ppb	363.778	0.2	471843
As 188.980	9.6122	ppb	5.7206	59.5	2.2937
B 249.678	64.0662	ppb	0.9228	1.4	312.024
Ba 389.178	387.846	ppb	0.7018	0.2	6448.29
Be 313.042	2.2780	ppb	0.0081	0.4	3700.52
Ca 370.602	15802	ppb	7.564	0.0	37425
Cd 226.502	-0.7365	ppb	0.2882	39.1	260.095
Co 228.615	123.562	ppb	0.7524	0.6	980.386
Cr 267.716	181.262	ppb	0.2192	0.1	2844.15
Cu 324.754	72.5174	ppb	0.5992	0.8	2718.92
Fe 271.441	123820	ppb	188.256	0.2	91251.2
K 766.491	25693.6	ppb	46.5994	0.2	3198093
Mg 279.078	11848.4	ppb	25.5854	0.2	12708.6
Mn 257.610	3612.91	ppb	6.7693	0.2	341588
Mo 202.032	2.0273	ppb	1.5460	76.3	-7.7456
Na 330.237	837.949	ppb	92.0740	11.0	-8.7864
Ni 231.604	76.4191	ppb	0.5326	0.7	224.387
Pb 220.353	137.986	ppb	2.2432	1.6	97.9759
Sb 206.834	1.0952	ppb	4.7622	434.8	5.2417
Se 196.026	1.9672	ppb	9.6964	492.9	1.5289
Sn 189.925	25.5119	ppb	1.8425	7.2	16.7407
Sr 216.596	63.5993	ppb	0.6224	1.0	426.054
Ti 334.941	515.462	ppb	0.8416	0.2	109001
Tl 190.794	-10.4821	ppb	5.8398	55.7	-10.2858
V 292.401	229.651	ppb	0.6337	0.3	6486.69
Zn 206.200	160.914	ppb	2.2709	1.4	484.337

680-89004-b-16-a (Samp) 4/9/2013, 7:48:56 PM Rack 1, Tube 44

Weight: 1 Volume: 1 Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1664	ppb	0.8635	518.9	-63.7828
Al 308.215	161606	ppb	970.426	0.6	446182
As 188.980	25.9240	ppb	8.6484	33.4	7.9002
B 249.678	109.727	ppb	0.9479	0.9	378.325
Ba 389.178	247.549	ppb	1.5165	0.6	4324.00
Be 313.042	3.0788	ppb	0.0179	0.6	4938.63
Ca 370.602	7508	ppb	39.69	0.5	-19779
Cd 226.502	-1.9241	ppb	0.1664	8.6	520.426
Co 228.615	34.9087	ppb	0.4672	1.3	286.718
Cr 267.716	312.674	ppb	1.4432	0.5	4866.01
Cu 324.754	126.762	ppb	0.7944	0.6	4744.76
Fe 271.441	265898	ppb	1105.59	0.4	195949
K 766.491	31923.9	ppb	140.988	0.4	3973062

F04092013.wvq. All Data Report 4/10/2013, 11:45:37 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Mg 279.078	9662.97	ppb	53.8213	0.6	9817.11
Mn 257.610	347.607	ppb	1.2560	0.4	33225.9
Mo 202.032	2.9090	ppb	0.8739	30.0	-22.8436
Na 330.237	1105.30	ppb	102.098	9.2	-60.2965
Ni 231.604	64.2010	ppb	2.3775	3.7	197.881
Pb 220.353	55.9951	ppb	5.8660	10.5	30.1144
Sb 206.834	3.4921	ppb	6.1280	175.5	10.8701
Se 196.026	2.4092	ppb	8.5737	355.9	-1.3931
Sn 189.925	25.7279	ppb	1.1355	4.4	17.0013
Sr 216.596	37.1924	ppb	0.8403	2.3	335.018
Ti 334.941	824.728	ppb	4.7799	0.6	174397
Tl 190.794	-3.4350	ppb	7.3062	212.7	-12.5147
V 292.401	275.735	ppb	1.6384	0.6	7812.29
Zn 206.200	119.082	ppb	1.2847	1.1	362.770

680-89004-b-17-a (Samp)

4/9/2013, 7:54:23 PM

Rack 1, Tube 45

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.5714	ppb	0.1319	23.1	-88.0358
Al 308.215	185866	ppb	33.9640	0.0	513155
As 188.980	21.9830	ppb	8.3531	38.0	6.5417
B 249.678	93.5984	ppb	0.3735	0.4	164.471
Ba 389.178	350.338	ppb	0.9698	0.3	6034.07
Be 313.042	4.3736	ppb	0.0073	0.2	6906.96
Ca 370.602	3528	ppb	13.41	0.4	-41004
Cd 226.502	-2.1152	ppb	0.2134	10.1	586.326
Co 228.615	86.5539	ppb	0.7414	0.9	691.379
Cr 267.716	268.216	ppb	0.4133	0.2	4137.37
Cu 324.754	139.547	ppb	0.7113	0.5	5230.51
Fe 271.441	299954	ppb	286.564	0.1	221049
K 766.491	30416.7	ppb	24.9484	0.1	3785572
Mg 279.078	9773.81	ppb	12.8372	0.1	9823.89
Mn 257.610	1027.52	ppb	1.6299	0.2	97501.8
Mo 202.032	3.9245	ppb	2.1062	53.7	-23.4017
Na 330.237	696.404	ppb	38.9410	5.6	-101.023
Ni 231.604	99.9031	ppb	0.1052	0.1	301.589
Pb 220.353	106.880	ppb	4.7955	4.5	69.5171
Sb 206.834	-0.1227	ppb	5.2847	4307.0	9.4035
Se 196.026	13.5973	ppb	16.0829	118.3	1.1338
Sn 189.925	24.3004	ppb	2.4718	10.2	16.0942
Sr 216.596	25.7492	ppb	0.4485	1.7	282.002
Ti 334.941	550.508	ppb	0.4302	0.1	116410
Tl 190.794	-6.4373	ppb	11.2886	175.4	-15.4764
V 292.401	284.003	ppb	0.3526	0.1	8050.11
Zn 206.200	161.490	ppb	1.3916	0.9	489.789

680-89004-b-17-aSD^5 (Samp)

4/9/2013, 7:59:50 PM

Rack 1, Tube 46

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.4651	ppb	0.7622	163.9	-43.8475
Al 308.215	37043.4	ppb	364.802	1.0	102301

F04092013.wvq. All Data Report 4/10/2013, 11:45:37 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	1.4905	ppb	4.4929	301.4	-0.2641
B 249.678	19.1041	ppb	0.8043	4.2	68.5008
Ba 389.178	69.9746	ppb	0.6191	0.9	1189.20
Be 313.042	0.7977	ppb	0.0045	0.6	1342.79
Ca 370.602	869.6	ppb	12.62	1.5	-7784
Cd 226.502	-0.5259	ppb	0.1012	19.2	129.264
Co 228.615	16.3529	ppb	0.8333	5.1	126.899
Cr 267.716	53.5651	ppb	0.4399	0.8	831.713
Cu 324.754	27.0159	ppb	0.7015	2.6	1105.84
Fe 271.441	60845.0	ppb	582.834	1.0	44837.1
K 766.491	6044.92	ppb	47.3890	0.8	754218
Mg 279.078	2001.85	ppb	14.5016	0.7	2035.45
Mn 257.610	208.104	ppb	1.8515	0.9	19791.3
Mo 202.032	1.6704	ppb	0.5664	33.9	-2.4119
Na 330.237	132.403	ppb	56.4148	42.6	-22.7354
Ni 231.604	20.9907	ppb	0.2236	1.1	62.3963
Pb 220.353	21.5117	ppb	3.8840	18.1	16.2005
Sb 206.834	5.0048	ppb	5.4827	109.5	5.7114
Se 196.026	0.0551	ppb	10.2728	18635.2	0.9249
Sn 189.925	2.4551	ppb	1.8936	77.1	2.7719
Sr 216.596	5.0408	ppb	0.9213	18.3	51.5952
Ti 334.941	111.253	ppb	1.1199	1.0	23501.7
Tl 190.794	-3.9297	ppb	1.6850	42.9	-4.0166
V 292.401	56.7715	ppb	0.4496	0.8	1624.85
Zn 206.200	32.1204	ppb	1.0815	3.4	100.175

680-89004-b-17-aPDS (Samp) 4/9/2013, 8:05:18 PM Rack 1, Tube 47

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	45.9552	ppb	7.0743	15.4	1316.32
Al 308.215	177386	ppb	13191.8	7.4	489778
As 188.980	1997.11	ppb	154.875	7.8	687.291
B 249.678	1021.55	ppb	70.0210	6.9	8137.77
Ba 389.178	2322.35	ppb	171.227	7.4	38094.8
Be 313.042	54.3107	ppb	3.7006	6.8	82844.4
Ca 370.602	8095	ppb	345.4	4.3	-20542
Cd 226.502	47.7682	ppb	5.5185	11.6	1629.41
Co 228.615	558.936	ppb	75.9360	13.6	4427.39
Cr 267.716	448.289	ppb	40.3711	9.0	7024.85
Cu 324.754	386.804	ppb	27.1232	7.0	14060.2
Fe 271.441	283057	ppb	21309.5	7.5	208623
K 766.491	33615.5	ppb	2495.90	7.4	4182932
Mg 279.078	13983.4	ppb	929.041	6.6	14536.4
Mn 257.610	1483.99	ppb	109.225	7.4	140632
Mo 202.032	494.772	ppb	34.7477	7.0	1630.31
Na 330.237	5328.19	ppb	114.862	2.2	204.650
Ni 231.604	594.798	ppb	28.9163	4.9	1711.66
Pb 220.353	577.025	ppb	43.2311	7.5	459.133
Sb 206.834	456.873	ppb	39.9460	8.7	295.647
Se 196.026	1936.42	ppb	149.429	7.7	501.164
Sn 189.925	973.902	ppb	80.3190	8.2	589.397
Sr 216.596	513.634	ppb	39.4666	7.7	3122.01
Ti 334.941	1475.49	ppb	110.666	7.5	312009

F04092013.wvq. All Data Report 4/10/2013, 11:45:37 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Tl 190.794	1918.48	ppb	148.332	7.7	837.585
V 292.401	750.675	ppb	54.4884	7.3	21049.4
Zn 206.200	646.283	ppb	48.8964	7.6	1929.89

**680-89004-b-17-b ms (Samp)**      **4/9/2013, 8:10:46 PM**      **Rack 1, Tube 48**  
**Weight: 1**      **Volume: 1**      **Dilution: 1**

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	7.8294	ppb	0.4084	5.2	165.382
Al 308.215	195957	ppb	431.190	0.2	541017
As 188.980	112.587	ppb	8.4036	7.5	37.7315
B 249.678	211.633	ppb	1.9968	0.9	1159.79
Ba 389.178	458.046	ppb	1.5413	0.3	7801.64
Be 313.042	55.6700	ppb	0.1081	0.2	84721.3
Ca 370.602	8286	ppb	17.20	0.2	-24059
Cd 226.502	48.7721	ppb	0.4544	0.9	1698.39
Co 228.615	141.000	ppb	0.2815	0.2	1121.87
Cr 267.716	409.153	ppb	0.6557	0.2	6388.58
Cu 324.754	244.787	ppb	0.7588	0.3	8989.34
Fe 271.441	305911	ppb	426.756	0.1	225441
K 766.491	34061.8	ppb	68.4958	0.2	4238924
Mg 279.078	14263.4	ppb	27.9112	0.2	14768.8
Mn 257.610	1551.83	ppb	3.0101	0.2	147060
Mo 202.032	98.9215	ppb	1.2286	1.2	295.641
Na 330.237	5306.22	ppb	204.224	3.8	197.423
Ni 231.604	193.701	ppb	1.9135	1.0	569.364
Pb 220.353	156.161	ppb	4.4073	2.8	108.975
Sb 206.834	26.1457	ppb	3.9486	15.1	26.9569
Se 196.026	109.660	ppb	14.2769	13.0	26.1727
Sn 189.925	207.565	ppb	8.2855	4.0	126.716
Sr 216.596	126.065	ppb	1.8814	1.5	870.932
Ti 334.941	692.544	ppb	1.5362	0.2	146457
Tl 190.794	29.3719	ppb	3.8882	13.2	0.1418
V 292.401	371.608	ppb	0.8104	0.2	10483.5
Zn 206.200	255.862	ppb	3.1938	1.2	770.070

**Cont Calib Verif (CCV)**      **4/9/2013, 8:16:13 PM**      **Rack 1, Tube 49**  
**Weight: 1**      **Volume: 1**      **Dilution: 1**

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	499.468	ppb	2.6110	0.5	15029.5	99.89365
Al 308.215	5037.59	ppb	18.7685	0.4	14194.7	100.75174
As 188.980	486.586	ppb	3.1966	0.7	167.740	97.31715
B 249.678	512.441	ppb	1.4493	0.3	4416.32	20.49765Q
Ba 389.178	5156.90	ppb	14.2501	0.3	83880.1	103.13805
Be 313.042	519.799	ppb	2.1696	0.4	791051	103.95988
Ca 370.602	5074	ppb	19.60	0.4	18476	101.47454
Cd 226.502	516.979	ppb	2.1561	0.4	11194.8	103.39590
Co 228.615	517.659	ppb	2.3449	0.5	4086.35	103.53181
Cr 267.716	5239.50	ppb	17.2470	0.3	83781.3	104.79001
Cu 324.754	5136.92	ppb	21.2036	0.4	184034	102.73843
Fe 271.441	5081.38	ppb	33.2626	0.7	3802.67	101.62756
K 766.491	10114.5	ppb	30.7055	0.3	1259081	101.14536

F04092013.wvq. All Data Report 4/10/2013, 11:45:37 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Mg 279.078	4988.10	ppb	8.0888	0.2	5518.01	99.76207
Mn 257.610	5365.10	ppb	17.5563	0.3	506993	107.30194
Mo 202.032	498.230	ppb	1.7495	0.4	1667.04	99.64598
Na 330.237	7657.30	ppb	131.559	1.7	498.032	102.09728
Ni 231.604	2607.11	ppb	9.7604	0.4	7430.98	104.28436
Pb 220.353	502.830	ppb	6.0912	1.2	413.550	100.56602
Sb 206.834	937.883	ppb	5.8218	0.6	628.853	37.51532Q
Se 196.026	4919.20	ppb	20.0775	0.4	1280.95	98.38392
Sn 189.925	4996.31	ppb	17.9921	0.4	3016.70	99.92610
Sr 216.596	2534.58	ppb	8.3889	0.3	14821.5	101.38312
Ti 334.941	500.668	ppb	1.2043	0.2	106160	100.13357
Tl 190.794	5045.00	ppb	6.8140	0.1	2236.27	100.89990
V 292.401	4964.76	ppb	11.6097	0.2	139177	99.29524
Zn 206.200	2618.83	ppb	10.2918	0.4	7768.73	104.75317

Cont Calib Blank (CCB)

4/9/2013, 8:21:38 PM

Rack 1, Tube 50

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.2422	ppb	0.4127	170.4	-12.1093	0.24223
Al 308.215	-3.3938	ppb	1.4011	41.3	26.6318	-3.39384
As 188.980	1.4899	ppb	3.5891	240.9	-0.1964	1.48987
B 249.678	0.7658	ppb	1.0150	132.5	49.3958	0.76584
Ba 389.178	0.0272	ppb	0.3967	1456.1	-21.0498	0.02724
Be 313.042	-0.0900	ppb	0.0098	10.8	-38.8093	-0.09001
Ca 370.602	-3.182	ppb	1.320	41.5	-72.46	-3.18198
Cd 226.502	-0.0046	ppb	0.2767	6025.9	15.5170	-0.00459
Co 228.615	-0.6596	ppb	0.5951	90.2	-9.9926	-0.65957
Cr 267.716	0.2016	ppb	0.4676	231.9	10.6549	0.20164
Cu 324.754	-0.2209	ppb	0.0500	22.7	106.852	-0.22093
Fe 271.441	-2.8802	ppb	0.3192	11.1	-4.7151	-2.88016
K 766.491	-1.8661	ppb	0.1714	9.2	2121.84	-1.86614
Mg 279.078	-7.8485	ppb	3.5548	45.3	18.1844	-7.84848
Mn 257.610	-0.2346	ppb	0.1021	43.5	33.0181	-0.23459
Mo 202.032	0.1791	ppb	0.3363	187.8	-0.1516	0.17909
Na 330.237	25.5056	ppb	25.4193	99.7	-0.4128	25.50563
Ni 231.604	1.4321	ppb	0.2551	17.8	3.0159	1.43209
Pb 220.353	-0.1629	ppb	1.6544	1015.8	2.5940	-0.16287
Sb 206.834	1.4373	ppb	1.8939	131.8	1.6966	1.43728
Se 196.026	-2.3342	ppb	3.7050	158.7	1.1479	-2.33419
Sn 189.925	-2.6348	ppb	3.7967	144.1	-0.3344	-2.63481
Sr 216.596	-0.3122	ppb	0.4578	146.6	-7.5235	-0.31223
Ti 334.941	-0.0651	ppb	0.0455	69.9	-43.6070	-0.06511
Tl 190.794	-0.1352	ppb	4.3592	3223.8	0.2927	-0.13522
V 292.401	-0.1820	ppb	0.2301	126.4	14.4978	-0.18202
Zn 206.200	-0.1234	ppb	0.8680	703.2	3.0375	-0.12343

680-89004-b-17-c msd (Samp)

4/9/2013, 8:27:04 PM

Rack 1, Tube 51

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	8.4696	ppb	0.2051	2.4	210.006
Al 308.215	187082	ppb	582.217	0.3	516530



F04092013.wvq. All Data Report 4/10/2013, 11:45:37 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	101.145	ppb	8.1496	8.1	33.9111
B 249.678	179.340	ppb	1.1285	0.6	1230.86
Ba 389.178	439.541	ppb	1.0696	0.2	7328.34
Be 313.042	54.7325	ppb	0.1389	0.3	83282.4
Ca 370.602	10354	ppb	3.567	0.0	11547
Cd 226.502	50.5005	ppb	0.2126	0.4	1425.67
Co 228.615	96.9869	ppb	1.1157	1.2	769.069
Cr 267.716	321.880	ppb	0.1442	0.0	5073.93
Cu 324.754	207.251	ppb	1.6490	0.8	7572.46
Fe 271.441	152446	ppb	302.956	0.2	112347
K 766.491	31502.8	ppb	89.0053	0.3	3920639
Mg 279.078	15088.7	ppb	58.9187	0.4	16200.9
Mn 257.610	861.791	ppb	1.7406	0.2	81692.0
Mo 202.032	100.941	ppb	0.5982	0.6	321.678
Na 330.237	5467.30	ppb	156.915	2.9	281.486
Ni 231.604	176.999	ppb	1.1490	0.6	512.828
Pb 220.353	129.489	ppb	2.2342	1.7	88.7884
Sb 206.834	41.4140	ppb	4.1085	9.9	32.3663
Se 196.026	103.491	ppb	15.1252	14.6	27.0007
Sn 189.925	215.847	ppb	1.6214	0.8	131.632
Sr 216.596	137.329	ppb	0.4405	0.3	868.026
Ti 334.941	494.643	ppb	1.0726	0.2	104603
Tl 190.794	43.2871	ppb	8.6231	19.9	12.2049
V 292.401	340.009	ppb	0.9948	0.3	9569.02
Zn 206.200	253.352	ppb	1.4784	0.6	759.364

680-89004-b-18-a (Samp)

4/9/2013, 8:32:29 PM

Rack 1, Tube 52

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.7380	ppb	0.7599	103.0	-102.243
Al 308.215	164782	ppb	64.2173	0.0	454938
As 188.980	28.0770	ppb	3.2027	11.4	8.5900
B 249.678	93.8986	ppb	1.5298	1.6	20.3837
Ba 389.178	320.366	ppb	0.5392	0.2	5618.10
Be 313.042	4.9646	ppb	0.0199	0.4	7805.51
Ca 370.602	3083	ppb	3.318	0.1	-54413
Cd 226.502	-2.9808	ppb	0.1707	5.7	696.999
Co 228.615	100.336	ppb	0.4895	0.5	802.068
Cr 267.716	325.090	ppb	0.8122	0.2	5013.14
Cu 324.754	158.220	ppb	0.2246	0.1	5928.90
Fe 271.441	364692	ppb	251.240	0.1	268756
K 766.491	27873.5	ppb	26.4534	0.1	3469248
Mg 279.078	8708.95	ppb	3.0404	0.0	8426.21
Mn 257.610	1690.67	ppb	0.0744	0.0	160228
Mo 202.032	5.7837	ppb	0.0428	0.7	-25.5774
Na 330.237	627.756	ppb	74.5466	11.9	-136.393
Ni 231.604	101.334	ppb	2.2305	2.2	309.412
Pb 220.353	116.259	ppb	6.9485	6.0	79.1468
Sb 206.834	4.5479	ppb	4.0441	88.9	14.3947
Se 196.026	15.7517	ppb	4.8255	30.6	0.6481
Sn 189.925	23.5041	ppb	2.7647	11.8	15.6413
Sr 216.596	20.2634	ppb	0.8018	4.0	278.690
Ti 334.941	610.932	ppb	0.1458	0.0	129190

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Tl 190.794	-4.6020	ppb	5.6307	122.4	-16.9409
V 292.401	292.327	ppb	0.3877	0.1	8292.62
Zn 206.200	164.622	ppb	0.8690	0.5	500.365

Cont Calib Verif (CCV) 4/9/2013, 8:37:55 PM Rack 2, Tube 1  
 Weight: 1 Volume: 1 Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	491.841	ppb	2.4268	0.5	14799.8	98.36829
Al 308.215	4956.86	ppb	44.7557	0.9	13968.2	99.13728
As 188.980	487.323	ppb	7.2076	1.5	167.985	97.46453
B 249.678	504.218	ppb	1.9656	0.4	4346.16	20.16873Q
Ba 389.178	5087.14	ppb	26.1158	0.5	82745.1	101.74286
Be 313.042	512.844	ppb	3.1384	0.6	780465	102.56889
Ca 370.602	5005	ppb	28.57	0.6	18225	100.09650
Cd 226.502	511.183	ppb	2.4464	0.5	11069.4	102.23666
Co 228.615	513.222	ppb	3.0958	0.6	4051.26	102.64433
Cr 267.716	5182.98	ppb	19.9271	0.4	82877.6	103.65952
Cu 324.754	5035.74	ppb	53.4442	1.1	180411	100.71474
Fe 271.441	5018.15	ppb	20.6614	0.4	3755.28	100.36293
K 766.491	9985.11	ppb	43.9623	0.4	1243001	99.85107
Mg 279.078	4893.99	ppb	36.5623	0.7	5414.27	97.87984
Mn 257.610	5298.73	ppb	23.7529	0.4	500722	105.97470
Mo 202.032	491.145	ppb	5.1831	1.1	1643.33	98.22899
Na 330.237	7488.23	ppb	152.171	2.0	486.981	99.84306
Ni 231.604	2570.07	ppb	12.4801	0.5	7325.41	102.80298
Pb 220.353	491.804	ppb	5.3806	1.1	404.493	98.36078
Sb 206.834	920.702	ppb	5.4203	0.6	617.531	36.82809Q
Se 196.026	4845.77	ppb	24.5762	0.5	1261.86	96.91546
Sn 189.925	4935.42	ppb	57.9403	1.2	2979.96	98.70847
Sr 216.596	2496.53	ppb	15.1178	0.6	14598.9	99.86102
Ti 334.941	493.565	ppb	2.5992	0.5	104653	98.71295
Tl 190.794	4962.08	ppb	42.8328	0.9	2199.53	99.24162
V 292.401	4890.57	ppb	30.5431	0.6	137097	97.81142
Zn 206.200	2584.82	ppb	11.0230	0.4	7667.89	103.39283

Cont Calib Blank (CCB) 4/9/2013, 8:43:22 PM Rack 2, Tube 2  
 Weight: 1 Volume: 1 Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	-0.1256	ppb	0.2383	189.8	-23.1915	-0.12556
Al 308.215	-1.6706	ppb	2.6515	158.7	31.4101	-1.67064
As 188.980	-2.0245	ppb	4.8805	241.1	-1.4073	-2.02451
B 249.678	0.7567	ppb	0.3475	45.9	49.3011	0.75675
Ba 389.178	0.3265	ppb	0.3051	93.5	-16.1729	0.32650
Be 313.042	-0.0708	ppb	0.0070	9.8	-9.7147	-0.07077
Ca 370.602	-5.893	ppb	1.923	32.6	-83.35	-5.89324
Cd 226.502	-0.1722	ppb	0.0472	27.4	11.9035	-0.17220
Co 228.615	-0.9792	ppb	0.4029	41.1	-12.5307	-0.97920
Cr 267.716	0.5513	ppb	0.5195	94.2	16.2456	0.55126
Cu 324.754	-0.2638	ppb	0.2120	80.4	105.329	-0.26378
Fe 271.441	2.1033	ppb	7.2514	344.8	-1.0454	2.10326
K 766.491	-1.0846	ppb	0.5483	50.6	2218.99	-1.08465

F04092013.wvq. All Data Report 4/10/2013, 11:45:37 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Mg 279.078	-4.5604	ppb	10.3473	226.9	21.8091	-4.56036
Mn 257.610	-0.0597	ppb	0.1934	324.1	49.5495	-0.05968
Mo 202.032	0.7863	ppb	0.7811	99.3	1.8922	0.78629
Na 330.237	4.2658	ppb	66.1810	1551.4	-1.8060	4.26581
Ni 231.604	1.0003	ppb	0.6911	69.1	1.7864	1.00032
Pb 220.353	4.1810	ppb	0.4866	11.6	6.1915	4.18104
Sb 206.834	5.0371	ppb	3.8958	77.3	3.9758	5.03705
Se 196.026	-1.2483	ppb	9.2625	742.0	1.4300	-1.24833
Sn 189.925	-2.1355	ppb	2.4488	114.7	-0.0330	-2.13546
Sr 216.596	-0.3611	ppb	0.2605	72.2	-7.8098	-0.36106
Ti 334.941	-0.0485	ppb	0.0511	105.3	-40.0653	-0.04851
Tl 190.794	-6.0984	ppb	6.2419	102.4	-2.3448	-6.09841
V 292.401	-0.1050	ppb	0.2944	280.5	16.4268	-0.10497
Zn 206.200	0.0609	ppb	0.6915	1135.3	3.5835	0.06091

mb 680-272030/1-a (Samp)

4/9/2013, 8:48:48 PM

Rack 2, Tube 3

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.4067	ppb	0.2715	66.7	-7.1559
Al 308.215	2.0254	ppb	2.9968	148.0	41.5945
As 188.980	1.9723	ppb	0.9952	50.5	-0.0302
B 249.678	0.8316	ppb	0.3087	37.1	49.9225
Ba 389.178	-0.1715	ppb	0.1442	84.1	-24.2225
Be 313.042	-0.1151	ppb	0.0063	5.4	-77.2430
Ca 370.602	28.70	ppb	0.9055	3.2	45.55
Cd 226.502	0.0670	ppb	0.0258	38.4	17.0945
Co 228.615	-0.8589	ppb	0.6909	80.4	-11.5823
Cr 267.716	0.8925	ppb	0.2450	27.4	21.7016
Cu 324.754	-0.1802	ppb	0.1524	84.6	108.246
Fe 271.441	12.7578	ppb	5.4075	42.4	6.8194
K 766.491	9.0735	ppb	0.4059	4.5	3482.59
Mg 279.078	8.3302	ppb	6.8392	82.1	36.0299
Mn 257.610	0.1102	ppb	0.0295	26.7	65.6629
Mo 202.032	0.8929	ppb	0.2920	32.7	2.2505
Na 330.237	90.9315	ppb	58.6840	64.5	3.8676
Ni 231.604	1.2218	ppb	0.5987	49.0	2.4208
Pb 220.353	-0.5456	ppb	2.5346	464.5	2.2737
Sb 206.834	2.1825	ppb	2.1414	98.1	2.1516
Se 196.026	2.4411	ppb	7.7463	317.3	2.3889
Sn 189.925	9.0586	ppb	3.9284	43.4	6.7228
Sr 216.596	-0.3117	ppb	0.4913	157.6	-7.5225
Ti 334.941	0.1942	ppb	0.0029	1.5	11.3098
Tl 190.794	-0.1037	ppb	7.9496	7663.6	0.3050
V 292.401	-0.5424	ppb	0.1044	19.3	4.0881
Zn 206.200	0.3283	ppb	0.4053	123.4	4.3784

lcs 680-272030/2-a (Samp)

4/9/2013, 8:54:14 PM

Rack 2, Tube 4

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	8.7743	ppb	0.6053	6.9	245.850
Al 308.215	5204.75	ppb	15.7558	0.3	14411.9

F04092013.wvq. All Data Report 4/10/2013, 11:45:37 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	99.1725	ppb	7.5227	7.6	33.4208
B 249.678	193.583	ppb	0.6961	0.4	1685.56
Ba 389.178	108.014	ppb	0.4313	0.4	1751.19
Be 313.042	54.0532	ppb	0.0638	0.1	82099.8
Ca 370.602	5216	ppb	5.148	0.1	18765
Cd 226.502	53.9440	ppb	0.3118	0.6	1191.76
Co 228.615	53.3830	ppb	0.1887	0.4	416.619
Cr 267.716	110.063	ppb	0.5593	0.5	1765.15
Cu 324.754	106.562	ppb	0.3697	0.3	3919.53
Fe 271.441	5165.91	ppb	16.6704	0.3	3807.62
K 766.491	5188.05	ppb	11.5179	0.2	647630
Mg 279.078	5088.51	ppb	21.8727	0.4	5637.01
Mn 257.610	561.433	ppb	0.8387	0.1	53120.9
Mo 202.032	105.021	ppb	1.3714	1.3	352.049
Na 330.237	4786.40	ppb	156.413	3.3	308.626
Ni 231.604	107.084	ppb	0.3214	0.3	304.546
Pb 220.353	47.3858	ppb	1.8049	3.8	41.1555
Sb 206.834	49.7303	ppb	1.8035	3.6	32.8786
Se 196.026	108.079	ppb	9.1091	8.4	29.9272
Sn 189.925	211.490	ppb	4.3133	2.0	128.901
Sr 216.596	104.158	ppb	0.2548	0.2	604.889
Ti 334.941	103.085	ppb	0.2745	0.3	21779.5
Tl 190.794	37.7855	ppb	8.0453	21.3	16.9052
V 292.401	102.916	ppb	0.1130	0.1	2883.20
Zn 206.200	109.200	ppb	1.4483	1.3	327.882

ics 680-272030/3-a (Samp)

4/9/2013, 8:59:41 PM

Rack 2, Tube 5

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	201.914	ppb	1.9778	1.0	6068.71
Al 308.215	2186.54	ppb	8.8198	0.4	6084.60
As 188.980	200.227	ppb	10.6297	5.3	68.0570
B 249.678	378.491	ppb	0.9463	0.3	3232.50
Ba 389.178	198.507	ppb	1.4717	0.7	3268.49
Be 313.042	209.175	ppb	0.6856	0.3	317332
Ca 370.602	20473	ppb	76.38	0.4	73710
Cd 226.502	205.556	ppb	1.0709	0.5	4498.46
Co 228.615	206.029	ppb	0.3705	0.2	1622.04
Cr 267.716	212.465	ppb	0.6551	0.3	3395.82
Cu 324.754	208.466	ppb	2.0650	1.0	7536.18
Fe 271.441	20782.0	ppb	64.1893	0.3	15323.3
K 766.491	19820.0	ppb	70.2228	0.4	2467570
Mg 279.078	19869.8	ppb	66.0068	0.3	21931.7
Mn 257.610	2151.03	ppb	8.1271	0.4	203367
Mo 202.032	202.680	ppb	1.6979	0.8	678.655
Na 330.237	18014.4	ppb	118.917	0.7	1167.69
Ni 231.604	208.572	ppb	0.1838	0.1	595.074
Pb 220.353	199.196	ppb	2.1797	1.1	166.925
Sb 206.834	184.693	ppb	5.6576	3.1	120.229
Se 196.026	201.628	ppb	9.2332	4.6	54.4173
Sn 189.925	210.912	ppb	5.1354	2.4	128.525
Sr 216.596	212.593	ppb	0.8510	0.4	1245.93
Ti 334.941	201.301	ppb	0.7298	0.4	42569.9

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Tl 190.794	28.5786	ppb	5.2765	18.5	12.4144
V 292.401	203.258	ppb	0.5924	0.3	5676.16
Zn 206.200	194.838	ppb	1.7035	0.9	582.911

**680-88980-b-25-a (Samp)**      **4/9/2013, 9:05:07 PM**      **Rack 2, Tube 6**  
**Weight: 1**      **Volume: 1**      **Dilution: 1**

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	4.7372	ppb	0.2614	5.5	154.747
Al 308.215	55874.1	ppb	1733.11	3.1	154262
As 188.980	159.811	ppb	13.2844	8.3	44.8642
B 249.678	109.256	ppb	1.2959	1.2	119.148
Ba 389.178	3009.61	ppb	96.7955	3.2	49607.2
Be 313.042	7.4167	ppb	0.2084	2.8	11629.8
Ca 370.602	703994	ppb	16829	2.4	2595455
Cd 226.502	27.6275	ppb	2.1930	7.9	1380.93
Co 228.615	79.3029	ppb	2.6030	3.3	646.365
Cr 267.716	261.584	ppb	6.1346	2.3	4019.18
Cu 324.754	1454.22	ppb	15.3113	1.1	50476.5
Fe 271.441	378807	ppb	12357.7	3.3	279157
K 766.491	9296.95	ppb	296.208	3.2	1157932
Mg 279.078	141316	ppb	4080.42	2.9	155020
Mn 257.610	25171.9	ppb	748.984	3.0	2379177
Mo 202.032	24.9253	ppb	1.1893	4.8	35.9070
Na 330.237	3480.15	ppb	164.545	4.7	51.0175
Ni 231.604	207.085	ppb	5.7213	2.8	616.480
Pb 220.353	3630.64	ppb	117.448	3.2	3002.52
Sb 206.834	15.3877	ppb	9.7074	63.1	26.2943
Se 196.026	21.3489	ppb	15.4159	72.2	8.8680
Sn 189.925	117.445	ppb	9.5164	8.1	69.9193
Sr 216.596	892.349	ppb	30.7882	3.5	5444.82
Ti 334.941	1270.70	ppb	41.9573	3.3	269443
Tl 190.794	-30.3732	ppb	9.8947	32.6	-33.8462
V 292.401	187.312	ppb	4.5924	2.5	5304.23
Zn 206.200	7376.40	ppb	220.441	3.0	21941.9

**680-88980-b-25-aSD^5 (Samp)**      **4/9/2013, 9:10:33 PM**      **Rack 2, Tube 7**  
**Weight: 1**      **Volume: 1**      **Dilution: 1**

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.5968	ppb	0.6696	112.2	6.4482
Al 308.215	10837.8	ppb	190.909	1.8	29950.2
As 188.980	21.9042	ppb	6.1382	28.0	4.8754
B 249.678	23.7932	ppb	0.4905	2.1	64.4837
Ba 389.178	623.876	ppb	9.6248	1.5	10267.2
Be 313.042	1.4624	ppb	0.0354	2.4	2374.15
Ca 370.602	145243	ppb	2118	1.5	535051
Cd 226.502	5.5031	ppb	0.2984	5.4	297.305
Co 228.615	17.0537	ppb	0.4917	2.9	135.070
Cr 267.716	54.7309	ppb	1.1442	2.1	846.670
Cu 324.754	281.757	ppb	4.3702	1.6	9851.61
Fe 271.441	80349.7	ppb	1249.56	1.6	59210.6
K 766.491	1469.57	ppb	17.2167	1.2	184977

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Mg 279.078	28581.0	ppb	513.655	1.8	31360.8
Mn 257.610	5617.30	ppb	63.7649	1.1	530962
Mo 202.032	5.3176	ppb	1.0456	19.7	7.1221
Na 330.237	775.392	ppb	110.568	14.3	11.7454
Ni 231.604	47.0583	ppb	1.0353	2.2	138.800
Pb 220.353	775.780	ppb	13.2270	1.7	643.831
Sb 206.834	4.7450	ppb	2.6956	56.8	7.0969
Se 196.026	11.9022	ppb	9.1119	76.6	5.2034
Sn 189.925	26.2054	ppb	0.8630	3.3	16.6144
Sr 216.596	184.789	ppb	4.9897	2.7	1123.72
Ti 334.941	263.139	ppb	4.2012	1.6	55772.8
Tl 190.794	-11.5576	ppb	4.7892	41.4	-9.1175
V 292.401	38.6280	ppb	0.3942	1.0	1108.98
Zn 206.200	1596.43	ppb	29.6643	1.9	4751.33

680-88980-b-25-aPDS (Samp) 4/9/2013, 9:16:00 PM Rack 2, Tube 8

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	55.6951	ppb	0.7644	1.4	1689.13
Al 308.215	57820.5	ppb	7.9738	0.0	159670
As 188.980	2268.22	ppb	13.7520	0.6	771.606
B 249.678	1127.52	ppb	0.9181	0.1	8827.50
Ba 389.178	5012.44	ppb	4.8077	0.1	82188.4
Be 313.042	58.7644	ppb	0.0988	0.2	89720.3
Ca 370.602	703354	ppb	1112	0.2	2593252
Cd 226.502	77.2038	ppb	0.4106	0.5	2451.06
Co 228.615	581.747	ppb	5.1569	0.9	4620.80
Cr 267.716	465.493	ppb	1.7998	0.4	7278.96
Cu 324.754	1703.40	ppb	9.1216	0.5	59395.4
Fe 271.441	378412	ppb	416.965	0.1	278893
K 766.491	16744.7	ppb	19.7594	0.1	2083777
Mg 279.078	145538	ppb	85.9933	0.1	159692
Mn 257.610	25566.5	ppb	38.4981	0.2	2416481
Mo 202.032	528.547	ppb	1.9067	0.4	1730.65
Na 330.237	9112.93	ppb	33.3481	0.4	414.050
Ni 231.604	698.317	ppb	1.7372	0.2	2017.06
Pb 220.353	4098.33	ppb	20.4437	0.5	3388.84
Sb 206.834	518.476	ppb	7.7488	1.5	342.125
Se 196.026	2101.06	ppb	19.3285	0.9	549.401
Sn 189.925	1087.22	ppb	8.5430	0.8	655.436
Sr 216.596	1373.78	ppb	0.4046	0.0	8254.10
Ti 334.941	2265.23	ppb	2.1622	0.1	479746
Tl 190.794	1863.89	ppb	8.3050	0.4	805.061
V 292.401	682.317	ppb	0.8429	0.1	19099.6
Zn 206.200	7831.74	ppb	6.9433	0.1	23294.8

680-88980-b-25-b ms (Samp) 4/9/2013, 9:21:27 PM Rack 2, Tube 9

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	14.1963b	ppb	0.2423	1.7	487.153
Al 308.215	65509.1b	ppb	30.5829	0.0	180885

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	246.078b	ppb	4.4993	1.8	75.1594
B 249.678	290.892b	ppb	1.9088	0.7	2023.71
Ba 389.178	3774.37b	ppb	3.2081	0.1	61872.3
Be 313.042	57.3830b	ppb	0.0658	0.1	87419.3
Ca 370.602	674989b	ppb	2398	0.4	2514046
Cd 226.502	78.9439b	ppb	0.5930	0.8	2176.84
Co 228.615	129.421b	ppb	0.4224	0.3	1040.93
Cr 267.716	365.263b	ppb	0.3553	0.1	5766.06
Cu 324.754	1675.04b	ppb	1.5065	0.1	58393.4
Fe 271.441	223545b	ppb	155.070	0.1	164743
K 766.491	17126.3b	ppb	23.5617	0.1	2131576
Mg 279.078	143026b	ppb	189.552	0.1	157427
Mn 257.610	30107.2xb	ppb	39.3279	0.1	2845315
Mo 202.032	116.699b	ppb	2.0068	1.7	364.378
Na 330.237	8854.53b	ppb	66.6413	0.8	476.954
Ni 231.604	311.425b	ppb	1.2322	0.4	904.748
Pb 220.353	2722.72b	ppb	11.5895	0.4	2249.86
Sb 206.834	33.3388b	ppb	4.5568	13.7	33.9073
Se 196.026	102.041b	ppb	15.3427	15.0	33.2815
Sn 189.925	295.911b	ppb	5.9413	2.0	177.747
Sr 216.596	1083.47b	ppb	1.3919	0.1	6493.49
Ti 334.941	1440.57b	ppb	1.7483	0.1	305331
Tl 190.794	-1.0081b	ppb	4.4072	437.2	-14.3822
V 292.401	275.580b	ppb	0.7956	0.3	7719.06
Zn 206.200	8566.75b	ppb	12.0754	0.1	25476.2

680-88980-b-25-c msd (Samp) 4/9/2013, 9:26:55 PM Rack 2, Tube 10

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	25.4519b	ppb	0.3149	1.2	801.757
Al 308.215	62883.9b	ppb	426.625	0.7	173634
As 188.980	224.779b	ppb	7.6744	3.4	63.6296
B 249.678	283.390b	ppb	2.3098	0.8	1911.95
Ba 389.178	3102.03b	ppb	18.8001	0.6	51006.3
Be 313.042	54.4476b	ppb	0.3044	0.6	83045.1
Ca 370.602	996088xb	ppb	5634	0.6	3724871
Cd 226.502	73.2708b	ppb	0.8328	1.1	2096.33
Co 228.615	109.045b	ppb	0.6726	0.6	876.712
Cr 267.716	331.507b	ppb	1.4166	0.4	5208.81
Cu 324.754	1779.84b	ppb	8.6295	0.5	61295.5
Fe 271.441	244375b	ppb	1599.29	0.7	180092
K 766.491	17207.7b	ppb	88.8963	0.5	2141875
Mg 279.078	167004b	ppb	1012.13	0.6	183889
Mn 257.610	25027.3b	ppb	103.699	0.4	2365429
Mo 202.032	110.323b	ppb	1.0498	1.0	340.291
Na 330.237	8677.62b	ppb	77.1397	0.9	455.042
Ni 231.604	299.327b	ppb	1.6319	0.5	872.388
Pb 220.353	2370.92b	ppb	27.6103	1.2	1958.59
Sb 206.834	32.2167b	ppb	2.8589	8.9	36.7427
Se 196.026	93.1227b	ppb	4.1888	4.5	30.8311
Sn 189.925	257.418b	ppb	2.7854	1.1	153.280
Sr 216.596	1063.90b	ppb	5.1824	0.5	6401.50
Ti 334.941	1196.47b	ppb	8.6267	0.7	254062

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Tl 190.794	-6.7310b	ppb	7.3167	108.7	-20.7909
V 292.401	256.552b	ppb	1.7508	0.7	7199.36
Zn 206.200	7186.19b	ppb	40.1104	0.6	21374.0

680-88980-a-26-a (Samp) 4/9/2013, 9:32:23 PM Rack 2, Tube 11

Weight: 1 Volume: 1 Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	1.7961	ppb	1.2216	68.0	10.5942
Al 308.215	100782	ppb	277.363	0.3	278251
As 188.980	165.136	ppb	3.6618	2.2	54.0177
B 249.678	110.147	ppb	1.1550	1.0	171.293
Ba 389.178	2559.55	ppb	5.8781	0.2	42040.9
Be 313.042	12.9417	ppb	0.0148	0.1	19952.7
Ca 370.602	143692	ppb	242.8	0.2	478842
Cd 226.502	16.7468	ppb	0.3891	2.3	1109.01
Co 228.615	125.318	ppb	0.9103	0.7	1013.62
Cr 267.716	402.596	ppb	1.2996	0.3	6267.20
Cu 324.754	622.225	ppb	0.4557	0.1	22162.1
Fe 271.441	359753	ppb	654.265	0.2	265118
K 766.491	13766.3	ppb	12.4389	0.1	1713965
Mg 279.078	17350.0	ppb	18.3400	0.1	17986.1
Mn 257.610	11114.8	ppb	13.4012	0.1	1050678
Mo 202.032	20.1017	ppb	2.8154	14.0	22.3912
Na 330.237	2241.35	ppb	40.5154	1.8	-22.3394
Ni 231.604	176.688	ppb	2.8363	1.6	524.117
Pb 220.353	3206.59	ppb	7.8450	0.2	2646.34
Sb 206.834	7.5765	ppb	3.0924	40.8	16.3858
Se 196.026	23.1991	ppb	12.3928	53.4	4.6336
Sn 189.925	163.815	ppb	2.0177	1.2	100.037
Sr 216.596	736.314	ppb	1.5393	0.2	4496.05
Ti 334.941	1584.21	ppb	2.0188	0.1	335139
Tl 190.794	-22.0948	ppb	8.3220	37.7	-24.4273
V 292.401	333.128	ppb	0.0864	0.0	9421.56
Zn 206.200	8010.53	ppb	15.3328	0.2	23821.8

680-88980-a-27-a (Samp) 4/9/2013, 9:37:51 PM Rack 2, Tube 12

Weight: 1 Volume: 1 Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	4.0103b	ppb	0.2720	6.8	194.146
Al 308.215	78812.3b	ppb	126.569	0.2	217606
As 188.980	152.659b	ppb	12.8611	8.4	44.4647
B 249.678	115.346b	ppb	0.9448	0.8	522.795
Ba 389.178	3915.03b	ppb	4.1359	0.1	64105.3
Be 313.042	7.6447b	ppb	0.0074	0.1	11937.9
Ca 370.602	557200b	ppb	379.4	0.1	2068459
Cd 226.502	32.1133b	ppb	0.5232	1.6	1166.38
Co 228.615	84.6492b	ppb	0.6023	0.7	688.431
Cr 267.716	256.577b	ppb	0.9142	0.4	4031.97
Cu 324.754	1609.77b	ppb	7.0714	0.4	56371.2
Fe 271.441	223896b	ppb	228.343	0.1	164998
K 766.491	11033.7b	ppb	16.5915	0.2	1373721



F04092013.wvq. All Data Report 4/10/2013, 11:45:37 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Mg 279.078	113676b	ppb	287.074	0.3	124957
Mn 257.610	33289.5xb	ppb	40.9399	0.1	3145919
Mo 202.032	23.1788b	ppb	1.1741	5.1	49.8159
Na 330.237	3876.17b	ppb	114.018	2.9	150.981
Ni 231.604	215.811b	ppb	1.6333	0.8	631.235
Pb 220.353	2948.73b	ppb	8.0903	0.3	2435.92
Sb 206.834	13.7661b	ppb	2.6740	19.4	19.8604
Se 196.026	5.2090b	ppb	6.3037	121.0	8.1368
Sn 189.925	116.461b	ppb	7.4821	6.4	69.8690
Sr 216.596	970.707b	ppb	5.3825	0.6	5829.72
Ti 334.941	1402.14b	ppb	1.4747	0.1	297073
Tl 190.794	-49.9033b	ppb	9.9065	19.9	-35.1812
V 292.401	188.356b	ppb	0.0380	0.0	5287.86
Zn 206.200	8669.14b	ppb	4.5970	0.1	25780.0

## Cont Calib Verif (CCV)

4/9/2013, 9:43:18 PM

Rack 2, Tube 13

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	494.164	ppb	1.6821	0.3	14869.8	98.83279
Al 308.215	4954.94	ppb	4.9112	0.1	13963.0	99.09881
As 188.980	481.620	ppb	11.0219	2.3	166.021	96.32402
B 249.678	507.017	ppb	2.4044	0.5	4370.06	20.28067Q
Ba 389.178	5096.74	ppb	7.1440	0.1	82901.3	101.93488
Be 313.042	514.259	ppb	0.7288	0.1	782611	102.85183
Ca 370.602	5038	ppb	2.783	0.1	18353	100.76542
Cd 226.502	511.466	ppb	1.0466	0.2	11075.5	102.29326
Co 228.615	512.447	ppb	0.4806	0.1	4045.13	102.48936
Cr 267.716	5201.00	ppb	15.8513	0.3	83165.9	104.01998
Cu 324.754	5075.35	ppb	89.7147	1.8	181830	101.50694
Fe 271.441	5013.20	ppb	13.1029	0.3	3751.59	100.26405
K 766.491	9990.88	ppb	5.2362	0.1	1243718	99.90883
Mg 279.078	4905.38	ppb	10.1129	0.2	5426.86	98.10762
Mn 257.610	5323.24	ppb	9.8955	0.2	503038	106.46489
Mo 202.032	490.727	ppb	1.7933	0.4	1641.92	98.14540
Na 330.237	7436.41	ppb	99.5793	1.3	483.587	99.15210
Ni 231.604	2571.01	ppb	6.2132	0.2	7328.09	102.84055
Pb 220.353	490.868	ppb	7.3484	1.5	403.705	98.17352
Sb 206.834	927.281	ppb	9.0995	1.0	621.791	37.09124Q
Se 196.026	4860.73	ppb	9.2440	0.2	1265.75	97.21465
Sn 189.925	4953.01	ppb	6.4915	0.1	2990.57	99.06024
Sr 216.596	2500.90	ppb	3.1156	0.1	14624.5	100.03590
Ti 334.941	494.257	ppb	0.4972	0.1	104800	98.85132
Tl 190.794	4956.19	ppb	29.4524	0.6	2196.93	99.12378
V 292.401	4891.95	ppb	2.4168	0.0	137135	97.83907
Zn 206.200	2587.55	ppb	4.2012	0.2	7675.97	103.50215

## Cont Calib Blank (CCB)

4/9/2013, 9:48:45 PM

Rack 2, Tube 14

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	-0.3134	ppb	0.4781	152.5	-28.8492	-0.31341
Al 308.215	-1.0810	ppb	2.7392	253.4	33.0371	-1.08099

F04092013.wvq. All Data Report 4/10/2013, 11:45:37 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
As 188.980	-1.6316	ppb	1.4767	90.5	-1.2719	-1.63160
B 249.678	0.9032	ppb	0.9961	110.3	50.5642	0.90319
Ba 389.178	-0.2623	ppb	0.5013	191.1	-25.7467	-0.26235
Be 313.042	-0.0753	ppb	0.0195	25.9	-16.7742	-0.07531
Ca 370.602	-4.008	ppb	4.557	113.7	-76.07	-4.00837
Cd 226.502	0.0379	ppb	0.0958	252.5	16.4417	0.03795
Co 228.615	-0.5817	ppb	0.1008	17.3	-9.4003	-0.58175
Cr 267.716	0.5127	ppb	0.4018	78.4	15.6306	0.51266
Cu 324.754	-0.2383	ppb	0.3296	138.3	106.244	-0.23826
Fe 271.441	0.7858	ppb	7.8320	996.7	-1.9865	0.78577
K 766.491	-1.0164	ppb	0.6564	64.6	2227.63	-1.01637
Mg 279.078	-1.2471	ppb	6.6084	529.9	25.4766	-1.24708
Mn 257.610	0.0236	ppb	0.1161	492.5	57.4160	0.02357
Mo 202.032	0.8863	ppb	0.9936	112.1	2.2294	0.88630
Na 330.237	114.515	ppb	15.8168	13.8	5.4201	114.51547
Ni 231.604	0.8098	ppb	0.5865	72.4	1.2446	0.80981
Pb 220.353	-1.0423	ppb	3.4456	330.6	1.8626	-1.04231
Sb 206.834	3.7023	ppb	2.7956	75.5	3.1270	3.70225
Se 196.026	6.1483	ppb	5.2042	84.6	3.3521	6.14830
Sn 189.925	-2.8011	ppb	2.3315	83.2	-0.4347	-2.80110
Sr 216.596	-0.5620	ppb	0.6534	116.3	-8.9952	-0.56196
Ti 334.941	-0.0491	ppb	0.0582	118.4	-40.2129	-0.04914
Tl 190.794	0.3917	ppb	1.4779	377.3	0.5250	0.39167
V 292.401	-0.3563	ppb	0.1504	42.2	9.2614	-0.35633
Zn 206.200	0.1119	ppb	0.3518	314.3	3.7358	0.11192

680-88960-a-1-a (Samp)

4/9/2013, 9:54:11 PM

Rack 2, Tube 15

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.8357	ppb	0.5257	28.6	-87.0123
Al 308.215	29679.8	ppb	81.2854	0.3	81972.3
As 188.980	16.8840	ppb	4.3075	25.5	4.8884
B 249.678	16.2107	ppb	0.9069	5.6	42.7285
Ba 389.178	469.826	ppb	0.5435	0.1	7697.90
Be 313.042	3.6791	ppb	0.0195	0.5	5721.48
Ca 370.602	12844	ppb	35.90	0.3	37498
Cd 226.502	-0.3346	ppb	0.1615	48.3	133.831
Co 228.615	11.3101	ppb	0.8866	7.8	94.6164
Cr 267.716	62.4210	ppb	0.5061	0.8	973.434
Cu 324.754	31.2383	ppb	0.3250	1.0	1221.54
Fe 271.441	61321.1	ppb	98.6550	0.2	45187.9
K 766.491	2913.71	ppb	4.3018	0.1	364644
Mg 279.078	5242.25	ppb	16.4983	0.3	5618.30
Mn 257.610	218.326	ppb	0.2394	0.1	20771.2
Mo 202.032	1.1939	ppb	0.9437	79.0	-4.1862
Na 330.237	387.011	ppb	111.192	28.7	-9.9012
Ni 231.604	16.3862	ppb	0.4995	3.0	49.4212
Pb 220.353	85.2500	ppb	6.1309	7.2	69.7808
Sb 206.834	5.2282	ppb	3.8637	73.9	5.2113
Se 196.026	-5.0270	ppb	8.1415	162.0	-0.3623
Sn 189.925	14.8790	ppb	2.8368	19.1	10.3544
Sr 216.596	273.159	ppb	1.1986	0.4	1631.79
Ti 334.941	644.822	ppb	1.3485	0.2	136336

F04092013.wvq. All Data Report 4/10/2013, 11:45:37 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Tl 190.794	-1.8508	ppb	7.0059	378.5	-2.8119
V 292.401	69.4097	ppb	0.2572	0.4	1984.67
Zn 206.200	132.434	ppb	0.3394	0.3	398.438

**680-88960-a-2-a (Samp)**      **4/9/2013, 9:59:38 PM**      **Rack 2, Tube 16**  
**Weight: 1**      **Volume: 1**      **Dilution: 1**

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0249	ppb	0.3412	1370.2	-18.4589
Al 308.215	30204.9	ppb	400.974	1.3	83427.5
As 188.980	698.685	ppb	21.3862	3.1	238.169
B 249.678	37.0980	ppb	0.9072	2.4	255.340
Ba 389.178	1590.09	ppb	21.9993	1.4	25904.1
Be 313.042	1.7489	ppb	0.0254	1.5	2873.39
Ca 370.602	151261	ppb	1733	1.1	563964
Cd 226.502	5.5463	ppb	0.2021	3.6	230.697
Co 228.615	20.0079	ppb	0.4667	2.3	165.132
Cr 267.716	414.277	ppb	5.6964	1.4	6612.36
Cu 324.754	433.461	ppb	5.7240	1.3	15247.8
Fe 271.441	46315.3	ppb	648.656	1.4	34130.2
K 766.491	4533.70	ppb	52.8428	1.2	565852
Mg 279.078	7984.45	ppb	103.119	1.3	8697.41
Mn 257.610	3063.07	ppb	42.8910	1.4	289545
Mo 202.032	7.7682	ppb	0.1917	2.5	19.7079
Na 330.237	605.481	ppb	177.521	29.3	12.7129
Ni 231.604	54.5731	ppb	2.0630	3.8	157.452
Pb 220.353	619.827	ppb	14.8723	2.4	512.431
Sb 206.834	16.8235	ppb	3.6911	21.9	16.3021
Se 196.026	8.5229	ppb	8.3163	97.6	4.3449
Sn 189.925	49.0881	ppb	3.7818	7.7	30.5116
Sr 216.596	842.125	ppb	12.0444	1.4	4980.71
Ti 334.941	741.324	ppb	10.8957	1.5	156909
Tl 190.794	-7.5884	ppb	8.8760	117.0	-5.8625
V 292.401	142.230	ppb	2.1360	1.5	4002.20
Zn 206.200	1325.15	ppb	18.9593	1.4	3942.17

**680-88960-a-3-a (Samp)**      **4/9/2013, 10:05:05 PM**      **Rack 2, Tube 17**  
**Weight: 1**      **Volume: 1**      **Dilution: 1**

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-2.3725	ppb	0.4756	20.0	-95.1929
Al 308.215	12337.5	ppb	58.1494	0.5	34098.2
As 188.980	7.2674	ppb	7.7211	106.2	1.7049
B 249.678	5.8758	ppb	0.2521	4.3	70.9780
Ba 389.178	138.797	ppb	0.5367	0.4	2249.16
Be 313.042	0.6244	ppb	0.0056	0.9	1072.55
Ca 370.602	6475	ppb	18.49	0.3	22769
Cd 226.502	0.0317	ppb	0.0349	110.3	36.7853
Co 228.615	1.6690	ppb	0.7379	44.2	21.9182
Cr 267.716	20.3897	ppb	0.1673	0.8	328.988
Cu 324.754	2.4234	ppb	0.2877	11.9	181.512
Fe 271.441	9782.17	ppb	28.5486	0.3	7206.76
K 766.491	719.718	ppb	1.7400	0.2	91837.8

F04092013.wvq. All Data Report 4/10/2013, 11:45:37 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Mg 279.078	1277.11	ppb	4.8397	0.4	1406.25
Mn 257.610	161.378	ppb	0.5478	0.3	15327.0
Mo 202.032	1.3249	ppb	0.3945	29.8	2.5550
Na 330.237	-18.3540	ppb	85.4758	465.7	-14.8040
Ni 231.604	4.0845	ppb	1.2633	30.9	11.1957
Pb 220.353	28.3421	ppb	1.5160	5.3	24.8150
Sb 206.834	6.7417	ppb	4.6159	68.5	3.9775
Se 196.026	1.6490	ppb	9.6737	586.6	2.1175
Sn 189.925	9.3435	ppb	2.6738	28.6	7.1063
Sr 216.596	70.8467	ppb	0.3742	0.5	416.464
Ti 334.941	970.530	ppb	2.4172	0.2	205194
Tl 190.794	-10.4206	ppb	2.2859	21.9	-4.1738
V 292.401	43.4027	ppb	0.3449	0.8	1248.72
Zn 206.200	11.9163	ppb	0.9279	7.8	39.0218

680-88960-a-6-a (Samp)

4/9/2013, 10:10:31 PM

Rack 2, Tube 18

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1611	ppb	0.3056	189.8	-28.4599
Al 308.215	53816.0	ppb	21.2401	0.0	148602
As 188.980	167.974	ppb	4.6013	2.7	53.3283
B 249.678	136.656	ppb	0.5043	0.4	918.381
Ba 389.178	3475.58	ppb	2.5794	0.1	56678.6
Be 313.042	2.4002	ppb	0.0046	0.2	3871.17
Ca 370.602	291079	ppb	664.8	0.2	1078110
Cd 226.502	8.9711	ppb	0.0496	0.6	473.415
Co 228.615	29.1286	ppb	0.5401	1.9	255.498
Cr 267.716	345.681	ppb	0.5382	0.2	5476.15
Cu 324.754	494.682	ppb	0.6925	0.1	17095.3
Fe 271.441	129352	ppb	157.859	0.1	95322.4
K 766.491	24316.5	ppb	15.6103	0.1	3025993
Mg 279.078	18851.0	ppb	14.2288	0.1	20431.8
Mn 257.610	6417.56	ppb	2.8999	0.0	606621
Mo 202.032	12.9309	ppb	0.7849	6.1	27.0494
Na 330.237	1881.48	ppb	129.289	6.9	52.3400
Ni 231.604	108.396	ppb	2.0591	1.9	316.099
Pb 220.353	722.174	ppb	9.6655	1.3	594.264
Sb 206.834	19.8394	ppb	4.0886	20.6	19.0278
Se 196.026	10.1819	ppb	4.9806	48.9	4.5601
Sn 189.925	112.527	ppb	1.3204	1.2	68.5812
Sr 216.596	1521.08	ppb	0.5387	0.0	9022.26
Ti 334.941	1917.20	ppb	0.8267	0.0	405694
Tl 190.794	-11.8131	ppb	4.3607	36.9	-11.8076
V 292.401	98.5010	ppb	0.2102	0.2	2796.37
Zn 206.200	3372.94	ppb	4.2060	0.1	10031.7

680-88960-a-7-a (Samp)

4/9/2013, 10:15:58 PM

Rack 2, Tube 19

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.5516	ppb	0.4457	80.8	-40.9923
Al 308.215	49819.1	ppb	36.8310	0.1	137567

F04092013.wvq. All Data Report 4/10/2013, 11:45:37 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	219.773	ppb	8.7169	4.0	71.3226
B 249.678	117.461	ppb	0.2267	0.2	736.877
Ba 389.178	3118.87	ppb	3.0940	0.1	50884.1
Be 313.042	2.1939	ppb	0.0031	0.1	3555.08
Ca 370.602	278813	ppb	473.0	0.2	1030262
Cd 226.502	7.7762	ppb	0.2083	2.7	462.838
Co 228.615	29.9711	ppb	0.4203	1.4	256.259
Cr 267.716	337.732	ppb	0.7743	0.2	5344.32
Cu 324.754	500.836	ppb	3.1058	0.6	17355.3
Fe 271.441	137012	ppb	147.963	0.1	100968
K 766.491	19218.7	ppb	8.6463	0.0	2392016
Mg 279.078	17498.2	ppb	26.8940	0.2	18909.8
Mn 257.610	6215.86	ppb	15.1953	0.2	587565
Mo 202.032	17.0861	ppb	1.0773	6.3	40.0193
Na 330.237	1615.59	ppb	95.1536	5.9	34.8766
Ni 231.604	159.766	ppb	0.2389	0.1	462.879
Pb 220.353	644.758	ppb	3.5543	0.6	530.515
Sb 206.834	22.3663	ppb	7.3315	32.8	21.3238
Se 196.026	9.9346	ppb	26.1764	263.5	4.2714
Sn 189.925	85.7710	ppb	3.9069	4.6	52.3792
Sr 216.596	1385.11	ppb	0.6939	0.1	8222.30
Ti 334.941	1497.81	ppb	2.6907	0.2	317001
Tl 190.794	-12.7385	ppb	0.9895	7.8	-12.6317
V 292.401	99.1060	ppb	0.2349	0.2	2810.85
Zn 206.200	3724.40	ppb	5.7534	0.2	11076.5

680-88960-a-8-a (Samp)

4/9/2013, 10:21:24 PM

Rack 2, Tube 20

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.2261	ppb	0.2795	22.8	-59.2272
Al 308.215	16381.5	ppb	19.9684	0.1	45261.1
As 188.980	26.9250	ppb	6.0558	22.5	8.2103
B 249.678	16.4236	ppb	0.6878	4.2	128.502
Ba 389.178	358.110	ppb	1.1865	0.3	5835.88
Be 313.042	0.7404	ppb	0.0035	0.5	1249.25
Ca 370.602	26202	ppb	27.91	0.1	94768
Cd 226.502	0.2848	ppb	0.2164	76.0	71.6128
Co 228.615	6.7206	ppb	0.2707	4.0	57.1038
Cr 267.716	37.1592	ppb	0.1546	0.4	590.118
Cu 324.754	46.3045	ppb	0.1472	0.3	1709.36
Fe 271.441	24227.6	ppb	33.0654	0.1	17852.1
K 766.491	3945.34	ppb	3.3264	0.1	492992
Mg 279.078	3488.13	ppb	10.2918	0.3	3802.10
Mn 257.610	847.990	ppb	1.2085	0.1	80218.3
Mo 202.032	1.4918	ppb	0.8758	58.7	1.3682
Na 330.237	314.963	ppb	37.5544	11.9	3.3823
Ni 231.604	15.0729	ppb	0.6169	4.1	43.4374
Pb 220.353	85.5166	ppb	1.8967	2.2	71.6567
Sb 206.834	6.4572	ppb	3.8175	59.1	5.0502
Se 196.026	-9.6200	ppb	2.7362	28.4	-0.8410
Sn 189.925	15.5286	ppb	2.7825	17.9	10.6800
Sr 216.596	168.119	ppb	1.6245	1.0	996.523
Ti 334.941	600.336	ppb	0.3803	0.1	126941

F04092013.wvq. All Data Report 4/10/2013, 11:45:37 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Tl 190.794	-3.2143	ppb	2.8335	88.2	-2.0048
V 292.401	36.3788	ppb	0.0448	0.1	1048.54
Zn 206.200	299.066	ppb	0.8618	0.3	892.910

680-88960-a-11-a (Samp) 4/9/2013, 10:26:52 PM Rack 2, Tube 21

Weight: 1 Volume: 1 Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.3842b	ppb	1.0226	73.9	-36.6586
Al 308.215	67438.6b	ppb	88.9052	0.1	186219
As 188.980	56.6171b	ppb	7.2055	12.7	9.9588
B 249.678	262.849b	ppb	1.2166	0.5	2193.39
Ba 389.178	5514.82b	ppb	3.6364	0.1	89753.8
Be 313.042	1.7056b	ppb	0.0083	0.5	2916.09
Ca 370.602	680282b	ppb	1838	0.3	2566280
Cd 226.502	5.0494b	ppb	0.4331	8.6	214.628
Co 228.615	24.9774b	ppb	0.3651	1.5	215.413
Cr 267.716	97.7098b	ppb	0.0595	0.1	1559.08
Cu 324.754	268.195b	ppb	0.8948	0.3	7899.32
Fe 271.441	42471.4b	ppb	46.0345	0.1	31297.8
K 766.491	43624.7xb	ppb	432.343	1.0	5427080
Mg 279.078	25987.5b	ppb	36.8372	0.1	28614.3
Mn 257.610	8932.96b	ppb	3.4018	0.0	844204
Mo 202.032	4.5975b	ppb	0.4587	10.0	10.0937
Na 330.237	2882.55b	ppb	122.786	4.3	158.216
Ni 231.604	35.1272b	ppb	1.6080	4.6	102.488
Pb 220.353	193.936b	ppb	3.6958	1.9	155.858
Sb 206.834	5.7370b	ppb	7.7801	135.6	10.1887
Se 196.026	7.3176b	ppb	8.5079	116.3	6.9529
Sn 189.925	32.4933b	ppb	2.5008	7.7	18.7084
Sr 216.596	3305.80b	ppb	5.6000	0.2	19516.0
Ti 334.941	1397.74b	ppb	1.7523	0.1	296258
Tl 190.794	-12.4082b	ppb	9.5587	77.0	-12.6078
V 292.401	86.6337b	ppb	0.2933	0.3	2452.15
Zn 206.200	819.895b	ppb	1.8986	0.2	2441.99

680-88960-a-12-a (Samp) 4/9/2013, 10:32:19 PM Rack 2, Tube 22

Weight: 1 Volume: 1 Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.7238	ppb	0.6058	83.7	-23.9005
Al 308.215	57250.2	ppb	79.1776	0.1	158090
As 188.980	318.706	ppb	8.2625	2.6	100.799
B 249.678	229.252	ppb	0.1702	0.1	1827.85
Ba 389.178	4870.23	ppb	7.4553	0.2	79321.3
Be 313.042	1.9153	ppb	0.0028	0.1	3239.75
Ca 370.602	646980	ppb	1323	0.2	2434098
Cd 226.502	10.6177	ppb	0.4446	4.2	404.210
Co 228.615	31.1683	ppb	0.6352	2.0	273.000
Cr 267.716	704.233	ppb	2.1096	0.3	11243.1
Cu 324.754	503.671	ppb	1.6040	0.3	16435.5
Fe 271.441	77145.0	ppb	144.123	0.2	56849.4
K 766.491	36034.0	ppb	50.4565	0.1	4483092

F04092013.wvq. All Data Report 4/10/2013, 11:45:37 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Mg 279.078	30808.2	ppb	45.5415	0.1	33828.2
Mn 257.610	9816.51	ppb	25.1141	0.3	927742
Mo 202.032	7.5577	ppb	0.4653	6.2	15.5234
Na 330.237	2738.10	ppb	93.1949	3.4	130.961
Ni 231.604	103.693	ppb	2.5519	2.5	300.079
Pb 220.353	496.083	ppb	1.9759	0.4	406.589
Sb 206.834	10.9304	ppb	7.5636	69.2	18.5099
Se 196.026	3.6032	ppb	6.4905	180.1	5.4764
Sn 189.925	71.8481	ppb	1.7503	2.4	42.7321
Sr 216.596	2696.59	ppb	6.8228	0.3	15938.6
Ti 334.941	1995.50	ppb	5.0067	0.3	422652
Tl 190.794	-13.2786	ppb	9.4227	71.0	-13.5536
V 292.401	114.240	ppb	0.2699	0.2	3202.44
Zn 206.200	2511.49	ppb	6.6290	0.3	7468.91

680-88960-a-13-a (Samp)

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Rack 2, Tube 23

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.8897	ppb	0.1784	20.0	-44.3145
Al 308.215	24867.0	ppb	52.6729	0.2	68689.0
As 188.980	74.4907	ppb	9.8651	13.2	23.1398
B 249.678	43.3414	ppb	1.0525	2.4	366.879
Ba 389.178	1255.21	ppb	6.0206	0.5	20432.3
Be 313.042	1.1936	ppb	0.0059	0.5	1976.20
Ca 370.602	144292	ppb	600.6	0.4	542233
Cd 226.502	1.7360	ppb	0.2712	15.6	96.1703
Co 228.615	10.0033	ppb	0.3992	4.0	84.6140
Cr 267.716	338.659	ppb	2.3301	0.7	5416.16
Cu 324.754	82.1424	ppb	0.6996	0.9	2673.08
Fe 271.441	20571.6	ppb	99.9836	0.5	15157.7
K 766.491	13187.0	ppb	43.1166	0.3	1642258
Mg 279.078	9832.13	ppb	13.2090	0.1	10829.4
Mn 257.610	2211.55	ppb	11.9740	0.5	209066
Mo 202.032	2.8177	ppb	0.7052	25.0	6.3728
Na 330.237	736.442	ppb	45.4328	6.2	32.3612
Ni 231.604	18.5819	ppb	0.2030	1.1	53.4578
Pb 220.353	95.9953	ppb	6.5378	6.8	79.1982
Sb 206.834	8.8498	ppb	6.8768	77.7	10.1267
Se 196.026	1.1499	ppb	5.2275	454.6	2.6859
Sn 189.925	24.6386	ppb	1.7713	7.2	15.7601
Sr 216.596	619.261	ppb	1.7815	0.3	3657.43
Ti 334.941	670.635	ppb	3.6864	0.5	141949
Tl 190.794	-10.8717	ppb	1.0679	9.8	-6.3289
V 292.401	51.5661	ppb	0.3388	0.7	1454.77
Zn 206.200	390.446	ppb	1.5050	0.4	1163.55

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Rack 2, Tube 24

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	1.3853	ppb	1.1151	80.5	14.8390
Al 308.215	48736.9	ppb	2571.57	5.3	134583

F04092013.wvq. All Data Report 4/10/2013, 11:45:37 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	74.8675	ppb	10.5350	14.1	21.7839
B 249.678	147.440	ppb	6.0831	4.1	1062.37
Ba 389.178	2252.16	ppb	120.471	5.3	36754.6
Be 313.042	2.0569	ppb	0.1541	7.5	3341.05
Ca 370.602	251884	ppb	17165	6.8	933912
Cd 226.502	3.6647	ppb	0.7456	20.3	312.149
Co 228.615	33.8628	ppb	3.2404	9.6	287.959
Cr 267.716	372.265	ppb	20.0947	5.4	5911.18
Cu 324.754	905.537	ppb	75.2093	8.3	31908.6
Fe 271.441	106326	ppb	5823.96	5.5	78354.6
K 766.491	20234.6	ppb	836.276	4.1	2518597
Mg 279.078	16956.4	ppb	868.205	5.1	18416.8
Mn 257.610	4544.53	ppb	248.776	5.5	429618
Mo 202.032	42.8719	ppb	2.0799	4.9	130.662
Na 330.237	2151.21	ppb	45.3649	2.1	78.9711
Ni 231.604	96.1267	ppb	4.2282	4.4	279.704
Pb 220.353	852.101	ppb	51.4287	6.0	702.529
Sb 206.834	19.2513	ppb	2.5786	13.4	18.3175
Se 196.026	7.4308	ppb	5.2169	70.2	3.7491
Sn 189.925	96.2880	ppb	3.5799	3.7	58.8613
Sr 216.596	1272.16	ppb	67.8884	5.3	7543.33
Ti 334.941	1668.49	ppb	91.5260	5.5	353062
Tl 190.794	-10.1568	ppb	1.6953	16.7	-9.9368
V 292.401	104.128	ppb	5.4086	5.2	2942.36
Zn 206.200	1168.69	ppb	63.2369	5.4	3478.95

Cont Calib Verif (CCV)

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Rack 2, Tube 25

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	493.636	ppb	1.1887	0.2	14853.9	98.72718
Al 308.215	4975.44	ppb	8.4064	0.2	14020.1	99.50883
As 188.980	484.468	ppb	0.5956	0.1	167.004	96.89369
B 249.678	507.745	ppb	1.1339	0.2	4376.26	20.30981Q
Ba 389.178	5102.42	ppb	7.5047	0.1	82993.6	102.04835
Be 313.042	516.190	ppb	1.0422	0.2	785544	103.23799
Ca 370.602	5043	ppb	4.680	0.1	18368	100.85790
Cd 226.502	511.871	ppb	0.7377	0.1	11084.3	102.37421
Co 228.615	513.610	ppb	1.5374	0.3	4054.32	102.72201
Cr 267.716	5207.86	ppb	7.6843	0.1	83275.6	104.15726
Cu 324.754	5032.06	ppb	37.7357	0.7	180279	100.64120
Fe 271.441	5024.26	ppb	17.4929	0.3	3759.86	100.48522
K 766.491	10023.2	ppb	14.3783	0.1	1247735	100.23190
Mg 279.078	4915.24	ppb	6.9452	0.1	5437.71	98.30483
Mn 257.610	5322.67	ppb	8.5654	0.2	502984	106.45334
Mo 202.032	492.373	ppb	4.5110	0.9	1647.44	98.47453
Na 330.237	7486.23	ppb	95.7833	1.3	486.852	99.81636
Ni 231.604	2576.48	ppb	7.6122	0.3	7343.68	103.05926
Pb 220.353	491.484	ppb	9.4295	1.9	404.206	98.29681
Sb 206.834	922.898	ppb	12.1082	1.3	619.096	36.91592Q
Se 196.026	4875.81	ppb	7.0429	0.1	1269.67	97.51620
Sn 189.925	4941.79	ppb	10.7778	0.2	2983.80	98.83584
Sr 216.596	2506.07	ppb	4.7312	0.2	14654.8	100.24274
Ti 334.941	495.359	ppb	1.2046	0.2	105934	99.07190



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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Tl 190.794	4954.90	ppb	11.5645	0.2	2196.37	99.09794
V 292.401	4901.63	ppb	9.8928	0.2	137406	98.03268
Zn 206.200	2596.93	ppb	7.1812	0.3	7703.82	103.87733

Cont Calib Blank (CCB)

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Rack 2, Tube 26

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	-0.0850	ppb	0.4140	487.0	-21.9694	-0.08501
Al 308.215	-4.0675	ppb	4.6359	114.0	24.7781	-4.06751
As 188.980	1.6371	ppb	2.7622	168.7	-0.1456	1.63710
B 249.678	0.9248	ppb	0.4318	46.7	50.7485	0.92481
Ba 389.178	-0.0294	ppb	1.2623	4297.6	-21.9611	-0.02937
Be 313.042	-0.0651	ppb	0.0251	38.5	-1.0322	-0.06511
Ca 370.602	-1.387	ppb	2.548	183.8	-66.01	-1.38673
Cd 226.502	-0.0953	ppb	0.1293	135.7	13.5621	-0.09526
Co 228.615	-1.0871	ppb	0.8830	81.2	-13.3701	-1.08706
Cr 267.716	0.4782	ppb	0.3077	64.3	15.0780	0.47821
Cu 324.754	-0.0275	ppb	0.5631	2051.3	113.778	-0.02745
Fe 271.441	0.5535	ppb	4.5103	814.8	-2.1851	0.55354
K 766.491	-0.6470	ppb	0.2972	45.9	2273.51	-0.64701
Mg 279.078	-3.2311	ppb	4.7487	147.0	23.2845	-3.23112
Mn 257.610	0.1322	ppb	0.1921	145.2	67.6876	0.13223
Mo 202.032	0.4939	ppb	0.3975	80.5	0.9078	0.49387
Na 330.237	39.5735	ppb	152.245	384.7	0.5083	39.57346
Ni 231.604	1.4510	ppb	1.0436	71.9	3.0705	1.45105
Pb 220.353	2.2493	ppb	3.7651	167.4	4.5921	2.24926
Sb 206.834	2.1568	ppb	1.0002	46.4	2.1478	2.15682
Se 196.026	-4.9876	ppb	5.2013	104.3	0.4585	-4.98764
Sn 189.925	-1.7713	ppb	2.1014	118.6	0.1868	-1.77129
Sr 216.596	-0.5883	ppb	0.5409	91.9	-9.1521	-0.58826
Ti 334.941	0.0052	ppb	0.0453	877.8	-28.7351	0.00516
Tl 190.794	0.0905	ppb	0.4254	470.0	0.3924	0.09051
V 292.401	-0.0512	ppb	0.0755	147.5	18.1380	-0.05118
Zn 206.200	0.0564	ppb	0.3487	618.1	3.5713	0.05641

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Rack 2, Tube 27

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	3.7269	ppb	0.8579	23.0	70.8926
Al 308.215	39108.6	ppb	62.5664	0.2	107994
As 188.980	253.375	ppb	1.5762	0.6	84.5071
B 249.678	93.0096	ppb	0.9406	1.0	457.892
Ba 389.178	1903.77	ppb	3.7542	0.2	31152.4
Be 313.042	1.1975	ppb	0.0120	1.0	2001.71
Ca 370.602	154814	ppb	595.2	0.4	555465
Cd 226.502	10.5531	ppb	0.1669	1.6	584.363
Co 228.615	27.4186	ppb	0.4707	1.7	233.887
Cr 267.716	429.679	ppb	1.7588	0.4	6795.20
Cu 324.754	973.495	ppb	6.2335	0.6	34633.8
Fe 271.441	167863	ppb	349.314	0.2	123702
K 766.491	12847.3	ppb	11.6626	0.1	1599834

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Mg 279.078	13511.7	ppb	24.3718	0.2	14400.6
Mn 257.610	3512.64	ppb	8.5077	0.2	332177
Mo 202.032	20.3677	ppb	0.8825	4.3	47.0781
Na 330.237	1211.42	ppb	23.4018	1.9	-5.5931
Ni 231.604	99.7260	ppb	0.9057	0.9	293.454
Pb 220.353	1381.53	ppb	4.7385	0.3	1141.87
Sb 206.834	19.8776	ppb	4.8153	24.2	20.4678
Se 196.026	14.1444	ppb	11.0352	78.0	3.9371
Sn 189.925	78.5480	ppb	2.4386	3.1	48.4459
Sr 216.596	762.973	ppb	0.6341	0.1	4567.71
Ti 334.941	1349.24	ppb	1.9329	0.1	285458
Tl 190.794	-5.2858	ppb	7.7853	147.3	-9.4472
V 292.401	83.5997	ppb	0.2598	0.3	2379.02
Zn 206.200	3385.75	ppb	1.4241	0.0	10070.2

680-88960-a-18-a (Samp)

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Rack 2, Tube 28

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.5420	ppb	0.6135	39.8	-74.4519
Al 308.215	65203.0	ppb	32.7235	0.1	180047
As 188.980	27.6346	ppb	8.7603	31.7	8.4946
B 249.678	19.1801	ppb	0.2686	1.4	110.926
Ba 389.178	261.058	ppb	0.2691	0.1	4283.06
Be 313.042	1.2137	ppb	0.0091	0.8	2003.31
Ca 370.602	22415	ppb	7.704	0.0	77110
Cd 226.502	-0.2291	ppb	0.3413	149.0	100.155
Co 228.615	8.6534	ppb	1.0928	12.6	70.1349
Cr 267.716	77.7340	ppb	0.3131	0.4	1228.12
Cu 324.754	4.0127	ppb	0.1995	5.0	213.156
Fe 271.441	42407.8	ppb	37.4236	0.1	31250.2
K 766.491	5649.94	ppb	1.7059	0.0	705040
Mg 279.078	5971.23	ppb	15.0962	0.3	6488.65
Mn 257.610	115.749	ppb	0.2272	0.2	11057.9
Mo 202.032	2.1516	ppb	1.0538	49.0	1.8264
Na 330.237	227.312	ppb	75.0624	33.0	-10.0294
Ni 231.604	12.0847	ppb	0.6193	5.1	36.0985
Pb 220.353	71.3317	ppb	4.2450	6.0	54.5395
Sb 206.834	4.2376	ppb	4.3545	102.8	4.6459
Se 196.026	5.3020	ppb	17.0717	322.0	2.7681
Sn 189.925	10.1568	ppb	2.3986	23.6	7.4116
Sr 216.596	184.332	ppb	0.9365	0.5	1101.08
Ti 334.941	419.236	ppb	0.5800	0.1	88648.7
Tl 190.794	-6.4234	ppb	4.3076	67.1	-4.6497
V 292.401	94.0143	ppb	0.1260	0.1	2669.63
Zn 206.200	33.8895	ppb	0.9178	2.7	105.045

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Rack 2, Tube 29

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.5963	ppb	0.4681	78.5	-29.9971
Al 308.215	27222.0	ppb	183.093	0.7	75189.0

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	30.1834	ppb	7.0614	23.4	5.0102
B 249.678	92.1945	ppb	0.5055	0.5	745.565
Ba 389.178	3183.65	ppb	14.6369	0.5	51825.1
Be 313.042	1.2247	ppb	0.0059	0.5	2083.78
Ca 370.602	358552	ppb	1029	0.3	1349829
Cd 226.502	1.0663	ppb	0.3254	30.5	116.506
Co 228.615	14.4722	ppb	0.1640	1.1	128.973
Cr 267.716	32.0938	ppb	0.4982	1.6	506.602
Cu 324.754	162.282	ppb	1.7892	1.1	4970.88
Fe 271.441	37739.4	ppb	158.738	0.4	27810.0
K 766.491	18023.3	ppb	66.5799	0.4	2243307
Mg 279.078	17868.5	ppb	76.9929	0.4	19657.1
Mn 257.610	4439.99	ppb	18.2875	0.4	419663
Mo 202.032	3.3297	ppb	1.1892	35.7	5.9569
Na 330.237	1165.72	ppb	66.7408	5.7	48.3017
Ni 231.604	22.5829	ppb	1.2096	5.4	66.1560
Pb 220.353	556.109	ppb	3.2199	0.6	460.329
Sb 206.834	8.3978	ppb	3.3689	40.1	8.5013
Se 196.026	5.4979	ppb	6.5139	118.5	4.6241
Sn 189.925	43.7497	ppb	4.6205	10.6	26.6480
Sr 216.596	1732.51	ppb	9.4222	0.5	10232.1
Ti 334.941	1248.58	ppb	4.9682	0.4	264368
Tl 190.794	-18.2445	ppb	7.5896	41.6	-11.8430
V 292.401	58.1519	ppb	0.3577	0.6	1662.12
Zn 206.200	394.063	ppb	3.5540	0.9	1176.09

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Rack 2, Tube 30

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.2657	ppb	0.5779	45.7	-72.1783
Al 308.215	90928.0	ppb	72.1586	0.1	251067
As 188.980	28.8632	ppb	3.0027	10.4	8.8750
B 249.678	32.3344	ppb	0.7304	2.3	139.944
Ba 389.178	274.205	ppb	1.0575	0.4	4547.38
Be 313.042	1.0700	ppb	0.0046	0.4	1814.40
Ca 370.602	23057	ppb	8.316	0.0	72864
Cd 226.502	-0.6639	ppb	0.2109	31.8	166.539
Co 228.615	7.6464	ppb	0.5117	6.7	61.6987
Cr 267.716	98.5005	ppb	0.3957	0.4	1540.38
Cu 324.754	2.6225	ppb	0.2300	8.8	178.111
Fe 271.441	79178.8	ppb	47.9824	0.1	58348.2
K 766.491	15601.7	ppb	18.6596	0.1	1942864
Mg 279.078	10760.5	ppb	28.1583	0.3	11662.0
Mn 257.610	173.018	ppb	0.0907	0.1	16520.6
Mo 202.032	2.2507	ppb	1.6728	74.3	-2.2216
Na 330.237	793.674	ppb	44.8952	5.7	10.3892
Ni 231.604	14.9465	ppb	0.1678	1.1	46.5979
Pb 220.353	83.3294	ppb	4.0013	4.8	61.5145
Sb 206.834	3.6185	ppb	2.6355	72.8	5.4355
Se 196.026	10.6988	ppb	8.2300	76.9	3.6886
Sn 189.925	9.3004	ppb	1.3613	14.6	6.8800
Sr 216.596	250.203	ppb	1.3369	0.5	1506.20
Ti 334.941	339.989	ppb	0.1293	0.0	71896.7

F04092013.wvq. All Data Report 4/10/2013, 11:45:37 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Tl 190.794	-5.2137	ppb	7.4691	143.3	-5.8345
V 292.401	140.815	ppb	0.2719	0.2	3990.56
Zn 206.200	40.0005	ppb	0.5856	1.5	124.150

680-88960-a-23-a (Samp) 4/9/2013, 11:21:24 PM Rack 2, Tube 31

Weight: 1		Volume: 1		Dilution: 1	
Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.5228	ppb	0.5360	35.2	-84.0817
Al 308.215	91016.0	ppb	4328.13	4.8	251307
As 188.980	38.5493	ppb	2.5212	6.5	12.2121
B 249.678	23.2828	ppb	0.7734	3.3	9.6395
Ba 389.178	354.678	ppb	16.5229	4.7	5880.60
Be 313.042	3.4343	ppb	0.1737	5.1	5398.06
Ca 370.602	21365	ppb	725.2	3.4	62214
Cd 226.502	-0.8536	ppb	0.2716	31.8	209.616
Co 228.615	12.2643	ppb	0.2404	2.0	97.9119
Cr 267.716	109.835	ppb	4.9403	4.5	1709.10
Cu 324.754	1.3598	ppb	0.0472	3.5	148.181
Fe 271.441	102567	ppb	4878.56	4.8	75583.8
K 766.491	10062.2	ppb	417.252	4.1	1253823
Mg 279.078	9757.27	ppb	424.392	4.3	10473.4
Mn 257.610	142.026	ppb	6.8220	4.8	13615.4
Mo 202.032	1.7109	ppb	0.8118	47.4	-6.9809
Na 330.237	1425.97	ppb	151.133	10.6	41.1919
Ni 231.604	16.1532	ppb	1.3384	8.3	51.3715
Pb 220.353	81.7197	ppb	0.3299	0.4	60.0508
Sb 206.834	3.8074	ppb	2.4680	64.8	6.3118
Se 196.026	11.0571	ppb	9.4617	85.6	3.3704
Sn 189.925	10.2277	ppb	3.6413	35.6	7.4381
Sr 216.596	280.863	ppb	11.2385	4.0	1697.35
Ti 334.941	290.233	ppb	13.7840	4.7	61375.6
Tl 190.794	-3.9075	ppb	8.0893	207.0	-6.1887
V 292.401	140.246	ppb	6.6020	4.7	3978.30
Zn 206.200	38.6457	ppb	2.2986	5.9	120.598

mb 680-272098/1-a (Samp) 4/9/2013, 11:26:52 PM Rack 2, Tube 32

Weight: 1		Volume: 1		Dilution: 1	
Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.9295	ppb	0.3593	38.7	-47.4930
Al 308.215	41.9992	ppb	0.8516	2.0	151.902
As 188.980	-2.8203	ppb	2.7907	99.0	-1.6826
B 249.678	0.4742	ppb	0.6846	144.4	45.8164
Ba 389.178	-0.5137	ppb	0.3788	73.7	-29.2891
Be 313.042	-0.1056	ppb	0.0050	4.8	-62.8084
Ca 370.602	21.94	ppb	2.365	10.8	-63.69
Cd 226.502	-0.0979	ppb	0.2138	218.5	14.4655
Co 228.615	-1.0611	ppb	0.3411	32.1	-13.1681
Cr 267.716	0.6137	ppb	0.2803	45.7	16.9970
Cu 324.754	-0.4759	ppb	0.2605	54.7	97.8758
Fe 271.441	475.428	ppb	12.6297	2.7	347.762
K 766.491	8.7321	ppb	0.5628	6.4	3440.27

F04092013.wvq. All Data Report 4/10/2013, 11:45:37 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Mg 279.078	1.9405	ppb	3.7607	193.8	27.4022
Mn 257.610	1.3129	ppb	0.0424	3.2	179.778
Mo 202.032	0.6894	ppb	0.1862	27.0	1.5077
Na 330.237	-15.5332	ppb	132.817	855.0	-3.3238
Ni 231.604	1.2074	ppb	0.4994	41.4	2.4037
Pb 220.353	0.7125	ppb	0.9442	132.5	3.3102
Sb 206.834	5.8769	ppb	0.6521	11.1	4.5002
Se 196.026	-0.9188	ppb	6.1695	671.5	1.5083
Sn 189.925	6.8850	ppb	1.8769	27.3	5.4110
Sr 216.596	-0.7299	ppb	0.5981	81.9	-9.7734
Ti 334.941	0.2492	ppb	0.0686	27.5	22.9160
Tl 190.794	-4.0060	ppb	2.5346	63.3	-1.4391
V 292.401	-0.5160	ppb	0.2285	44.3	4.9911
Zn 206.200	2.5518	ppb	0.4977	19.5	10.9998

ics 680-272098/2-a (Samp) 4/9/2013, 11:32:19 PM Rack 2, Tube 33

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	50.0220	ppb	0.2092	0.4	1488.66
Al 308.215	5010.50	ppb	6.2477	0.1	13875.4
As 188.980	97.9781	ppb	5.9841	6.1	33.0111
B 249.678	186.771	ppb	0.5464	0.3	1627.58
Ba 389.178	103.122	ppb	0.5858	0.6	1671.15
Be 313.042	52.7306	ppb	0.0631	0.1	80092.6
Ca 370.602	5014	ppb	8.703	0.2	18016
Cd 226.502	52.0420	ppb	0.4292	0.8	1150.44
Co 228.615	51.6249	ppb	0.8188	1.6	402.735
Cr 267.716	105.633	ppb	0.2856	0.3	1694.34
Cu 324.754	102.802	ppb	0.7990	0.8	3785.35
Fe 271.441	5064.33	ppb	2.9381	0.1	3732.67
K 766.491	5004.45	ppb	4.7650	0.1	624794
Mg 279.078	4894.37	ppb	9.7103	0.2	5422.65
Mn 257.610	542.742	ppb	0.5151	0.1	51354.3
Mo 202.032	102.307	ppb	2.0324	2.0	342.930
Na 330.237	4608.32	ppb	79.3944	1.7	297.020
Ni 231.604	103.398	ppb	1.8933	1.8	294.026
Pb 220.353	47.8469	ppb	3.8268	8.0	41.5672
Sb 206.834	51.2488	ppb	4.6467	9.1	33.8163
Se 196.026	103.315	ppb	6.1020	5.9	28.6848
Sn 189.925	207.982	ppb	2.8448	1.4	126.783
Sr 216.596	100.055	ppb	0.1336	0.1	580.852
Ti 334.941	99.3813	ppb	0.1151	0.1	20996.0
Tl 190.794	33.6011	ppb	3.8103	11.3	15.0582
V 292.401	99.1828	ppb	0.1909	0.2	2779.27
Zn 206.200	102.283	ppb	0.0937	0.1	307.327

ics 680-272098/3-a (Samp) 4/9/2013, 11:37:46 PM Rack 2, Tube 34

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	201.279	ppb	1.5449	0.8	6049.51
Al 308.215	2031.98	ppb	7.0259	0.3	5657.63

F04092013.wvq. All Data Report 4/10/2013, 11:45:37 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	197.320	ppb	6.4036	3.2	67.0581
B 249.678	374.194	ppb	1.3885	0.4	3195.95
Ba 389.178	194.048	ppb	1.3516	0.7	3195.39
Be 313.042	206.809	ppb	0.3026	0.1	313742
Ca 370.602	20186	ppb	54.32	0.3	72640
Cd 226.502	203.681	ppb	0.5105	0.3	4457.77
Co 228.615	203.107	ppb	0.2204	0.1	1598.97
Cr 267.716	208.870	ppb	0.3170	0.2	3338.37
Cu 324.754	204.746	ppb	0.8712	0.4	7403.67
Fe 271.441	20709.3	ppb	60.9169	0.3	15269.6
K 766.491	19675.9	ppb	60.6001	0.3	2449647
Mg 279.078	19590.4	ppb	15.9129	0.1	21622.9
Mn 257.610	2126.06	ppb	3.6189	0.2	201007
Mo 202.032	199.168	ppb	1.2342	0.6	666.847
Na 330.237	17925.0	ppb	106.851	0.6	1161.89
Ni 231.604	205.051	ppb	1.5581	0.8	585.032
Pb 220.353	195.108	ppb	3.9470	2.0	163.565
Sb 206.834	184.952	ppb	2.1600	1.2	120.374
Se 196.026	200.923	ppb	7.1310	3.5	54.2272
Sn 189.925	204.257	ppb	0.9367	0.5	124.509
Sr 216.596	209.298	ppb	0.7026	0.3	1226.67
Ti 334.941	197.503	ppb	0.2901	0.1	41766.2
Tl 190.794	30.5861	ppb	7.4207	24.3	13.3027
V 292.401	199.359	ppb	0.7471	0.4	5567.71
Zn 206.200	191.454	ppb	0.1287	0.1	572.854

640-43026-b-1-a (Samp)

4/9/2013, 11:43:14 PM

Rack 2, Tube 35

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	6.2926b	ppb	0.1662	2.6	-51.4220
Al 308.215	43979.8b	ppb	38.5526	0.1	121348
As 188.980	-30.4388b	ppb	4.9830	16.4	-13.3875
B 249.678	1030.14b	ppb	2.8141	0.3	6203.72
Ba 389.178	2042.00b	ppb	0.8785	0.0	34545.9
Be 313.042	1.8210b	ppb	0.0065	0.4	2905.97
Ca 370.602	118748b	ppb	26.27	0.0	238683
Cd 226.502	10.4122b	ppb	0.6517	6.3	2593.33
Co 228.615	79.7188b	ppb	0.9297	1.2	719.142
Cr 267.716	4741.54b	ppb	4.5857	0.1	75237.7
Cu 324.754	9434.70b	ppb	14.5769	0.2	338238
Fe 271.441	1165558xb	ppb	1951.03	0.2	858930
K 766.491	188139xb	ppb	69.3577	0.0	23403008
Mg 279.078	17496.3b	ppb	11.4885	0.1	15434.8
Mn 257.610	7195.38b	ppb	9.5058	0.1	681295
Mo 202.032	253.647b	ppb	0.5044	0.2	707.038
Na 330.237	118628xb	ppb	156.009	0.1	7195.73
Ni 231.604	2380.63b	ppb	3.6430	0.2	6851.68
Pb 220.353	939.370b	ppb	9.7659	1.0	765.403
Sb 206.834	39.5636b	ppb	11.2554	28.4	88.4075
Se 196.026	10.6985b	ppb	4.6799	43.7	-13.0684
Sn 189.925	665.494b	ppb	3.8934	0.6	404.027
Sr 216.596	249.050b	ppb	1.6601	0.7	1899.75
Ti 334.941	5548.65b	ppb	10.3164	0.2	1173625

F04092013.wvq. All Data Report 4/10/2013, 11:45:37 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Tl 190.794	-7.9554b	ppb	9.6012	120.7	-47.2771
V 292.401	115.860b	ppb	0.2840	0.2	3205.11
Zn 206.200	6178.97b	ppb	9.2321	0.1	18380.5

**640-43026-b-2-a (Samp)**      **4/9/2013, 11:48:42 PM**      **Rack 2, Tube 36**  
**Weight: 1**      **Volume: 1**      **Dilution: 1**

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	6.0281b	ppb	1.4627	24.3	-142.628
Al 308.215	47346.8b	ppb	1105.24	2.3	130584
As 188.980	-71.7548b	ppb	6.3960	8.9	-28.5611
B 249.678	613.887b	ppb	2.6836	0.4	1406.34
Ba 389.178	1570.31b	ppb	40.5497	2.6	27493.1
Be 313.042	1.2362b	ppb	0.0258	2.1	2036.45
Ca 370.602	148983b	ppb	2184	1.5	253915
Cd 226.502	11.4657b	ppb	5.0231	43.8	3719.92
Co 228.615	70.9988b	ppb	1.3833	1.9	648.491
Cr 267.716	4697.71b	ppb	117.389	2.5	74248.5
Cu 324.754	19195.9b	ppb	505.484	2.6	688042
Fe 271.441	1713723xb	ppb	36803.5	2.1	1262889
K 766.491	161820xb	ppb	3550.18	2.2	20129520
Mg 279.078	17109.2b	ppb	309.652	1.8	13152.7
Mn 257.610	11661.4b	ppb	268.374	2.3	1103863
Mo 202.032	218.597b	ppb	2.1120	1.0	520.279
Na 330.237	51395.0b	ppb	873.246	1.7	2545.21
Ni 231.604	2006.44b	ppb	50.0397	2.5	5817.49
Pb 220.353	1249.74b	ppb	28.1826	2.3	1019.20
Sb 206.834	39.5514b	ppb	7.3329	18.5	103.044
Se 196.026	22.5106b	ppb	21.0549	93.5	-18.2719
Sn 189.925	658.439b	ppb	18.8943	2.9	399.551
Sr 216.596	261.305b	ppb	10.9167	4.2	2228.20
Ti 334.941	4775.43b	ppb	126.474	2.6	1010163
Tl 190.794	-21.8918b	ppb	14.3510	65.6	-75.8169
V 292.401	119.060b	ppb	3.1445	2.6	3400.67
Zn 206.200	10699.2b	ppb	251.903	2.4	31829.5

**Cont Calib Verif (CCV)**      **4/9/2013, 11:54:09 PM**      **Rack 2, Tube 37**  
**Weight: 1**      **Volume: 1**      **Dilution: 1**

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	498.262	ppb	1.6804	0.3	14993.2	99.65231
Al 308.215	5002.79	ppb	1.9619	0.0	14097.2	100.05574
As 188.980	485.420	ppb	4.9059	1.0	167.337	97.08399
B 249.678	511.732	ppb	1.2253	0.2	4410.14	20.46929Q
Ba 389.178	5131.99	ppb	11.9562	0.2	83474.9	102.63983
Be 313.042	519.215	ppb	1.4121	0.3	790148	103.84296
Ca 370.602	5065	ppb	4.895	0.1	18435	101.30273
Cd 226.502	514.827	ppb	1.2219	0.2	11148.4	102.96549
Co 228.615	516.275	ppb	2.3819	0.5	4075.40	103.25508
Cr 267.716	5242.60	ppb	18.8925	0.4	83831.1	104.85209
Cu 324.754	5087.61	ppb	7.2986	0.1	182269	101.75224
Fe 271.441	5131.98	ppb	8.8425	0.2	3839.61	102.63950
K 766.491	10087.0	ppb	24.7424	0.2	1255667	100.87023

F04092013.wvq. All Data Report 4/10/2013, 11:45:37 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Mg 279.078	4952.05	ppb	8.9373	0.2	5478.02	99.04108
Mn 257.610	5357.75	ppb	19.6177	0.4	506298	107.15494
Mo 202.032	495.937	ppb	3.5818	0.7	1659.37	99.18745
Na 330.237	7423.76	ppb	74.3162	1.0	482.708	98.98352
Ni 231.604	2592.33	ppb	4.7139	0.2	7388.86	103.69324
Pb 220.353	498.750	ppb	3.5257	0.7	410.189	99.74995
Sb 206.834	927.926	ppb	1.8290	0.2	622.486	37.11705Q
Se 196.026	4904.38	ppb	41.4722	0.8	1277.10	98.08752
Sn 189.925	4980.56	ppb	18.0260	0.4	3007.20	99.61121
Sr 216.596	2516.96	ppb	4.6978	0.2	14718.3	100.67833
Ti 334.941	498.681	ppb	1.7219	0.3	105739	99.73628
Tl 190.794	5001.76	ppb	6.6067	0.1	2217.12	100.03518
V 292.401	4933.37	ppb	9.1537	0.2	138296	98.66742
Zn 206.200	2610.66	ppb	7.7833	0.3	7744.50	104.42630

Cont Calib Blank (CCB)

4/9/2013, 11:59:37 PM

Rack 2, Tube 38

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.0648	ppb	0.4431	684.2	-17.4582	0.06476
Al 308.215	-3.8525	ppb	1.7309	44.9	25.3798	-3.85245
As 188.980	3.2676	ppb	2.9276	89.6	0.4166	3.26762
B 249.678	1.3424	ppb	0.4992	37.2	54.2742	1.34243
Ba 389.178	0.4575	ppb	0.4196	91.7	-14.0300	0.45749
Be 313.042	-0.0699	ppb	0.0046	6.5	-8.4213	-0.06990
Ca 370.602	-3.710	ppb	1.441	38.8	-77.73	-3.71045
Cd 226.502	-0.1211	ppb	0.1772	146.3	13.0368	-0.12110
Co 228.615	-0.8330	ppb	0.4218	50.6	-11.3739	-0.83305
Cr 267.716	0.6453	ppb	0.2670	41.4	17.7421	0.64529
Cu 324.754	0.0735	ppb	0.0198	27.0	117.409	0.07351
Fe 271.441	17.6550	ppb	5.1791	29.3	10.4163	17.65495
K 766.491	2.7101	ppb	0.1711	6.3	2690.95	2.71007
Mg 279.078	-3.5206	ppb	0.8893	25.3	22.9098	-3.52058
Mn 257.610	0.0903	ppb	0.0737	81.6	63.7292	0.09025
Mo 202.032	0.5833	ppb	0.0967	16.6	1.2072	0.58335
Na 330.237	-56.1930	ppb	73.0526	130.0	-5.7766	-56.19298
Ni 231.604	0.5868	ppb	1.1530	196.5	0.6094	0.58679
Pb 220.353	0.0985	ppb	1.2021	1220.3	2.8092	0.09850
Sb 206.834	3.5634	ppb	0.8453	23.7	3.0433	3.56344
Se 196.026	12.8167	ppb	12.3090	96.0	5.0846	12.81669Z
Sn 189.925	-2.6432	ppb	3.7702	142.6	-0.3394	-2.64318
Sr 216.596	-0.0021	ppb	0.3653	17284.8	-5.6718	-0.00211
Ti 334.941	0.0098	ppb	0.0408	416.2	-27.7491	0.00979
Tl 190.794	-0.1758	ppb	3.3593	1911.4	0.2733	-0.17575
V 292.401	-0.1834	ppb	0.0787	42.9	14.2626	-0.18339
Zn 206.200	-0.3408	ppb	0.1830	53.7	2.3910	-0.34075

640-43026-b-3-a (Samp)

4/10/2013, 12:05:04 AM

Rack 2, Tube 39

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	8.9017b	ppb	0.6380	7.2	57.3106
Al 308.215	6804.65b	ppb	13.5291	0.2	18702.7



F04092013.wvq. All Data Report 4/10/2013, 11:45:37 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	31.3716b	ppb	3.7101	11.8	7.1663
B 249.678	118.115b	ppb	1.0853	0.9	-1685.62
Ba 389.178	765.385b	ppb	0.9572	0.1	13819.9
Be 313.042	0.2699b	ppb	0.0034	1.3	549.934
Ca 370.602	146035b	ppb	31.12	0.0	333708
Cd 226.502	3.2283b	ppb	0.8648	26.8	2521.79
Co 228.615	89.7217b	ppb	0.4575	0.5	727.471
Cr 267.716	2091.69b	ppb	3.3025	0.2	32828.0
Cu 324.754	2794.15b	ppb	5.4871	0.2	100352
Fe 271.441	1208681xb	ppb	2698.85	0.2	890712
K 766.491	16427.1b	ppb	10.5369	0.1	2045366
Mg 279.078	13027.4b	ppb	20.4949	0.2	10346.6
Mn 257.610	8296.07b	ppb	10.7194	0.1	785276
Mo 202.032	163.854b	ppb	2.3011	1.4	399.023
Na 330.237	2680.30b	ppb	68.4039	2.6	-390.420
Ni 231.604	1154.11b	ppb	6.3653	0.6	3358.94
Pb 220.353	876.024b	ppb	20.4967	2.3	719.014
Sb 206.834	14.2928b	ppb	9.1508	64.0	58.6116
Se 196.026	-14.2022b	ppb	10.7871	76.0	-20.1313
Sn 189.925	234.861b	ppb	6.6754	2.8	142.773
Sr 216.596	143.885b	ppb	2.3793	1.7	1351.16
Ti 334.941	408.913b	ppb	2.1429	0.5	86743.8
Tl 190.794	-7.8097b	ppb	12.2651	157.0	-51.9079
V 292.401	54.7870b	ppb	0.3342	0.6	1627.87
Zn 206.200	3859.54b	ppb	0.1008	0.0	11496.7

640-43026-b-4-a (Samp)

4/10/2013, 12:10:31 AM

Rack 2, Tube 40

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	7.1870b	ppb	0.6106	8.5	-34.6627
Al 308.215	28675.9b	ppb	66.4723	0.2	79074.1
As 188.980	-24.9608b	ppb	5.4091	21.7	-12.3446
B 249.678	524.937b	ppb	2.5427	0.5	1493.08
Ba 389.178	1193.55b	ppb	1.5642	0.1	20937.2
Be 313.042	0.7893b	ppb	0.0173	2.2	1354.17
Ca 370.602	156069b	ppb	1137	0.7	348121
Cd 226.502	9.4773b	ppb	0.5421	5.7	2922.62
Co 228.615	70.9360b	ppb	1.5138	2.1	614.300
Cr 267.716	3134.17b	ppb	6.6184	0.2	49433.6
Cu 324.754	7003.78b	ppb	45.0667	0.6	251154
Fe 271.441	1339405xb	ppb	1646.08	0.1	987045
K 766.491	108628xb	ppb	32.2768	0.0	13513472
Mg 279.078	15268.3b	ppb	65.4426	0.4	12383.2
Mn 257.610	7921.28b	ppb	24.9887	0.3	750040
Mo 202.032	185.454b	ppb	1.9241	1.0	455.460
Na 330.237	40357.5b	ppb	164.953	0.4	2004.10
Ni 231.604	1402.69b	ppb	4.0953	0.3	4075.08
Pb 220.353	1386.00b	ppb	0.8358	0.1	1137.57
Sb 206.834	40.0905b	ppb	10.0399	25.0	83.2390
Se 196.026	-11.1946b	ppb	19.9401	178.1	-21.4961
Sn 189.925	659.339b	ppb	7.0063	1.1	399.521
Sr 216.596	210.382b	ppb	1.5049	0.7	1790.60
Ti 334.941	2789.62b	ppb	3.4898	0.1	590200

F04092013.wvq. All Data Report 4/10/2013, 11:45:37 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Tl 190.794	-6.1627b	ppb	8.0652	130.9	-55.2047
V 292.401	93.2142b	ppb	0.8655	0.9	2689.46
Zn 206.200	6197.20b	ppb	8.0953	0.1	18444.6

**680-89034-a-1-a (Samp)**      **4/10/2013, 12:15:59 AM**      **Rack 2, Tube 41**  
**Weight: 1**      **Volume: 1**      **Dilution: 1**

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	10.0039	ppb	0.6538	6.5	315.437
Al 308.215	16727.3	ppb	28.4724	0.2	46217.0
As 188.980	8.4054	ppb	3.3699	40.1	2.0309
B 249.678	51.3254	ppb	0.9044	1.8	432.567
Ba 389.178	665.857	ppb	0.6110	0.1	10836.7
Be 313.042	0.3434	ppb	0.0102	3.0	633.364
Ca 370.602	14818	ppb	13.61	0.1	52404
Cd 226.502	162.999	ppb	0.5286	0.3	3581.22
Co 228.615	5.7258	ppb	0.5984	10.5	43.6007
Cr 267.716	293.748	ppb	0.3570	0.1	4705.49
Cu 324.754	221.007	ppb	1.4589	0.7	7999.32
Fe 271.441	21458.8	ppb	16.9810	0.1	15811.2
K 766.491	4055.76	ppb	4.9433	0.1	506646
Mg 279.078	2860.13	ppb	4.7089	0.2	3102.71
Mn 257.610	9332.96	ppb	4.9157	0.1	881902
Mo 202.032	47.6022	ppb	0.6693	1.4	156.972
Na 330.237	2571.92	ppb	126.957	4.9	155.359
Ni 231.604	54.3219	ppb	0.5706	1.1	155.089
Pb 220.353	23.4927	ppb	0.8755	3.7	19.9662
Sb 206.834	0.2698	ppb	2.0122	745.7	3.7382
Se 196.026	1.9403	ppb	13.0117	670.6	3.6895
Sn 189.925	25.6408	ppb	1.7698	6.9	16.7381
Sr 216.596	115.123	ppb	0.5034	0.4	680.251
Ti 334.941	240.819	ppb	0.2761	0.1	50924.2
Tl 190.794	-15.7224	ppb	8.9173	56.7	-7.6054
V 292.401	30.2991	ppb	0.1645	0.5	830.829
Zn 206.200	414.240	ppb	0.5623	0.1	1234.22

**680-89038-b-6-a (Samp)**      **4/10/2013, 12:21:26 AM**      **Rack 2, Tube 42**  
**Weight: 1**      **Volume: 1**      **Dilution: 1**

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	16.2995	ppb	0.5686	3.5	450.896
Al 308.215	96240.6	ppb	2586.67	2.7	265704
As 188.980	249.349	ppb	14.3807	5.8	82.7541
B 249.678	145.213	ppb	1.1329	0.8	220.083
Ba 389.178	2638.08	ppb	59.1560	2.2	43455.8
Be 313.042	10.6530	ppb	0.2340	2.2	16497.4
Ca 370.602	155923	ppb	2254	1.4	505257
Cd 226.502	19.5215	ppb	0.7815	4.0	1391.33
Co 228.615	98.1226	ppb	2.9945	3.1	800.601
Cr 267.716	340.895	ppb	5.0942	1.5	5227.72
Cu 324.754	1081.83	ppb	21.1439	2.0	38641.2
Fe 271.441	470135	ppb	10594.7	2.3	346462
K 766.491	13099.5	ppb	291.139	2.2	1631001

F04092013.wvq. All Data Report 4/10/2013, 11:45:37 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Mg 279.078	24554.6	ppb	511.755	2.1	25573.6
Mn 257.610	16579.3	ppb	346.764	2.1	1567128
Mo 202.032	24.5464	ppb	1.0120	4.1	23.3722
Na 330.237	2247.87	ppb	66.2922	2.9	-74.1969
Ni 231.604	170.522	ppb	5.0463	3.0	513.311
Pb 220.353	2624.42	ppb	45.3579	1.7	2163.92
Sb 206.834	25.8922	ppb	6.1110	23.6	30.3120
Se 196.026	8.7736	ppb	9.5243	108.6	0.0951
Sn 189.925	106.015	ppb	2.3378	2.2	65.1294
Sr 216.596	649.461	ppb	14.7491	2.3	4034.82
Ti 334.941	1589.36	ppb	37.5979	2.4	336241
Tl 190.794	-27.7920	ppb	8.1245	29.2	-31.3897
V 292.401	357.141	ppb	7.9557	2.2	10111.0
Zn 206.200	7771.15	ppb	170.430	2.2	23113.3

680-89038-b-6-aSD^5 (Samp) 4/10/2013, 12:26:54 AM Rack 2, Tube 43

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	2.6274	ppb	0.1857	7.1	56.1261
Al 308.215	18798.0	ppb	128.831	0.7	51926.7
As 188.980	47.1958	ppb	8.6962	18.4	15.0509
B 249.678	30.7209	ppb	0.4844	1.6	86.5503
Ba 389.178	535.813	ppb	3.1662	0.6	8810.56
Be 313.042	2.0724	ppb	0.0111	0.5	3289.71
Ca 370.602	31770	ppb	204.2	0.6	102739
Cd 226.502	3.5704	ppb	0.2437	6.8	288.955
Co 228.615	20.2383	ppb	0.5368	2.7	161.245
Cr 267.716	68.9658	ppb	0.9683	1.4	1062.93
Cu 324.754	210.933	ppb	1.9720	0.9	7625.00
Fe 271.441	96746.5	ppb	686.304	0.7	71294.3
K 766.491	2424.20	ppb	14.0355	0.6	303740
Mg 279.078	5034.56	ppb	26.3770	0.5	5263.48
Mn 257.610	3561.13	ppb	24.4402	0.7	336647
Mo 202.032	5.9922	ppb	0.7172	12.0	7.3707
Na 330.237	541.772	ppb	81.2260	15.0	-11.6481
Ni 231.604	36.7308	ppb	0.7165	2.0	109.455
Pb 220.353	541.228	ppb	3.4911	0.6	448.539
Sb 206.834	3.8277	ppb	5.7723	150.8	5.9129
Se 196.026	-0.6748	ppb	10.3332	1531.4	0.7912
Sn 189.925	17.2173	ppb	2.4634	14.3	11.6247
Sr 216.596	132.958	ppb	1.7903	1.3	821.655
Ti 334.941	323.048	ppb	2.3169	0.7	68319.5
Tl 190.794	-6.9560	ppb	5.1657	74.3	-6.7158
V 292.401	72.0901	ppb	0.6089	0.8	2056.29
Zn 206.200	1627.14	ppb	11.4604	0.7	4842.17

680-89038-b-6-aPDS (Samp) 4/10/2013, 12:32:21 AM Rack 2, Tube 44

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	66.0433	ppb	0.2473	0.4	1949.31
Al 308.215	97187.8	ppb	117.921	0.1	268353

F04092013.wvq. All Data Report 4/10/2013, 11:45:37 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	2262.47	ppb	1.0100	0.0	776.624
B 249.678	1095.84	ppb	3.4986	0.3	8365.99
Ba 389.178	4551.80	ppb	8.8283	0.2	74579.9
Be 313.042	60.3879	ppb	0.1109	0.2	92133.6
Ca 370.602	158156	ppb	234.2	0.1	515160
Cd 226.502	67.9851	ppb	0.1587	0.2	2423.51
Co 228.615	592.561	ppb	2.5594	0.4	4711.10
Cr 267.716	534.665	ppb	1.5003	0.3	8328.86
Cu 324.754	1327.19	ppb	6.7597	0.5	47413.0
Fe 271.441	462684	ppb	402.980	0.1	340997
K 766.491	18604.2	ppb	22.5527	0.1	2315197
Mg 279.078	29102.8	ppb	68.4596	0.2	30629.1
Mn 257.610	16768.3	ppb	21.0485	0.1	1584996
Mo 202.032	519.213	ppb	1.1005	0.2	1688.84
Na 330.237	7220.74	ppb	102.619	1.4	249.013
Ni 231.604	652.769	ppb	7.3324	1.1	1887.89
Pb 220.353	3044.13	ppb	3.0858	0.1	2510.69
Sb 206.834	492.601	ppb	4.1160	0.8	323.028
Se 196.026	1975.57	ppb	0.7037	0.0	511.372
Sn 189.925	1053.49	ppb	8.2124	0.8	637.164
Sr 216.596	1120.49	ppb	1.6617	0.1	6780.34
Ti 334.941	2529.27	ppb	4.6399	0.2	534995
Tl 190.794	1875.98	ppb	4.4800	0.2	811.923
V 292.401	833.492	ppb	1.1485	0.1	23383.4
Zn 206.200	8108.67	ppb	12.5248	0.2	24115.8

680-89038-b-6-b ms (Samp)

4/10/2013, 12:37:48 AM

Rack 2, Tube 45

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	31.7040b	ppb	0.1290	0.4	962.978
Al 308.215	133922b	ppb	249.911	0.2	369742
As 188.980	401.654b	ppb	15.5353	3.9	134.635
B 249.678	349.377b	ppb	2.0697	0.6	1872.42
Ba 389.178	3237.30b	ppb	1.9604	0.1	53265.8
Be 313.042	64.6367b	ppb	0.0446	0.1	98464.6
Ca 370.602	202130b	ppb	268.5	0.1	673140
Cd 226.502	70.5631b	ppb	0.4598	0.7	2578.99
Co 228.615	161.336b	ppb	0.9252	0.6	1311.79
Cr 267.716	473.983b	ppb	0.7883	0.2	7350.84
Cu 324.754	1595.78b	ppb	5.7021	0.4	56936.5
Fe 271.441	511313b	ppb	653.910	0.1	376811
K 766.491	44835.9xb	ppb	70.9809	0.2	5578307
Mg 279.078	34504.3b	ppb	44.7057	0.1	36417.9
Mn 257.610	30571.7xb	ppb	32.1969	0.1	2889264
Mo 202.032	119.356b	ppb	0.5999	0.5	337.528
Na 330.237	10591.2b	ppb	47.1728	0.4	449.012
Ni 231.604	259.343b	ppb	1.2566	0.5	769.168
Pb 220.353	3192.48b	ppb	6.6141	0.2	2630.05
Sb 206.834	44.2936b	ppb	0.6921	1.6	42.6150
Se 196.026	97.1329b	ppb	11.7865	12.1	25.2070
Sn 189.925	380.106b	ppb	8.1325	2.1	230.607
Sr 216.596	978.872b	ppb	5.4863	0.6	5991.34
Ti 334.941	2503.67b	ppb	4.4784	0.2	529629

F04092013.wvq. All Data Report 4/10/2013, 11:45:37 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Tl 190.794	5.1418b	ppb	15.5614	302.6	-18.4595
V 292.401	563.721b	ppb	1.1409	0.2	15878.1
Zn 206.200	9101.60b	ppb	6.8847	0.1	27068.8

680-89038-b-6-c msd (Samp) 4/10/2013, 12:43:16 AM Rack 2, Tube 46

Weight: 1 Volume: 1 Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	30.1691	ppb	0.5926	2.0	875.305
Al 308.215	114814	ppb	183.062	0.2	316991
As 188.980	383.327	ppb	6.7703	1.8	128.777
B 249.678	317.569	ppb	1.8932	0.6	1729.74
Ba 389.178	2632.21	ppb	2.5838	0.1	43355.8
Be 313.042	61.6740	ppb	0.0888	0.1	93923.7
Ca 370.602	171952	ppb	860.7	0.5	568895
Cd 226.502	68.5650	ppb	0.1976	0.3	2419.40
Co 228.615	143.228	ppb	1.0763	0.8	1158.59
Cr 267.716	510.400	ppb	2.3524	0.5	7948.33
Cu 324.754	1163.86	ppb	0.8761	0.1	41526.8
Fe 271.441	454147	ppb	1156.72	0.3	334682
K 766.491	20326.6	ppb	36.9112	0.2	2529931
Mg 279.078	31348.2	ppb	35.7836	0.1	33140.9
Mn 257.610	17764.7	ppb	40.5587	0.2	1679134
Mo 202.032	115.245	ppb	0.7441	0.6	330.765
Na 330.237	7513.51	ppb	70.9396	0.9	277.465
Ni 231.604	261.212	ppb	1.7178	0.7	771.028
Pb 220.353	2792.88	ppb	9.4351	0.3	2301.30
Sb 206.834	39.0649	ppb	3.9440	10.1	39.1772
Se 196.026	100.334	ppb	10.8327	10.8	24.5319
Sn 189.925	282.987	ppb	8.0127	2.8	171.936
Sr 216.596	730.161	ppb	0.9752	0.1	4498.96
Ti 334.941	1845.06	ppb	4.2391	0.2	390335
Tl 190.794	9.6348	ppb	1.6242	16.9	-14.2640
V 292.401	487.863	ppb	1.0493	0.2	13751.8
Zn 206.200	8249.87	ppb	14.0734	0.2	24535.5

680-89038-b-9-a (Samp) 4/10/2013, 12:48:44 AM Rack 2, Tube 47

Weight: 1 Volume: 1 Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.4034	ppb	1.5731	390.0	-53.2931
Al 308.215	136452	ppb	220.189	0.2	376728
As 188.980	227.248	ppb	4.4307	1.9	75.7257
B 249.678	102.219	ppb	0.5986	0.6	-297.523
Ba 389.178	2063.62	ppb	1.2661	0.1	34190.1
Be 313.042	16.6184	ppb	0.0250	0.2	25729.9
Ca 370.602	110024	ppb	60.80	0.1	319646
Cd 226.502	12.9181	ppb	0.1546	1.2	1385.65
Co 228.615	143.692	ppb	0.3454	0.2	1165.71
Cr 267.716	617.636	ppb	1.0070	0.2	9620.10
Cu 324.754	594.586	ppb	3.2030	0.5	21333.7
Fe 271.441	536922	ppb	464.978	0.1	395683
K 766.491	12061.5	ppb	10.0152	0.1	1502040

F04092013.wvq. All Data Report 4/10/2013, 11:45:37 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Mg 279.078	24011.3	ppb	38.9864	0.2	24742.8
Mn 257.610	19521.3	ppb	31.7953	0.2	1845173
Mo 202.032	19.3442	ppb	1.1976	6.2	-2.6216
Na 330.237	2088.13	ppb	24.0721	1.2	-122.960
Ni 231.604	153.310	ppb	2.8679	1.9	468.139
Pb 220.353	2112.53	ppb	3.4901	0.2	1734.87
Sb 206.834	6.8510	ppb	3.4263	50.0	21.1249
Se 196.026	4.8544	ppb	10.3181	212.6	-1.5239
Sn 189.925	144.678	ppb	9.8063	6.8	88.7185
Sr 216.596	352.427	ppb	0.6474	0.2	2315.22
Ti 334.941	1898.85	ppb	1.1772	0.1	401653
Tl 190.794	-22.6631	ppb	9.4341	41.6	-31.1378
V 292.401	692.444	ppb	0.8546	0.1	19533.3
Zn 206.200	4870.38	ppb	5.8837	0.1	14491.5

680-89038-b-10-a (Samp) 4/10/2013, 12:54:12 AM Rack 2, Tube 48

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.6095	ppb	0.1168	19.2	-29.9045
Al 308.215	121746	ppb	87.1022	0.1	336132
As 188.980	205.428	ppb	5.1118	2.5	67.9883
B 249.678	95.5196	ppb	1.6185	1.7	-76.7334
Ba 389.178	2097.28	ppb	0.7537	0.0	34603.8
Be 313.042	13.8311	ppb	0.0132	0.1	21395.4
Ca 370.602	135682	ppb	44.48	0.0	439025
Cd 226.502	13.5735	ppb	0.2388	1.8	1151.29
Co 228.615	126.893	ppb	0.1556	0.1	1031.31
Cr 267.716	556.025	ppb	0.2332	0.0	8703.87
Cu 324.754	568.938	ppb	2.8723	0.5	20294.6
Fe 271.441	414003	ppb	256.693	0.1	305098
K 766.491	12515.3	ppb	8.6786	0.1	1558482
Mg 279.078	27247.7	ppb	7.1395	0.0	28733.9
Mn 257.610	21366.7	ppb	50.8772	0.2	2019403
Mo 202.032	17.7498	ppb	1.1442	6.4	7.6102
Na 330.237	1972.88	ppb	95.4334	4.8	-73.2883
Ni 231.604	152.029	ppb	0.4344	0.3	457.407
Pb 220.353	2046.53	ppb	13.4261	0.7	1682.53
Sb 206.834	18.7522	ppb	4.4852	23.9	25.5813
Se 196.026	22.9151	ppb	32.3995	141.4	5.6113
Sn 189.925	95.9653	ppb	6.7781	7.1	59.2066
Sr 216.596	377.991	ppb	1.8977	0.5	2410.88
Ti 334.941	1910.65	ppb	0.4415	0.0	404168
Tl 190.794	-33.0811	ppb	5.8336	17.6	-31.1885
V 292.401	498.577	ppb	0.5735	0.1	14058.5
Zn 206.200	4649.39	ppb	1.8691	0.0	13832.0

Cont Calib Verif (CCV) 4/10/2013, 12:59:40 AM Rack 2, Tube 49

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	497.638	ppb	4.8823	1.0	14974.5	99.52768
Al 308.215	5033.88	ppb	11.7281	0.2	14183.1	100.67766

F04092013.wvq. All Data Report 4/10/2013, 11:45:37 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
As 188.980	477.839	ppb	10.6599	2.2	164.722	95.56772
B 249.678	511.280	ppb	0.2046	0.0	4406.43	20.45118Q
Ba 389.178	5125.60	ppb	10.0942	0.2	83370.9	102.51207
Be 313.042	518.839	ppb	1.5536	0.3	789579	103.76770
Ca 370.602	5059	ppb	13.83	0.3	18424	101.18530
Cd 226.502	512.924	ppb	1.8059	0.4	11107.2	102.58475
Co 228.615	516.206	ppb	0.7467	0.1	4074.88	103.24113
Cr 267.716	5228.06	ppb	11.9413	0.2	83598.4	104.56118
Cu 324.754	5108.32	ppb	38.9547	0.8	183010	102.16635
Fe 271.441	5068.51	ppb	19.9637	0.4	3792.91	101.37021
K 766.491	10097.3	ppb	17.4868	0.2	1256950	100.97327
Mg 279.078	4951.67	ppb	17.1003	0.3	5477.79	99.03345
Mn 257.610	5356.80	ppb	10.7933	0.2	506209	107.13598
Mo 202.032	495.331	ppb	3.0052	0.6	1657.33	99.06626
Na 330.237	7475.67	ppb	98.0454	1.3	486.132	99.67566
Ni 231.604	2593.68	ppb	6.1514	0.2	7392.69	103.74728
Pb 220.353	496.876	ppb	9.1275	1.8	408.644	99.37520
Sb 206.834	938.138	ppb	5.6543	0.6	628.898	37.52554Q
Se 196.026	4870.02	ppb	12.6842	0.3	1268.17	97.40046
Sn 189.925	4964.10	ppb	14.0076	0.3	2997.27	99.28204
Sr 216.596	2513.93	ppb	7.2354	0.3	14700.5	100.55724
Ti 334.941	498.423	ppb	1.4633	0.3	105683	99.68456
Tl 190.794	4981.38	ppb	6.2567	0.1	2208.12	99.62768
V 292.401	4936.32	ppb	9.9911	0.2	138380	98.72642
Zn 206.200	2606.06	ppb	8.3789	0.3	7730.86	104.24242

## Cont Calib Blank (CCB)

4/10/2013, 1:05:07 AM

Rack 2, Tube 50

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.2179	ppb	0.7217	331.2	-12.8398	0.21793
Al 308.215	-3.2221	ppb	0.3505	10.9	27.1328	-3.22208
As 188.980	0.1336	ppb	8.5863	6429.2	-0.6635	0.13355
B 249.678	0.7150	ppb	1.1507	160.9	48.9350	0.71500
Ba 389.178	0.4850	ppb	0.0612	12.6	-13.5862	0.48504
Be 313.042	-0.0739	ppb	0.0074	10.0	-14.3928	-0.07388
Ca 370.602	-2.205	ppb	1.735	78.7	-70.58	-2.20533
Cd 226.502	-0.1329	ppb	0.2188	164.7	12.7658	-0.13290
Co 228.615	-0.4815	ppb	0.7541	156.6	-8.6012	-0.48146
Cr 267.716	0.4361	ppb	0.1795	41.2	14.3996	0.43606
Cu 324.754	-0.1787	ppb	0.1741	97.5	108.364	-0.17869
Fe 271.441	8.2519	ppb	7.3466	89.0	3.5025	8.25186
K 766.491	-0.9780	ppb	0.1432	14.6	2232.17	-0.97801
Mg 279.078	-6.7166	ppb	3.0095	44.8	19.4015	-6.71656
Mn 257.610	0.2345	ppb	0.0463	19.7	77.3532	0.23450
Mo 202.032	0.6675	ppb	0.6327	94.8	1.4912	0.66747
Na 330.237	-17.8433	ppb	46.1062	258.4	-3.2586	-17.84330
Ni 231.604	0.0501	ppb	0.4997	997.9	-0.9209	0.05008
Pb 220.353	-1.5429	ppb	0.6307	40.9	1.4487	-1.54289
Sb 206.834	4.9311	ppb	2.5847	52.4	3.9123	4.93106
Se 196.026	3.9127	ppb	2.9001	74.1	2.7711	3.91273
Sn 189.925	-6.3550	ppb	0.8467	13.3	-2.5795	-6.35496
Sr 216.596	-0.3531	ppb	0.5677	160.8	-7.7283	-0.35305
Ti 334.941	-0.0417	ppb	0.0313	74.9	38.6409	-0.04170

F04092013.wvq. All Data Report 4/10/2013, 11:45:37 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Tl 190.794	-3.5057	ppb	2.7417	78.2	-1.1983	-3.50575
V 292.401	-0.0433	ppb	0.3399	784.6	18.1435	-0.04332
Zn 206.200	-0.1781	ppb	0.4943	277.5	2.8744	-0.17811

680-89038-b-30-a (Samp) 4/10/2013, 1:10:35 AM Rack 2, Tube 51

Weight: 1		Volume: 1		Dilution: 1	
Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-5.0979b	ppb	0.3393	6.7	-121.112
Al 308.215	145771b	ppb	381.319	0.3	402456
As 188.980	286.505b	ppb	11.5734	4.0	95.8948
B 249.678	131.470b	ppb	2.8222	2.1	-227.166
Ba 389.178	6037.67b	ppb	10.4509	0.2	98887.2
Be 313.042	23.5008b	ppb	0.0263	0.1	36262.8
Ca 370.602	123471b	ppb	132.0	0.1	356569
Cd 226.502	17.2839b	ppb	0.4017	2.3	1642.35
Co 228.615	269.986b	ppb	1.9392	0.7	2166.54
Cr 267.716	657.594b	ppb	0.9808	0.1	10240.6
Cu 324.754	1239.42b	ppb	6.4724	0.5	44426.6
Fe 271.441	616890b	ppb	454.473	0.1	454622
K 766.491	12282.2b	ppb	8.6474	0.1	1528449
Mg 279.078	14142.5b	ppb	17.9489	0.1	13520.9
Mn 257.610	40477.6xb	ppb	30.9400	0.1	3825269
Mo 202.032	32.5816b	ppb	2.3843	7.3	31.6505
Na 330.237	2883.72b	ppb	123.574	4.3	-105.132
Ni 231.604	189.162b	ppb	2.7231	1.4	574.562
Pb 220.353	2864.46b	ppb	3.7086	0.1	2356.42
Sb 206.834	21.2271b	ppb	5.8189	27.4	32.3031
Se 196.026	28.0163b	ppb	12.6451	45.1	6.8889
Sn 189.925	275.798b	ppb	5.5495	2.0	167.819
Sr 216.596	807.860b	ppb	2.6243	0.3	5033.34
Ti 334.941	1909.48b	ppb	1.3781	0.1	403920
Tl 190.794	-43.7891b	ppb	8.0704	18.4	-43.4949
V 292.401	865.557b	ppb	0.5456	0.1	24369.9
Zn 206.200	6996.57b	ppb	11.5101	0.2	20812.8

680-89038-a-33-a (Samp) 4/10/2013, 1:16:02 AM Rack 2, Tube 52

Weight: 1		Volume: 1		Dilution: 1	
Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.4818	ppb	0.5821	120.8	11.5908
Al 308.215	120432	ppb	127.860	0.1	332505
As 188.980	202.770	ppb	7.7051	3.8	67.3365
B 249.678	104.734	ppb	0.7269	0.7	-2.5219
Ba 389.178	2152.86	ppb	6.7396	0.3	35510.2
Be 313.042	13.0203	ppb	0.0304	0.2	20165.1
Ca 370.602	114046	ppb	213.2	0.2	356866
Cd 226.502	13.0012	ppb	0.4120	3.2	1142.90
Co 228.615	130.264	ppb	0.9441	0.7	1057.68
Cr 267.716	499.074	ppb	1.7342	0.3	7794.27
Cu 324.754	619.694	ppb	3.6134	0.6	22171.8
Fe 271.441	415799	ppb	1321.70	0.3	306422
K 766.491	11666.0	ppb	32.0788	0.3	1452824



F04092013.wvq. All Data Report 4/10/2013, 11:45:37 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Mg 279.078	27471.4	ppb	28.4502	0.1	28971.2
Mn 257.610	23412.1	ppb	41.1851	0.2	2212663
Mo 202.032	20.5274	ppb	0.6697	3.3	16.6717
Na 330.237	2321.97	ppb	97.9428	4.2	-47.7860
Ni 231.604	166.435	ppb	1.4680	0.9	498.583
Pb 220.353	2082.15	ppb	8.7884	0.4	1712.25
Sb 206.834	16.6073	ppb	8.1850	49.3	23.5752
Se 196.026	17.7720	ppb	14.1077	79.4	4.5441
Sn 189.925	104.653	ppb	4.4250	4.2	64.5250
Sr 216.596	344.087	ppb	1.5164	0.4	2210.55
Ti 334.941	1891.44	ppb	5.3844	0.3	400078
Tl 190.794	-35.4734	ppb	0.8411	2.4	-32.1150
V 292.401	507.680	ppb	0.6610	0.1	14313.5
Zn 206.200	6743.23	ppb	15.2616	0.2	20056.1

680-89038-a-34-a (Samp)

4/10/2013, 1:21:29 AM

Rack 2, Tube 53

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.4925	ppb	1.0696	217.2	-31.2283
Al 308.215	122570	ppb	148.301	0.1	338404
As 188.980	239.828	ppb	5.7006	2.4	80.1679
B 249.678	92.9716	ppb	1.8484	2.0	-243.027
Ba 389.178	2509.67	ppb	3.2492	0.1	41378.4
Be 313.042	15.3909	ppb	0.0208	0.1	23818.5
Ca 370.602	106532	ppb	66.73	0.1	317213
Cd 226.502	12.4496	ppb	0.0562	0.5	1256.04
Co 228.615	152.374	ppb	1.6054	1.1	1235.41
Cr 267.716	618.931	ppb	1.2054	0.2	9677.22
Cu 324.754	836.730	ppb	1.8245	0.2	29990.7
Fe 271.441	477849	ppb	574.207	0.1	352151
K 766.491	11267.7	ppb	13.0459	0.1	1403194
Mg 279.078	24883.6	ppb	33.2057	0.1	25900.2
Mn 257.610	23073.8	ppb	58.8347	0.3	2180768
Mo 202.032	20.0690	ppb	1.2355	6.2	7.1784
Na 330.237	2055.63	ppb	249.746	12.1	-98.7264
Ni 231.604	157.170	ppb	2.3715	1.5	475.706
Pb 220.353	2017.96	ppb	9.4134	0.5	1658.37
Sb 206.834	19.6998	ppb	5.9528	30.2	27.7718
Se 196.026	-7.8230	ppb	18.5966	237.7	-3.2427
Sn 189.925	91.8143	ppb	5.4557	5.9	56.8486
Sr 216.596	345.228	ppb	1.6447	0.5	2245.31
Ti 334.941	2029.35	ppb	2.3041	0.1	429240
Tl 190.794	-23.5623	ppb	9.5089	40.4	-29.0249
V 292.401	611.940	ppb	0.4981	0.1	17252.0
Zn 206.200	4672.45	ppb	11.0358	0.2	13901.7

680-89038-a-35-a (Samp)

4/10/2013, 1:26:57 AM

Rack 2, Tube 54

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	20.3861	ppb	0.8143	4.0	576.709
Al 308.215	110269	ppb	64.7001	0.1	304425

F04092013.wvq. All Data Report 4/10/2013, 11:45:37 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	379.954	ppb	10.4981	2.8	127.215
B 249.678	155.777	ppb	2.8200	1.8	42.9043
Ba 389.178	3033.67	ppb	2.6213	0.1	50030.3
Be 313.042	13.2084	ppb	0.0150	0.1	20446.9
Ca 370.602	189646	ppb	417.5	0.2	611587
Cd 226.502	24.0781	ppb	0.3951	1.6	1729.16
Co 228.615	130.767	ppb	1.0634	0.8	1063.40
Cr 267.716	389.029	ppb	0.4105	0.1	5940.84
Cu 324.754	1169.35	ppb	5.6536	0.5	41734.9
Fe 271.441	588098	ppb	985.835	0.2	433395
K 766.491	15020.8	ppb	28.0318	0.2	1869876
Mg 279.078	28679.2	ppb	33.5595	0.1	29727.2
Mn 257.610	22391.1	ppb	54.5733	0.2	2116390
Mo 202.032	26.4285	ppb	1.8782	7.1	14.8065
Na 330.237	2629.74	ppb	128.897	4.9	-103.794
Ni 231.604	180.670	ppb	3.4704	1.9	549.301
Pb 220.353	3269.32	ppb	3.1313	0.1	2696.06
Sb 206.834	20.3505	ppb	11.8553	58.3	29.9526
Se 196.026	4.1483	ppb	12.6098	304.0	-1.8679
Sn 189.925	170.125	ppb	3.8424	2.3	103.769
Sr 216.596	704.315	ppb	0.4397	0.1	4412.94
Ti 334.941	1801.42	ppb	2.6715	0.1	381124
Tl 190.794	-27.6442	ppb	11.1527	40.3	-36.1386
V 292.401	472.072	ppb	0.2378	0.1	13353.0
Zn 206.200	9263.93	ppb	7.6245	0.1	27553.2

680-89038-a-36-a (Samp)

4/10/2013, 1:32:24 AM

Rack 2, Tube 55

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	2.1847	ppb	0.5613	25.7	-18.7931
Al 308.215	131273	ppb	110.695	0.1	362432
As 188.980	275.207	ppb	6.8972	2.5	92.1898
B 249.678	136.293	ppb	1.3385	1.0	-44.7583
Ba 389.178	4438.18	ppb	15.5604	0.4	72805.2
Be 313.042	18.8430	ppb	0.0178	0.1	29143.8
Ca 370.602	114668	ppb	28.83	0.0	333908
Cd 226.502	18.4875	ppb	0.8156	4.4	1539.34
Co 228.615	126.803	ppb	0.3471	0.3	1034.10
Cr 267.716	692.790	ppb	1.0991	0.2	10801.3
Cu 324.754	1329.43	ppb	1.0200	0.1	47648.6
Fe 271.441	553270	ppb	192.446	0.0	407731
K 766.491	11251.2	ppb	8.3125	0.1	1400634
Mg 279.078	14032.2	ppb	19.2246	0.1	13663.6
Mn 257.610	10087.0	ppb	7.0200	0.1	953778
Mo 202.032	28.2173	ppb	2.6133	9.3	24.9494
Na 330.237	2982.47	ppb	53.1696	1.8	-68.0895
Ni 231.604	189.359	ppb	1.3803	0.7	571.485
Pb 220.353	2884.32	ppb	0.9154	0.0	2374.79
Sb 206.834	24.5740	ppb	4.7235	19.2	32.9907
Se 196.026	3.4416	ppb	20.6650	600.5	-3.9463
Sn 189.925	351.530	ppb	4.6959	1.3	213.549
Sr 216.596	894.266	ppb	0.7650	0.1	5512.82
Ti 334.941	1921.43	ppb	0.4901	0.0	406436

F04092013.wvq. All Data Report 4/10/2013, 11:45:37 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Tl 190.794	-11.6197	ppb	5.8837	50.6	-26.8511
V 292.401	758.956	ppb	1.2693	0.2	21419.0
Zn 206.200	7490.34	ppb	15.2537	0.2	22278.9

**X (Samp)** 4/10/2013, 1:37:51 AM **Rack 2, Tube 56**  
**Weight: 1** **Volume: 1** **Dilution: 1**

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.6496	ppb	0.2882	44.4	-38.9808
Al 308.215	5.3441	ppb	2.6058	48.8	50.7539
As 188.980	-5.1866	ppb	4.0335	77.8	-2.4974
B 249.678	0.2064	ppb	0.2223	107.7	44.5269
Ba 389.178	-0.0958	ppb	0.7508	783.9	-23.0018
Be 313.042	-0.1040	ppb	0.0052	5.0	-60.2191
Ca 370.602	4.105	ppb	2.685	65.4	-51.43
Cd 226.502	0.1075	ppb	0.0551	51.3	18.0112
Co 228.615	-0.9947	ppb	0.7611	76.5	-12.6449
Cr 267.716	-0.0270	ppb	0.1287	477.3	6.9812
Cu 324.754	-0.4871	ppb	0.3091	63.5	97.3107
Fe 271.441	35.7418	ppb	5.7615	16.1	23.7430
K 766.491	-0.8733	ppb	0.7055	80.8	2245.31
Mg 279.078	-9.0858	ppb	1.9356	21.3	16.6918
Mn 257.610	0.5972	ppb	0.0836	14.0	111.663
Mo 202.032	0.5819	ppb	0.6210	106.7	1.2005
Na 330.237	-6.1366	ppb	66.1856	1078.5	-2.5043
Ni 231.604	0.0645	ppb	0.4264	660.8	-0.8809
Pb 220.353	0.3807	ppb	3.2215	846.2	3.0428
Sb 206.834	6.2743	ppb	5.2814	84.2	4.7576
Se 196.026	5.6350	ppb	1.9585	34.8	3.2183
Sn 189.925	-2.6904	ppb	2.8433	105.7	-0.3679
Sr 216.596	-0.0936	ppb	0.4461	476.7	-6.1778
Ti 334.941	0.1378	ppb	0.0343	24.9	-0.6989
Tl 190.794	-8.0604	ppb	8.2475	102.3	-3.2134
V 292.401	-0.3321	ppb	0.1847	55.6	10.1833
Zn 206.200	0.3225	ppb	0.1681	52.1	4.3649

**X (Samp)** 4/10/2013, 1:43:19 AM **Rack 2, Tube 57**  
**Weight: 1** **Volume: 1** **Dilution: 1**

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1576	ppb	0.2346	148.8	-24.1554
Al 308.215	-2.2318	ppb	2.9663	132.9	29.8312
As 188.980	-10.0515	ppb	5.2431	52.2	-4.1744
B 249.678	0.1871	ppb	1.1329	605.6	44.4400
Ba 389.178	-0.4222	ppb	0.0465	11.0	-28.3572
Be 313.042	-0.1137	ppb	0.0107	9.4	-74.9471
Ca 370.602	4.593	ppb	1.543	33.6	-43.42
Cd 226.502	0.0400	ppb	0.2624	656.4	16.4842
Co 228.615	-1.0058	ppb	0.4434	44.1	-12.7324
Cr 267.716	-0.2225	ppb	0.0487	21.9	3.8717
Cu 324.754	-0.6384	ppb	0.2205	34.5	91.8858
Fe 271.441	1.8187	ppb	11.8648	652.4	-1.2608
K 766.491	-2.2442	ppb	0.1961	8.7	2074.85

F04092013.wvq. All Data Report 4/10/2013, 11:45:37 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Mg 279.078	-11.2677	ppb	3.2196	28.6	14.3954
Mn 257.610	-0.2654	ppb	0.0829	31.2	30.1104
Mo 202.032	0.2369	ppb	0.5150	217.4	0.0433
Na 330.237	64.1412	ppb	54.4391	84.9	2.1185
Ni 231.604	1.2841	ppb	0.8257	64.3	2.5928
Pb 220.353	-2.4357	ppb	3.1111	127.7	0.7105
Sb 206.834	4.6386	ppb	4.6544	100.3	3.7167
Se 196.026	-4.1091	ppb	6.0286	146.7	0.6867
Sn 189.925	-2.7984	ppb	2.1104	75.4	-0.4331
Sr 216.596	-0.8293	ppb	0.7104	85.7	-10.5679
Ti 334.941	-0.0690	ppb	0.0261	37.8	-44.4453
Tl 190.794	-2.3623	ppb	1.3604	57.6	-0.6929
V 292.401	-0.4542	ppb	0.1084	23.9	6.8023
Zn 206.200	-0.1703	ppb	0.5678	333.4	2.8996

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Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	9.5164	ppb	0.1574	1.7	267.307
Al 308.215	208.909	ppb	1.2492	0.6	613.472
As 188.980	18.6702	ppb	7.2033	38.6	5.7150
B 249.678	98.7954	ppb	0.3280	0.3	887.098
Ba 389.178	11.6104	ppb	0.2300	2.0	168.446
Be 313.042	4.3026	ppb	0.0255	0.6	6625.76
Ca 370.602	523.5	ppb	4.274	0.8	1911
Cd 226.502	5.2150	ppb	0.1738	3.3	128.409
Co 228.615	10.2626	ppb	0.7822	7.6	76.2229
Cr 267.716	10.7574	ppb	0.5182	4.8	179.415
Cu 324.754	21.0849	ppb	0.2366	1.1	868.790
Fe 271.441	55.6054	ppb	3.3189	6.0	38.9790
K 766.491	1087.20	ppb	7.5256	0.7	137579
Mg 279.078	520.527	ppb	5.4117	1.0	602.420
Mn 257.610	11.0886	ppb	0.0641	0.6	1104.35
Mo 202.032	11.5153	ppb	1.1833	10.3	37.9915
Na 330.237	1076.56	ppb	44.0783	4.1	68.4066
Ni 231.604	43.7858	ppb	0.1107	0.3	123.732
Pb 220.353	9.2549	ppb	3.1550	34.1	10.3475
Sb 206.834	21.4968	ppb	4.0635	18.9	14.3843
Se 196.026	18.7887	ppb	15.3329	81.6	6.6444
Sn 189.925	49.2039	ppb	2.5705	5.2	30.9519
Sr 216.596	10.1182	ppb	0.1218	1.2	52.2460
Ti 334.941	10.1894	ppb	0.0096	0.1	2125.85
Tl 190.794	17.2692	ppb	2.8564	16.5	8.0019
V 292.401	9.9309	ppb	0.2576	2.6	295.715
Zn 206.200	20.3337	ppb	0.4777	2.3	63.8239

CCV (Samp) 4/10/2013, 1:54:14 AM Rack 2, Tube 59

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	494.370	ppb	4.6883	0.9	14876.0
Al 308.215	5038.98	ppb	16.8822	0.3	14196.8

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	484.611	ppb	1.8291	0.4	167.053
B 249.678	508.549	ppb	0.6160	0.1	4383.19
Ba 389.178	5099.08	ppb	13.5925	0.3	82939.4
Be 313.042	517.091	ppb	1.7004	0.3	786927
Ca 370.602	5018	ppb	11.81	0.2	18272
Cd 226.502	509.327	ppb	2.2650	0.4	11029.4
Co 228.615	513.477	ppb	2.0588	0.4	4053.32
Cr 267.716	5180.30	ppb	21.0177	0.4	82834.5
Cu 324.754	5043.34	ppb	32.6530	0.6	180683
Fe 271.441	5023.40	ppb	18.8249	0.4	3759.61
K 766.491	10087.7	ppb	31.4922	0.3	1255759
Mg 279.078	4976.18	ppb	9.8080	0.2	5505.09
Mn 257.610	5313.74	ppb	20.9146	0.4	502140
Mo 202.032	496.446	ppb	3.6460	0.7	1661.10
Na 330.237	7383.91	ppb	149.154	2.0	480.121
Ni 231.604	2581.54	ppb	5.5642	0.2	7358.08
Pb 220.353	493.055	ppb	5.1400	1.0	405.504
Sb 206.834	913.690	ppb	1.1842	0.1	613.214
Se 196.026	4824.04	ppb	9.9389	0.2	1256.22
Sn 189.925	4931.33	ppb	18.6756	0.4	2977.49
Sr 216.596	2506.02	ppb	6.7333	0.3	14654.3
Ti 334.941	496.115	ppb	1.8395	0.4	105194
Tl 190.794	4972.13	ppb	20.4339	0.4	2204.02
V 292.401	4934.16	ppb	15.9084	0.3	138321
Zn 206.200	2584.56	ppb	13.2657	0.5	7667.02

CCB (Samp)

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Rack 2, Tube 60

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.6325	ppb	0.1399	22.1	-38.4641
Al 308.215	-4.0087	ppb	1.2102	30.2	24.9630
As 188.980	-6.1875	ppb	4.6065	74.4	-2.8422
B 249.678	1.0780	ppb	0.5135	47.6	52.0566
Ba 389.178	0.2667	ppb	0.5093	190.9	-17.1485
Be 313.042	-0.0719	ppb	0.0167	23.2	-11.3929
Ca 370.602	-5.087	ppb	3.174	62.4	-79.50
Cd 226.502	-0.0346	ppb	0.1361	393.7	14.8678
Co 228.615	-0.8820	ppb	0.1482	16.8	-11.7620
Cr 267.716	0.3462	ppb	0.2425	70.0	12.9663
Cu 324.754	-0.3973	ppb	0.4746	119.5	100.541
Fe 271.441	-2.7364	ppb	7.9201	289.4	-4.6084
K 766.491	-1.1974	ppb	0.3826	32.0	2204.93
Mg 279.078	-3.0326	ppb	6.6865	220.5	23.5138
Mn 257.610	-0.0225	ppb	0.0419	186.2	53.0609
Mo 202.032	1.1211	ppb	0.4019	35.8	3.0195
Na 330.237	-72.0783	ppb	14.9083	20.7	-6.8089
Ni 231.604	1.2964	ppb	0.5768	44.5	2.6277
Pb 220.353	-1.9440	ppb	2.9163	150.0	1.1168
Sb 206.834	4.3440	ppb	0.4961	11.4	3.5437
Se 196.026	2.9259	ppb	7.8647	268.8	2.5148
Sn 189.925	-5.1435	ppb	3.8013	73.9	-1.8484
Sr 216.596	0.0199	ppb	0.4397	2208.6	-5.5787
Ti 334.941	-0.0193	ppb	0.0616	319.9	33.8916

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<b>Label</b>	<b>Sol'n Conc.</b>	<b>Units</b>	<b>SD</b>	<b>%RSD</b>	<b>Int. (c/s)</b>
Tl 190.794	-4.4001	ppb	7.3217	166.4	-1.5935
V 292.401	0.0244	ppb	0.2719	1113.0	20.0795
Zn 206.200	-0.5852	ppb	0.6930	118.4	1.6641



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Blank (Blk)		4/10/2013, 1:45:43 PM		Rack S, Tube 1	
Label	Sol'n Conc.	Units	SD(Int)	%RSD(Int)	Int. (c/s)
Ag 328.068	0.0000	ppb	10.927	38.8	-28.1853
Al 308.215	0.0000	ppb	7.190	17.8	40.3311
As 188.980	0.0000	ppb	1.470	298.9	0.4917
B 249.678	0.0000	ppb	4.188	9.8	42.9229
Ba 389.178	0.0000	ppb	7.404	49.6	-14.9385
Be 313.042	0.0000	ppb	16.307	27.8	-58.6702
Ca 370.602	0.0000	ppb	12.310	20.5	-60.08
Cd 226.502	0.0000	ppb	3.935	28.5	13.8151
Co 228.615	0.0000	ppb	4.115	39.6	-10.3836
Cr 267.716	0.0000	ppb	3.357	47.7	7.0339
Cu 324.754	0.0000	ppb	11.621	11.6	100.263
Fe 271.441	0.0000	ppb	0.966	20.3	-4.7521
K 766.491	0.0000	ppb	16.839	0.8	2090.49
Mg 279.078	0.0000	ppb	1.434	4.7	30.3657
Mn 257.610	0.0000	ppb	10.351	18.9	54.7456
Mo 202.032	0.0000	ppb	1.554	87.1	1.7828
Na 330.237	0.0000	ppb	7.803	180.0	4.3337
Ni 231.604	0.0000	ppb	1.743	99.8	1.7466
Pb 220.353	0.0000	ppb	2.778	280.5	0.9903
Sb 206.834	0.0000	ppb	0.638	14.5	4.3989
Se 196.026	0.0000	ppb	2.232	54.8	4.0735
Sn 189.925	0.0000	ppb	2.764	278.8	-0.9915
Sr 216.596	0.0000	ppb	0.437	6.5	-6.6964
Ti 334.941	0.0000	ppb	23.239	22.5	103.196
Tl 190.794	0.0000	ppb	0.761	178.1	-0.4275
V 292.401	0.0000	ppb	5.260	55.3	9.5146
Zn 206.200	0.0000	ppb	2.241	161.8	1.3858

HIGH STD (Std)		4/10/2013, 1:51:11 PM		Rack S, Tube 2	
Label	Sol'n Conc.	Units	SD(Int)	%RSD(Int)	Int. (c/s)
Ag 328.068	1000.00	ppb	97.400	0.3	32361.5
Al 308.215	10000.0	ppb	67.812	0.2	30196.6
As 188.980	1000.00	ppb	1.803	0.5	369.135
B 249.678	1000.00	ppb	10.231	0.1	9430.22
Ba 389.178	10000.0	ppb	263.249	0.2	171419
Be 313.042	1000.00	ppb	3057.876	0.2	1663424
Ca 370.602	10000	ppb	93.318	0.2	40597
Cd 226.502	1000.00	ppb	44.135	0.2	22994.8
Co 228.615	1000.00	ppb	19.371	0.2	8487.15
Cr 267.716	10000.0	ppb	391.385	0.2	172080
Cu 324.754	10000.0	ppb	2073.475	0.5	386812
Fe 271.441	10000.0	ppb	4.115	0.1	8005.37
K 766.491	20000.0	ppb	8591.974	0.3	2715761
Mg 279.078	10000.0	ppb	28.604	0.2	12101.1
Mn 257.610	10000.0	ppb	1938.418	0.2	1017908
Mo 202.032	1000.00	ppb	7.965	0.2	3616.70
Na 330.237	15000.0	ppb	4.367	0.4	1071.30
Ni 231.604	5000.00	ppb	41.562	0.3	15242.5
Pb 220.353	1000.00	ppb	4.735	0.6	781.346
Sb 206.834	2000.00	ppb	6.162	0.5	1354.62
Se 196.026	10000.0	ppb	10.647	0.4	2726.50
Sn 189.925	10000.0	ppb	27.740	0.4	6405.65



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Label	Sol'n Conc.	Units	SD(Int)	%RSD(Int)	Int. (c/s)
Sr 216.596	5000.00	ppb	61.118	0.2	31281.5
Ti 334.941	1000.00	ppb	360.540	0.2	228421
Tl 190.794	10000.0	ppb	11.048	0.2	4875.44
V 292.401	10000.0	ppb	524.772	0.2	303509
Zn 206.200	5000.00	ppb	22.097	0.1	15929.4

**Ag 328.068 Calibration (ppb) 4/10/2013, 1:51:11 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-28.1853	0.0000	0.0000	-	-
HIGH STD		32361.5	1000.00	1000.00	0.0001	0.0

Curve Type: Linear Equation:  $y = 32.4 x + -28.2$

**Al 308.215 Calibration (ppb) 4/10/2013, 1:51:11 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		40.3311	0.0000	0.0000	-	-
HIGH STD		30196.6	10000.0	10000.0	0.0010	0.0

Curve Type: Linear Equation:  $y = 3.0 x + 40.3$

**As 188.980 Calibration (ppb) 4/10/2013, 1:51:11 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		0.4917	0.0000	0.0000	-	-
HIGH STD		369.135	1000.00	1000.00	0.0000	0.0

Curve Type: Linear Equation:  $y = 0.4 x + 0.5$

**B 249.678 Calibration (ppb) 4/10/2013, 1:51:11 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		42.9229	0.0000	0.0000	-	-
HIGH STD		9430.22	1000.00	1000.00	0.0000	0.0

Curve Type: Linear Equation:  $y = 9.4 x + 42.9$

**Ba 389.178 Calibration (ppb) 4/10/2013, 1:51:11 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-14.9385	0.0000	0.0000	-	-
HIGH STD		171419	10000.0	10000.0	0.0010	0.0

Curve Type: Linear Equation:  $y = 17.1 x + -14.9$

**Be 313.042 Calibration (ppb) 4/10/2013, 1:51:11 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-58.6702	0.0000	0.0000	-	-
HIGH STD		1663424	1000.00	1000.00	0.0000	0.0

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Curve Type: Linear Equation:  $y = 1663.5 x + -58.7$ **Ca 370.602 Calibration (ppb) 4/10/2013, 1:51:11 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-60.08	0.0000	0.0000	-	-
HIGH STD		40597	10000	10000	0.0000	0.0

Curve Type: Linear Equation:  $y = 4.1 x + -60.1$ **Cd 226.502 Calibration (ppb) 4/10/2013, 1:51:11 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		13.8151	0.0000	0.0000	-	-
HIGH STD		22994.8	1000.00	1000.00	0.0000	0.0

Curve Type: Linear Equation:  $y = 23.0 x + 13.8$ **Co 228.615 Calibration (ppb) 4/10/2013, 1:51:11 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-10.3836	0.0000	0.0000	-	-
HIGH STD		8487.15	1000.00	1000.00	0.0000	0.0

Curve Type: Linear Equation:  $y = 8.5 x + -10.4$ **Cr 267.716 Calibration (ppb) 4/10/2013, 1:51:11 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		7.0339	0.0000	0.0000	-	-
HIGH STD		172080	10000.0	10000.0	0.0000	0.0

Curve Type: Linear Equation:  $y = 17.2 x + 7.0$ **Cu 324.754 Calibration (ppb) 4/10/2013, 1:51:11 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		100.263	0.0000	0.0000	-	-
HIGH STD		386812	10000.0	10000.0	0.0000	0.0

Curve Type: Linear Equation:  $y = 38.7 x + 100.3$ **Fe 271.441 Calibration (ppb) 4/10/2013, 1:51:11 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-4.7521	0.0000	0.0000	-	-
HIGH STD		8005.37	10000.0	10000.0	0.0000	0.0

Curve Type: Linear Equation:  $y = 0.8 x + -4.8$

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**K 766.491 Calibration (ppb) 4/10/2013, 1:51:11 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		2090.49	0.0000	0.0000	-	-
HIGH STD		2715761	20000.0	20000.0	-0.0020	0.0

Curve Type: Linear Equation:  $y = 135.7 x + 2090.5$ **Mg 279.078 Calibration (ppb) 4/10/2013, 1:51:11 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		30.3657	0.0000	0.0000	-	-
HIGH STD		12101.1	10000.0	10000.0	0.0000	0.0

Curve Type: Linear Equation:  $y = 1.2 x + 30.4$ **Mn 257.610 Calibration (ppb) 4/10/2013, 1:51:11 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		54.7456	0.0000	0.0000	-	-
HIGH STD		1017908	10000.0	10000.0	0.0000	0.0

Curve Type: Linear Equation:  $y = 101.8 x + 54.7$ **Mo 202.032 Calibration (ppb) 4/10/2013, 1:51:11 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		1.7828	0.0000	0.0000	-	-
HIGH STD		3616.70	1000.00	1000.000	-0.0002	0.0

Curve Type: Linear Equation:  $y = 3.6 x + 1.8$ **Na 330.237 Calibration (ppb) 4/10/2013, 1:51:11 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		4.3337	0.0000	0.0000	-	-
HIGH STD		1071.30	15000.0	15000.0	0.0000	0.0

Curve Type: Linear Equation:  $y = 0.1 x + 4.3$ **Ni 231.604 Calibration (ppb) 4/10/2013, 1:51:11 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		1.7466	0.0000	0.0000	-	-
HIGH STD		15242.5	5000.00	5000.00	0.0000	0.0

Curve Type: Linear Equation:  $y = 3.0 x + 1.7$ **Pb 220.353 Calibration (ppb) 4/10/2013, 1:51:11 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		0.9903	0.0000	0.0000	-	-
HIGH STD		781.346	1000.00	1000.00	0.0000	0.0

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Curve Type: Linear Equation:  $y = 0.8 x + 1.0$ **Sb 206.834 Calibration (ppb) 4/10/2013, 1:51:11 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		4.3989	0.0000	0.0000	-	-
HIGH STD		1354.62	2000.00	2000.00	0.0000	0.0

Curve Type: Linear Equation:  $y = 0.7 x + 4.4$ **Se 196.026 Calibration (ppb) 4/10/2013, 1:51:11 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		4.0735	0.0000	0.0000	-	-
HIGH STD		2726.50	10000.0	10000.0	0.0000	0.0

Curve Type: Linear Equation:  $y = 0.3 x + 4.1$ **Sn 189.925 Calibration (ppb) 4/10/2013, 1:51:11 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-0.9915	0.0000	0.0000	-	-
HIGH STD		6405.65	10000.0	10000.00	-0.0010	0.0

Curve Type: Linear Equation:  $y = 0.6 x + -1.0$ **Sr 216.596 Calibration (ppb) 4/10/2013, 1:51:11 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-6.6964	0.0000	0.0000	-	-
HIGH STD		31281.5	5000.00	5000.00	0.0000	0.0

Curve Type: Linear Equation:  $y = 6.3 x + -6.7$ **Ti 334.941 Calibration (ppb) 4/10/2013, 1:51:11 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		103.196	0.0000	0.0000	-	-
HIGH STD		228421	1000.00	1000.00	0.0000	0.0

Curve Type: Linear Equation:  $y = 228.3 x + 103.2$ **Tl 190.794 Calibration (ppb) 4/10/2013, 1:51:11 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-0.4275	0.0000	0.0000	-	-
HIGH STD		4875.44	10000.0	10000.0	0.0000	0.0

Curve Type: Linear Equation:  $y = 0.5 x + -0.4$

F04102013.wvq. All Data Report 4/11/2013, 9:46:33 AM

**V 292.401 Calibration (ppb) 4/10/2013, 1:51:11 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		9.5146	0.0000	0.0000	-	-
HIGH STD		303509	10000.0	10000.0	0.0000	0.0

Curve Type: Linear Equation:  $y = 30.3 x + 9.5$

**Zn 206.200 Calibration (ppb) 4/10/2013, 1:51:11 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		1.3858	0.0000	0.0000	-	-
HIGH STD		15929.4	5000.00	5000.00	0.0005	0.0

Curve Type: Linear Equation:  $y = 3.2 x + 1.4$

**Lab Control Sample (LCS) 4/10/2013, 1:56:36 PM Rack S, Tube 2**  
**Weight: 1 Volume: 1 Dilution: 1**

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	999.372	ppb	16.1490	1.6	32338.9	99.93721
Al 308.215	10019.4	ppb	148.328	1.5	30805.7	100.19351
As 188.980	1001.62	ppb	22.1315	2.2	371.252	100.16216
B 249.678	999.921	ppb	14.3559	1.4	9417.01	19.99842F
Ba 389.178	9957.84	ppb	151.827	1.5	170785	99.57836
Be 313.042	997.270	ppb	15.1306	1.5	1665246	99.72697
Ca 370.602	10143	ppb	159.7	1.6	39777	101.42823
Cd 226.502	995.048	ppb	15.8028	1.6	22903.4	99.50475
Co 228.615	996.359	ppb	15.0881	1.5	8461.89	99.63595
Cr 267.716	9956.81	ppb	152.997	1.5	171268	99.56814
Cu 324.754	9984.55	ppb	98.3680	1.0	386040	99.84549
Fe 271.441	9976.28	ppb	145.193	1.5	8117.89	99.76283
K 766.491	19946.7	ppb	237.063	1.2	2705693	99.73360
Mg 279.078	9980.97	ppb	161.839	1.6	12022.7	99.80966
Mn 257.610	9964.52	ppb	156.607	1.6	1014347	99.64523
Mo 202.032	995.052	ppb	15.4016	1.5	3578.12	99.50523
Na 330.237	15303.0	ppb	318.517	2.1	1088.79	102.01991
Ni 231.604	4989.54	ppb	90.2820	1.8	15216.7	99.79076
Pb 220.353	1003.80	ppb	10.7150	1.1	773.903	100.37974
Sb 206.834	1904.13	ppb	31.0787	1.6	1357.37	190.41306F
Se 196.026	9983.54	ppb	178.165	1.8	2723.87	99.83543
Sn 189.925	9940.60	ppb	175.703	1.8	6367.82	99.40596
Sr 216.596	4985.81	ppb	70.6565	1.4	30980.8	99.71613
Ti 334.941	994.501	ppb	15.1699	1.5	227837	99.45013
Tl 190.794	9969.57	ppb	149.891	1.5	4872.45	99.69572
V 292.401	9991.11	ppb	149.733	1.5	302338	99.91113
Zn 206.200	4989.84	ppb	79.5863	1.6	15858.3	99.79677

**Initial Calib Verif (ICV) 4/10/2013, 2:02:02 PM Rack S, Tube 3**  
**Weight: 1 Volume: 1 Dilution: 1**

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	968.127	ppb	16.4121	1.7	31328.3	96.81267
Al 308.215	971.092	ppb	17.8029	1.8	3044.89	97.10917

F04102013.wvq. All Data Report 4/11/2013, 9:46:33 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
As 188.980	1002.65	ppb	21.3635	2.1	370.325	100.26508
B 249.678	969.401	ppb	12.4756	1.3	9153.06	96.94015
Ba 389.178	1032.28	ppb	14.5866	1.4	17695.4	103.22807
Be 313.042	1040.75	ppb	14.2635	1.4	1731754	104.07527
Ca 370.602	991.8	ppb	12.18	1.2	3939	99.17882
Cd 226.502	1038.16	ppb	13.5026	1.3	23874.1	103.81635
Co 228.615	998.615	ppb	8.3487	0.8	8470.70	99.86153
Cr 267.716	1027.62	ppb	13.7095	1.3	17682.1	102.76234
Cu 324.754	1024.42	ppb	15.0485	1.5	39707.8	102.44242
Fe 271.441	979.344	ppb	18.0474	1.8	837.738	97.93436
K 766.491	9953.29	ppb	103.515	1.0	1352293	99.53286
Mg 279.078	1003.48	ppb	14.5016	1.4	1235.83	100.34826
Mn 257.610	1063.65	ppb	13.5915	1.3	108334	106.36532Q
Mo 202.032	997.837	ppb	15.7119	1.6	3606.83	99.78366
Na 330.237	9693.83	ppb	36.6769	0.4	687.574	96.93826
Ni 231.604	1036.03	ppb	14.9377	1.4	3159.48	103.60298
Pb 220.353	1012.51	ppb	18.0915	1.8	788.728	101.25110
Sb 206.834	957.711	ppb	11.5852	1.2	652.699	95.77111
Se 196.026	989.730	ppb	19.8538	2.0	273.717	98.97301
Sn 189.925	4928.08	ppb	62.4306	1.3	3156.50	98.56166
Sr 216.596	4937.04	ppb	66.1489	1.3	30829.4	98.74070
Ti 334.941	976.456	ppb	13.2546	1.4	223113	97.64556
Tl 190.794	1002.32	ppb	13.4747	1.3	490.630	100.23169
V 292.401	995.834	ppb	14.2888	1.4	29921.9	99.58339
Zn 206.200	1036.28	ppb	10.2954	1.0	3298.58	103.62831

Initial Calib Blank (ICB)

4/10/2013, 2:07:28 PM

Rack S, Tube 1

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.0085	ppb	0.3378	3974.7	-27.9084	0.00850
Al 308.215	-3.8290	ppb	3.3006	86.2	28.8060	-3.82898
As 188.980	-9.0298	ppb	6.9744	77.2	-2.8367	-9.02980
B 249.678	3.3790	ppb	0.0770	2.3	74.6472	3.37902
Ba 389.178	-0.9446	ppb	0.6562	69.5	-31.1355	-0.94465
Be 313.042	0.0391	ppb	0.0088	22.6	6.2677	0.03906
Ca 370.602	-4.008	ppb	4.577	114.2	-75.78	-4.00843
Cd 226.502	-0.0150	ppb	0.0529	351.5	13.4626	-0.01504
Co 228.615	-0.0170	ppb	0.2288	1344.6	-10.5486	-0.01702
Cr 267.716	0.3411	ppb	0.6102	178.9	12.9053	0.34114
Cu 324.754	0.3070	ppb	0.1641	53.5	112.149	0.30700
Fe 271.441	-1.9950	ppb	5.1677	259.0	-6.3426	-1.99500
K 766.491	1.9340	ppb	0.0611	3.2	2353.17	1.93395
Mg 279.078	-1.4253	ppb	0.2160	15.2	28.6576	-1.42531
Mn 257.610	-0.0016	ppb	0.0012	75.1	54.5665	-0.00161
Mo 202.032	1.2342	ppb	0.6529	52.9	6.2448	1.23422
Na 330.237	-91.1735	ppb	22.8227	25.0	-2.1453	-91.17355
Ni 231.604	-0.5210	ppb	0.6323	121.4	0.1572	-0.52103
Pb 220.353	0.7559	ppb	1.0253	135.6	1.5786	0.75590
Sb 206.834	-4.5929	ppb	1.4961	32.6	1.3055	-4.59289
Se 196.026	-2.8484	ppb	3.5352	124.1	3.2981	-2.84840
Sn 189.925	-1.3261	ppb	1.5786	119.0	-1.8412	-1.32612
Sr 216.596	-0.1529	ppb	0.5591	365.7	-7.6502	-0.15289
Ti 334.941	-0.4943	ppb	0.0580	11.7	-9.6219	-0.49427

F04102013.wvq. All Data Report 4/11/2013, 9:46:33 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Tl 190.794	-3.4876	ppb	3.9611	113.6	-2.1286	-3.48763
V 292.401	0.0968	ppb	0.1388	143.4	12.2228	0.09683
Zn 206.200	0.3820	ppb	0.4077	106.7	2.6004	0.38200

**CRI (CRI)****4/10/2013, 2:12:55 PM****Rack S, Tube 4****Weight: 1****Volume: 1****Dilution: 1**

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	10.1065	ppb	0.3035	3.0	299.133	101.06514
Al 308.215	210.115	ppb	4.5936	2.2	674.776	105.05749
As 188.980	17.8881	ppb	3.6177	20.2	7.0755	89.44038
B 249.678	100.205	ppb	0.5910	0.6	983.562	100.20536
Ba 389.178	10.2550	ppb	0.7030	6.9	162.047	102.55023
Be 313.042	4.4123	ppb	0.0183	0.4	7286.96	110.30866
Ca 370.602	519.2	ppb	3.258	0.6	2041	103.84706
Cd 226.502	5.5264	ppb	0.1594	2.9	140.957	110.52727
Co 228.615	10.4307	ppb	0.2004	1.9	78.1957	104.30740
Cr 267.716	11.0539	ppb	0.3534	3.2	197.151	110.53871
Cu 324.754	21.8844	ppb	0.0865	0.4	945.256	109.42176
Fe 271.441	57.1178	ppb	5.2396	9.2	41.6037	114.23568
K 766.491	1076.74	ppb	4.6504	0.4	148184	107.67426
Mg 279.078	520.724	ppb	1.9024	0.4	658.680	104.14470
Mn 257.610	11.2523	ppb	0.1333	1.2	1201.62	112.52341
Mo 202.032	10.7504	ppb	1.2835	11.9	40.6188	107.50359
Na 330.237	1023.97	ppb	71.3566	7.0	77.1044	102.39717
Ni 231.604	42.2987	ppb	0.3814	0.9	130.706	105.74673
Pb 220.353	12.7980	ppb	3.0342	23.7	10.9323	127.97973R
Sb 206.834	18.0046	ppb	5.2981	29.4	16.5493	90.02319
Se 196.026	17.7048	ppb	5.2992	29.9	8.9002	88.52378
Sn 189.925	50.6455	ppb	2.6132	5.2	31.4560	101.29106
Sr 216.596	10.5556	ppb	0.1221	1.2	57.5797	105.55640
Ti 334.941	9.5346	ppb	0.0518	0.5	2281.39	95.34577
Tl 190.794	20.6089	ppb	0.5685	2.8	9.6349	82.43566
V 292.401	10.7164	ppb	0.1687	1.6	331.361	107.16419
Zn 206.200	21.8628	ppb	0.7805	3.6	71.0078	109.31400

**Interf Check A (ICSA)****4/10/2013, 2:18:22 PM****Rack S, Tube 5****Weight: 1****Volume: 1****Dilution: 1**

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.2350	ppb	0.7391	314.5	-60.5237	0.23500
Al 308.215	573295	ppb	479.777	0.1	1728864	-
As 188.980	-14.1289	ppb	21.1521	149.7	-12.1204	-14.12887
B 249.678	13.8677	ppb	0.5385	3.9	-312.374	13.86774
Ba 389.178	2.1890	ppb	0.8568	39.1	1322.87	2.18896
Be 313.042	-0.0617	ppb	0.0139	22.5	19.0020	-0.06173
Ca 370.602	517100	ppb	1514	0.3	2064329	-
Cd 226.502	2.3464	ppb	0.3193	13.6	527.447	2.34642
Co 228.615	0.0654	ppb	0.6388	976.9	-6.3380	0.06539
Cr 267.716	-0.7032	ppb	0.6543	93.0	-115.287	-0.70316
Cu 324.754	4.6206	ppb	1.4537	31.5	-1089.53	4.62063
Fe 271.441	194739	ppb	237.095	0.1	155983	-
K 766.491	3.5613	ppb	0.1956	5.5	2543.06	3.56126

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Mg 279.078	554395	ppb	852.471	0.2	668507	-
Mn 257.610	1.3968	ppb	0.0328	2.3	1904.70	1.39682
Mo 202.032	-2.4042	ppb	1.5517	64.5	-25.4209	-2.40415
Na 330.237	581.317	ppb	43.4876	7.5	-53.7410	581.31696
Ni 231.604	4.6663	ppb	1.3152	28.2	50.4532	4.66625
Pb 220.353	-2.7850	ppb	3.7614	135.1	-55.0003	-2.78500
Sb 206.834	-3.1045	ppb	3.7734	121.5	12.4215	-3.10446
Se 196.026	15.0418	ppb	13.5055	89.8	12.0899	15.04177
Sn 189.925	6.0409	ppb	1.3345	22.1	0.8950	6.04086
Sr 216.596	-1.6339	ppb	1.5366	94.0	110.047	-1.63392
Ti 334.941	5.6745	ppb	0.0362	0.6	2049.35	5.67449
Tl 190.794	-10.2258	ppb	4.3109	42.2	-27.2148	-10.22582
V 292.401	0.7095	ppb	0.3620	51.0	76.6676	0.70951
Zn 206.200	8.5838	ppb	1.1585	13.5	53.1136	8.58377

Interf Check AB (ICSAB)

4/10/2013, 2:23:50 PM

Rack S, Tube 6

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	225.878	ppb	1.2757	0.6	7250.50	112.93917
Al 308.215	579436	ppb	393.877	0.1	1747437	115.88724
As 188.980	103.622	ppb	20.1325	19.4	31.3488	103.62215
B 249.678	14.6365	ppb	0.9810	6.7	-309.007	-
Ba 389.178	538.992	ppb	2.5710	0.5	10550.9	107.79830
Be 313.042	526.313	ppb	0.8375	0.2	875851	105.26255
Ca 370.602	522100	ppb	1772	0.3	2084328	104.41991
Cd 226.502	1027.04	ppb	1.7105	0.2	24080.3	102.70445
Co 228.615	503.687	ppb	1.0386	0.2	4252.62	100.73743
Cr 267.716	528.110	ppb	1.2606	0.2	8978.45	105.62191
Cu 324.754	588.635	ppb	1.7307	0.3	21490.6	117.72691
Fe 271.441	196458	ppb	296.546	0.2	157390	98.22885
K 766.491	4.2491	ppb	0.0740	1.7	2482.83	-
Mg 279.078	562324	ppb	254.855	0.0	678071	112.46486
Mn 257.610	535.728	ppb	0.9850	0.2	56314.4	107.14555
Mo 202.032	1106.46	ppb	4.5376	0.4	3981.89	110.64626
Na 330.237	392.704	ppb	136.002	34.6	-66.2660	-
Ni 231.604	1003.50	ppb	3.4869	0.3	3094.95	100.35002
Pb 220.353	55.8098	ppb	6.0946	10.9	-11.7846	111.61969
Sb 206.834	611.119	ppb	14.6048	2.4	430.455	101.85318
Se 196.026	57.9276	ppb	6.2378	10.8	23.9189	115.85519
Sn 189.925	1044.70	ppb	8.1935	0.8	666.304	104.46960
Sr 216.596	-0.1913	ppb	0.8538	446.3	61.4967	-
Ti 334.941	-0.7724	ppb	0.0885	11.5	618.593	-
Tl 190.794	82.6325	ppb	0.8526	1.0	18.0887	82.63253
V 292.401	513.426	ppb	0.6043	0.1	15323.4	102.68513
Zn 206.200	1007.52	ppb	1.9031	0.2	3233.57	100.75231

LRA1 (Samp)

4/10/2013, 2:29:18 PM

Rack S, Tube 7

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.0258b	ppb	0.4791	46.7	-35.6457
Al 308.215	122.059b	ppb	2.4836	2.0	408.989



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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	22747.7xb	ppb	99.2355	0.4	8383.98
B 249.678	5945.60xb	ppb	14.3847	0.2	56127.5
Ba 389.178	-1.7567b	ppb	0.8179	46.6	-44.1228
Be 313.042	0.4129b	ppb	0.0168	4.1	606.604
Ca 370.602	186.4b	ppb	3.718	2.0	5918
Cd 226.502	-1.5478b	ppb	0.2149	13.9	-19.7214
Co 228.615	12249.5b	ppb	10.2569	0.1	104625
Cr 267.716	0.1041b	ppb	0.5783	555.2	83.9836
Cu 324.754	29.5455b	ppb	0.2318	0.8	1072.97
Fe 271.441	209.748b	ppb	1.2446	0.6	766.448
K 766.491	47.7278b	ppb	0.1461	0.3	8567.25
Mg 279.078	57.8828b	ppb	2.3732	4.1	33.7099
Mn 257.610	34591.1xb	ppb	56.1672	0.2	3521338
Mo 202.032	0.4822b	ppb	0.6184	128.3	3.3645
Na 330.237	130752xb	ppb	292.839	0.2	9017.92
Ni 231.604	12341.8b	ppb	23.0045	0.2	37612.5
Pb 220.353	23681.5xb	ppb	46.9660	0.2	18479.6
Sb 206.834	86.9109b	ppb	1.2202	1.4	2.7505
Se 196.026	1.7274b	ppb	1.3113	75.9	11.0436
Sn 189.925	-8.6925b	ppb	3.5036	40.3	2.9005
Sr 216.596	-7.3061b	ppb	0.3641	5.0	-523.064
Ti 334.941	36798.9b	ppb	95.0106	0.3	8401935
Tl 190.794	2.1448b	ppb	9.3815	437.4	46.9222
V 292.401	2.6413b	ppb	0.1445	5.5	376.550
Zn 206.200	30.9638b	ppb	0.4230	1.4	100.008

LRA2 (Samp)

4/10/2013, 2:38:23 PM

Rack S, Tube 8

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.2045b	ppb	0.4534	221.8	-218.287
Al 308.215	1029213xb	ppb	17751.5	1.7	3103651
As 188.980	-68.3364b	ppb	11.0680	16.2	-38.1926
B 249.678	50.4211b	ppb	4.4905	8.9	-1990.30
Ba 389.178	19.9229b	ppb	3.2978	16.6	3363.88
Be 313.042	0.0719b	ppb	0.0068	9.5	355.597
Ca 370.602	888651b	ppb	13894	1.6	3416761
Cd 226.502	14.0194b	ppb	1.4450	10.3	2569.65
Co 228.615	4.9122b	ppb	2.9214	59.5	49.1624
Cr 267.716	9.4308b	ppb	0.3819	4.0	-406.646
Cu 324.754	7.1723b	ppb	1.3769	19.2	-1649.36
Fe 271.441	1004401b	ppb	17646.3	1.8	804533
K 766.491	3842040xb	ppb	7231.77	1.9	52132172
Mg 279.078	957664b	ppb	16829.7	1.8	1152294
Mn 257.610	26.1632b	ppb	1.1231	4.3	6457.94
Mo 202.032	-5.6006b	ppb	3.5733	63.8	-140.462
Na 330.237	274.138b	ppb	100.134	36.5	-433.638
Ni 231.604	2.8336b	ppb	2.7770	98.0	111.871
Pb 220.353	-7.7760b	ppb	0.2827	3.6	-103.584
Sb 206.834	-10.3858b	ppb	11.3879	109.6	32.6147
Se 196.026	55.2251b	ppb	41.2242	74.6	15.9920
Sn 189.925	13.7845b	ppb	6.6087	47.9	4.5604
Sr 216.596	6.1256b	ppb	4.2073	68.7	575.359
Ti 334.941	21.8573b	ppb	0.3661	1.7	6236.66

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Tl 190.794	-35.5473b	ppb	7.9533	22.4	-91.3183
V 292.401	2.7351b	ppb	0.6146	22.5	316.242
Zn 206.200	31397.6b	ppb	533.589	1.7	100081

rinse (Samp) 4/10/2013, 2:43:51 PM Rack S, Tube 1  
 Weight: 1 Volume: 1 Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.2955	ppb	0.5753	194.7	-37.7599
Al 308.215	21.4573	ppb	6.9632	32.5	105.038
As 188.980	-5.5915	ppb	2.1685	38.8	-1.5698
B 249.678	2.8100	ppb	1.5869	56.5	69.2242
Ba 389.178	-0.2760	ppb	0.3868	140.1	-19.5996
Be 313.042	0.0049	ppb	0.0111	226.2	-50.5207
Ca 370.602	22.32	ppb	2.391	10.7	25.35
Cd 226.502	-0.0030	ppb	0.1834	6056.9	13.8055
Co 228.615	-0.4374	ppb	0.4944	113.0	-14.1072
Cr 267.716	-0.0912	ppb	0.2765	303.2	5.4484
Cu 324.754	-0.0636	ppb	0.5533	869.4	97.7507
Fe 271.441	27.5477	ppb	7.2464	26.3	17.2963
K 766.491	13.7588	ppb	3.5485	25.8	3957.46
Mg 279.078	16.9545	ppb	4.3421	25.6	50.7318
Mn 257.610	-0.1899	ppb	0.0798	42.1	35.5026
Mo 202.032	-0.2721	ppb	0.1071	39.3	0.7960
Na 330.237	-52.4609	ppb	164.710	314.0	0.5929
Ni 231.604	-0.4799	ppb	1.2977	270.4	0.2857
Pb 220.353	4.1469	ppb	2.3565	56.8	4.2239
Sb 206.834	0.1689	ppb	2.0151	1193.2	4.5155
Se 196.026	-8.4381	ppb	3.9290	46.6	1.7761
Sn 189.925	-0.3868	ppb	1.7561	454.0	-1.2395
Sr 216.596	-0.4125	ppb	0.6334	153.6	-9.2465
Ti 334.941	-0.2553	ppb	0.0390	15.3	44.9243
Tl 190.794	-1.1647	ppb	4.7603	408.7	-0.9983
V 292.401	-0.0060	ppb	0.1075	1795.5	9.2945
Zn 206.200	1.4447	ppb	0.3813	26.4	5.9897

Cont Calib Verif (CCV) 4/10/2013, 2:49:16 PM Rack 1, Tube 1  
 Weight: 1 Volume: 1 Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	494.226	ppb	6.4072	1.3	15978.9	98.84518
Al 308.215	5036.34	ppb	37.1486	0.7	15500.4	100.72672
As 188.980	489.566	ppb	12.5349	2.6	181.748	97.91319
B 249.678	506.853	ppb	3.6761	0.7	4795.11	20.27412Q
Ba 389.178	5107.92	ppb	31.2613	0.6	87596.4	102.15842
Be 313.042	513.097	ppb	3.0016	0.6	856614	102.61943
Ca 370.602	5019	ppb	31.59	0.6	19660	100.37764
Cd 226.502	508.672	ppb	2.5297	0.5	11714.8	101.73446
Co 228.615	508.161	ppb	3.4045	0.7	4310.89	101.63216
Cr 267.716	5144.53	ppb	27.8704	0.5	88496.8	102.89069
Cu 324.754	5084.58	ppb	26.7756	0.5	196641	101.69158
Fe 271.441	4947.44	ppb	25.3529	0.5	4023.64	98.94878
K 766.491	9993.53	ppb	44.0292	0.4	1356590	99.93530

F04102013.wvq. All Data Report 4/11/2013, 9:46:33 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Mg 279.078	4977.66	ppb	31.2850	0.6	6010.62	99.55327
Mn 257.610	5281.55	ppb	29.6790	0.6	537664	105.63100
Mo 202.032	494.057	ppb	5.5247	1.1	1777.53	98.81130
Na 330.237	7313.51	ppb	139.401	1.9	522.704	97.51347
Ni 231.604	2594.85	ppb	16.6763	0.6	7914.25	103.79406
Pb 220.353	501.970	ppb	3.4067	0.7	387.360	100.39403
Sb 206.834	913.360	ppb	6.3467	0.7	656.841	36.53442Q
Se 196.026	4909.61	ppb	7.7122	0.2	1341.66	98.19213
Sn 189.925	4922.20	ppb	40.8290	0.8	3152.60	98.44402
Sr 216.596	2511.83	ppb	11.9278	0.5	15601.6	100.47304
Ti 334.941	495.689	ppb	2.9756	0.6	113625	99.13775
Tl 190.794	4950.38	ppb	32.3486	0.7	2419.20	99.00770
V 292.401	4941.03	ppb	34.6680	0.7	149508	98.82063
Zn 206.200	2582.57	ppb	21.0663	0.8	8208.31	103.30292

Cont Calib Blank (CCB)

4/10/2013, 2:54:41 PM

Rack 1, Tube 2

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	-0.0921	ppb	0.3954	429.2	-31.1660	-0.09213
Al 308.215	-1.6300	ppb	1.1269	69.1	35.4490	-1.63002
As 188.980	-1.9421	ppb	10.1199	521.1	-0.2240	-1.94210
B 249.678	2.8378	ppb	0.7657	27.0	69.5577	2.83781
Ba 389.178	-0.2717	ppb	0.9767	359.5	-19.5984	-0.27168
Be 313.042	0.0235	ppb	0.0068	29.1	-19.4597	0.02349
Ca 370.602	-4.335	ppb	2.089	48.2	-77.85	-4.33474
Cd 226.502	0.2383	ppb	0.1172	49.2	19.2919	0.23827
Co 228.615	-0.1093	ppb	0.4447	406.8	-11.3349	-0.10933
Cr 267.716	0.1973	ppb	0.3362	170.4	10.4257	0.19732
Cu 324.754	0.4339	ppb	0.2206	50.8	117.056	0.43387
Fe 271.441	2.2610	ppb	5.5464	245.3	-2.9298	2.26096
K 766.491	2.1828	ppb	0.1321	6.0	2386.74	2.18281
Mg 279.078	-5.0948	ppb	1.9364	38.0	24.2142	-5.09477
Mn 257.610	0.0664	ppb	0.0236	35.6	61.4920	0.06645
Mo 202.032	0.5334	ppb	0.0123	2.3	3.7102	0.53336
Na 330.237	-59.4257	ppb	107.679	181.2	0.1117	-59.42568
Ni 231.604	-0.1693	ppb	0.1852	109.4	1.2311	-0.16930
Pb 220.353	-3.8499	ppb	5.4781	142.3	-2.0152	-3.84989
Sb 206.834	0.3566	ppb	2.8797	807.6	4.6384	0.35657
Se 196.026	4.7671	ppb	4.0153	84.2	5.3713	4.76710
Sn 189.925	2.0929	ppb	2.0739	99.1	0.3492	2.09289
Sr 216.596	-0.1036	ppb	0.3362	324.4	-7.3521	-0.10364
Ti 334.941	-0.6027	ppb	0.0359	6.0	-34.4057	-0.60271
Tl 190.794	-0.1755	ppb	5.7064	3251.3	-0.5136	-0.17551
V 292.401	0.3249	ppb	0.2601	80.0	19.1768	0.32487
Zn 206.200	0.3612	ppb	0.5602	155.1	2.5357	0.36120

MB 272635 (Samp)

4/10/2013, 3:00:07 PM

Rack 1, Tube 3

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.3252	ppb	0.4535	139.5	-38.7182
Al 308.215	1.8249	ppb	1.0141	55.6	45.8370

F04102013.wvq. All Data Report 4/11/2013, 9:46:33 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	-3.4833	ppb	5.3981	155.0	-0.7922
B 249.678	3.4275	ppb	0.4708	13.7	75.0985
Ba 389.178	-0.1866	ppb	0.5746	308.0	-18.1484
Be 313.042	-0.0061	ppb	0.0039	64.6	-68.7335
Ca 370.602	-8.470	ppb	0.6260	7.4	-94.72
Cd 226.502	0.1005	ppb	0.0416	41.4	16.1258
Co 228.615	-0.0468	ppb	0.6014	1285.3	-10.7883
Cr 267.716	0.0605	ppb	0.3721	615.1	8.0721
Cu 324.754	0.1477	ppb	0.2118	143.4	105.995
Fe 271.441	2.0401	ppb	1.8462	90.5	-3.1157
K 766.491	1.1763	ppb	0.1575	13.4	2250.21
Mg 279.078	-1.2703	ppb	5.4294	427.4	28.8307
Mn 257.610	-0.2544	ppb	0.0407	16.0	28.8289
Mo 202.032	-0.1916	ppb	0.6098	318.4	1.0900
Na 330.237	-41.3895	ppb	45.6907	110.4	1.3953
Ni 231.604	-0.6893	ppb	0.4701	68.2	-0.3516
Pb 220.353	-1.6837	ppb	1.4986	89.0	-0.3237
Sb 206.834	-3.3458	ppb	2.6125	78.1	2.1455
Se 196.026	-0.3029	ppb	8.6712	2862.7	3.9910
Sn 189.925	-0.6194	ppb	1.0277	165.9	-1.3885
Sr 216.596	-0.4597	ppb	0.8349	181.6	-9.5454
Ti 334.941	-0.7192	ppb	0.0424	5.9	-61.0112
Tl 190.794	2.1673	ppb	5.0149	231.4	0.6292
V 292.401	0.1554	ppb	0.2344	150.8	14.2657
Zn 206.200	0.2470	ppb	0.5320	215.4	2.1721

LCS (Samp)

4/10/2013, 3:05:33 PM

Rack 1, Tube 4

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	14.5878	ppb	1.0428	7.1	445.196
Al 308.215	4974.13	ppb	368.974	7.4	15047.4
As 188.980	92.9725	ppb	10.8622	11.7	34.7148
B 249.678	188.626	ppb	13.8735	7.4	1801.84
Ba 389.178	101.217	ppb	7.5190	7.4	1736.38
Be 313.042	50.9102	ppb	3.7522	7.4	84683.5
Ca 370.602	4865	ppb	334.9	6.9	18811
Cd 226.502	51.3825	ppb	4.3267	8.4	1205.30
Co 228.615	50.4176	ppb	3.2626	6.5	417.848
Cr 267.716	101.862	ppb	8.0894	7.9	1757.07
Cu 324.754	99.9650	ppb	10.7028	10.7	3953.74
Fe 271.441	4800.33	ppb	352.186	7.3	3843.75
K 766.491	5035.61	ppb	389.978	7.7	685311
Mg 279.078	4870.52	ppb	365.139	7.5	5890.76
Mn 257.610	523.120	ppb	39.0759	7.5	53320.4
Mo 202.032	98.2508	ppb	6.6407	6.8	356.180
Na 330.237	4827.28	ppb	373.359	7.7	344.684
Ni 231.604	101.454	ppb	7.5755	7.5	311.457
Pb 220.353	49.6688	ppb	7.7998	15.7	39.0531
Sb 206.834	41.7967	ppb	6.5064	15.6	33.2342
Se 196.026	95.1322	ppb	11.2083	11.8	30.0601
Sn 189.925	191.645	ppb	12.6382	6.6	121.796
Sr 216.596	99.2438	ppb	7.5627	7.6	611.230
Ti 334.941	95.8246	ppb	7.1294	7.4	21994.3

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Tl 190.794	34.6489	ppb	1.9034	5.5	16.2653
V 292.401	97.8267	ppb	7.2000	7.4	2948.31
Zn 206.200	101.851	ppb	7.0784	6.9	325.730

LCS (Samp) 4/10/2013, 3:10:59 PM Rack 1, Tube 5  
 Weight: 1 Volume: 1 Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	209.638	ppb	2.1035	1.0	6766.35
Al 308.215	2039.39	ppb	72.2161	3.5	6203.28
As 188.980	198.531	ppb	5.9082	3.0	73.4217
B 249.678	383.585	ppb	13.5531	3.5	3595.84
Ba 389.178	191.811	ppb	6.6376	3.5	3338.12
Be 313.042	204.286	ppb	7.2474	3.5	339879
Ca 370.602	20087	ppb	665.0	3.3	77744
Cd 226.502	203.978	ppb	7.6042	3.7	4745.22
Co 228.615	201.998	ppb	7.0483	3.5	1705.79
Cr 267.716	204.661	ppb	7.4520	3.6	3518.21
Cu 324.754	209.935	ppb	4.0916	1.9	8170.26
Fe 271.441	20241.8	ppb	716.244	3.5	16220.9
K 766.491	20134.2	ppb	701.450	3.5	2733911
Mg 279.078	20052.0	ppb	676.020	3.4	24156.0
Mn 257.610	2099.23	ppb	75.5376	3.6	213805
Mo 202.032	197.813	ppb	5.6674	2.9	713.760
Na 330.237	18600.5	ppb	830.243	4.5	1315.88
Ni 231.604	205.903	ppb	7.5600	3.7	631.269
Pb 220.353	199.374	ppb	8.3556	4.2	155.854
Sb 206.834	179.835	ppb	12.5929	7.0	128.409
Se 196.026	198.129	ppb	0.9278	0.5	58.2947
Sn 189.925	194.131	ppb	10.1170	5.2	123.362
Sr 216.596	209.509	ppb	7.6575	3.7	1303.43
Ti 334.941	195.087	ppb	6.7662	3.5	44682.4
Tl 190.794	33.8562	ppb	3.5776	10.6	15.2731
V 292.401	200.951	ppb	7.4233	3.7	6047.35
Zn 206.200	192.584	ppb	5.9242	3.1	615.280

88779-1 (Samp) 4/10/2013, 3:16:26 PM Rack 1, Tube 6  
 Weight: 1 Volume: 1 Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.2291	ppb	0.5271	230.1	-35.6433
Al 308.215	11.0165	ppb	1.7353	15.8	73.5573
As 188.980	-3.9764	ppb	4.9186	123.7	-1.0478
B 249.678	10.2111	ppb	1.0250	10.0	138.747
Ba 389.178	11.4275	ppb	0.2979	2.6	184.455
Be 313.042	0.0055	ppb	0.0165	299.4	-48.8484
Ca 370.602	5309	ppb	222.2	4.2	21523
Cd 226.502	0.0717	ppb	0.1698	236.8	15.4794
Co 228.615	-0.0772	ppb	0.9486	1229.0	-11.0468
Cr 267.716	-0.0870	ppb	0.0984	113.1	5.5728
Cu 324.754	27.9081	ppb	1.4066	5.0	1164.20
Fe 271.441	11.7799	ppb	6.7223	57.1	4.6773
K 766.491	2269.45	ppb	76.7778	3.4	310015

F04102013.wvq. All Data Report 4/11/2013, 9:46:33 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Mg 279.078	1814.06	ppb	76.3857	4.2	2220.03
Mn 257.610	0.1082	ppb	0.0983	90.8	70.5649
Mo 202.032	-0.1313	ppb	0.5644	429.8	1.3069
Na 330.237	7313.47	ppb	260.403	3.6	524.554
Ni 231.604	-0.2381	ppb	0.9014	378.5	1.0893
Pb 220.353	-1.9649	ppb	2.3031	117.2	-0.5449
Sb 206.834	-1.8768	ppb	1.9774	105.4	3.1806
Se 196.026	7.6218	ppb	16.7874	220.3	6.1754
Sn 189.925	-0.7194	ppb	4.0077	557.1	-1.4714
Sr 216.596	31.5673	ppb	1.3539	4.3	191.059
Ti 334.941	-0.6218	ppb	0.0506	8.1	-33.0142
Tl 190.794	-8.5344	ppb	6.0755	71.2	-4.6433
V 292.401	-0.0242	ppb	0.1317	545.2	8.6560
Zn 206.200	3.8643	ppb	0.0954	2.5	13.7597

mb 680-272071/1-a (Samp) 4/10/2013, 3:21:53 PM Rack 1, Tube 7

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1579	ppb	0.6183	391.5	-33.3067
Al 308.215	6.2734	ppb	2.3008	36.7	59.2571
As 188.980	-3.5893	ppb	2.7704	77.2	-0.8314
B 249.678	1.0539	ppb	0.1326	12.6	52.7289
Ba 389.178	-1.1724	ppb	0.3441	29.3	-34.9934
Be 313.042	-0.0122	ppb	0.0097	79.4	-79.1158
Ca 370.602	11.55	ppb	1.163	10.1	-18.71
Cd 226.502	-0.0035	ppb	0.0300	863.3	13.7967
Co 228.615	-0.3632	ppb	0.1812	49.9	-13.4936
Cr 267.716	0.8103	ppb	0.3091	38.2	20.9614
Cu 324.754	0.1436	ppb	0.2669	185.9	105.806
Fe 271.441	29.7257	ppb	2.1125	7.1	19.0347
K 766.491	19.6995	ppb	0.6305	3.2	4763.71
Mg 279.078	-5.1426	ppb	1.6941	32.9	24.0536
Mn 257.610	-0.1104	ppb	0.0125	11.3	43.5489
Mo 202.032	0.1795	ppb	0.7169	399.3	2.4284
Na 330.237	85.2124	ppb	88.6918	104.1	10.3844
Ni 231.604	0.1012	ppb	0.9798	968.1	2.0563
Pb 220.353	-1.1262	ppb	1.7337	153.9	0.1090
Sb 206.834	-3.0888	ppb	0.1674	5.4	2.2792
Se 196.026	-8.8301	ppb	11.1611	126.4	1.6692
Sn 189.925	21.9750	ppb	2.2705	10.3	13.0870
Sr 216.596	-1.0067	ppb	0.4256	42.3	-12.9996
Ti 334.941	-0.3932	ppb	0.0201	5.1	13.4770
Tl 190.794	-4.7687	ppb	1.8819	39.5	-2.7563
V 292.401	-0.1054	ppb	0.3304	313.4	6.0841
Zn 206.200	0.6704	ppb	0.6714	100.1	3.5191

lcs 680-272071/2-a (Samp) 4/10/2013, 3:27:20 PM Rack 1, Tube 8

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	8.5783	ppb	0.6403	7.5	250.625
Al 308.215	5349.64	ppb	10.3756	0.2	16180.4

F04102013.wvq. All Data Report 4/11/2013, 9:46:33 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	98.0938	ppb	3.6033	3.7	36.5985
B 249.678	196.525	ppb	0.3917	0.2	1874.99
Ba 389.178	109.815	ppb	1.0527	1.0	1885.01
Be 313.042	55.0739	ppb	0.0332	0.1	91614.2
Ca 370.602	5300	ppb	6.083	0.1	20502
Cd 226.502	54.8231	ppb	0.1711	0.3	1285.27
Co 228.615	54.3231	ppb	0.4828	0.9	451.026
Cr 267.716	111.181	ppb	0.3045	0.3	1917.19
Cu 324.754	110.465	ppb	0.2699	0.2	4358.64
Fe 271.441	5205.71	ppb	1.9456	0.0	4168.74
K 766.491	5277.00	ppb	1.2669	0.0	718061
Mg 279.078	5229.17	ppb	8.7724	0.2	6322.11
Mn 257.610	568.827	ppb	0.3358	0.1	57974.2
Mo 202.032	106.410	ppb	0.2643	0.2	385.608
Na 330.237	5115.62	ppb	101.340	2.0	364.936
Ni 231.604	109.105	ppb	1.0824	1.0	334.815
Pb 220.353	53.6685	ppb	2.4556	4.6	42.1181
Sb 206.834	47.2671	ppb	2.0782	4.4	36.9599
Se 196.026	102.203	ppb	11.4912	11.2	31.9924
Sn 189.925	216.513	ppb	2.8640	1.3	137.729
Sr 216.596	106.435	ppb	0.7771	0.7	656.000
Ti 334.941	104.775	ppb	0.1073	0.1	24039.0
Tl 190.794	37.9492	ppb	9.9118	26.1	17.8578
V 292.401	106.107	ppb	0.4423	0.4	3197.00
Zn 206.200	112.013	ppb	0.6349	0.6	358.087

ics 680-272071/3-a (Samp)

4/10/2013, 3:32:48 PM

Rack 1, Tube 9

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	207.019	ppb	1.5660	0.8	6681.70
Al 308.215	2247.64	ppb	0.9607	0.0	6831.86
As 188.980	202.115	ppb	9.1081	4.5	74.7350
B 249.678	385.311	ppb	1.2367	0.3	3610.56
Ba 389.178	199.348	ppb	0.6582	0.3	3468.87
Be 313.042	212.656	ppb	0.1647	0.1	353807
Ca 370.602	20804	ppb	13.61	0.1	80539
Cd 226.502	208.294	ppb	0.5752	0.3	4845.76
Co 228.615	208.262	ppb	0.8080	0.4	1759.02
Cr 267.716	214.500	ppb	0.7193	0.3	3687.21
Cu 324.754	216.017	ppb	0.6997	0.3	8403.65
Fe 271.441	20866.3	ppb	17.8385	0.1	16721.6
K 766.491	20177.1	ppb	23.1313	0.1	2739730
Mg 279.078	20386.1	ppb	18.0098	0.1	24556.9
Mn 257.610	2176.91	ppb	2.4600	0.1	221714
Mo 202.032	206.932	ppb	0.3868	0.2	746.627
Na 330.237	18673.8	ppb	38.9776	0.2	1320.71
Ni 231.604	212.187	ppb	1.8086	0.9	650.472
Pb 220.353	200.574	ppb	1.6840	0.8	156.749
Sb 206.834	185.278	ppb	3.6552	2.0	132.169
Se 196.026	198.313	ppb	13.6559	6.9	58.3551
Sn 189.925	215.038	ppb	4.4813	2.1	136.756
Sr 216.596	218.233	ppb	1.1231	0.5	1357.96
Ti 334.941	205.098	ppb	0.2493	0.1	46969.4

F04102013.wvq. All Data Report 4/11/2013, 9:46:33 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Tl 190.794	40.1416	ppb	6.4397	16.0	18.3129
V 292.401	209.215	ppb	0.0998	0.0	6295.40
Zn 206.200	199.157	ppb	0.8255	0.4	636.209

**680-89004-b-1-a (Samp)**      **4/10/2013, 3:38:16 PM**      **Rack 1, Tube 10**  
**Weight: 1**      **Volume: 1**      **Dilution: 1**

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-3.1793	ppb	0.4814	15.1	-52.7596
Al 308.215	181076	ppb	409.337	0.2	546093
As 188.980	42.2220	ppb	10.5846	25.1	15.7346
B 249.678	42.2185	ppb	0.5998	1.4	-56.5523
Ba 389.178	1003.29	ppb	2.7706	0.3	17446.2
Be 313.042	7.7856	ppb	0.0069	0.1	13106.4
Ca 370.602	9104	ppb	12.52	0.1	-1274
Cd 226.502	-0.8702	ppb	0.1876	21.6	437.205
Co 228.615	233.368	ppb	1.2885	0.6	1994.33
Cr 267.716	237.575	ppb	1.2139	0.5	4013.53
Cu 324.754	81.3122	ppb	0.9433	1.2	3301.99
Fe 271.441	200559	ppb	351.901	0.2	160660
K 766.491	15126.3	ppb	22.1439	0.1	2054188
Mg 279.078	10575.8	ppb	5.3344	0.1	12006.7
Mn 257.610	26713.6	ppb	81.6624	0.3	2719390
Mo 202.032	6.0071	ppb	0.6037	10.0	-1.8299
Na 330.237	696.738	ppb	55.7642	8.0	-57.4286
Ni 231.604	121.916	ppb	1.0600	0.9	386.312
Pb 220.353	199.292	ppb	7.6103	3.8	138.831
Sb 206.834	-3.3931	ppb	2.8018	82.6	7.5247
Se 196.026	3.3177	ppb	9.9028	298.5	7.7133
Sn 189.925	26.7348	ppb	2.1413	8.0	16.4428
Sr 216.596	81.4275	ppb	0.5786	0.7	598.823
Ti 334.941	1188.64	ppb	2.6235	0.2	271532
Tl 190.794	10.6309	ppb	4.7626	44.8	-6.4410
V 292.401	320.637	ppb	0.6936	0.2	9720.70
Zn 206.200	283.585	ppb	0.4444	0.2	909.225

**680-89004-b-2-a (Samp)**      **4/10/2013, 3:45:12 PM**      **Rack 1, Tube 11**  
**Weight: 1**      **Volume: 1**      **Dilution: 1**

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-2.1190b	ppb	0.5964	28.1	11.7194
Al 308.215	253610b	ppb	93.2063	0.0	764816
As 188.980	11.8993b	ppb	12.8333	107.8	4.3776
B 249.678	78.2180b	ppb	0.9181	1.2	-6.9405
Ba 389.178	1644.64b	ppb	3.6533	0.2	28594.2
Be 313.042	8.0507b	ppb	0.0135	0.2	13574.3
Ca 370.602	12270b	ppb	6.500	0.1	-10762
Cd 226.502	-2.0189b	ppb	0.2223	11.0	665.777
Co 228.615	329.462b	ppb	3.3377	1.0	2814.11
Cr 267.716	269.052b	ppb	0.0395	0.0	4503.25
Cu 324.754	155.920b	ppb	1.6893	1.1	6233.73
Fe 271.441	316685b	ppb	318.017	0.1	253683
K 766.491	30574.3b	ppb	28.8380	0.1	4150037



F04102013.wvq. All Data Report 4/11/2013, 9:46:33 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Mg 279.078	17913.0b	ppb	8.3589	0.0	20412.5
Mn 257.610	38268.1xb	ppb	113.995	0.3	3895623
Mo 202.032	4.9434b	ppb	0.6903	14.0	-20.5188
Na 330.237	1285.34b	ppb	27.5926	2.1	-75.5145
Ni 231.604	160.422b	ppb	1.6075	1.0	511.248
Pb 220.353	283.615b	ppb	3.8408	1.4	197.503
Sb 206.834	-4.1260b	ppb	2.1413	51.9	10.3411
Se 196.026	23.6207b	ppb	15.1770	64.3	13.9806
Sn 189.925	32.3281b	ppb	3.4507	10.7	20.0493
Sr 216.596	137.859b	ppb	1.5108	1.1	1008.22
Ti 334.941	1241.62b	ppb	1.8264	0.1	283642
Tl 190.794	7.7075b	ppb	5.2055	67.5	-14.6431
V 292.401	359.743b	ppb	1.0141	0.3	10906.5
Zn 206.200	245.193b	ppb	1.5941	0.7	789.973

680-89004-b-3-a (Samp)

4/10/2013, 3:50:40 PM

Rack 1, Tube 12

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1880b	ppb	0.6540	347.9	-91.0685
Al 308.215	281361b	ppb	463.990	0.2	848504
As 188.980	0.3740b	ppb	3.2468	868.1	0.3079
B 249.678	144.876b	ppb	0.8568	0.6	695.546
Ba 389.178	413.191b	ppb	1.4496	0.4	7459.69
Be 313.042	8.6997b	ppb	0.0144	0.2	14624.3
Ca 370.602	4175b	ppb	7.146	0.2	-38257
Cd 226.502	-1.7993b	ppb	0.4591	25.5	601.001
Co 228.615	36.1316b	ppb	0.3285	0.9	328.780
Cr 267.716	380.344b	ppb	0.5489	0.1	6389.73
Cu 324.754	156.348b	ppb	1.9257	1.2	6256.19
Fe 271.441	283473b	ppb	206.068	0.1	227064
K 766.491	45607.6xb	ppb	27.1529	0.1	6190160
Mg 279.078	26206.1b	ppb	54.4512	0.2	30613.5
Mn 257.610	1121.48b	ppb	0.1943	0.0	114635
Mo 202.032	1.0317b	ppb	0.6176	59.9	-29.6549
Na 330.237	782.920b	ppb	169.838	21.7	-98.6405
Ni 231.604	144.096b	ppb	0.6454	0.4	459.942
Pb 220.353	24.2338b	ppb	9.3760	38.7	-7.3928
Sb 206.834	0.9365b	ppb	6.8641	732.9	12.9545
Se 196.026	21.4883b	ppb	24.8453	115.6	7.0082
Sn 189.925	29.8363b	ppb	1.7284	5.8	18.6254
Sr 216.596	42.1364b	ppb	0.9876	2.3	393.867
Ti 334.941	1811.62b	ppb	0.2676	0.0	413778
Tl 190.794	-7.8781b	ppb	5.1633	65.5	-20.8687
V 292.401	297.839b	ppb	0.1645	0.1	9099.21
Zn 206.200	254.781b	ppb	1.9531	0.8	819.564

Cont Calib Verif (CCV)

4/10/2013, 3:56:07 PM

Rack 1, Tube 13

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	500.770	ppb	1.5438	0.3	16190.9	100.15405
Al 308.215	5096.80	ppb	1.0181	0.0	15685.8	101.93601

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
As 188.980	496.130	ppb	7.7868	1.6	184.177	99.22609
B 249.678	509.677	ppb	0.9175	0.2	4821.56	20.38708Q
Ba 389.178	5152.82	ppb	9.2455	0.2	88366.6	103.05650
Be 313.042	518.433	ppb	0.8109	0.2	865525	103.68652
Ca 370.602	5054	ppb	15.75	0.3	19797	101.07886
Cd 226.502	512.598	ppb	0.9639	0.2	11805.1	102.51967
Co 228.615	512.995	ppb	2.1939	0.4	4351.97	102.59904
Cr 267.716	5174.28	ppb	13.1008	0.3	89008.2	103.48560
Cu 324.754	5167.47	ppb	18.4083	0.4	199846	103.34933
Fe 271.441	4987.33	ppb	13.7262	0.3	4056.35	99.74660
K 766.491	10086.7	ppb	16.9148	0.2	1369221	100.86729
Mg 279.078	5026.20	ppb	5.3742	0.1	6068.95	100.52402
Mn 257.610	5325.98	ppb	10.2456	0.2	542187	106.51966
Mo 202.032	502.583	ppb	2.2550	0.4	1808.24	100.51666
Na 330.237	7458.15	ppb	30.2027	0.4	532.967	99.44197
Ni 231.604	2611.07	ppb	1.1546	0.0	7963.70	104.44273
Pb 220.353	504.950	ppb	3.8316	0.8	389.635	100.98997
Sb 206.834	920.563	ppb	2.1423	0.2	662.015	36.82252Q
Se 196.026	4974.04	ppb	17.2210	0.3	1359.21	99.48080
Sn 189.925	4945.88	ppb	16.5539	0.3	3167.77	98.91761
Sr 216.596	2531.57	ppb	1.7052	0.1	15724.4	101.26285
Ti 334.941	500.334	ppb	1.3182	0.3	114688	100.06683
Tl 190.794	4989.37	ppb	29.6308	0.6	2438.27	99.78740
V 292.401	4998.24	ppb	4.8088	0.1	151240	99.96485
Zn 206.200	2600.83	ppb	1.3767	0.1	8266.31	104.03340

Cont Calib Blank (CCB)

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Rack 1, Tube 14

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.2293	ppb	0.2996	130.7	-20.7574	0.22930
Al 308.215	-2.2080	ppb	1.6315	73.9	33.6844	-2.20802
As 188.980	-6.5246	ppb	1.8406	28.2	-1.9133	-6.52458
B 249.678	1.0033	ppb	0.2383	23.7	52.3654	1.00330
Ba 389.178	-0.6478	ppb	1.1429	176.4	-26.0581	-0.64776
Be 313.042	0.0007	ppb	0.0086	1221.0	-57.4363	0.00070
Ca 370.602	-6.861	ppb	1.424	20.8	-86.84	-6.86144
Cd 226.502	0.1174	ppb	0.1617	137.8	16.4992	0.11737
Co 228.615	0.3872	ppb	0.3318	85.7	-7.1067	0.38716
Cr 267.716	0.6657	ppb	0.0907	13.6	18.4898	0.66566
Cu 324.754	0.2779	ppb	0.3193	114.9	111.032	0.27790
Fe 271.441	-4.6351	ppb	3.9031	84.2	-8.4418	-4.63513
K 766.491	1.2668	ppb	0.2875	22.7	2262.63	1.26683
Mg 279.078	-9.5579	ppb	6.2921	65.8	18.8517	-9.55787
Mn 257.610	-0.0517	ppb	0.1023	198.0	49.4572	-0.05167
Mo 202.032	0.3042	ppb	1.0580	347.8	2.8832	0.30424
Na 330.237	-15.3710	ppb	63.0805	410.4	3.2499	-15.37102
Ni 231.604	0.2814	ppb	0.3443	122.3	2.6045	0.28140
Pb 220.353	-3.0436	ppb	1.9727	64.8	-1.3858	-3.04362
Sb 206.834	-0.7005	ppb	3.1172	445.0	3.9354	-0.70051
Se 196.026	3.2124	ppb	1.6543	51.5	4.9481	3.21239
Sn 189.925	-0.1442	ppb	0.6585	456.8	-1.0840	-0.14416
Sr 216.596	0.1275	ppb	0.2591	203.3	-5.9158	0.12747
Ti 334.941	-0.6858	ppb	0.0370	5.4	53.3476	-0.68577

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Tl 190.794	1.5061	ppb	6.6540	441.8	0.3075	1.50606
V 292.401	0.1516	ppb	0.1944	128.3	14.0264	0.15156
Zn 206.200	0.5102	ppb	0.1552	30.4	3.0085	0.51024

**680-89004-b-4-a (Samp)**      **4/10/2013, 4:09:54 PM**      **Rack 1, Tube 15**  
**Weight: 1**      **Volume: 1**      **Dilution: 1**

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-5.4788	ppb	0.6317	11.5	-296.912
Al 308.215	226180	ppb	237.603	0.1	682073
As 188.980	44.3005	ppb	4.5042	10.2	16.2343
B 249.678	71.4764	ppb	0.8338	1.2	-571.301
Ba 389.178	876.984	ppb	1.2398	0.1	15661.9
Be 313.042	15.3121	ppb	0.0115	0.1	25640.8
Ca 370.602	2114	ppb	12.66	0.6	-91933
Cd 226.502	-3.7494	ppb	0.2968	7.9	1050.31
Co 228.615	42.0231	ppb	0.1967	0.5	367.014
Cr 267.716	317.758	ppb	1.9011	0.6	5179.65
Cu 324.754	313.105	ppb	0.6124	0.2	12442.8
Fe 271.441	514365	ppb	162.793	0.0	412013
K 766.491	23575.8	ppb	14.8725	0.1	3200671
Mg 279.078	13023.5	ppb	10.2173	0.1	13844.3
Mn 257.610	2390.44	ppb	1.4874	0.1	244026
Mo 202.032	1.7422	ppb	1.7112	98.2	-59.2361
Na 330.237	744.022	ppb	52.0976	7.0	-211.223
Ni 231.604	226.597	ppb	3.1830	1.4	725.430
Pb 220.353	140.704	ppb	15.0279	10.7	87.7981
Sb 206.834	-3.9104	ppb	2.8531	73.0	16.9808
Se 196.026	29.9573	ppb	5.4199	18.1	5.8326
Sn 189.925	25.2040	ppb	6.4359	25.5	15.4320
Sr 216.596	389.639	ppb	3.2870	0.8	2676.19
Ti 334.941	730.708	ppb	0.3612	0.0	166987
Tl 190.794	-0.5185	ppb	5.5845	1077.0	-29.6726
V 292.401	333.158	ppb	0.1048	0.0	10212.3
Zn 206.200	292.059	ppb	1.4802	0.5	943.924

**680-89004-b-5-a (Samp)**      **4/10/2013, 4:15:20 PM**      **Rack 1, Tube 16**  
**Weight: 1**      **Volume: 1**      **Dilution: 1**

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-3.2719b	ppb	0.8370	25.6	-179.618
Al 308.215	265672b	ppb	256.917	0.1	801185
As 188.980	2.2955b	ppb	7.3115	318.5	0.9751
B 249.678	150.954b	ppb	1.6641	1.1	673.496
Ba 389.178	548.033b	ppb	0.4318	0.1	9829.67
Be 313.042	13.4639b	ppb	0.0163	0.1	22485.5
Ca 370.602	1095b	ppb	6.964	0.6	-56920
Cd 226.502	-1.9100b	ppb	0.3283	17.2	667.420
Co 228.615	126.161b	ppb	0.9750	0.8	1104.66
Cr 267.716	301.505b	ppb	0.7457	0.2	5021.31
Cu 324.754	203.878b	ppb	2.3673	1.2	8117.62
Fe 271.441	315727b	ppb	542.310	0.2	252904
K 766.491	50720.9xb	ppb	60.4716	0.1	6883911

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Mg 279.078	36759.2b	ppb	22.4488	0.1	43223.8
Mn 257.610	5484.47b	ppb	5.6377	0.1	558797
Mo 202.032	-0.8817b	ppb	0.9077	103.0	-41.0151
Na 330.237	864.792b	ppb	161.934	18.7	-114.584
Ni 231.604	284.001b	ppb	0.6546	0.2	888.784
Pb 220.353	21.2230b	ppb	6.2987	29.7	-8.2948
Sb 206.834	-2.0794b	ppb	6.2227	299.3	10.0065
Se 196.026	19.9679b	ppb	8.0179	40.2	6.9320
Sn 189.925	29.1926b	ppb	7.0405	24.1	18.4082
Sr 216.596	32.8523b	ppb	0.7207	2.2	345.745
Ti 334.941	2501.01b	ppb	3.2479	0.1	571171
Tl 190.794	2.9270b	ppb	7.7039	263.2	-16.5932
V 292.401	205.064b	ppb	0.5303	0.3	6293.84
Zn 206.200	387.493b	ppb	1.0827	0.3	1243.82

680-89004-b-6-a (Samp)

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Rack 1, Tube 17

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-5.3009	ppb	0.4287	8.1	-204.284
Al 308.215	278698	ppb	313.287	0.1	840468
As 188.980	3.6149	ppb	7.3168	202.4	1.4398
B 249.678	70.1424	ppb	1.3836	2.0	-104.467
Ba 389.178	622.104	ppb	1.7932	0.3	11077.0
Be 313.042	12.8362	ppb	0.0097	0.1	21496.8
Ca 370.602	2164	ppb	13.53	0.6	-54049
Cd 226.502	-2.2451	ppb	0.4091	18.2	677.350
Co 228.615	144.657	ppb	1.3052	0.9	1237.48
Cr 267.716	248.963	ppb	0.3470	0.1	4121.16
Cu 324.754	149.680	ppb	0.8469	0.6	6030.51
Fe 271.441	323641	ppb	144.438	0.0	259245
K 766.491	31331.5	ppb	3.8165	0.0	4253064
Mg 279.078	20027.0	ppb	46.8571	0.2	22983.3
Mn 257.610	13421.7	ppb	14.2615	0.1	1366639
Mo 202.032	1.2774	ppb	0.6366	49.8	-34.2625
Na 330.237	788.016	ppb	167.009	21.2	-111.137
Ni 231.604	222.206	ppb	1.8443	0.8	700.245
Pb 220.353	88.5502	ppb	2.8829	3.3	43.0450
Sb 206.834	-13.2653	ppb	4.5407	34.2	4.7917
Se 196.026	9.1714	ppb	21.9575	239.4	5.3206
Sn 189.925	25.6355	ppb	3.5813	14.0	15.7028
Sr 216.596	69.2941	ppb	0.3537	0.5	580.249
Ti 334.941	850.462	ppb	0.5774	0.1	194321
Tl 190.794	-3.1153	ppb	4.7822	153.5	-21.1227
V 292.401	290.712	ppb	0.5737	0.2	8864.20
Zn 206.200	420.771	ppb	1.2598	0.3	1349.65

680-89004-b-7-a (Samp)

4/10/2013, 4:26:12 PM

Rack 1, Tube 18

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-3.1096	ppb	0.4799	15.4	-128.414
Al 308.215	196016	ppb	285.370	0.1	591143

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	3.6368	ppb	6.3196	173.8	1.6230
B 249.678	64.7457	ppb	0.9654	1.5	250.826
Ba 389.178	719.682	ppb	2.3709	0.3	12559.3
Be 313.042	7.8686	ppb	0.0193	0.2	13150.5
Ca 370.602	2118	ppb	8.792	0.4	-22448
Cd 226.502	-1.1209	ppb	0.6789	60.6	347.793
Co 228.615	121.277	ppb	1.0553	0.9	1054.35
Cr 267.716	177.505	ppb	0.8572	0.5	2980.76
Cu 324.754	77.0847	ppb	0.3561	0.5	3138.16
Fe 271.441	161084	ppb	337.958	0.2	129033
K 766.491	27970.0	ppb	75.8271	0.3	3796946
Mg 279.078	22373.0	ppb	17.6963	0.1	26425.0
Mn 257.610	8611.36	ppb	16.6649	0.2	876840
Mo 202.032	-0.4628	ppb	0.3166	68.4	-19.3995
Na 330.237	550.279	ppb	136.699	24.8	-54.6506
Ni 231.604	191.676	ppb	2.3968	1.3	597.029
Pb 220.353	36.4215	ppb	5.3391	14.7	10.6227
Sb 206.834	-4.5485	ppb	2.3187	51.0	3.7361
Se 196.026	-1.6761	ppb	17.1028	1020.4	3.6273
Sn 189.925	27.3535	ppb	1.1570	4.2	17.0896
Sr 216.596	69.6036	ppb	1.0547	1.5	503.156
Ti 334.941	2084.10	ppb	4.1026	0.2	475969
Tl 190.794	2.4521	ppb	6.9266	282.5	-8.1609
V 292.401	168.406	ppb	0.7346	0.4	5145.19
Zn 206.200	317.038	ppb	1.6099	0.5	1015.47

680-89004-b-8-a (Samp)

4/10/2013, 4:31:39 PM

Rack 1, Tube 19

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.0060	ppb	0.3138	31.2	-96.0431
Al 308.215	102990	ppb	77.0605	0.1	310600
As 188.980	73.7873	ppb	17.5239	23.7	15.8021
B 249.678	127.029	ppb	1.0054	0.8	620.621
Ba 389.178	506.036	ppb	1.1309	0.2	9873.28
Be 313.042	6.6213	ppb	0.0181	0.3	11306.3
Ca 370.602	838410	ppb	1492	0.2	3360606
Cd 226.502	53.6309	ppb	0.5623	1.0	1788.31
Co 228.615	106.645	ppb	2.2682	2.1	912.783
Cr 267.716	235.153	ppb	0.4099	0.2	3916.10
Cu 324.754	755.024	ppb	2.7091	0.4	27005.5
Fe 271.441	246780	ppb	134.909	0.1	197676
K 766.491	42141.0	ppb	34.8234	0.1	5719760
Mg 279.078	480136	ppb	858.344	0.2	578669
Mn 257.610	4378.73	ppb	3.6648	0.1	447319
Mo 202.032	8.4271	ppb	0.8563	10.2	-0.1604
Na 330.237	1548.89	ppb	52.2146	3.4	-2.8126
Ni 231.604	147.881	ppb	2.1406	1.4	486.923
Pb 220.353	616.548	ppb	6.7344	1.1	471.473
Sb 206.834	4.6138	ppb	5.8298	126.4	22.7562
Se 196.026	-8.9775	ppb	13.9838	155.8	4.5286
Sn 189.925	60.5719	ppb	3.1433	5.2	34.7985
Sr 216.596	385.621	ppb	2.3375	0.6	2558.69
Ti 334.941	835.613	ppb	0.4247	0.1	191907

F04102013.wvq. All Data Report 4/11/2013, 9:46:33 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Tl 190.794	-15.6809	ppb	3.6711	23.4	-29.7376
V 292.401	177.462	ppb	0.7051	0.4	5436.52
Zn 206.200	8717.98	ppb	18.6874	0.2	27795.5

**680-89004-b-9-a (Samp)**      **4/10/2013, 4:37:06 PM**      **Rack 1, Tube 20**  
**Weight: 1**      **Volume: 1**      **Dilution: 1**

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.1462b	ppb	0.6684	58.3	-61.8168
Al 308.215	126710b	ppb	110.239	0.1	382134
As 188.980	32.4625b	ppb	15.5121	47.8	10.6333
B 249.678	132.051b	ppb	1.1665	0.9	702.792
Ba 389.178	1338.68b	ppb	1.3222	0.1	23283.4
Be 313.042	9.9334b	ppb	0.0135	0.1	16612.3
Ca 370.602	113828b	ppb	20.77	0.0	417312
Cd 226.502	-0.0466b	ppb	0.1410	302.8	526.594
Co 228.615	306.560b	ppb	0.8586	0.3	2614.38
Cr 267.716	246.480b	ppb	0.3233	0.1	4128.04
Cu 324.754	273.497b	ppb	2.3470	0.9	10452.5
Fe 271.441	234575b	ppb	151.590	0.1	187909
K 766.491	47955.7xb	ppb	35.7862	0.1	6508495
Mg 279.078	35050.7b	ppb	33.9441	0.1	41450.2
Mn 257.610	11678.5b	ppb	7.5713	0.1	1189136
Mo 202.032	0.3825b	ppb	0.9764	255.3	-27.2585
Na 330.237	1570.35b	ppb	100.837	6.4	-10.5276
Ni 231.604	174.168b	ppb	1.4808	0.9	548.627
Pb 220.353	146.297b	ppb	11.2006	7.7	102.365
Sb 206.834	0.5786b	ppb	6.7461	1166.0	12.6968
Se 196.026	1.6445b	ppb	13.8632	843.0	4.1997
Sn 189.925	32.9531b	ppb	3.3095	10.0	19.9755
Sr 216.596	258.780b	ppb	1.3930	0.5	1726.90
Ti 334.941	996.961b	ppb	0.5247	0.1	227889
Tl 190.794	-1.9942b	ppb	6.6674	334.3	-15.0286
V 292.401	172.913b	ppb	0.4780	0.3	5276.69
Zn 206.200	740.033b	ppb	0.0918	0.0	2364.98

**680-89004-b-10-a (Samp)**      **4/10/2013, 4:42:33 PM**      **Rack 1, Tube 21**  
**Weight: 1**      **Volume: 1**      **Dilution: 1**

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.9344	ppb	0.9193	98.4	-63.5529
Al 308.215	123158	ppb	251.478	0.2	371432
As 188.980	31.2095	ppb	9.6325	30.9	11.7057
B 249.678	36.3863	ppb	0.3741	1.0	-77.0730
Ba 389.178	375.242	ppb	0.7321	0.2	6654.71
Be 313.042	3.8839	ppb	0.0101	0.3	6572.26
Ca 370.602	8287	ppb	14.37	0.2	-2474
Cd 226.502	-1.6011	ppb	0.1135	7.1	386.196
Co 228.615	184.866	ppb	1.0104	0.5	1575.97
Cr 267.716	207.041	ppb	1.1799	0.6	3471.07
Cu 324.754	76.9392	ppb	0.2324	0.3	3132.09
Fe 271.441	186222	ppb	625.142	0.3	149173
K 766.491	11617.8	ppb	18.9468	0.2	1578322

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Mg 279.078	6590.32	ppb	15.5316	0.2	7283.06
Mn 257.610	7463.84	ppb	20.5703	0.3	760013
Mo 202.032	5.4458	ppb	0.1792	3.3	-2.5987
Na 330.237	1339.76	ppb	81.0822	6.1	-1.7045
Ni 231.604	67.1946	ppb	1.4500	2.2	218.469
Pb 220.353	138.882	ppb	2.0964	1.5	97.1305
Sb 206.834	-5.8419	ppb	3.8218	65.4	5.8420
Se 196.026	11.1189	ppb	8.6583	77.9	6.2021
Sn 189.925	26.3705	ppb	6.0364	22.9	16.1137
Sr 216.596	58.5196	ppb	0.7484	1.3	449.667
Ti 334.941	809.705	ppb	2.6260	0.3	185008
Tl 190.794	-7.2502	ppb	4.2987	59.3	-14.1782
V 292.401	251.427	ppb	0.5669	0.2	7657.19
Zn 206.200	176.119	ppb	0.7446	0.4	566.523

680-89004-b-11-a (Samp)

4/10/2013, 4:48:00 PM

Rack 1, Tube 22

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.7458	ppb	0.2155	28.9	-99.1030
Al 308.215	166358	ppb	697.986	0.4	501701
As 188.980	20.4389	ppb	9.2871	45.4	7.5741
B 249.678	49.7260	ppb	0.5179	1.0	-107.435
Ba 389.178	406.530	ppb	2.1495	0.5	7269.03
Be 313.042	4.1723	ppb	0.0099	0.2	7083.55
Ca 370.602	14789	ppb	9.059	0.1	11802
Cd 226.502	-2.1724	ppb	0.5550	25.5	507.017
Co 228.615	35.8341	ppb	0.5717	1.6	306.185
Cr 267.716	210.789	ppb	1.4101	0.7	3491.00
Cu 324.754	90.6407	ppb	0.4439	0.5	3674.35
Fe 271.441	247131	ppb	1160.78	0.5	197954
K 766.491	20084.6	ppb	70.5907	0.4	2727117
Mg 279.078	9119.17	ppb	38.6451	0.4	10122.8
Mn 257.610	633.138	ppb	2.9622	0.5	64825.2
Mo 202.032	4.4961	ppb	1.5465	34.4	-13.7819
Na 330.237	1904.77	ppb	118.768	6.2	9.6593
Ni 231.604	81.1931	ppb	1.6901	2.1	265.203
Pb 220.353	44.9821	ppb	8.1059	18.0	19.6949
Sb 206.834	-6.3901	ppb	6.3050	98.7	7.6133
Se 196.026	17.2432	ppb	15.2057	88.2	5.8470
Sn 189.925	32.9522	ppb	5.6707	17.2	20.2398
Sr 216.596	91.2567	ppb	1.1538	1.3	684.572
Ti 334.941	509.792	ppb	2.5981	0.5	116545
Tl 190.794	-4.7609	ppb	8.2220	172.7	-17.1666
V 292.401	290.106	ppb	1.7600	0.6	8855.66
Zn 206.200	180.088	ppb	2.1643	1.2	580.784

680-89004-b-12-a (Samp)

4/10/2013, 4:53:28 PM

Rack 1, Tube 23

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.8947	ppb	0.7141	37.7	-155.943
Al 308.215	252037	ppb	374.378	0.1	760070

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	30.7507	ppb	3.3368	10.9	11.0246
B 249.678	44.7682	ppb	1.2015	2.7	-470.297
Ba 389.178	289.126	ppb	1.2805	0.4	5417.38
Be 313.042	5.9024	ppb	0.0138	0.2	10053.6
Ca 370.602	30246	ppb	24.11	0.1	49799
Cd 226.502	-2.6093	ppb	0.2461	9.4	776.119
Co 228.615	92.6137	ppb	1.3678	1.5	787.667
Cr 267.716	270.182	ppb	1.3105	0.5	4439.92
Cu 324.754	104.056	ppb	0.5767	0.6	4209.34
Fe 271.441	374101	ppb	504.363	0.1	299663
K 766.491	27722.1	ppb	34.8170	0.1	3763430
Mg 279.078	13566.1	ppb	32.5689	0.2	15019.3
Mn 257.610	1504.16	ppb	3.4963	0.2	153645
Mo 202.032	3.7464	ppb	0.3303	8.8	-32.7991
Na 330.237	2247.69	ppb	77.8139	3.5	-29.1763
Ni 231.604	109.730	ppb	3.4562	3.1	360.362
Pb 220.353	52.7250	ppb	8.5015	16.1	17.3386
Sb 206.834	-4.7358	ppb	3.4773	73.4	13.0370
Se 196.026	14.6842	ppb	2.6814	18.3	3.7751
Sn 189.925	32.1349	ppb	7.4868	23.3	19.6250
Sr 216.596	155.461	ppb	0.6331	0.4	1149.07
Ti 334.941	296.541	ppb	0.5208	0.2	67886.0
Tl 190.794	0.0080	ppb	12.3390	154785.7	-22.6125
V 292.401	416.962	ppb	1.0016	0.2	12725.2
Zn 206.200	250.835	ppb	2.7451	1.1	809.274

680-89004-b-13-a (Samp)

4/10/2013, 4:58:56 PM

Rack 1, Tube 24

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.6568	ppb	0.9142	139.2	-115.152
Al 308.215	213879	ppb	3851.48	1.8	644998
As 188.980	29.6781	ppb	10.0899	34.0	10.6588
B 249.678	45.5299	ppb	0.4710	1.0	-471.502
Ba 389.178	361.038	ppb	8.2188	2.3	6649.69
Be 313.042	5.2503	ppb	0.1073	2.0	8956.82
Ca 370.602	28479	ppb	192.6	0.7	42072
Cd 226.502	-2.8628	ppb	0.2588	9.0	774.089
Co 228.615	44.3879	ppb	1.3119	3.0	379.580
Cr 267.716	293.267	ppb	5.4648	1.9	4836.07
Cu 324.754	93.7148	ppb	1.4400	1.5	3815.14
Fe 271.441	377035	ppb	7206.66	1.9	302011
K 766.491	22982.9	ppb	338.864	1.5	3120381
Mg 279.078	11456.6	ppb	162.482	1.4	12461.5
Mn 257.610	1902.71	ppb	34.7819	1.8	194210
Mo 202.032	4.1406	ppb	2.0656	49.9	-32.2585
Na 330.237	2141.70	ppb	143.917	6.7	-39.1769
Ni 231.604	90.7110	ppb	0.6404	0.7	302.504
Pb 220.353	85.2712	ppb	5.4583	6.4	46.2128
Sb 206.834	-0.0624	ppb	11.7836	18892.1	16.3144
Se 196.026	29.1251	ppb	23.2308	79.8	7.5945
Sn 189.925	29.0169	ppb	3.7957	13.1	17.6629
Sr 216.596	143.288	ppb	2.6259	1.8	1074.28
Ti 334.941	405.751	ppb	7.4567	1.8	92818.4



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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Tl 190.794	-8.6387	ppb	6.4505	74.7	-26.5727
V 292.401	403.995	ppb	6.5659	1.6	12331.1
Zn 206.200	183.450	ppb	3.1209	1.7	594.518

**Cont Calib Verif (CCV)**

4/10/2013, 5:04:22 PM

Rack 1, Tube 25

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	500.097	ppb	2.9234	0.6	16169.0	100.01942
Al 308.215	5132.38	ppb	20.7898	0.4	15793.8	102.64761
As 188.980	494.452	ppb	3.8585	0.8	183.559	98.89041
B 249.678	509.777	ppb	1.4650	0.3	4822.49	20.39109Q
Ba 389.178	5149.22	ppb	15.0541	0.3	88304.9	102.98431
Be 313.042	518.714	ppb	1.6547	0.3	866002	103.74282
Ca 370.602	5051	ppb	18.62	0.4	19780	101.01296
Cd 226.502	510.700	ppb	1.2465	0.2	11761.5	102.14002
Co 228.615	512.721	ppb	2.0157	0.4	4349.69	102.54427
Cr 267.716	5162.02	ppb	13.6368	0.3	88797.1	103.24035
Cu 324.754	5162.89	ppb	31.8079	0.6	199669	103.25786
Fe 271.441	4996.18	ppb	7.9710	0.2	4063.61	99.92366
K 766.491	10104.8	ppb	36.6141	0.4	1371678	101.04843
Mg 279.078	5050.20	ppb	16.4222	0.3	6097.85	101.00405
Mn 257.610	5322.02	ppb	15.4266	0.3	541784	106.44050
Mo 202.032	503.607	ppb	0.9013	0.2	1811.91	100.72146
Na 330.237	7532.97	ppb	130.461	1.7	538.269	100.43966
Ni 231.604	2615.45	ppb	9.5327	0.4	7977.03	104.61782
Pb 220.353	502.288	ppb	6.0557	1.2	387.553	100.45750
Sb 206.834	909.946	ppb	4.4267	0.5	654.879	36.39784Q
Se 196.026	4984.14	ppb	6.9463	0.1	1361.96	99.68283
Sn 189.925	4920.39	ppb	6.3096	0.1	3151.44	98.40782
Sr 216.596	2534.46	ppb	10.8108	0.4	15742.2	101.37823
Ti 334.941	501.169	ppb	1.2838	0.3	114879	100.23384
Tl 190.794	4990.29	ppb	8.6484	0.2	2438.74	99.80585
V 292.401	5014.75	ppb	17.4146	0.3	151741	100.29498
Zn 206.200	2595.92	ppb	6.8485	0.3	8250.62	103.83666

**Cont Calib Blank (CCB)**

4/10/2013, 5:09:48 PM

Rack 1, Tube 26

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.0713	ppb	0.6331	887.8	-25.8724	0.07131
Al 308.215	1.2058	ppb	3.3533	278.1	44.0032	1.20581
As 188.980	-2.5524	ppb	10.3439	405.3	-0.4490	-2.55236
B 249.678	1.4307	ppb	0.8647	60.4	56.3581	1.43069
Ba 389.178	-0.2200	ppb	0.4290	195.1	-18.7198	-0.21995
Be 313.042	0.0107	ppb	0.0069	64.2	-40.6452	0.01072
Ca 370.602	-3.362	ppb	0.4406	13.1	-73.43	-3.36171
Cd 226.502	-0.0259	ppb	0.0874	337.0	13.2151	-0.02592
Co 228.615	0.2301	ppb	0.4992	216.9	-8.4487	0.23009
Cr 267.716	0.3116	ppb	0.4709	151.1	12.3939	0.31161
Cu 324.754	0.2373	ppb	0.3619	152.5	109.450	0.23729
Fe 271.441	-0.6210	ppb	3.8022	612.3	-5.2324	-0.62102
K 766.491	1.4409	ppb	0.2076	14.4	2286.04	1.44089

F04102013.wvq. All Data Report 4/11/2013, 9:46:33 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Mg 279.078	-9.1848	ppb	2.5061	27.3	19.2865	-9.18477
Mn 257.610	-0.0850	ppb	0.0843	99.1	46.0630	-0.08503
Mo 202.032	0.1876	ppb	0.5831	310.8	2.4605	0.18760
Na 330.237	43.8052	ppb	98.1058	224.0	7.4561	43.80518
Ni 231.604	0.1325	ppb	0.2886	217.8	2.1507	0.13253
Pb 220.353	0.8071	ppb	1.9749	244.7	1.6189	0.80711
Sb 206.834	-2.7156	ppb	0.6342	23.4	2.5678	-2.71564
Se 196.026	5.0674	ppb	6.2058	122.5	5.4531	5.06739
Sn 189.925	-0.1307	ppb	2.5697	1966.0	-1.0754	-0.13071
Sr 216.596	-0.4414	ppb	0.3829	86.7	-9.4778	-0.44143
Ti 334.941	-0.6404	ppb	0.0180	2.8	-43.0011	-0.64036
Tl 190.794	0.1138	ppb	4.7934	4212.4	-0.3721	0.11379
V 292.401	0.4174	ppb	0.2759	66.1	22.0073	0.41744
Zn 206.200	0.3239	ppb	0.7298	225.3	2.4166	0.32391

680-89004-b-14-a (Samp)

4/10/2013, 5:15:13 PM

Rack 1, Tube 27

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.0677	ppb	0.2491	23.3	-58.3294
Al 308.215	154157	ppb	116.682	0.1	464915
As 188.980	19.3235	ppb	12.1928	63.1	6.8098
B 249.678	32.3256	ppb	0.5776	1.8	-89.6432
Ba 389.178	478.938	ppb	1.2593	0.3	8425.87
Be 313.042	2.7443	ppb	0.0145	0.5	4702.72
Ca 370.602	46039	ppb	74.93	0.2	153072
Cd 226.502	-0.9536	ppb	0.2777	29.1	380.640
Co 228.615	164.615	ppb	0.6695	0.4	1400.38
Cr 267.716	190.247	ppb	0.8001	0.4	3189.78
Cu 324.754	104.200	ppb	0.5486	0.5	4072.77
Fe 271.441	175640	ppb	385.769	0.2	140695
K 766.491	10515.3	ppb	4.2184	0.0	1428694
Mg 279.078	9705.82	ppb	9.8284	0.1	11079.5
Mn 257.610	8911.57	ppb	15.3274	0.2	907365
Mo 202.032	5.4888	ppb	0.4760	8.7	-0.6606
Na 330.237	835.853	ppb	151.849	18.2	-30.3660
Ni 231.604	63.9129	ppb	3.0037	4.7	207.964
Pb 220.353	149.682	ppb	0.4747	0.3	102.821
Sb 206.834	3.9209	ppb	4.2890	109.4	12.6968
Se 196.026	15.4297	ppb	5.0128	32.5	8.0405
Sn 189.925	30.6191	ppb	3.0521	10.0	18.6277
Sr 216.596	90.4040	ppb	1.0908	1.2	646.450
Ti 334.941	582.427	ppb	1.4963	0.3	133161
Tl 190.794	1.2988	ppb	7.7889	599.7	-10.3307
V 292.401	271.398	ppb	0.5867	0.2	8256.43
Zn 206.200	224.506	ppb	1.4139	0.6	720.574

680-89004-b-15-a (Samp)

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Rack 1, Tube 28

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.6259	ppb	0.7797	124.6	-57.9024
Al 308.215	177610	ppb	167.787	0.1	535646

F04102013.wvq. All Data Report 4/11/2013, 9:46:33 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	-2.3061	ppb	3.9164	169.8	-0.6906
B 249.678	65.5979	ppb	0.9716	1.5	350.201
Ba 389.178	394.796	ppb	1.3667	0.3	6926.81
Be 313.042	2.4292	ppb	0.0078	0.3	4151.04
Ca 370.602	15842	ppb	4.646	0.0	40170
Cd 226.502	-0.8547	ppb	0.1691	19.8	273.897
Co 228.615	124.554	ppb	0.5540	0.4	1058.28
Cr 267.716	182.663	ppb	0.3904	0.2	3082.29
Cu 324.754	75.7246	ppb	0.8724	1.2	3036.01
Fe 271.441	124402	ppb	58.4226	0.0	99651.2
K 766.491	26350.4	ppb	29.0489	0.1	3577292
Mg 279.078	12290.4	ppb	14.5435	0.1	14398.7
Mn 257.610	3657.85	ppb	0.6033	0.0	372558
Mo 202.032	1.1073	ppb	0.8608	77.7	-9.1593
Na 330.237	1077.82	ppb	75.6289	7.0	13.4430
Ni 231.604	76.3309	ppb	0.5773	0.8	242.722
Pb 220.353	137.608	ppb	8.5799	6.2	91.4477
Sb 206.834	-0.5345	ppb	3.7637	704.1	8.0949
Se 196.026	13.7079	ppb	6.9794	50.9	7.3456
Sn 189.925	25.8283	ppb	2.7493	10.6	15.6527
Sr 216.596	67.5618	ppb	0.5715	0.8	477.289
Ti 334.941	526.765	ppb	0.1149	0.0	120415
Tl 190.794	-3.3186	ppb	8.7675	264.2	-9.9417
V 292.401	237.701	ppb	0.2611	0.1	7234.64
Zn 206.200	162.563	ppb	0.0504	0.0	522.080

680-89004-b-16-a (Samp)

4/10/2013, 5:26:05 PM

Rack 1, Tube 29

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.2594	ppb	0.7814	301.3	-89.5038
Al 308.215	166846	ppb	236.513	0.1	503170
As 188.980	29.4599	ppb	7.5823	25.7	11.0093
B 249.678	104.069	ppb	0.5256	0.5	353.903
Ba 389.178	248.712	ppb	0.8301	0.3	4588.65
Be 313.042	3.2201	ppb	0.0223	0.7	5493.02
Ca 370.602	7061	ppb	18.33	0.3	-23430
Cd 226.502	-2.6367	ppb	0.2853	10.8	538.442
Co 228.615	35.1054	ppb	0.9762	2.8	302.923
Cr 267.716	312.092	ppb	0.5685	0.2	5222.70
Cu 324.754	130.901	ppb	0.2814	0.2	5262.06
Fe 271.441	266493	ppb	566.958	0.2	213463
K 766.491	32295.4	ppb	41.8793	0.1	4383960
Mg 279.078	9956.90	ppb	45.1278	0.5	11062.3
Mn 257.610	351.586	ppb	0.9787	0.3	36194.9
Mo 202.032	1.6017	ppb	0.2736	17.1	-26.8759
Na 330.237	1580.14	ppb	183.301	11.6	-24.8788
Ni 231.604	64.5489	ppb	1.8016	2.8	215.737
Pb 220.353	37.6829	ppb	5.6652	15.0	13.8204
Sb 206.834	-7.9855	ppb	8.9210	111.7	7.7056
Se 196.026	20.0801	ppb	8.9953	44.8	6.2570
Sn 189.925	30.9656	ppb	0.9453	3.1	19.0452
Sr 216.596	37.9532	ppb	0.6150	1.6	360.811
Ti 334.941	682.172	ppb	2.3311	0.3	155900

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Tl 190.794	-0.5900	ppb	8.8969	1508.0	-15.9878
V 292.401	284.020	ppb	0.4165	0.1	8671.74
Zn 206.200	121.985	ppb	0.2656	0.2	395.803

**680-89004-b-17-a (Samp)**      **4/10/2013, 5:32:57 PM**      **Rack 1, Tube 30**  
**Weight: 1**      **Volume: 1**      **Dilution: 1**

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1465	ppb	0.4350	297.0	-88.5304
Al 308.215	193101	ppb	428.375	0.2	582343
As 188.980	17.9409	ppb	9.0330	50.3	6.7654
B 249.678	92.5220	ppb	0.5431	0.6	161.923
Ba 389.178	355.247	ppb	1.1351	0.3	6455.79
Be 313.042	4.5493	ppb	0.0167	0.4	7710.02
Ca 370.602	2925	ppb	33.10	1.1	-46863
Cd 226.502	-2.6101	ppb	0.2351	9.0	613.707
Co 228.615	86.6778	ppb	0.6892	0.8	739.943
Cr 267.716	269.643	ppb	0.9796	0.4	4473.51
Cu 324.754	145.841	ppb	0.4305	0.3	5869.26
Fe 271.441	300288	ppb	502.866	0.2	240536
K 766.491	31099.6	ppb	43.0499	0.1	4221686
Mg 279.078	10119.9	ppb	26.3691	0.3	11132.5
Mn 257.610	1035.33	ppb	1.1123	0.1	105830
Mo 202.032	3.4336	ppb	0.4237	12.3	-24.5116
Na 330.237	1163.66	ppb	54.7319	4.7	-70.8254
Ni 231.604	100.939	ppb	1.9634	1.9	328.771
Pb 220.353	90.0048	ppb	9.6716	10.7	52.1593
Sb 206.834	-6.8182	ppb	7.8544	115.2	9.1363
Se 196.026	15.0412	ppb	16.0646	106.8	4.5829
Sn 189.925	28.8917	ppb	3.5890	12.4	17.7078
Sr 216.596	31.1156	ppb	1.1396	3.7	333.297
Ti 334.941	560.821	ppb	1.2177	0.2	128188
Tl 190.794	-2.7900	ppb	5.2989	189.9	-19.0979
V 292.401	292.696	ppb	0.4935	0.2	8941.85
Zn 206.200	163.258	ppb	1.0903	0.7	528.310

**680-89004-b-17-aSD^5 (Samp)**      **4/10/2013, 5:38:23 PM**      **Rack 1, Tube 31**  
**Weight: 1**      **Volume: 1**      **Dilution: 1**

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.2530	ppb	0.1236	48.9	-47.4479
Al 308.215	37770.5	ppb	289.075	0.8	113938
As 188.980	0.7030	ppb	3.4439	489.9	0.6804
B 249.678	19.1837	ppb	0.8858	4.6	73.7074
Ba 389.178	69.7831	ppb	0.1992	0.3	1257.26
Be 313.042	0.8928	ppb	0.0107	1.2	1466.63
Ca 370.602	751.1	ppb	13.44	1.8	-8699
Cd 226.502	-0.6983	ppb	0.2636	37.7	129.178
Co 228.615	17.6212	ppb	0.7799	4.4	142.089
Cr 267.716	53.0435	ppb	0.1231	0.2	885.234
Cu 324.754	27.9230	ppb	0.6311	2.3	1205.32
Fe 271.441	59825.1	ppb	463.588	0.8	47917.2
K 766.491	6072.14	ppb	42.3802	0.7	825957

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Mg 279.078	2046.27	ppb	16.7967	0.8	2278.59
Mn 257.610	206.459	ppb	1.7578	0.9	21147.7
Mo 202.032	0.0183	ppb	0.9911	5412.8	-5.8704
Na 330.237	131.016	ppb	75.0548	57.3	-17.8011
Ni 231.604	20.4977	ppb	0.5938	2.9	68.0791
Pb 220.353	17.3450	ppb	5.4469	31.4	10.7882
Sb 206.834	-1.6606	ppb	3.1350	188.8	5.1331
Se 196.026	-1.6694	ppb	6.2662	375.4	2.9034
Sn 189.925	6.0091	ppb	4.0464	67.3	2.8951
Sr 216.596	6.1144	ppb	0.3318	5.4	60.4929
Ti 334.941	110.896	ppb	0.9168	0.8	25430.8
Tl 190.794	-3.8733	ppb	3.5276	91.1	-5.7585
V 292.401	58.3151	ppb	0.6457	1.1	1789.25
Zn 206.200	32.7662	ppb	0.2309	0.7	107.135

680-89004-b-17-aPDS (Samp) 4/10/2013, 5:43:50 PM Rack 1, Tube 32

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	50.0958	ppb	0.1965	0.4	1539.14
Al 308.215	192235	ppb	158.109	0.1	579771
As 188.980	2137.40	ppb	10.5224	0.5	788.074
B 249.678	1081.05	ppb	3.6001	0.3	9460.51
Ba 389.178	2454.08	ppb	1.4690	0.1	42445.2
Be 313.042	57.4176	ppb	0.0334	0.1	95932.1
Ca 370.602	7907	ppb	9.999	0.1	-25501
Cd 226.502	49.3482	ppb	0.7581	1.5	1797.15
Co 228.615	604.514	ppb	4.9152	0.8	5147.16
Cr 267.716	471.134	ppb	1.0506	0.2	7941.38
Cu 324.754	416.451	ppb	2.9103	0.7	16308.7
Fe 271.441	295375	ppb	114.655	0.0	236632
K 766.491	35900.6	ppb	42.7569	0.1	4872497
Mg 279.078	15058.3	ppb	22.3025	0.1	17110.8
Mn 257.610	1559.71	ppb	0.3967	0.0	159223
Mo 202.032	529.680	ppb	1.5264	0.3	1877.49
Na 330.237	6488.21	ppb	126.126	1.9	303.480
Ni 231.604	620.162	ppb	2.5369	0.4	1912.04
Pb 220.353	599.239	ppb	7.9931	1.3	448.709
Sb 206.834	483.342	ppb	8.2329	1.7	336.860
Se 196.026	2099.79	ppb	6.7596	0.3	572.355
Sn 189.925	1027.79	ppb	4.5916	0.4	657.904
Sr 216.596	548.293	ppb	0.4745	0.1	3537.92
Ti 334.941	1569.57	ppb	0.9998	0.1	358523
Tl 190.794	2012.56	ppb	5.9410	0.3	965.385
V 292.401	805.414	ppb	0.9230	0.1	24366.8
Zn 206.200	677.692	ppb	1.8456	0.3	2166.34

680-89004-b-17-b ms (Samp) 4/10/2013, 5:49:17 PM Rack 1, Tube 33

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	8.9117	ppb	0.4794	5.4	205.220
Al 308.215	203240	ppb	1282.91	0.6	612925

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	113.677	ppb	7.5968	6.7	42.0168
B 249.678	214.173	ppb	1.1700	0.5	1289.63
Ba 389.178	463.335	ppb	3.2663	0.7	8325.74
Be 313.042	56.6135	ppb	0.3287	0.6	94367.1
Ca 370.602	7726	ppb	45.91	0.6	-28451
Cd 226.502	48.0615	ppb	0.4881	1.0	1791.46
Co 228.615	141.851	ppb	0.4594	0.3	1209.35
Cr 267.716	411.051	ppb	2.5030	0.6	6903.53
Cu 324.754	254.937	ppb	3.2146	1.3	10076.3
Fe 271.441	306232	ppb	2188.44	0.7	245301
K 766.491	34869.6	ppb	183.324	0.5	4733178
Mg 279.078	14778.1	ppb	95.2795	0.6	16732.7
Mn 257.610	1564.31	ppb	10.4334	0.7	159693
Mo 202.032	102.221	ppb	0.5497	0.5	331.773
Na 330.237	6398.20	ppb	192.076	3.0	297.563
Ni 231.604	197.112	ppb	0.4661	0.2	622.437
Pb 220.353	142.699	ppb	7.8343	5.5	92.0472
Sb 206.834	27.7368	ppb	14.0142	50.5	33.4373
Se 196.026	113.522	ppb	15.1628	13.4	31.4831
Sn 189.925	216.336	ppb	2.9651	1.4	137.818
Sr 216.596	131.787	ppb	0.6764	0.5	960.938
Ti 334.941	705.336	ppb	4.4961	0.6	161199
Tl 190.794	31.1030	ppb	7.0978	22.8	-2.8548
V 292.401	382.640	ppb	2.7960	0.7	11639.3
Zn 206.200	256.472	ppb	0.8041	0.3	825.000

680-89004-b-17-c msd (Samp) 4/10/2013, 5:54:45 PM Rack 1, Tube 34

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	8.7641	ppb	0.2537	2.9	227.900
Al 308.215	193762	ppb	1392.28	0.7	584359
As 188.980	107.803	ppb	7.9526	7.4	39.9786
B 249.678	181.324	ppb	1.9107	1.1	1365.61
Ba 389.178	445.509	ppb	2.2236	0.5	7836.82
Be 313.042	55.6120	ppb	0.3909	0.7	92681.0
Ca 370.602	10145	ppb	21.15	0.2	11488
Cd 226.502	50.3986	ppb	0.4967	1.0	1512.57
Co 228.615	96.5864	ppb	0.4769	0.5	818.986
Cr 267.716	321.449	ppb	2.9293	0.9	5449.90
Cu 324.754	215.345	ppb	1.3513	0.6	8465.47
Fe 271.441	152156	ppb	990.713	0.7	121882
K 766.491	32194.7	ppb	166.490	0.5	4370245
Mg 279.078	15520.4	ppb	102.265	0.7	18200.0
Mn 257.610	867.933	ppb	5.7007	0.7	88626.8
Mo 202.032	103.274	ppb	1.7424	1.7	356.404
Na 330.237	6210.39	ppb	238.280	3.8	364.687
Ni 231.604	180.172	ppb	2.7096	1.5	561.152
Pb 220.353	123.813	ppb	5.1662	4.2	78.8541
Sb 206.834	31.5519	ppb	4.2589	13.5	31.4361
Se 196.026	87.1728	ppb	8.3858	9.6	26.4595
Sn 189.925	212.636	ppb	1.9805	0.9	135.356
Sr 216.596	140.849	ppb	1.8178	1.3	943.475
Ti 334.941	501.930	ppb	3.2603	0.6	114749

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Tl 190.794	34.7615	ppb	8.9582	25.8	6.9785
V 292.401	349.505	ppb	2.4532	0.7	10605.4
Zn 206.200	257.993	ppb	1.7200	0.7	826.346

**680-89004-b-18-a (Samp)**      **4/10/2013, 6:00:12 PM**      **Rack 1, Tube 35**  
**Weight: 1**      **Volume: 1**      **Dilution: 1**

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0280	ppb	0.5348	1911.5	-94.7568
Al 308.215	171319	ppb	195.806	0.1	516650
As 188.980	22.9690	ppb	5.1335	22.3	8.5637
B 249.678	92.7448	ppb	0.6386	0.7	-0.2132
Ba 389.178	324.906	ppb	0.3009	0.1	6012.48
Be 313.042	5.1726	ppb	0.0195	0.4	8751.44
Ca 370.602	2346	ppb	19.74	0.8	-62062
Cd 226.502	-3.3446	ppb	0.2513	7.5	737.187
Co 228.615	101.281	ppb	1.0147	1.0	866.103
Cr 267.716	328.315	ppb	1.5179	0.5	5445.88
Cu 324.754	165.177	ppb	1.4803	0.9	6649.85
Fe 271.441	366140	ppb	363.841	0.1	293285
K 766.491	28637.1	ppb	17.6023	0.1	3887566
Mg 279.078	8993.52	ppb	7.3829	0.1	9528.34
Mn 257.610	1710.78	ppb	2.7422	0.2	174657
Mo 202.032	4.3305	ppb	1.7805	41.1	-30.4998
Na 330.237	1104.10	ppb	21.4666	1.9	-109.236
Ni 231.604	103.589	ppb	5.0981	4.9	340.930
Pb 220.353	100.678	ppb	7.4793	7.4	62.1559
Sb 206.834	-0.8217	ppb	3.2014	389.6	15.3760
Se 196.026	23.4779	ppb	12.2520	52.2	5.9456
Sn 189.925	33.6388	ppb	4.2813	12.7	20.7801
Sr 216.596	27.5067	ppb	0.6112	2.2	342.108
Ti 334.941	624.724	ppb	1.0484	0.2	142783
Tl 190.794	-5.5750	ppb	12.0893	216.8	-23.6469
V 292.401	303.657	ppb	0.9727	0.3	9284.20
Zn 206.200	167.893	ppb	0.8817	0.5	544.464

**Cont Calib Verif (CCV)**      **4/10/2013, 6:05:39 PM**      **Rack 1, Tube 37**  
**Weight: 1**      **Volume: 1**      **Dilution: 1**

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	499.687	ppb	2.1710	0.4	16155.7	99.93745
Al 308.215	5126.45	ppb	8.7541	0.2	15775.5	102.52892
As 188.980	483.588	ppb	9.7622	2.0	179.553	96.71761
B 249.678	511.394	ppb	0.7792	0.2	4837.61	20.45574Q
Ba 389.178	5140.78	ppb	12.9345	0.3	88160.2	102.81564
Be 313.042	517.291	ppb	0.9023	0.2	863631	103.45823
Ca 370.602	5045	ppb	13.01	0.3	19759	100.90821
Cd 226.502	508.933	ppb	1.8792	0.4	11720.9	101.78651
Co 228.615	510.460	ppb	2.6847	0.5	4330.48	102.09206
Cr 267.716	5153.00	ppb	13.0800	0.3	88641.9	103.05994
Cu 324.754	5207.19	ppb	38.9726	0.7	201382	104.14384
Fe 271.441	5000.58	ppb	1.6215	0.0	4066.95	100.01158
K 766.491	10138.3	ppb	26.4379	0.3	1376226	101.38335

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Mg 279.078	5031.96	ppb	9.9468	0.2	6075.85	100.63917
Mn 257.610	5310.84	ppb	10.9683	0.2	540645	106.21673
Mo 202.032	501.704	ppb	1.8479	0.4	1805.04	100.34074
Na 330.237	7455.31	ppb	80.5109	1.1	532.721	99.40414
Ni 231.604	2607.51	ppb	8.3954	0.3	7952.83	104.30025
Pb 220.353	496.830	ppb	4.9982	1.0	383.306	99.36606
Sb 206.834	920.765	ppb	7.5655	0.8	662.114	36.83061Q
Se 196.026	4997.12	ppb	20.1103	0.4	1365.49	99.94241
Sn 189.925	4905.28	ppb	3.6155	0.1	3141.76	98.10555
Sr 216.596	2525.64	ppb	7.9148	0.3	15687.4	101.02550
Ti 334.941	500.820	ppb	1.1450	0.2	114799	100.16399
Tl 190.794	4976.82	ppb	29.3408	0.6	2432.16	99.53632
V 292.401	5007.52	ppb	10.2560	0.2	151522	100.15048
Zn 206.200	2581.31	ppb	4.7220	0.2	8204.12	103.25222

Cont Calib Blank (CCB)

4/10/2013, 6:11:05 PM

Rack 1, Tube 38

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	-0.0548	ppb	0.1302	237.5	-29.9633	-0.05483
Al 308.215	0.5755	ppb	2.1609	375.5	42.0725	0.57549
As 188.980	-7.4148	ppb	4.7719	64.4	-2.2418	-7.41477
B 249.678	1.0089	ppb	0.9140	90.6	52.3933	1.00894
Ba 389.178	0.6234	ppb	0.5673	91.0	-4.2498	0.62340
Be 313.042	0.0278	ppb	0.0238	85.8	-12.1986	0.02778
Ca 370.602	-0.9969	ppb	1.734	174.0	-65.38	-0.99690
Cd 226.502	0.0985	ppb	0.1022	103.7	16.0925	0.09851
Co 228.615	0.4196	ppb	0.3957	94.3	-6.8195	0.41960
Cr 267.716	0.4903	ppb	0.6171	125.8	15.4637	0.49034
Cu 324.754	0.5435	ppb	0.5129	94.4	121.285	0.54348
Fe 271.441	7.0740	ppb	8.4923	120.1	0.9389	7.07399
K 766.491	1.8369	ppb	1.1778	64.1	2339.64	1.83695
Mg 279.078	-8.2625	ppb	2.8894	35.0	20.3698	-8.26250
Mn 257.610	0.0098	ppb	0.1228	1250.3	55.7383	0.00982
Mo 202.032	0.1674	ppb	0.4932	294.7	2.3864	0.16738
Na 330.237	-135.404	ppb	80.1771	59.2	-5.2941	-135.40445
Ni 231.604	0.5822	ppb	0.9915	170.3	3.5226	0.58220
Pb 220.353	1.8008	ppb	2.1548	119.7	2.3954	1.80079
Sb 206.834	1.5516	ppb	5.0931	328.3	5.4522	1.55156
Se 196.026	1.6355	ppb	12.8421	785.2	4.5187	1.63554
Sn 189.925	0.2720	ppb	0.8417	309.5	-0.8174	0.27198
Sr 216.596	0.0393	ppb	0.4673	1188.1	-6.4612	0.03933
Ti 334.941	-0.6413	ppb	0.0348	5.4	-43.1839	-0.64127
Tl 190.794	1.7382	ppb	4.8439	278.7	0.4209	1.73822
V 292.401	0.3584	ppb	0.1772	49.4	20.4689	0.35840
Zn 206.200	1.0134	ppb	0.9761	96.3	4.6123	1.01335

680-89004-b-3-a^5 (Samp)

4/10/2013, 6:16:30 PM

Rack 1, Tube 39

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.5996	ppb	0.2806	46.8	-22.3619
Al 308.215	51909.1	ppb	885.419	1.7	156575



F04102013.wvq. All Data Report 4/11/2013, 9:46:33 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	7.6444	ppb	10.3138	134.9	3.2035
B 249.678	16.7878	ppb	0.4656	2.8	37.8454
Ba 389.178	336.510	ppb	5.3607	1.6	5839.97
Be 313.042	1.6367	ppb	0.0210	1.3	2713.43
Ca 370.602	2700	ppb	17.62	0.7	-1635
Cd 226.502	-0.9314	ppb	0.2605	28.0	137.230
Co 228.615	68.1383	ppb	1.4374	2.1	573.745
Cr 267.716	54.7168	ppb	1.0832	2.0	921.662
Cu 324.754	31.6770	ppb	0.3555	1.1	1346.35
Fe 271.441	65576.9	ppb	990.451	1.5	52527.2
K 766.491	6065.47	ppb	82.8826	1.4	824976
Mg 279.078	3750.54	ppb	60.0321	1.6	4299.18
Mn 257.610	8510.46	ppb	110.883	1.3	866386
Mo 202.032	1.1364	ppb	0.9826	86.5	-2.4555
Na 330.237	167.020	ppb	74.1119	44.4	-19.3070
Ni 231.604	33.4087	ppb	0.6994	2.1	107.836
Pb 220.353	56.0554	ppb	2.7231	4.9	39.6758
Sb 206.834	-0.7016	ppb	1.4079	200.7	5.7303
Se 196.026	-1.2642	ppb	12.2403	968.2	4.5604
Sn 189.925	3.8487	ppb	3.2477	84.4	1.5415
Sr 216.596	27.9335	ppb	1.3013	4.7	199.658
Ti 334.941	255.569	ppb	3.9599	1.5	58465.5
Tl 190.794	-0.0664	ppb	8.6447	13016.9	-4.1811
V 292.401	74.3830	ppb	1.1074	1.5	2261.23
Zn 206.200	50.6042	ppb	1.0846	2.1	164.150

680-89004-b-8-a^5 (Samp)

4/10/2013, 6:21:56 PM

Rack 1, Tube 40

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.6742	ppb	0.3513	52.1	-57.5365
Al 308.215	19920.2	ppb	75.8611	0.4	60108.3
As 188.980	11.6692	ppb	8.0072	68.6	2.3330
B 249.678	27.7380	ppb	0.4182	1.5	171.920
Ba 389.178	104.314	ppb	1.0070	1.0	2021.73
Be 313.042	1.3785	ppb	0.0078	0.6	2307.23
Ca 370.602	173269	ppb	408.4	0.2	694124
Cd 226.502	11.0504	ppb	0.1437	1.3	383.433
Co 228.615	23.5022	ppb	0.6320	2.7	192.866
Cr 267.716	49.0495	ppb	0.1529	0.3	821.680
Cu 324.754	147.148	ppb	0.5869	0.4	5317.60
Fe 271.441	52708.9	ppb	146.753	0.3	42217.2
K 766.491	6807.37	ppb	22.9284	0.3	925703
Mg 279.078	97207.5	ppb	195.239	0.2	117170
Mn 257.610	924.205	ppb	1.9855	0.2	94446.5
Mo 202.032	1.8347	ppb	1.6164	88.1	1.4597
Na 330.237	447.875	ppb	35.3104	7.9	11.2036
Ni 231.604	37.3325	ppb	0.7771	2.1	122.669
Pb 220.353	127.120	ppb	9.7919	7.7	98.1169
Sb 206.834	-3.9901	ppb	5.3669	134.5	4.9165
Se 196.026	5.2880	ppb	4.9431	93.5	6.0714
Sn 189.925	10.7938	ppb	4.5084	41.8	5.3008
Sr 216.596	81.0231	ppb	1.0176	1.3	532.366
Ti 334.941	172.868	ppb	0.6309	0.4	39782.6

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Tl 190.794	-8.6581	ppb	9.3171	107.6	-9.1996
V 292.401	37.3513	ppb	0.1640	0.4	1151.92
Zn 206.200	1886.54	ppb	4.6323	0.2	6015.68

**640-43026-b-1-a^5 (Samp)**      **4/10/2013, 6:27:22 PM**      **Rack 1, Tube 41**  
**Weight: 1**      **Volume: 1**      **Dilution: 1**

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	1.0273b	ppb	0.4151	40.4	-48.5706
Al 308.215	9407.42b	ppb	138.090	1.5	28383.1
As 188.980	-12.9302b	ppb	16.6006	128.4	-4.8107
B 249.678	225.539b	ppb	3.2210	1.4	1503.47
Ba 389.178	452.287b	ppb	5.6425	1.2	8063.39
Be 313.042	0.3971b	ppb	0.0111	2.8	614.144
Ca 370.602	26755b	ppb	234.5	0.9	57533
Cd 226.502	-0.1213b	ppb	0.2587	213.4	577.266
Co 228.615	17.4432b	ppb	0.7815	4.5	160.808
Cr 267.716	1029.25b	ppb	18.2956	1.8	17569.1
Cu 324.754	2030.90b	ppb	28.1064	1.4	78682.5
Fe 271.441	262382b	ppb	4303.99	1.6	210166
K 766.491	46740.2xb	ppb	651.613	1.4	6343832
Mg 279.078	3966.75b	ppb	49.6132	1.3	3844.44
Mn 257.610	1626.66b	ppb	25.9295	1.6	165965
Mo 202.032	55.8359b	ppb	1.8871	3.4	168.108
Na 330.237	25663.8b	ppb	354.422	1.4	1688.15
Ni 231.604	544.035b	ppb	6.9934	1.3	1676.73
Pb 220.353	192.092b	ppb	4.8610	2.5	148.124
Sb 206.834	1.9046b	ppb	6.2430	327.8	20.5092
Se 196.026	16.4125b	ppb	6.2924	38.3	5.0645
Sn 189.925	151.922b	ppb	3.8609	2.5	96.6114
Sr 216.596	60.7918b	ppb	0.6110	1.0	478.908
Ti 334.941	1249.22b	ppb	19.8216	1.6	285422
Tl 190.794	-2.3205b	ppb	5.1416	221.6	-15.0826
V 292.401	26.6464b	ppb	0.4922	1.8	803.009
Zn 206.200	1396.41b	ppb	21.9430	1.6	4452.44

**640-43026-b-2-a^5 (Samp)**      **4/10/2013, 6:32:48 PM**      **Rack 1, Tube 42**  
**Weight: 1**      **Volume: 1**      **Dilution: 1**

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.8623b	ppb	1.4606	169.4	-72.4740
Al 308.215	9745.17b	ppb	449.085	4.6	29387.9
As 188.980	-23.6720b	ppb	8.5467	36.1	-8.9909
B 249.678	132.286b	ppb	1.8635	1.4	339.397
Ba 389.178	336.446b	ppb	15.6046	4.6	6215.07
Be 313.042	0.2538b	ppb	0.0176	6.9	379.284
Ca 370.602	33512b	ppb	651.7	1.9	62425
Cd 226.502	-2.3325b	ppb	1.4321	61.4	775.224
Co 228.615	16.5775b	ppb	0.5927	3.6	152.419
Cr 267.716	989.987b	ppb	44.9306	4.5	16827.8
Cu 324.754	4045.59b	ppb	215.105	5.3	156630
Fe 271.441	377790b	ppb	17085.9	4.5	302609
K 766.491	40025.6xb	ppb	1497.77	3.7	5432795

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Mg 279.078	3701.45b	ppb	112.474	3.0	3095.49
Mn 257.610	2587.02b	ppb	113.584	4.4	263851
Mo 202.032	47.7371b	ppb	2.5330	5.3	123.185
Na 330.237	11034.4b	ppb	538.158	4.9	591.776
Ni 231.604	450.119b	ppb	20.9413	4.7	1397.74
Pb 220.353	246.170b	ppb	8.0749	3.3	189.898
Sb 206.834	8.9314b	ppb	1.1972	13.4	28.3755
Se 196.026	21.1411b	ppb	9.5486	45.2	4.8296
Sn 189.925	137.973b	ppb	4.0402	2.9	87.6136
Sr 216.596	62.0709b	ppb	4.9617	8.0	545.198
Ti 334.941	1043.36b	ppb	46.9493	4.5	238427
Tl 190.794	4.1561b	ppb	12.1773	293.0	-18.2919
V 292.401	26.2603b	ppb	1.1982	4.6	817.128
Zn 206.200	2367.34b	ppb	106.060	4.5	7548.51

640-43026-b-3-a^5 (Samp)

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Rack 1, Tube 43

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	1.4460	ppb	0.5650	39.1	-25.3828
Al 308.215	1394.28	ppb	29.7095	2.1	4216.92
As 188.980	11.9766	ppb	5.2231	43.6	4.2351
B 249.678	25.5244	ppb	0.4929	1.9	-362.893
Ba 389.178	158.193	ppb	3.6516	2.3	3012.58
Be 313.042	0.0613	ppb	0.0071	11.5	53.5780
Ca 370.602	30894	ppb	315.9	1.0	75104
Cd 226.502	-1.8973	ppb	0.3334	17.6	526.431
Co 228.615	19.6447	ppb	0.5314	2.7	161.996
Cr 267.716	429.813	ppb	6.9560	1.6	7256.19
Cu 324.754	568.340	ppb	8.0240	1.4	22115.3
Fe 271.441	258023	ppb	4364.52	1.7	206675
K 766.491	3132.54	ppb	44.6867	1.4	427071
Mg 279.078	2791.45	ppb	18.0019	0.6	2441.92
Mn 257.610	1780.69	ppb	29.6144	1.7	181621
Mo 202.032	34.0273	ppb	1.1872	3.5	89.7916
Na 330.237	935.666	ppb	107.198	11.5	-60.4422
Ni 231.604	250.573	ppb	5.6313	2.2	781.890
Pb 220.353	166.280	ppb	8.2830	5.0	129.246
Sb 206.834	-2.3695	ppb	6.4820	273.6	13.8440
Se 196.026	0.9002	ppb	7.4400	826.5	0.9159
Sn 189.925	48.0134	ppb	7.0160	14.6	29.7189
Sr 216.596	33.3651	ppb	1.0790	3.2	318.064
Ti 334.941	85.4326	ppb	1.6132	1.9	19679.8
Tl 190.794	-1.8023	ppb	2.0046	111.2	-15.3356
V 292.401	12.1547	ppb	0.2580	2.1	395.099
Zn 206.200	834.144	ppb	11.7682	1.4	2663.53

640-43026-b-4-a^5 (Samp)

4/10/2013, 6:43:42 PM

Rack 1, Tube 44

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	1.6461	ppb	0.7973	48.4	-30.5892
Al 308.215	6083.51	ppb	111.414	1.8	18354.0

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	-11.7536	ppb	2.2271	18.9	-4.5788
B 249.678	115.024	ppb	0.3737	0.3	373.397
Ba 389.178	259.719	ppb	3.6062	1.4	4804.52
Be 313.042	0.1781	ppb	0.0011	0.6	252.574
Ca 370.602	35272	ppb	353.0	1.0	84841
Cd 226.502	-1.2037	ppb	0.4913	40.8	632.075
Co 228.615	16.5669	ppb	0.2591	1.6	144.355
Cr 267.716	673.651	ppb	12.9925	1.9	11428.4
Cu 324.754	1483.94	ppb	23.3619	1.6	57526.6
Fe 271.441	299571	ppb	5073.24	1.7	239955
K 766.491	25948.6	ppb	421.842	1.6	3522800
Mg 279.078	3389.10	ppb	42.4263	1.3	3009.81
Mn 257.610	1778.28	ppb	29.3504	1.7	181433
Mo 202.032	40.7236	ppb	2.5240	6.2	108.418
Na 330.237	8979.20	ppb	97.8641	1.1	487.389
Ni 231.604	317.449	ppb	6.0092	1.9	988.377
Pb 220.353	283.484	ppb	8.3827	3.0	219.915
Sb 206.834	9.0813	ppb	5.9648	65.7	24.0223
Se 196.026	4.9288	ppb	11.9259	242.0	1.4247
Sn 189.925	151.387	ppb	7.0449	4.7	96.0728
Sr 216.596	50.8313	ppb	3.3692	6.6	444.310
Ti 334.941	605.100	ppb	10.5510	1.7	138349
Tl 190.794	-6.5327	ppb	4.2287	64.7	-19.5969
V 292.401	21.1258	ppb	0.3171	1.5	664.219
Zn 206.200	1388.70	ppb	24.8582	1.8	4430.23

680-89038-b-30-a^5 (Samp)

4/10/2013, 6:49:09 PM

Rack 1, Tube 45

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.2951	ppb	0.3386	26.1	-53.8833
Al 308.215	30377.5	ppb	31.6683	0.1	91642.4
As 188.980	48.8355	ppb	9.3230	19.1	18.0034
B 249.678	28.7342	ppb	0.1899	0.7	-16.9268
Ba 389.178	1319.14	ppb	1.6510	0.1	22764.8
Be 313.042	5.0897	ppb	0.0068	0.1	8535.78
Ca 370.602	26392	ppb	38.74	0.1	81703
Cd 226.502	3.0690	ppb	0.2098	6.8	371.350
Co 228.615	59.0910	ppb	0.5750	1.0	500.812
Cr 267.716	140.456	ppb	0.3906	0.3	2359.06
Cu 324.754	260.833	ppb	2.6973	1.0	10168.2
Fe 271.441	132226	ppb	291.708	0.2	105914
K 766.491	2393.83	ppb	4.3504	0.2	326512
Mg 279.078	3160.83	ppb	8.6785	0.3	3338.95
Mn 257.610	9581.16	ppb	15.4128	0.2	975448
Mo 202.032	7.0541	ppb	1.5040	21.3	9.3882
Na 330.237	623.256	ppb	145.999	23.4	-19.5063
Ni 231.604	42.1099	ppb	0.0964	0.2	138.529
Pb 220.353	630.554	ppb	5.9068	0.9	489.626
Sb 206.834	7.0730	ppb	1.6790	23.7	13.3234
Se 196.026	-2.8943	ppb	5.8245	201.2	3.3204
Sn 189.925	60.6082	ppb	4.2715	7.0	37.8649
Sr 216.596	178.714	ppb	0.1990	0.1	1175.57
Ti 334.941	410.000	ppb	0.5625	0.1	93759.6

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Tl 190.794	-5.4078	ppb	5.1894	96.0	-10.1290
V 292.401	189.778	ppb	0.3774	0.2	5770.38
Zn 206.200	1544.42	ppb	4.9408	0.3	4924.19

**680-88980-a-27-a^5 (Samp)**      **4/10/2013, 6:54:36 PM**      **Rack 1, Tube 46**  
**Weight: 1**      **Volume: 1**      **Dilution: 1**

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.7679	ppb	0.4447	57.9	20.3085
Al 308.215	16149.1	ppb	105.144	0.7	48736.6
As 188.980	25.4936	ppb	11.5506	45.3	8.1891
B 249.678	25.1831	ppb	0.5594	2.2	159.740
Ba 389.178	830.618	ppb	5.8748	0.7	14328.4
Be 313.042	1.6373	ppb	0.0063	0.4	2723.78
Ca 370.602	118850	ppb	662.1	0.6	474030
Cd 226.502	6.6686	ppb	0.1635	2.5	271.653
Co 228.615	18.8263	ppb	0.9047	4.8	155.286
Cr 267.716	53.4380	ppb	0.2833	0.5	908.779
Cu 324.754	331.629	ppb	2.7962	0.8	12601.2
Fe 271.441	47966.9	ppb	290.494	0.6	38418.6
K 766.491	1905.18	ppb	10.4373	0.5	260352
Mg 279.078	24166.9	ppb	156.187	0.6	29010.4
Mn 257.610	7576.79	ppb	35.0385	0.5	771385
Mo 202.032	5.0371	ppb	1.0431	20.7	13.6271
Na 330.237	570.747	ppb	229.666	40.2	21.4214
Ni 231.604	48.2109	ppb	0.9071	1.9	152.666
Pb 220.353	638.412	ppb	5.4829	0.9	497.459
Sb 206.834	-0.6398	ppb	2.5164	393.3	6.3258
Se 196.026	-6.6854	ppb	2.6748	40.0	3.5282
Sn 189.925	24.7698	ppb	2.9432	11.9	14.4987
Sr 216.596	210.128	ppb	2.1861	1.0	1334.85
Ti 334.941	298.751	ppb	1.9010	0.6	68457.5
Tl 190.794	-2.6114	ppb	2.4279	93.0	-5.3382
V 292.401	40.9416	ppb	0.1318	0.3	1244.80
Zn 206.200	1895.00	ppb	10.2692	0.5	6039.95

**CCV (Samp)**      **4/10/2013, 7:00:04 PM**      **Rack 1, Tube 47**  
**Weight: 1**      **Volume: 1**      **Dilution: 1**

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	500.893	ppb	2.9785	0.6	16194.9
Al 308.215	5143.41	ppb	3.6139	0.1	15827.6
As 188.980	487.980	ppb	3.8302	0.8	181.172
B 249.678	510.354	ppb	2.7812	0.5	4827.90
Ba 389.178	5147.51	ppb	3.4498	0.1	88275.7
Be 313.042	519.373	ppb	0.2988	0.1	867104
Ca 370.602	5056	ppb	5.666	0.1	19804
Cd 226.502	509.837	ppb	0.4820	0.1	11741.6
Co 228.615	510.572	ppb	0.9832	0.2	4331.44
Cr 267.716	5156.13	ppb	7.1836	0.1	88695.7
Cu 324.754	5179.70	ppb	66.2297	1.3	200318
Fe 271.441	4987.06	ppb	6.1516	0.1	4056.32
K 766.491	10173.8	ppb	5.8747	0.1	1381033

F04102013.wvq. All Data Report 4/11/2013, 9:46:33 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Mg 279.078	5060.61	ppb	2.4957	0.0	6110.43
Mn 257.610	5324.89	ppb	6.2639	0.1	542075
Mo 202.032	503.547	ppb	0.5966	0.1	1811.68
Na 330.237	7476.40	ppb	275.462	3.7	534.226
Ni 231.604	2613.33	ppb	5.0895	0.2	7970.58
Pb 220.353	503.697	ppb	1.5605	0.3	388.658
Sb 206.834	920.598	ppb	7.4571	0.8	662.015
Se 196.026	5001.17	ppb	14.6872	0.3	1366.60
Sn 189.925	4906.96	ppb	14.2071	0.3	3142.83
Sr 216.596	2529.99	ppb	1.3671	0.1	15714.4
Ti 334.941	501.873	ppb	0.2619	0.1	115040
Tl 190.794	4985.39	ppb	28.8186	0.6	2436.36
V 292.401	5024.32	ppb	5.9192	0.1	152032
Zn 206.200	2586.09	ppb	1.8161	0.1	8219.35

CCB (Samp)

4/10/2013, 7:05:33 PM

Rack 1, Tube 48

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.2440	ppb	0.1922	78.8	-36.0857
Al 308.215	-1.9804	ppb	2.8840	145.6	34.4065
As 188.980	-4.0910	ppb	6.6746	163.2	-1.0162
B 249.678	1.4623	ppb	0.4079	27.9	56.6641
Ba 389.178	0.1563	ppb	0.2379	152.2	-12.2655
Be 313.042	0.0484	ppb	0.0100	20.6	22.1861
Ca 370.602	-2.506	ppb	1.961	78.3	-69.84
Cd 226.502	0.0133	ppb	0.1608	1213.6	14.1145
Co 228.615	0.2442	ppb	0.1020	41.8	-8.3326
Cr 267.716	0.6652	ppb	0.1225	18.4	18.4776
Cu 324.754	0.7670	ppb	0.3309	43.1	129.936
Fe 271.441	-1.4008	ppb	10.2805	733.9	-5.8354
K 766.491	2.2691	ppb	0.2412	10.6	2398.37
Mg 279.078	-9.3001	ppb	4.4458	47.8	19.1483
Mn 257.610	0.3132	ppb	0.0682	21.8	86.6033
Mo 202.032	0.6995	ppb	0.6802	97.2	4.3108
Na 330.237	-41.3624	ppb	74.9334	181.2	1.3996
Ni 231.604	0.7187	ppb	0.3060	42.6	3.9347
Pb 220.353	-6.5241	ppb	1.7825	27.3	-4.1027
Sb 206.834	-0.0804	ppb	1.5694	1952.7	4.3470
Se 196.026	7.1352	ppb	4.8819	68.4	6.0161
Sn 189.925	1.4121	ppb	3.9769	281.6	-0.0870
Sr 216.596	-0.2547	ppb	0.2987	117.3	-8.3362
Ti 334.941	-0.6539	ppb	0.0630	9.6	-46.0408
Tl 190.794	-4.3315	ppb	2.8325	65.4	-2.5388
V 292.401	0.5526	ppb	0.1442	26.1	26.0256
Zn 206.200	1.0695	ppb	0.8258	77.2	4.7894

Cont Calib Verif (CCV)

4/10/2013, 7:11:00 PM

Rack 2, Tube 1

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	495.178	ppb	2.4531	0.5	16009.7	99.03561
Al 308.215	5114.10	ppb	20.2349	0.4	15737.8	102.28194

F04102013.wvq. All Data Report 4/11/2013, 9:46:33 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
As 188.980	488.410	ppb	14.1133	2.9	181.329	97.68198
B 249.678	510.207	ppb	3.3293	0.7	4826.55	20.40828Q
Ba 389.178	5128.17	ppb	25.0787	0.5	87943.9	102.56347
Be 313.042	517.165	ppb	2.1103	0.4	863416	103.43295
Ca 370.602	5028	ppb	21.49	0.4	19692	100.56331
Cd 226.502	508.705	ppb	2.1932	0.4	11715.6	101.74104
Co 228.615	510.255	ppb	3.7930	0.7	4328.76	102.05106
Cr 267.716	5145.67	ppb	26.1209	0.5	88516.0	102.91350
Cu 324.754	5194.96	ppb	32.8482	0.6	200909	103.89928
Fe 271.441	4981.96	ppb	33.9363	0.7	4051.96	99.63914
K 766.491	10124.0	ppb	47.4542	0.5	1374284	101.24000
Mg 279.078	5026.16	ppb	23.3092	0.5	6068.95	100.52322
Mn 257.610	5304.39	ppb	24.4672	0.5	539989	106.08779
Mo 202.032	501.323	ppb	1.4048	0.3	1803.68	100.26450
Na 330.237	7554.93	ppb	112.439	1.5	539.817	100.73246
Ni 231.604	2599.32	ppb	7.4910	0.3	7927.86	103.97269
Pb 220.353	502.539	ppb	6.6779	1.3	387.775	100.50782
Sb 206.834	918.261	ppb	7.2349	0.8	660.338	36.73044Q
Se 196.026	4987.65	ppb	38.7011	0.8	1362.91	99.75292
Sn 189.925	4892.62	ppb	23.1947	0.5	3133.65	97.85230
Sr 216.596	2515.51	ppb	13.3487	0.5	15624.3	100.62032
Ti 334.941	499.982	ppb	2.1167	0.4	114607	99.99642
Tl 190.794	4962.73	ppb	18.4091	0.4	2425.29	99.25459
V 292.401	4999.28	ppb	19.7772	0.4	151273	99.98552
Zn 206.200	2575.31	ppb	14.3901	0.6	8185.08	103.01253

Cont Calib Blank (CCB)

4/10/2013, 7:16:26 PM

Rack 2, Tube 2

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.0934	ppb	0.6748	722.2	-25.1573	0.09344
Al 308.215	-2.0040	ppb	5.8088	289.9	34.3364	-2.00398
As 188.980	-1.1968	ppb	1.4032	117.2	0.0507	-1.19679
B 249.678	1.4993	ppb	0.7916	52.8	57.0008	1.49927
Ba 389.178	0.0440	ppb	0.7629	1733.2	-14.1820	0.04402
Be 313.042	0.0423	ppb	0.0212	50.1	12.0771	0.04234
Ca 370.602	-5.961	ppb	0.8609	14.4	-84.30	-5.96105
Cd 226.502	0.0015	ppb	0.0967	6375.6	13.8495	0.00152
Co 228.615	0.2965	ppb	0.4510	152.1	-7.8848	0.29646
Cr 267.716	0.8508	ppb	0.2925	34.4	21.6700	0.85082
Cu 324.754	0.4215	ppb	0.2144	50.9	116.585	0.42153
Fe 271.441	0.3963	ppb	2.4074	607.5	-4.4079	0.39630
K 766.491	1.4963	ppb	0.8801	58.8	2293.54	1.49627
Mg 279.078	-4.2531	ppb	3.6816	86.6	25.2327	-4.25313
Mn 257.610	0.1749	ppb	0.1693	96.8	72.5316	0.17488
Mo 202.032	0.5062	ppb	0.4694	92.7	3.6117	0.50623
Na 330.237	-43.1837	ppb	152.547	353.3	1.2693	-43.18373
Ni 231.604	0.8475	ppb	0.2779	32.8	4.3296	0.84748
Pb 220.353	-0.0180	ppb	0.4594	2550.4	0.9743	-0.01801
Sb 206.834	1.5894	ppb	0.9836	61.9	5.4821	1.58940
Se 196.026	-4.5066	ppb	1.6333	36.2	2.8467	-4.50656
Sn 189.925	-0.5452	ppb	1.8314	335.9	-1.3409	-0.54519
Sr 216.596	0.1120	ppb	0.6190	552.4	-6.0419	0.11205
Ti 334.941	-0.6054	ppb	0.0699	11.6	34.9739	-0.60536

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Tl 190.794	-0.5463	ppb	5.7986	1061.5	-0.6936	-0.54626
V 292.401	0.6228	ppb	0.2126	34.1	28.1833	0.62281
Zn 206.200	1.2545	ppb	0.4552	36.3	5.3791	1.25453

**mb 680-271415/1-c (Samp)**      **4/10/2013, 7:21:52 PM**      **Rack 2, Tube 3**  
**Weight: 1**      **Volume: 1**      **Dilution: 1**

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1885	ppb	0.2431	129.0	-34.2932
Al 308.215	-3.3725	ppb	2.5113	74.5	30.1583
As 188.980	-5.1557	ppb	5.8699	113.9	-1.4086
B 249.678	2.2675	ppb	0.9257	40.8	64.2115
Ba 389.178	-0.7116	ppb	0.1267	17.8	-27.1497
Be 313.042	-0.0152	ppb	0.0024	15.5	-84.0127
Ca 370.602	-7.423	ppb	3.137	42.3	-90.31
Cd 226.502	0.0501	ppb	0.1522	303.9	14.9653
Co 228.615	0.0383	ppb	0.2324	606.2	-10.0686
Cr 267.716	0.5501	ppb	0.1830	33.3	16.5000
Cu 324.754	0.7145	ppb	0.7825	109.5	127.912
Fe 271.441	0.7641	ppb	3.2850	429.9	-4.1360
K 766.491	0.2486	ppb	2.2492	904.7	2124.52
Mg 279.078	-6.4279	ppb	5.0601	78.7	22.6085
Mn 257.610	-0.4608	ppb	0.0329	7.1	7.8191
Mo 202.032	-0.0185	ppb	0.5450	2951.1	1.7162
Na 330.237	-9.1115	ppb	49.6272	544.7	3.6929
Ni 231.604	-1.0876	ppb	0.4287	39.4	-1.5699
Pb 220.353	-5.6200	ppb	5.2334	93.1	-3.3955
Sb 206.834	-0.9059	ppb	5.0294	555.2	3.7946
Se 196.026	-0.9268	ppb	7.1067	766.8	3.8211
Sn 189.925	0.8819	ppb	1.0080	114.3	-0.4266
Sr 216.596	-0.1548	ppb	0.5633	363.9	-7.6280
Ti 334.941	-0.7237	ppb	0.0559	7.7	-62.0150
Tl 190.794	-4.4234	ppb	4.5620	103.1	-2.5846
V 292.401	-0.0342	ppb	0.1440	420.5	8.4399
Zn 206.200	0.9106	ppb	0.3921	43.1	4.2850

**lcs 680-271415/2-c (Samp)**      **4/10/2013, 7:27:19 PM**      **Rack 2, Tube 4**  
**Weight: 1**      **Volume: 1**      **Dilution: 1**

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	37.4125	ppb	0.7725	2.1	1184.52
Al 308.215	5232.72	ppb	7.6185	0.1	15827.6
As 188.980	104.349	ppb	1.8591	1.8	38.9068
B 249.678	197.238	ppb	1.2365	0.6	1882.14
Ba 389.178	105.701	ppb	1.4594	1.4	1813.92
Be 313.042	53.9854	ppb	0.0290	0.1	89802.0
Ca 370.602	5062	ppb	6.911	0.1	19570
Cd 226.502	52.6397	ppb	0.0723	0.1	1234.69
Co 228.615	52.2936	ppb	0.4104	0.8	433.790
Cr 267.716	105.454	ppb	0.2287	0.2	1818.74
Cu 324.754	106.773	ppb	0.3408	0.3	4216.51
Fe 271.441	5008.38	ppb	5.0377	0.1	4010.57
K 766.491	5169.44	ppb	2.3598	0.0	703468



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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Mg 279.078	5093.71	ppb	7.1742	0.1	6159.31
Mn 257.610	545.970	ppb	0.7288	0.1	55647.1
Mo 202.032	102.950	ppb	1.1154	1.1	373.132
Na 330.237	4950.31	ppb	88.7466	1.8	353.286
Ni 231.604	105.376	ppb	1.9444	1.8	323.435
Pb 220.353	47.5738	ppb	2.0495	4.3	37.3859
Sb 206.834	41.9026	ppb	5.0992	12.2	33.3355
Se 196.026	103.244	ppb	6.4362	6.2	32.2723
Sn 189.925	197.939	ppb	4.0677	2.1	125.829
Sr 216.596	101.874	ppb	0.8130	0.8	627.566
Ti 334.941	100.701	ppb	0.1474	0.1	23108.1
Tl 190.794	40.0322	ppb	0.2705	0.7	18.8825
V 292.401	103.278	ppb	0.5593	0.5	3112.38
Zn 206.200	103.333	ppb	0.6685	0.6	330.446

ics 680-271415/3-c (Samp) 4/10/2013, 7:32:45 PM Rack 2, Tube 5

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	200.882	ppb	1.1617	0.6	6482.79
Al 308.215	2058.38	ppb	23.5742	1.1	6260.64
As 188.980	198.094	ppb	4.8523	2.4	73.2622
B 249.678	384.776	ppb	3.1975	0.8	3607.10
Ba 389.178	193.570	ppb	2.1621	1.1	3368.08
Be 313.042	207.492	ppb	1.8609	0.9	345213
Ca 370.602	20034	ppb	172.2	0.9	77536
Cd 226.502	200.292	ppb	1.0936	0.5	4660.44
Co 228.615	201.176	ppb	1.2489	0.6	1698.82
Cr 267.716	204.275	ppb	1.6894	0.8	3511.60
Cu 324.754	208.176	ppb	0.7899	0.4	8102.36
Fe 271.441	20176.8	ppb	156.496	0.8	16168.9
K 766.491	19992.9	ppb	148.868	0.7	2714741
Mg 279.078	20063.1	ppb	214.330	1.1	24169.5
Mn 257.610	2101.24	ppb	17.0909	0.8	214009
Mo 202.032	202.004	ppb	2.2779	1.1	728.910
Na 330.237	18437.0	ppb	190.411	1.0	1304.24
Ni 231.604	204.830	ppb	2.0180	1.0	627.992
Pb 220.353	193.701	ppb	4.5216	2.3	151.424
Sb 206.834	180.479	ppb	3.7701	2.1	128.864
Se 196.026	200.480	ppb	9.8865	4.9	58.9357
Sn 189.925	191.271	ppb	6.0447	3.2	121.530
Sr 216.596	207.727	ppb	1.7355	0.8	1292.29
Ti 334.941	196.582	ppb	1.6195	0.8	45023.7
Tl 190.794	33.7433	ppb	6.4700	19.2	15.2222
V 292.401	202.219	ppb	1.3934	0.7	6085.55
Zn 206.200	190.398	ppb	1.6149	0.8	608.311

680-88701-b-1-c (Samp) 4/10/2013, 7:38:12 PM Rack 2, Tube 6

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1835	ppb	0.2525	137.6	-26.1523
Al 308.215	13.1412	ppb	4.7628	36.2	80.0630

F04102013.wvq. All Data Report 4/11/2013, 9:46:33 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	-1.1234	ppb	1.4151	126.0	-3.7751
B 249.678	66.8594	ppb	0.7964	1.2	670.687
Ba 389.178	299.709	ppb	1.7694	0.6	5190.24
Be 313.042	-0.0348	ppb	0.0045	12.9	-38.9482
Ca 370.602	277438	ppb	2332	0.8	1127973
Cd 226.502	0.1989	ppb	0.2055	103.3	18.5757
Co 228.615	7.3938	ppb	0.8182	11.1	52.5703
Cr 267.716	-0.4906	ppb	0.2849	58.1	1.1720
Cu 324.754	2.6362	ppb	0.5330	20.2	-602.645
Fe 271.441	11.3414	ppb	3.3525	29.6	4.7257
K 766.491	2982.24	ppb	18.6693	0.6	406645
Mg 279.078	35173.8	ppb	243.677	0.7	42484.4
Mn 257.610	1836.26	ppb	11.0099	0.6	187053
Mo 202.032	3.4668	ppb	1.0306	29.7	14.3137
Na 330.237	28558.4	ppb	220.584	0.8	2035.74
Ni 231.604	17.8317	ppb	0.2372	1.3	57.4754
Pb 220.353	-2.6490	ppb	7.8033	294.6	-1.0838
Sb 206.834	-1.4601	ppb	0.5010	34.3	6.0733
Se 196.026	-3.4214	ppb	12.0761	353.0	4.5439
Sn 189.925	2.9230	ppb	0.9559	32.7	-0.1966
Sr 216.596	678.566	ppb	2.3402	0.3	4251.14
Ti 334.941	-1.3291	ppb	0.0559	4.2	121.675
Tl 190.794	-3.5005	ppb	6.4619	184.6	-4.8768
V 292.401	0.5725	ppb	0.2601	45.4	22.3228
Zn 206.200	10.1099	ppb	0.2298	2.3	34.8169

680-88701-b-2-c (Samp)

4/10/2013, 7:43:38 PM

Rack 2, Tube 7

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1854	ppb	0.1867	100.7	-26.2269
Al 308.215	16.3859	ppb	1.7246	10.5	89.5854
As 188.980	2.1865	ppb	7.8509	359.1	-2.6887
B 249.678	69.9066	ppb	0.6308	0.9	694.291
Ba 389.178	307.892	ppb	1.9247	0.6	5335.29
Be 313.042	-0.0295	ppb	0.0034	11.6	-27.5330
Ca 370.602	286902	ppb	416.9	0.1	1166064
Cd 226.502	0.4011	ppb	0.0794	19.8	27.5526
Co 228.615	8.5517	ppb	0.2543	3.0	62.4650
Cr 267.716	0.0290	ppb	0.7260	2501.4	9.0744
Cu 324.754	3.5326	ppb	0.3279	9.3	-594.471
Fe 271.441	2017.57	ppb	9.7469	0.5	1611.75
K 766.491	3125.56	ppb	2.7311	0.1	426088
Mg 279.078	36416.2	ppb	12.0844	0.0	43976.4
Mn 257.610	1921.84	ppb	0.5291	0.0	195769
Mo 202.032	2.7004	ppb	0.8070	29.9	11.2715
Na 330.237	29731.7	ppb	117.162	0.4	2118.17
Ni 231.604	17.9138	ppb	1.4950	8.3	57.9021
Pb 220.353	-0.5566	ppb	4.9842	895.5	0.5422
Sb 206.834	-3.1936	ppb	3.1532	98.7	5.0562
Se 196.026	-7.6404	ppb	11.8956	155.7	3.4177
Sn 189.925	-1.0582	ppb	4.3975	415.5	-2.7836
Sr 216.596	700.724	ppb	1.3159	0.2	4391.20
Ti 334.941	-1.3545	ppb	0.0491	3.6	126.911

F04102013.wvq. All Data Report 4/11/2013, 9:46:33 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Tl 190.794	-0.9060	ppb	2.1374	235.9	-3.8113
V 292.401	0.4095	ppb	0.2676	65.3	17.8506
Zn 206.200	11.5182	ppb	0.7103	6.2	39.3962

**680-88701-b-3-c (Samp)**      **4/10/2013, 7:49:05 PM**      **Rack 2, Tube 8**  
**Weight: 1**      **Volume: 1**      **Dilution: 1**

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.5498	ppb	0.5031	91.5	-44.3006
Al 308.215	3236.50	ppb	18.5986	0.6	9800.23
As 188.980	7.7050	ppb	4.9075	63.7	-4.6946
B 249.678	114.340	ppb	1.2743	1.1	1114.19
Ba 389.178	7.3508	ppb	0.5230	7.1	167.364
Be 313.042	0.5351	ppb	0.0062	1.2	993.121
Ca 370.602	574605	ppb	1734	0.3	2335675
Cd 226.502	4.5528	ppb	0.4335	9.5	123.591
Co 228.615	166.077	ppb	1.7623	1.1	1400.90
Cr 267.716	2.7882	ppb	0.3855	13.8	54.9815
Cu 324.754	200.378	ppb	1.0912	0.5	6181.63
Fe 271.441	2315.17	ppb	18.5444	0.8	1857.90
K 766.491	7872.78	ppb	43.4851	0.6	1070294
Mg 279.078	28060.2	ppb	185.975	0.7	33891.4
Mn 257.610	627.900	ppb	2.9900	0.5	64045.3
Mo 202.032	1.5687	ppb	0.7836	50.0	7.1821
Na 330.237	82592.2	ppb	437.315	0.5	5878.32
Ni 231.604	278.983	ppb	0.6240	0.2	853.253
Pb 220.353	-2.7329	ppb	3.8152	139.6	-1.4711
Sb 206.834	-7.8230	ppb	1.1918	15.2	4.7373
Se 196.026	-3.7976	ppb	8.5900	226.2	5.0520
Sn 189.925	3.6725	ppb	2.4307	66.2	-0.8642
Sr 216.596	121.398	ppb	0.9905	0.8	768.923
Ti 334.941	-2.1367	ppb	0.0176	0.8	279.009
Tl 190.794	0.3015	ppb	4.3016	1426.6	-5.8521
V 292.401	0.8027	ppb	0.2721	33.9	32.2540
Zn 206.200	172.608	ppb	1.2473	0.7	552.270

**680-88701-b-4-c (Samp)**      **4/10/2013, 7:54:32 PM**      **Rack 2, Tube 9**  
**Weight: 1**      **Volume: 1**      **Dilution: 1**

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.6604b	ppb	0.3843	58.2	-40.9190
Al 308.215	28.0258b	ppb	5.2792	18.8	124.931
As 188.980	7.5558b	ppb	3.3476	44.3	-1.9102
B 249.678	543.960b	ppb	1.5775	0.3	5149.44
Ba 389.178	133.222b	ppb	1.5148	1.1	2340.62
Be 313.042	0.0635b	ppb	0.0072	11.3	129.229
Ca 370.602	373015b	ppb	867.0	0.2	1516550
Cd 226.502	1.8455b	ppb	0.2056	11.1	55.9084
Co 228.615	12.7566b	ppb	0.0603	0.5	98.1273
Cr 267.716	0.4167b	ppb	0.1424	34.2	18.2454
Cu 324.754	11.5498b	ppb	0.5905	5.1	-535.710
Fe 271.441	90.3892b	ppb	6.5411	7.2	68.2945
K 766.491	85799.9xb	ppb	202.937	0.2	11643677

F04102013.wvq. All Data Report 4/11/2013, 9:46:33 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Mg 279.078	37465.3b	ppb	125.194	0.3	45249.8
Mn 257.610	2010.27b	ppb	5.7490	0.3	204771
Mo 202.032	1.4150b	ppb	0.6004	42.4	6.8851
Na 330.237	247137xb	ppb	1537.46	0.6	17583.8
Ni 231.604	61.6104b	ppb	2.2154	3.6	191.010
Pb 220.353	1.5554b	ppb	2.3346	150.1	2.1963
Sb 206.834	-4.6229b	ppb	5.8876	127.4	4.8767
Se 196.026	-14.2168b	ppb	11.5933	81.5	1.9416
Sn 189.925	1.0485b	ppb	2.6821	255.8	-1.7158
Sr 216.596	1144.80b	ppb	4.3380	0.4	7171.32
Ti 334.941	-1.0384b	ppb	0.0647	6.2	286.371
Tl 190.794	-5.9595b	ppb	2.7146	45.6	-7.0164
V 292.401	1.2546b	ppb	0.0584	4.7	41.3478
Zn 206.200	237.678b	ppb	2.1082	0.9	759.839

680-88707-d-1-c (Samp)

4/10/2013, 7:59:59 PM

Rack 2, Tube 10

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1199	ppb	0.5875	490.2	-32.2458
Al 308.215	11.2115	ppb	2.5852	23.1	74.5605
As 188.980	-0.4889	ppb	6.6564	1361.5	-1.5358
B 249.678	101.256	ppb	0.3977	0.4	993.492
Ba 389.178	53.3993	ppb	0.3405	0.6	933.212
Be 313.042	-0.0043	ppb	0.0076	179.7	-26.0412
Ca 370.602	133187	ppb	95.36	0.1	541444
Cd 226.502	0.0767	ppb	0.2619	341.3	15.5952
Co 228.615	1.2140	ppb	0.3193	26.3	-0.1543
Cr 267.716	0.2605	ppb	0.4070	156.2	11.5890
Cu 324.754	8.2214	ppb	0.2319	2.8	31.7380
Fe 271.441	-25.6369	ppb	5.3352	20.8	-25.1772
K 766.491	5643.51	ppb	4.5596	0.1	767806
Mg 279.078	17093.1	ppb	14.0483	0.1	20663.1
Mn 257.610	-0.3663	ppb	0.0919	25.1	63.2028
Mo 202.032	7.7706	ppb	0.2174	2.8	29.8678
Na 330.237	14745.3	ppb	89.4378	0.6	1053.20
Ni 231.604	3.0063	ppb	0.3186	10.6	11.5766
Pb 220.353	0.1276	ppb	1.5386	1206.2	1.0787
Sb 206.834	4.2828	ppb	4.7679	111.3	8.5588
Se 196.026	5.5515	ppb	5.7828	104.2	6.0931
Sn 189.925	-0.9121	ppb	4.9402	541.6	-2.0930
Sr 216.596	437.357	ppb	1.3629	0.3	2735.79
Ti 334.941	-0.8023	ppb	0.0530	6.6	74.5604
Tl 190.794	-3.7364	ppb	5.1464	137.7	-3.5692
V 292.401	4.9432	ppb	0.1062	2.1	157.856
Zn 206.200	2.2198	ppb	0.2710	12.2	9.0509

680-88707-d-2-e (Samp)

4/10/2013, 8:05:27 PM

Rack 2, Tube 11

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.2472	ppb	0.7225	292.3	-36.5057
Al 308.215	2484.08	ppb	147.718	5.9	7532.55

F04102013.wvq. All Data Report 4/11/2013, 9:46:33 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	3.9714	ppb	2.6916	67.8	1.4931
B 249.678	17.7050	ppb	0.4718	2.7	206.919
Ba 389.178	57.0110	ppb	2.5861	4.5	967.680
Be 313.042	0.0754	ppb	0.0194	25.7	89.9884
Ca 370.602	33301	ppb	1528	4.6	135176
Cd 226.502	-0.0966	ppb	0.1676	173.5	13.6288
Co 228.615	1.3419	ppb	0.5137	38.3	3.2123
Cr 267.716	2.7368	ppb	0.0745	2.7	53.8125
Cu 324.754	3.8740	ppb	0.5118	13.2	152.265
Fe 271.441	902.700	ppb	36.0944	4.0	718.645
K 766.491	841.100	ppb	30.1879	3.6	116198
Mg 279.078	2153.74	ppb	92.4988	4.3	2626.60
Mn 257.610	87.7741	ppb	3.9620	4.5	8997.34
Mo 202.032	-0.0540	ppb	0.7129	1320.7	1.4524
Na 330.237	24945.4	ppb	1012.65	4.1	1777.14
Ni 231.604	3.4683	ppb	0.6892	19.9	12.4585
Pb 220.353	3.1095	ppb	1.5237	49.0	3.1820
Sb 206.834	-1.4230	ppb	1.0031	70.5	3.5469
Se 196.026	3.2229	ppb	11.2304	348.5	5.0766
Sn 189.925	0.0079	ppb	4.8372	61394.3	-1.0731
Sr 216.596	182.894	ppb	8.8713	4.9	1139.62
Ti 334.941	144.435	ppb	8.8668	6.1	33117.9
Tl 190.794	-1.1671	ppb	1.6793	143.9	-1.2729
V 292.401	24.1267	ppb	1.0385	4.3	742.793
Zn 206.200	1.6290	ppb	0.4365	26.8	6.6609

680-88707-d-2-eSD^5 (Samp) 4/10/2013, 8:10:55 PM Rack 2, Tube 12

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.3890	ppb	0.3690	94.9	-40.8474
Al 308.215	505.491	ppb	23.7097	4.7	1564.93
As 188.980	-7.7266	ppb	1.4465	18.7	-2.4496
B 249.678	3.1828	ppb	0.5696	17.9	72.3381
Ba 389.178	11.8577	ppb	0.3644	3.1	189.406
Be 313.042	0.0014	ppb	0.0048	338.9	-51.7947
Ca 370.602	6696	ppb	344.8	5.1	27130
Cd 226.502	0.1273	ppb	0.0346	27.2	17.1601
Co 228.615	0.2248	ppb	0.3258	144.9	-8.0486
Cr 267.716	0.7505	ppb	0.0639	8.5	19.8817
Cu 324.754	0.8408	ppb	0.1499	17.8	113.123
Fe 271.441	187.549	ppb	9.7289	5.2	145.531
K 766.491	166.417	ppb	7.2832	4.4	24667.1
Mg 279.078	438.050	ppb	29.4025	6.7	558.406
Mn 257.610	17.5175	ppb	0.8869	5.1	1839.48
Mo 202.032	-0.2022	ppb	0.7762	383.9	1.0245
Na 330.237	4882.11	ppb	239.518	4.9	351.288
Ni 231.604	0.5280	ppb	0.7673	145.3	3.3837
Pb 220.353	4.5815	ppb	2.9113	63.5	4.5171
Sb 206.834	0.2789	ppb	2.3138	829.6	4.6096
Se 196.026	-0.1468	ppb	3.5515	2418.9	4.0587
Sn 189.925	-0.4631	ppb	5.1176	1105.0	-1.3059
Sr 216.596	37.0710	ppb	2.4192	6.5	225.652
Ti 334.941	28.3099	ppb	1.1527	4.1	6574.44

F04102013.wvq. All Data Report 4/11/2013, 9:46:33 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Tl 190.794	-3.3192	ppb	2.4860	74.9	-2.1032
V 292.401	4.6994	ppb	0.2769	5.9	152.256
Zn 206.200	0.6255	ppb	0.4088	65.4	3.3952

Cont Calib Verif (CCV) 4/10/2013, 8:16:22 PM Rack 2, Tube 13  
 Weight: 1 Volume: 1 Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	499.698	ppb	2.5583	0.5	16156.1	99.93961
Al 308.215	5110.49	ppb	26.3728	0.5	15727.1	102.20981
As 188.980	490.436	ppb	14.9913	3.1	182.077	98.08726
B 249.678	509.443	ppb	2.5159	0.5	4819.34	20.37771Q
Ba 389.178	5132.75	ppb	25.9600	0.5	88022.4	102.65500
Be 313.042	518.636	ppb	2.0021	0.4	865864	103.72713
Ca 370.602	5036	ppb	20.58	0.4	19725	100.72671
Cd 226.502	509.796	ppb	2.3943	0.5	11740.7	101.95923
Co 228.615	510.147	ppb	1.7742	0.3	4327.81	102.02933
Cr 267.716	5156.88	ppb	29.7585	0.6	88708.9	103.13769
Cu 324.754	5155.29	ppb	33.2603	0.6	199375	103.10571
Fe 271.441	4986.02	ppb	29.5270	0.6	4055.20	99.72043
K 766.491	10149.8	ppb	34.8023	0.3	1377786	101.49809
Mg 279.078	5023.27	ppb	32.0094	0.6	6065.43	100.46537
Mn 257.610	5315.43	ppb	27.2242	0.5	541112	106.30859
Mo 202.032	498.554	ppb	2.4826	0.5	1793.67	99.71086
Na 330.237	7502.89	ppb	55.6491	0.7	536.115	100.03858
Ni 231.604	2603.59	ppb	7.8712	0.3	7940.90	104.14365
Pb 220.353	502.065	ppb	4.3774	0.9	387.396	100.41292
Sb 206.834	917.984	ppb	7.7051	0.8	660.221	36.71936Q
Se 196.026	4974.15	ppb	31.7272	0.6	1359.24	99.48305
Sn 189.925	4904.08	ppb	42.4734	0.9	3140.99	98.08168
Sr 216.596	2521.26	ppb	12.4783	0.5	15660.2	100.85045
Ti 334.941	500.585	ppb	2.7396	0.5	114745	100.11696
Tl 190.794	4969.39	ppb	44.0900	0.9	2428.53	99.38777
V 292.401	5000.95	ppb	24.3393	0.5	151323	100.01893
Zn 206.200	2579.57	ppb	13.2502	0.5	8198.62	103.18292

Cont Calib Blank (CCB) 4/10/2013, 8:21:48 PM Rack 2, Tube 14  
 Weight: 1 Volume: 1 Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	-0.2431	ppb	0.1848	76.0	-36.0606	-0.24314
Al 308.215	-1.4451	ppb	3.4390	238.0	36.0107	-1.44512
As 188.980	-4.0383	ppb	7.3218	181.3	-0.9967	-4.03827
B 249.678	1.2584	ppb	0.7796	62.0	54.7389	1.25840
Ba 389.178	0.0606	ppb	0.6421	1059.2	-13.9079	0.06062
Be 313.042	0.0419	ppb	0.0262	62.5	11.4576	0.04192
Ca 370.602	-3.253	ppb	1.972	60.6	-73.32	-3.25342
Cd 226.502	-0.1342	ppb	0.1967	146.6	10.7312	-0.13420
Co 228.615	0.2251	ppb	0.0698	31.0	-8.4821	0.22506
Cr 267.716	0.7293	ppb	0.1155	15.8	19.5778	0.72928
Cu 324.754	0.6577	ppb	0.1353	20.6	125.697	0.65767
Fe 271.441	1.4193	ppb	8.4473	595.2	-3.6004	1.41935
K 766.491	1.7301	ppb	0.3679	21.3	2325.22	1.73014

F04102013.wvq. All Data Report 4/11/2013, 9:46:33 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Mg 279.078	-6.1690	ppb	2.5887	42.0	22.9194	-6.16901
Mn 257.610	0.2723	ppb	0.2711	99.6	82.4321	0.27225
Mo 202.032	0.3426	ppb	1.0345	301.9	3.0202	0.34264
Na 330.237	-88.4046	ppb	35.1906	39.8	-1.9490	-88.40463
Ni 231.604	-0.1979	ppb	0.5522	279.1	1.1433	-0.19786
Pb 220.353	1.9928	ppb	4.6204	231.9	2.5443	1.99279
Sb 206.834	0.8089	ppb	2.5829	319.3	4.9537	0.80887
Se 196.026	-3.4099	ppb	3.7879	111.1	3.1452	-3.40986
Sn 189.925	-0.6071	ppb	0.3987	65.7	-1.3806	-0.60709
Sr 216.596	0.1107	ppb	0.4118	372.1	-6.0028	0.11068
Ti 334.941	-0.5639	ppb	0.0343	6.1	-25.4846	-0.56386
Tl 190.794	-0.3682	ppb	5.4961	1492.6	-0.6065	-0.36822
V 292.401	0.6373	ppb	0.2171	34.1	28.7474	0.63734
Zn 206.200	0.7332	ppb	1.2184	166.2	3.7179	0.73319

680-88707-d-2-ePDS (Samp)

4/10/2013, 8:27:15 PM

Rack 2, Tube 15

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	49.9102	ppb	0.3211	0.6	1587.32
Al 308.215	4556.37	ppb	17.5725	0.4	13820.2
As 188.980	2084.16	ppb	13.4019	0.6	768.335
B 249.678	1004.59	ppb	4.6778	0.5	9475.34
Ba 389.178	2142.26	ppb	9.2619	0.4	36731.4
Be 313.042	53.3865	ppb	0.1949	0.4	89045.2
Ca 370.602	37261	ppb	114.0	0.3	151219
Cd 226.502	51.6678	ppb	0.3084	0.6	1205.60
Co 228.615	523.529	ppb	2.4400	0.5	4447.52
Cr 267.716	211.211	ppb	0.9301	0.4	3638.48
Cu 324.754	268.724	ppb	1.3997	0.5	10374.9
Fe 271.441	1889.02	ppb	7.4295	0.4	1539.75
K 766.491	6340.72	ppb	20.1480	0.3	861810
Mg 279.078	7234.98	ppb	21.6193	0.3	8755.25
Mn 257.610	626.578	ppb	1.9860	0.3	63865.6
Mo 202.032	523.070	ppb	2.3379	0.4	1891.41
Na 330.237	29576.7	ppb	136.407	0.5	2099.10
Ni 231.604	524.570	ppb	4.1747	0.8	1601.85
Pb 220.353	502.952	ppb	0.8536	0.2	392.117
Sb 206.834	477.698	ppb	7.1441	1.5	324.052
Se 196.026	2013.72	ppb	11.8243	0.6	552.555
Sn 189.925	999.870	ppb	3.9039	0.4	639.748
Sr 216.596	693.812	ppb	3.3848	0.5	4307.93
Ti 334.941	1152.46	ppb	4.3847	0.4	263289
Tl 190.794	2031.91	ppb	9.0408	0.4	991.520
V 292.401	531.286	ppb	1.5664	0.3	16000.4
Zn 206.200	514.098	ppb	1.4674	0.3	1638.56

680-88707-c-2-c ms (Samp)

4/10/2013, 8:32:41 PM

Rack 2, Tube 16

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	36.8145	ppb	0.7656	2.1	1165.15
Al 308.215	6596.80	ppb	39.9265	0.6	19942.2

F04102013.wvq. All Data Report 4/11/2013, 9:46:33 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	96.7821	ppb	4.1250	4.3	35.6711
B 249.678	215.705	ppb	1.9550	0.9	2053.88
Ba 389.178	156.720	ppb	1.2939	0.8	2693.16
Be 313.042	54.2980	ppb	0.3359	0.6	90343.3
Ca 370.602	37199	ppb	248.7	0.7	150114
Cd 226.502	52.6086	ppb	0.4520	0.9	1235.40
Co 228.615	53.2612	ppb	0.7050	1.3	443.025
Cr 267.716	106.033	ppb	0.6526	0.6	1828.47
Cu 324.754	107.109	ppb	2.2266	2.1	4135.54
Fe 271.441	5662.92	ppb	26.5536	0.5	4535.13
K 766.491	6229.08	ppb	33.2357	0.5	847229
Mg 279.078	7070.04	ppb	49.5068	0.7	8542.33
Mn 257.610	628.172	ppb	3.6428	0.6	64020.8
Mo 202.032	103.721	ppb	1.3079	1.3	375.806
Na 330.237	29469.8	ppb	293.649	1.0	2096.53
Ni 231.604	107.279	ppb	1.9187	1.8	329.352
Pb 220.353	52.5129	ppb	5.1611	9.8	41.1098
Sb 206.834	37.5238	ppb	5.4076	14.4	30.5599
Se 196.026	105.367	ppb	10.2966	9.8	32.9703
Sn 189.925	198.803	ppb	5.7105	2.9	126.280
Sr 216.596	278.017	ppb	2.3090	0.8	1731.48
Ti 334.941	167.603	ppb	0.2190	0.1	38419.2
Tl 190.794	37.0898	ppb	5.6834	15.3	17.1504
V 292.401	124.984	ppb	0.6722	0.5	3771.26
Zn 206.200	104.688	ppb	1.5700	1.5	334.846

680-88707-d-2-f msd (Samp)

4/10/2013, 8:38:08 PM

Rack 2, Tube 17

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	21.8430	ppb	0.0823	0.4	679.953
Al 308.215	7605.87	ppb	35.0349	0.5	22985.1
As 188.980	99.2526	ppb	3.9119	3.9	36.5765
B 249.678	212.184	ppb	1.2664	0.6	2020.10
Ba 389.178	158.437	ppb	0.1534	0.1	2723.05
Be 313.042	53.9542	ppb	0.1692	0.3	89772.0
Ca 370.602	37561	ppb	94.92	0.3	151533
Cd 226.502	52.1831	ppb	0.3391	0.6	1226.32
Co 228.615	52.6840	ppb	0.1063	0.2	438.988
Cr 267.716	107.161	ppb	0.7045	0.7	1847.75
Cu 324.754	111.416	ppb	0.4345	0.4	4300.77
Fe 271.441	5952.36	ppb	14.9599	0.3	4766.96
K 766.491	6225.37	ppb	15.5508	0.2	846725
Mg 279.078	7129.81	ppb	13.5315	0.2	8613.39
Mn 257.610	625.426	ppb	1.8624	0.3	63742.4
Mo 202.032	102.396	ppb	0.6672	0.7	370.986
Na 330.237	29569.3	ppb	59.3646	0.2	2103.01
Ni 231.604	106.568	ppb	0.9192	0.9	327.205
Pb 220.353	53.1766	ppb	2.9352	5.5	41.5365
Sb 206.834	49.8613	ppb	2.5110	5.0	38.8336
Se 196.026	96.3056	ppb	8.5544	8.9	30.5032
Sn 189.925	196.534	ppb	2.5939	1.3	124.840
Sr 216.596	278.916	ppb	1.4678	0.5	1737.34
Ti 334.941	223.838	ppb	0.8445	0.4	51259.1



F04102013.wvq. All Data Report 4/11/2013, 9:46:33 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Tl 190.794	36.0751	ppb	7.8843	21.9	16.6654
V 292.401	125.629	ppb	0.8303	0.7	3791.76
Zn 206.200	104.092	ppb	0.5124	0.5	332.953

**680-88707-d-3-c (Samp)**      **4/10/2013, 8:43:34 PM**      **Rack 2, Tube 18**  
**Weight: 1**      **Volume: 1**      **Dilution: 1**

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0757	ppb	0.6336	837.3	-25.3774
Al 308.215	47.2858	ppb	3.3609	7.1	183.030
As 188.980	-1.0658	ppb	4.9260	462.2	0.0096
B 249.678	31.9695	ppb	1.1793	3.7	341.557
Ba 389.178	55.1943	ppb	3.2931	6.0	947.149
Be 313.042	0.7456	ppb	0.0572	7.7	1182.30
Ca 370.602	5771	ppb	333.0	5.8	23226
Cd 226.502	1.1331	ppb	0.3292	29.1	41.8300
Co 228.615	38.7171	ppb	2.5217	6.5	318.658
Cr 267.716	0.4931	ppb	0.2114	42.9	15.3081
Cu 324.754	2.7401	ppb	0.2639	9.6	190.722
Fe 271.441	937.997	ppb	54.1868	5.8	748.534
K 766.491	5076.26	ppb	219.489	4.3	690839
Mg 279.078	7724.93	ppb	419.287	5.4	9351.23
Mn 257.610	128.763	ppb	7.7400	6.0	13182.3
Mo 202.032	-0.5909	ppb	0.2340	39.6	-0.4877
Na 330.237	33326.1	ppb	1684.09	5.1	2374.46
Ni 231.604	44.3292	ppb	1.9868	4.5	137.204
Pb 220.353	-1.8483	ppb	2.9130	157.6	-0.4647
Sb 206.834	0.1428	ppb	4.2285	2960.4	4.5834
Se 196.026	-3.7873	ppb	11.4958	303.5	3.1165
Sn 189.925	-0.4802	ppb	0.8842	184.1	-1.3133
Sr 216.596	90.0707	ppb	5.1509	5.7	555.946
Ti 334.941	-0.6744	ppb	0.0318	4.7	-45.6608
Tl 190.794	-1.6590	ppb	3.0485	183.8	-1.2732
V 292.401	4.1201	ppb	0.3132	7.6	134.296
Zn 206.200	49.9947	ppb	2.6090	5.2	160.941

**680-88758-d-1-c (Samp)**      **4/10/2013, 8:49:00 PM**      **Rack 2, Tube 19**  
**Weight: 1**      **Volume: 1**      **Dilution: 1**

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.8676	ppb	0.2797	32.2	-56.2692
Al 308.215	162.595	ppb	2.0111	1.2	530.642
As 188.980	-4.0299	ppb	1.5938	39.5	-1.0232
B 249.678	25.0898	ppb	1.4060	5.6	279.221
Ba 389.178	215.641	ppb	1.6416	0.8	3691.67
Be 313.042	0.5024	ppb	0.0078	1.6	773.593
Ca 370.602	1828	ppb	30.81	1.7	7370
Cd 226.502	0.7448	ppb	0.1867	25.1	30.8849
Co 228.615	35.0016	ppb	0.4405	1.3	287.174
Cr 267.716	1.4629	ppb	0.2063	14.1	32.4433
Cu 324.754	3.6239	ppb	0.1233	3.4	235.650
Fe 271.441	9.8689	ppb	8.9468	90.7	4.8860
K 766.491	3359.87	ppb	34.8454	1.0	457908

F04102013.wvq. All Data Report 4/11/2013, 9:46:33 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Mg 279.078	5116.20	ppb	70.4924	1.4	6205.93
Mn 257.610	14.0924	ppb	0.1939	1.4	1502.56
Mo 202.032	-0.5448	ppb	1.0417	191.2	-0.1859
Na 330.237	38398.3	ppb	581.275	1.5	2735.69
Ni 231.604	22.3879	ppb	0.4211	1.9	70.1677
Pb 220.353	3.0326	ppb	8.6777	286.1	3.3371
Sb 206.834	-4.2975	ppb	1.6907	39.3	1.5343
Se 196.026	-4.8907	ppb	3.5559	72.7	2.7812
Sn 189.925	0.9027	ppb	4.9619	549.7	-0.4108
Sr 216.596	50.6168	ppb	0.7271	1.4	309.284
Ti 334.941	-0.7193	ppb	0.0545	7.6	-60.8625
Tl 190.794	1.3869	ppb	0.6617	47.7	0.2894
V 292.401	-0.0222	ppb	0.0679	305.8	8.6172
Zn 206.200	29.8917	ppb	0.8106	2.7	96.7817

680-88758-d-2-c (Samp)

4/10/2013, 8:54:27 PM

Rack 2, Tube 20

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.2892b	ppb	0.6262	216.5	-37.6856
Al 308.215	844.399b	ppb	2.7614	0.3	2586.74
As 188.980	-6.5549b	ppb	8.9642	136.8	-2.0780
B 249.678	17.2404b	ppb	0.6574	3.8	205.997
Ba 389.178	1366.69b	ppb	2.8750	0.2	23472.5
Be 313.042	3.0861b	ppb	0.0216	0.7	5064.07
Ca 370.602	10395b	ppb	24.71	0.2	42202
Cd 226.502	2.1361b	ppb	0.1601	7.5	62.7941
Co 228.615	55.6018b	ppb	0.2313	0.4	462.902
Cr 267.716	1.0332b	ppb	0.2295	22.2	25.5980
Cu 324.754	14.5422b	ppb	0.2958	2.0	635.079
Fe 271.441	9.5563b	ppb	3.7150	38.9	5.6453
K 766.491	7434.77b	ppb	5.0022	0.1	1010475
Mg 279.078	30275.5b	ppb	63.3721	0.2	36575.1
Mn 257.610	17.9530b	ppb	0.0771	0.4	1961.44
Mo 202.032	0.1471b	ppb	0.2256	153.4	2.3244
Na 330.237	130915xb	ppb	952.865	0.7	9316.62
Ni 231.604	49.7044b	ppb	1.4068	2.8	154.401
Pb 220.353	17.2906b	ppb	4.5657	26.4	14.3982
Sb 206.834	-1.1852b	ppb	2.3423	197.6	3.7253
Se 196.026	-0.0957b	ppb	5.2637	5500.2	4.2653
Sn 189.925	-0.2269b	ppb	3.5018	1543.0	-1.1446
Sr 216.596	307.015b	ppb	0.7329	0.2	1913.04
Ti 334.941	-0.7051b	ppb	0.0234	3.3	-52.1957
Tl 190.794	-8.0218b	ppb	3.1126	38.8	-4.3556
V 292.401	0.1819b	ppb	0.3003	165.1	14.2429
Zn 206.200	87.0267b	ppb	0.3148	0.4	279.669

680-88758-d-3-g (Samp)

4/10/2013, 8:59:54 PM

Rack 2, Tube 21

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0276	ppb	0.1212	439.7	-29.1910
Al 308.215	811.866	ppb	6.0355	0.7	2488.64

F04102013.wvq. All Data Report 4/11/2013, 9:46:33 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	-6.0518	ppb	2.4489	40.5	-2.1570
B 249.678	35.2309	ppb	0.1290	0.4	373.329
Ba 389.178	39.1800	ppb	0.7553	1.9	661.252
Be 313.042	0.1253	ppb	0.0031	2.5	157.158
Ca 370.602	30078	ppb	119.1	0.4	122206
Cd 226.502	0.0383	ppb	0.1195	312.0	14.9861
Co 228.615	0.7891	ppb	0.2548	32.3	-3.3085
Cr 267.716	0.3969	ppb	0.1237	31.2	13.9413
Cu 324.754	3.6661	ppb	0.2825	7.7	154.542
Fe 271.441	138.702	ppb	16.1694	11.7	106.395
K 766.491	1050.20	ppb	3.3343	0.3	144574
Mg 279.078	2276.07	ppb	7.3644	0.3	2777.24
Mn 257.610	7.1982	ppb	0.0519	0.7	793.950
Mo 202.032	0.3804	ppb	0.7569	199.0	3.1488
Na 330.237	22530.4	ppb	44.5986	0.2	1606.70
Ni 231.604	1.3822	ppb	0.6338	45.9	6.0567
Pb 220.353	-0.7950	ppb	3.8894	489.3	0.2947
Sb 206.834	-0.6682	ppb	2.7814	416.3	4.2133
Se 196.026	-1.0796	ppb	3.1899	295.5	3.8868
Sn 189.925	1.0649	ppb	1.4686	137.9	-0.4153
Sr 216.596	186.541	ppb	0.4970	0.3	1161.98
Ti 334.941	22.5008	ppb	0.1284	0.6	5274.29
Tl 190.794	-1.6552	ppb	3.3470	202.2	-1.5307
V 292.401	0.9004	ppb	0.0716	7.9	36.9946
Zn 206.200	2.5704	ppb	0.4420	17.2	9.6546

680-88758-d-3-h ms (Samp)

4/10/2013, 9:05:22 PM

Rack 2, Tube 22

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	19.3900	ppb	0.9042	4.7	600.667
Al 308.215	6172.23	ppb	82.4033	1.3	18660.8
As 188.980	96.8202	ppb	6.4066	6.6	35.7345
B 249.678	230.037	ppb	1.7305	0.8	2189.66
Ba 389.178	142.887	ppb	1.2384	0.9	2455.67
Be 313.042	54.7580	ppb	0.6198	1.1	91094.7
Ca 370.602	33677	ppb	387.9	1.2	135881
Cd 226.502	52.4899	ppb	0.4824	0.9	1231.59
Co 228.615	53.2027	ppb	0.9246	1.7	441.889
Cr 267.716	106.331	ppb	1.6416	1.5	1833.88
Cu 324.754	111.778	ppb	0.5885	0.5	4326.79
Fe 271.441	5166.16	ppb	65.6656	1.3	4137.00
K 766.491	6413.55	ppb	54.2720	0.8	872262
Mg 279.078	7235.87	ppb	85.4011	1.2	8744.46
Mn 257.610	554.676	ppb	6.3298	1.1	56539.4
Mo 202.032	103.945	ppb	1.3752	1.3	376.716
Na 330.237	24906.5	ppb	305.762	1.2	1772.53
Ni 231.604	105.773	ppb	2.0666	2.0	324.734
Pb 220.353	52.7047	ppb	1.6007	3.0	41.3017
Sb 206.834	46.9203	ppb	2.7619	5.9	36.9756
Se 196.026	95.0474	ppb	11.3317	11.9	30.1432
Sn 189.925	194.916	ppb	9.1248	4.7	123.792
Sr 216.596	277.803	ppb	4.1248	1.5	1729.81
Ti 334.941	124.680	ppb	1.6643	1.3	28615.2

F04102013.wvq. All Data Report 4/11/2013, 9:46:33 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Tl 190.794	33.9109	ppb	4.4328	13.1	15.6143
V 292.401	104.667	ppb	1.0176	1.0	3154.44
Zn 206.200	107.318	ppb	1.4147	1.3	343.213

680-88758-d-3-i msd (Samp) 4/10/2013, 9:10:50 PM Rack 2, Tube 23

Weight: 1		Volume: 1		Dilution: 1	
Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	17.9538	ppb	0.5329	3.0	554.168
Al 308.215	6328.56	ppb	292.891	4.6	19132.4
As 188.980	98.4626	ppb	9.2636	9.4	36.3113
B 249.678	237.572	ppb	8.8647	3.7	2260.07
Ba 389.178	146.574	ppb	6.7714	4.6	2519.51
Be 313.042	56.0442	ppb	2.1707	3.9	93236.2
Ca 370.602	35757	ppb	1483	4.1	144313
Cd 226.502	54.4162	ppb	2.5464	4.7	1276.16
Co 228.615	54.8443	ppb	1.8488	3.4	455.843
Cr 267.716	109.425	ppb	4.7659	4.4	1887.04
Cu 324.754	114.444	ppb	6.2450	5.5	4423.88
Fe 271.441	5301.33	ppb	228.529	4.3	4245.36
K 766.491	6560.65	ppb	209.130	3.2	892220
Mg 279.078	7451.05	ppb	336.256	4.5	9003.68
Mn 257.610	569.158	ppb	23.8528	4.2	58014.2
Mo 202.032	106.465	ppb	4.3740	4.1	385.807
Na 330.237	25710.3	ppb	871.670	3.4	1829.61
Ni 231.604	109.380	ppb	5.1359	4.7	335.746
Pb 220.353	53.2353	ppb	3.4721	6.5	41.6943
Sb 206.834	46.6960	ppb	8.5854	18.4	36.8432
Se 196.026	99.0817	ppb	9.0314	9.1	31.2504
Sn 189.925	203.809	ppb	6.7717	3.3	129.482
Sr 216.596	291.984	ppb	11.7665	4.0	1818.52
Ti 334.941	128.104	ppb	5.8725	4.6	29399.6
Tl 190.794	34.0682	ppb	3.9512	11.6	15.6660
V 292.401	107.252	ppb	4.8532	4.5	3232.10
Zn 206.200	108.316	ppb	4.3064	4.0	346.396

680-88758-d-4-c (Samp) 4/10/2013, 9:16:17 PM Rack 2, Tube 24

Weight: 1		Volume: 1		Dilution: 1	
Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.3937	ppb	0.3533	89.8	-15.3399
Al 308.215	1722.61	ppb	1.3747	0.1	5235.10
As 188.980	-5.9676	ppb	6.0325	101.1	-1.7415
B 249.678	25.2689	ppb	0.8442	3.3	280.260
Ba 389.178	103.852	ppb	0.4388	0.4	1772.46
Be 313.042	0.5267	ppb	0.0020	0.4	817.159
Ca 370.602	2334	ppb	6.188	0.3	9431
Cd 226.502	-0.0921	ppb	0.1381	149.9	11.8019
Co 228.615	5.6437	ppb	0.5447	9.7	37.6277
Cr 267.716	0.2742	ppb	0.1432	52.2	11.8525
Cu 324.754	4.0528	ppb	0.1866	4.6	250.517
Fe 271.441	1.0712	ppb	3.2804	306.2	-3.6204
K 766.491	2900.08	ppb	2.1328	0.1	395554

F04102013.wvq. All Data Report 4/11/2013, 9:46:33 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Mg 279.078	3681.99	ppb	9.5699	0.3	4474.76
Mn 257.610	25.9611	ppb	0.0957	0.4	2706.87
Mo 202.032	0.2571	ppb	0.7528	292.8	2.7353
Na 330.237	10581.2	ppb	18.5104	0.2	757.054
Ni 231.604	4.8818	ppb	0.4984	10.2	16.7666
Pb 220.353	4.3708	ppb	3.4684	79.4	4.2417
Sb 206.834	-0.2800	ppb	6.6256	2365.9	4.2401
Se 196.026	-6.0088	ppb	4.7187	78.5	2.4773
Sn 189.925	-1.1459	ppb	0.9431	82.3	-1.7322
Sr 216.596	39.9862	ppb	0.5246	1.3	243.464
Ti 334.941	-0.6748	ppb	0.0448	6.6	-48.5613
Tl 190.794	-5.6686	ppb	7.0669	124.7	-3.2242
V 292.401	0.1414	ppb	0.1156	81.7	13.6679
Zn 206.200	33.7748	ppb	1.1732	3.5	109.106

Cont Calib Verif (CCV)

4/10/2013, 9:21:45 PM

Rack 2, Tube 25

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	494.872	ppb	10.7138	2.2	15999.8	98.97433
Al 308.215	5069.62	ppb	104.173	2.1	15600.9	101.39244
As 188.980	490.292	ppb	14.6874	3.0	182.016	98.05831
B 249.678	504.702	ppb	10.2576	2.0	4774.93	20.18808Q
Ba 389.178	5076.19	ppb	100.046	2.0	87052.3	101.52372
Be 313.042	513.558	ppb	10.7498	2.1	857382	102.71152
Ca 370.602	4985	ppb	94.56	1.9	19523	99.70016
Cd 226.502	503.767	ppb	12.1683	2.4	11602.0	100.75339
Co 228.615	505.274	ppb	10.7041	2.1	4286.39	101.05473
Cr 267.716	5101.97	ppb	110.152	2.2	87764.3	102.03935
Cu 324.754	5110.16	ppb	155.472	3.0	197631	102.20320
Fe 271.441	4931.25	ppb	107.801	2.2	4010.67	98.62507
K 766.491	10083.4	ppb	156.189	1.5	1368791	100.83403
Mg 279.078	4976.30	ppb	94.8748	1.9	6009.03	99.52601
Mn 257.610	5255.24	ppb	109.942	2.1	534986	105.10483
Mo 202.032	495.396	ppb	8.2523	1.7	1782.37	99.07929
Na 330.237	7498.91	ppb	117.425	1.6	535.857	99.98545
Ni 231.604	2576.62	ppb	51.4415	2.0	7858.65	103.06481
Pb 220.353	502.918	ppb	16.8999	3.4	388.117	100.58362
Sb 206.834	907.270	ppb	22.2724	2.5	652.635	36.29081Q
Se 196.026	4916.09	ppb	86.9338	1.8	1343.42	98.32178
Sn 189.925	4842.53	ppb	122.128	2.5	3101.55	96.85052
Sr 216.596	2493.42	ppb	49.3765	2.0	15487.1	99.73689
Ti 334.941	495.202	ppb	10.1992	2.1	113513	99.04050
Tl 190.794	4918.09	ppb	83.6702	1.7	2403.46	98.36185
V 292.401	4946.51	ppb	100.424	2.0	149676	98.93020
Zn 206.200	2554.70	ppb	51.3885	2.0	8119.59	102.18799

Cont Calib Blank (CCB)

4/10/2013, 9:27:12 PM

Rack 2, Tube 26

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.2779	ppb	0.4128	148.6	-19.1819	0.27790
Al 308.215	-2.4721	ppb	3.5290	142.8	32.9026	-2.47209

F04102013.wvq. All Data Report 4/11/2013, 9:46:33 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
As 188.980	-6.1987	ppb	3.6786	59.3	-1.7931	-6.19870
B 249.678	1.5437	ppb	1.0341	67.0	57.4015	1.54369
Ba 389.178	0.9944	ppb	0.6812	68.5	2.1041	0.99438
Be 313.042	0.0339	ppb	0.0115	33.9	-2.2405	0.03391
Ca 370.602	-2.135	ppb	1.444	67.6	-69.21	-2.13498
Cd 226.502	0.2091	ppb	0.0212	10.1	18.6242	0.20907
Co 228.615	-0.1974	ppb	0.0861	43.6	-12.0837	-0.19743
Cr 267.716	0.3602	ppb	0.1856	51.5	13.2297	0.36023
Cu 324.754	0.5034	ppb	0.2749	54.6	119.742	0.50342
Fe 271.441	2.3131	ppb	3.0550	132.1	-2.8983	2.31307
K 766.491	1.7487	ppb	0.1665	9.5	2327.59	1.74872
Mg 279.078	-4.8223	ppb	7.7514	160.7	24.5376	-4.82225
Mn 257.610	0.0526	ppb	0.1355	257.7	60.0782	0.05260
Mo 202.032	0.7865	ppb	0.4512	57.4	4.6254	0.78651
Na 330.237	11.2823	ppb	28.8260	255.5	5.1415	11.28227
Ni 231.604	-0.4128	ppb	0.8656	209.7	0.4879	-0.41278
Pb 220.353	-3.1877	ppb	0.6974	21.9	-1.4988	-3.18769
Sb 206.834	-2.5129	ppb	3.3422	133.0	2.7066	-2.51289
Se 196.026	6.9271	ppb	6.1133	88.3	5.9593	6.92714
Sn 189.925	0.7992	ppb	1.6554	207.1	-0.4796	0.79923
Sr 216.596	-0.5749	ppb	1.0360	180.2	-10.2932	-0.57488
Ti 334.941	-0.6504	ppb	0.0745	11.5	-45.2774	-0.65038
Tl 190.794	-2.4923	ppb	4.9742	199.6	-1.6439	-2.49233
V 292.401	0.1833	ppb	0.0655	35.7	14.8587	0.18332
Zn 206.200	0.6947	ppb	0.4353	62.7	3.5972	0.69466

680-88758-d-5-c (Samp)

4/10/2013, 9:32:39 PM

Rack 2, Tube 27

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.3790b	ppb	0.7650	201.8	-39.9094
Al 308.215	589.186b	ppb	10.5141	1.8	1817.10
As 188.980	-10.2556b	ppb	2.2824	22.3	-3.7010
B 249.678	20.9903b	ppb	0.6805	3.2	240.187
Ba 389.178	773.875b	ppb	13.1385	1.7	13297.4
Be 313.042	3.8173b	ppb	0.0656	1.7	6272.38
Ca 370.602	29382b	ppb	508.9	1.7	119389
Cd 226.502	0.2867b	ppb	0.0972	33.9	19.9050
Co 228.615	17.2267b	ppb	0.7018	4.1	136.461
Cr 267.716	-0.0349b	ppb	0.3834	1099.4	8.2378
Cu 324.754	3.6498b	ppb	0.1824	5.0	157.922
Fe 271.441	79.8959b	ppb	9.5847	12.0	60.1166
K 766.491	9581.98b	ppb	139.410	1.5	1301985
Mg 279.078	23804.0b	ppb	407.421	1.7	28763.0
Mn 257.610	162.188b	ppb	2.8656	1.8	16625.3
Mo 202.032	-0.1339b	ppb	0.5749	429.4	1.2965
Na 330.237	277303xb	ppb	2036.19	0.7	19729.2
Ni 231.604	23.0305b	ppb	1.7880	7.8	72.8705
Pb 220.353	-0.8480b	ppb	2.2201	261.8	0.2715
Sb 206.834	-3.4316b	ppb	0.6764	19.7	2.3929
Se 196.026	0.7595b	ppb	4.7502	625.4	4.5429
Sn 189.925	1.2763b	ppb	3.2858	257.4	-0.2188
Sr 216.596	403.600b	ppb	6.2359	1.5	2519.34
Ti 334.941	-0.5866b	ppb	0.0901	15.4	11.9405

F04102013.wvq. All Data Report 4/11/2013, 9:46:33 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Tl 190.794	-8.6411b	ppb	7.1889	83.2	-4.9125
V 292.401	0.2088b	ppb	0.2578	123.4	13.5447
Zn 206.200	18.1941b	ppb	0.7143	3.9	60.1743

**680-88758-c-6-c (Samp)**      **4/10/2013, 9:38:06 PM**      **Rack 2, Tube 28**  
**Weight: 1**      **Volume: 1**      **Dilution: 1**

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.4808	ppb	1.1576	240.8	-43.5420
Al 308.215	107.492	ppb	16.8117	15.6	364.490
As 188.980	-1.4873	ppb	3.3799	227.3	-0.0739
B 249.678	14.0030	ppb	2.3114	16.5	174.390
Ba 389.178	47.6572	ppb	6.0150	12.6	806.348
Be 313.042	0.2518	ppb	0.0563	22.3	354.829
Ca 370.602	1240	ppb	161.8	13.1	4978
Cd 226.502	-0.0251	ppb	0.1218	486.0	13.1101
Co 228.615	2.2354	ppb	0.2208	9.9	8.6285
Cr 267.716	0.4994	ppb	0.3631	72.7	16.0312
Cu 324.754	2.8969	ppb	0.4007	13.8	208.876
Fe 271.441	16.3668	ppb	3.7562	22.9	8.4751
K 766.491	1562.29	ppb	175.349	11.2	214054
Mg 279.078	2238.21	ppb	294.661	13.2	2731.90
Mn 257.610	51.6989	ppb	6.7647	13.1	5322.69
Mo 202.032	-0.2935	ppb	0.3406	116.0	0.7211
Na 330.237	58632.3	ppb	7162.22	12.2	4174.92
Ni 231.604	1.2768	ppb	0.6745	52.8	5.7268
Pb 220.353	1.6515	ppb	3.1300	189.5	2.2678
Sb 206.834	-1.4041	ppb	5.6560	402.8	3.4724
Se 196.026	1.3194	ppb	3.9026	295.8	4.4597
Sn 189.925	0.4930	ppb	0.4087	82.9	-0.6659
Sr 216.596	21.8086	ppb	2.8694	13.2	129.783
Ti 334.941	-0.6939	ppb	0.0691	10.0	-57.1180
Tl 190.794	0.6944	ppb	5.7235	824.2	-0.0998
V 292.401	-0.0039	ppb	0.3325	8494.1	8.7498
Zn 206.200	5.9894	ppb	1.0845	18.1	20.5414

**680-88758-d-7-c (Samp)**      **4/10/2013, 9:43:33 PM**      **Rack 2, Tube 29**  
**Weight: 1**      **Volume: 1**      **Dilution: 1**

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.3779	ppb	0.5796	153.4	-40.7828
Al 308.215	2526.79	ppb	58.1561	2.3	7660.36
As 188.980	-2.0377	ppb	5.4805	269.0	-0.3102
B 249.678	13.8627	ppb	1.1479	8.3	171.491
Ba 389.178	140.226	ppb	0.7129	0.5	2395.63
Be 313.042	0.4093	ppb	0.0055	1.4	622.229
Ca 370.602	3614	ppb	10.10	0.3	14516
Cd 226.502	1.1953	ppb	0.2308	19.3	42.7355
Co 228.615	2.0474	ppb	0.5247	25.6	8.1647
Cr 267.716	2.7037	ppb	0.1038	3.8	53.4585
Cu 324.754	3.9642	ppb	0.3435	8.7	243.027
Fe 271.441	645.142	ppb	9.0330	1.4	512.154
K 766.491	2043.54	ppb	4.7316	0.2	279324

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Mg 279.078	3057.93	ppb	5.6708	0.2	3719.10
Mn 257.610	10.9456	ppb	0.1546	1.4	1178.40
Mo 202.032	-0.0411	ppb	0.6421	1562.8	1.5729
Na 330.237	38658.4	ppb	173.268	0.4	2753.34
Ni 231.604	2.4794	ppb	0.6020	24.3	9.4654
Pb 220.353	0.0905	ppb	3.5033	3869.7	0.8237
Sb 206.834	-1.1289	ppb	1.1891	105.3	3.5961
Se 196.026	-0.7785	ppb	3.0267	388.8	3.8916
Sn 189.925	-1.9704	ppb	1.0987	55.8	-2.2397
Sr 216.596	53.2185	ppb	0.4674	0.9	326.737
Ti 334.941	71.5187	ppb	3.0973	4.3	16434.5
Tl 190.794	-0.9501	ppb	4.2162	443.8	-0.9318
V 292.401	4.1689	ppb	0.0917	2.2	136.326
Zn 206.200	46.1663	ppb	1.9705	4.3	148.566

680-88758-d-8-c (Samp) 4/10/2013, 9:49:00 PM Rack 2, Tube 30

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-3.4868b	ppb	0.5287	15.2	-141.880
Al 308.215	8201.06b	ppb	652.451	8.0	24770.9
As 188.980	11.3287b	ppb	7.5530	66.7	2.3446
B 249.678	64.6165b	ppb	5.5044	8.5	636.963
Ba 389.178	225.573b	ppb	19.5696	8.7	4203.32
Be 313.042	34.0024b	ppb	2.6237	7.7	56498.0
Ca 370.602	164132b	ppb	12029	7.3	665821
Cd 226.502	0.3758b	ppb	0.1439	38.3	38.6459
Co 228.615	265.728b	ppb	20.8389	7.8	2247.93
Cr 267.716	2.8936b	ppb	0.5253	18.2	56.1778
Cu 324.754	1.6080b	ppb	0.7912	49.2	-296.334
Fe 271.441	7384.17b	ppb	582.579	7.9	5923.16
K 766.491	9517.82b	ppb	595.103	6.3	1293429
Mg 279.078	180030b	ppb	13760.3	7.6	217311
Mn 257.610	420.891b	ppb	32.6114	7.7	43375.7
Mo 202.032	-0.8180b	ppb	0.4063	49.7	-2.0679
Na 330.237	516922xb	ppb	38080.3	7.4	36769.8
Ni 231.604	204.512b	ppb	14.4588	7.1	632.463
Pb 220.353	-0.0778b	ppb	5.2376	6735.8	0.1183
Sb 206.834	-4.6916b	ppb	0.5441	11.6	3.2511
Se 196.026	-6.5607b	ppb	12.9971	198.1	3.8522
Sn 189.925	1.2688b	ppb	4.2081	331.7	-0.6884
Sr 216.596	1969.27b	ppb	148.150	7.5	12319.4
Ti 334.941	-0.6842b	ppb	0.0213	3.1	114.865
Tl 190.794	-6.9195b	ppb	4.2705	61.7	-5.4519
V 292.401	0.7420b	ppb	0.0814	11.0	30.6076
Zn 206.200	68.3223b	ppb	5.3154	7.8	225.454

680-88808-c-1-c (Samp) 4/10/2013, 9:54:27 PM Rack 2, Tube 31

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1253	ppb	0.6387	509.8	-32.2390
Al 308.215	10.4614	ppb	2.0939	20.0	71.8842



F04102013.wvq. All Data Report 4/11/2013, 9:46:33 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	-7.8782	ppb	5.2326	66.4	-2.4151
B 249.678	9.5423	ppb	0.4497	4.7	132.505
Ba 389.178	20.3165	ppb	1.9191	9.4	333.871
Be 313.042	0.0619	ppb	0.0154	25.0	43.9303
Ca 370.602	195.3	ppb	2.042	1.0	733.9
Cd 226.502	0.0754	ppb	0.2157	286.2	15.5377
Co 228.615	-0.0931	ppb	0.3094	332.3	-11.1707
Cr 267.716	0.4313	ppb	0.1878	43.6	14.4779
Cu 324.754	2.2524	ppb	0.2342	10.4	186.820
Fe 271.441	1.0707	ppb	8.2736	772.8	-3.8853
K 766.491	1044.73	ppb	25.3646	2.4	143837
Mg 279.078	272.695	ppb	6.8004	2.5	359.527
Mn 257.610	1.6047	ppb	0.0821	5.1	218.779
Mo 202.032	-0.7547	ppb	0.9843	130.4	-0.9452
Na 330.237	3635.84	ppb	148.318	4.1	262.964
Ni 231.604	-0.2019	ppb	1.4575	721.9	1.1387
Pb 220.353	0.5119	ppb	3.4693	677.8	1.3882
Sb 206.834	-1.8134	ppb	4.2922	236.7	3.1840
Se 196.026	6.0698	ppb	12.6175	207.9	5.7285
Sn 189.925	-0.7514	ppb	4.1744	555.6	-1.4729
Sr 216.596	3.5645	ppb	0.8778	24.6	15.6220
Ti 334.941	-0.5398	ppb	0.1382	25.6	-20.0135
Tl 190.794	-8.1760	ppb	3.1365	38.4	-4.4161
V 292.401	0.1115	ppb	0.1213	108.7	12.8339
Zn 206.200	2.5970	ppb	0.5359	20.6	9.6669

680-88808-c-2-c (Samp)

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Rack 2, Tube 32

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0580b	ppb	0.3542	610.8	-34.9087
Al 308.215	187.698b	ppb	17.0978	9.1	602.269
As 188.980	-6.3604b	ppb	6.5240	102.6	-2.3421
B 249.678	17.6192b	ppb	1.0394	5.9	121.127
Ba 389.178	314.490b	ppb	26.7650	8.5	5462.36
Be 313.042	3.3651b	ppb	0.3025	9.0	5523.01
Ca 370.602	31815b	ppb	2506	7.9	122432
Cd 226.502	-0.4132b	ppb	0.2684	65.0	79.3538
Co 228.615	27.3038b	ppb	2.6146	9.6	222.428
Cr 267.716	-0.5162b	ppb	0.1797	34.8	-20.0422
Cu 324.754	1.9736b	ppb	0.1329	6.7	103.037
Fe 271.441	35108.4b	ppb	3075.17	8.8	28118.8
K 766.491	9315.48b	ppb	641.314	6.9	1265955
Mg 279.078	23051.3b	ppb	1962.30	8.5	27724.3
Mn 257.610	449.443b	ppb	37.9629	8.4	45903.7
Mo 202.032	0.2911b	ppb	0.7582	260.4	-1.9234
Na 330.237	254915xb	ppb	23241.8	9.1	18118.7
Ni 231.604	36.3661b	ppb	3.8139	10.5	115.689
Pb 220.353	-2.7432b	ppb	1.9670	71.7	-1.3032
Sb 206.834	-4.2090b	ppb	4.6776	111.1	2.8164
Se 196.026	-1.0377b	ppb	13.2084	1272.9	3.5860
Sn 189.925	1.2921b	ppb	3.1058	240.4	-0.2172
Sr 216.596	398.552b	ppb	34.0112	8.5	2504.36
Ti 334.941	-0.6862b	ppb	0.0589	8.6	-29.4024

F04102013.wvq. All Data Report 4/11/2013, 9:46:33 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Tl 190.794	-9.1622b	ppb	0.5324	5.8	-7.0391
V 292.401	0.2702b	ppb	0.0549	20.3	22.8257
Zn 206.200	16.8906b	ppb	2.1123	12.5	56.8793

**680-88808-c-3-c (Samp)****4/10/2013, 10:05:22 PM****Rack 2, Tube 33****Weight: 1****Volume: 1****Dilution: 1**

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0864b	ppb	0.1584	183.3	-27.8752
Al 308.215	187.931b	ppb	3.9306	2.1	604.410
As 188.980	-6.6524b	ppb	7.9807	120.0	-2.4370
B 249.678	16.1529b	ppb	0.6521	4.0	138.017
Ba 389.178	314.759b	ppb	0.6441	0.2	5452.47
Be 313.042	3.3520b	ppb	0.0171	0.5	5501.08
Ca 370.602	31922b	ppb	15.99	0.1	125265
Cd 226.502	-0.2032b	ppb	0.1816	89.4	57.7671
Co 228.615	27.4942b	ppb	1.3074	4.8	223.831
Cr 267.716	-0.2314b	ppb	0.4930	213.1	-8.0440
Cu 324.754	0.5366b	ppb	0.3316	61.8	41.2193
Fe 271.441	22849.0b	ppb	36.3674	0.2	18299.0
K 766.491	9384.45b	ppb	3.5270	0.0	1275314
Mg 279.078	23155.9b	ppb	27.0542	0.1	27895.9
Mn 257.610	450.753b	ppb	0.3551	0.1	46022.4
Mo 202.032	-0.3469b	ppb	0.1317	38.0	-2.5682
Na 330.237	257587xb	ppb	705.720	0.3	18315.1
Ni 231.604	36.5800b	ppb	0.3570	1.0	115.572
Pb 220.353	-0.8830b	ppb	6.7670	766.4	0.1944
Sb 206.834	-5.4205b	ppb	2.3278	42.9	1.6704
Se 196.026	2.2889b	ppb	5.0968	222.7	4.6757
Sn 189.925	2.1661b	ppb	1.6482	76.1	0.3407
Sr 216.596	398.461b	ppb	1.1749	0.3	2497.84
Ti 334.941	-0.6645b	ppb	0.0179	2.7	-24.8979
Tl 190.794	-7.7648b	ppb	8.5767	110.5	-5.7044
V 292.401	0.3492b	ppb	0.0518	14.8	22.4359
Zn 206.200	17.5827b	ppb	1.1531	6.6	58.7776

**680-88808-c-4-c (Samp)****4/10/2013, 10:10:49 PM****Rack 2, Tube 34****Weight: 1****Volume: 1****Dilution: 1**

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1257	ppb	0.4647	369.8	-32.2762
Al 308.215	5.7812	ppb	1.7686	30.6	57.7282
As 188.980	-4.4073	ppb	4.0105	91.0	-1.1444
B 249.678	9.8842	ppb	0.4912	5.0	134.896
Ba 389.178	38.4352	ppb	0.6062	1.6	646.105
Be 313.042	0.1053	ppb	0.0014	1.3	115.219
Ca 370.602	797.9	ppb	5.098	0.6	3120
Cd 226.502	0.0568	ppb	0.1516	266.7	15.7949
Co 228.615	0.3133	ppb	0.4923	157.2	-7.7100
Cr 267.716	0.0559	ppb	0.2803	501.8	7.8976
Cu 324.754	0.6451	ppb	0.0639	9.9	123.130
Fe 271.441	327.997	ppb	7.3334	2.2	258.002
K 766.491	1238.23	ppb	4.3844	0.4	170087

F04102013.wvq. All Data Report 4/11/2013, 9:46:33 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Mg 279.078	907.217	ppb	6.0186	0.7	1124.21
Mn 257.610	10.2659	ppb	0.0605	0.6	1102.42
Mo 202.032	0.1597	ppb	0.9998	625.9	2.3163
Na 330.237	13125.1	ppb	177.414	1.4	937.771
Ni 231.604	0.3387	ppb	0.8259	243.8	2.8365
Pb 220.353	-0.2109	ppb	2.8430	1347.7	0.8226
Sb 206.834	-3.5285	ppb	2.0390	57.8	2.0311
Se 196.026	-1.9411	ppb	8.9363	460.4	3.5500
Sn 189.925	-0.2243	ppb	4.4121	1967.3	-1.1350
Sr 216.596	11.4539	ppb	0.7369	6.4	65.1476
Ti 334.941	-0.4633	ppb	0.0387	8.4	-2.3767
Tl 190.794	-1.2741	ppb	4.0062	314.4	-1.0745
V 292.401	-0.2209	ppb	0.1337	60.5	2.6102
Zn 206.200	1.7223	ppb	0.3339	19.4	6.9117

680-88808-c-5-c (Samp)

4/10/2013, 10:16:17 PM

Rack 2, Tube 35

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0310	ppb	0.4750	1531.8	-29.2443
Al 308.215	19.4134	ppb	1.9091	9.8	98.9585
As 188.980	-5.7263	ppb	2.3185	40.5	-2.1957
B 249.678	74.0382	ppb	0.3329	0.4	737.989
Ba 389.178	156.248	ppb	0.4594	0.3	2674.56
Be 313.042	-0.0087	ppb	0.0033	38.1	-61.6316
Ca 370.602	41535	ppb	195.5	0.5	168812
Cd 226.502	0.1380	ppb	0.1172	85.0	16.9847
Co 228.615	0.8033	ppb	0.1065	13.3	-3.4898
Cr 267.716	-0.0571	ppb	0.4029	705.8	6.0898
Cu 324.754	6.3837	ppb	0.3739	5.9	226.664
Fe 271.441	-8.5107	ppb	8.3450	98.1	-11.5188
K 766.491	7492.98	ppb	23.8908	0.3	1018719
Mg 279.078	5725.37	ppb	27.2567	0.5	6941.35
Mn 257.610	1.5459	ppb	0.0415	2.7	227.299
Mo 202.032	1.7914	ppb	0.3049	17.0	8.2590
Na 330.237	6037.11	ppb	149.561	2.5	433.952
Ni 231.604	2.4245	ppb	1.2503	51.6	9.3580
Pb 220.353	2.0179	ppb	5.1959	257.5	2.5607
Sb 206.834	-0.6167	ppb	5.7757	936.5	4.3819
Se 196.026	5.4830	ppb	8.0528	146.9	5.7273
Sn 189.925	-0.3409	ppb	5.5903	1640.0	-1.3708
Sr 216.596	240.255	ppb	1.7708	0.7	1498.45
Ti 334.941	-0.3167	ppb	0.0481	15.2	78.9918
Tl 190.794	-3.2212	ppb	3.1298	97.2	-2.4091
V 292.401	0.8965	ppb	0.3672	41.0	36.3327
Zn 206.200	103.225	ppb	0.1194	0.1	330.418

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4/10/2013, 10:21:44 PM

Rack 2, Tube 36

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1882	ppb	0.2901	154.1	-22.0955
Al 308.215	-2.0489	ppb	0.5367	26.2	34.1514

F04102013.wvq. All Data Report 4/11/2013, 9:46:33 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	-7.8700	ppb	3.9024	49.6	-2.4090
B 249.678	2.0682	ppb	1.4389	69.6	62.3308
Ba 389.178	-1.2938	ppb	1.2127	93.7	-37.1262
Be 313.042	0.0687	ppb	0.0073	10.7	55.4577
Ca 370.602	-4.485	ppb	3.149	70.2	-78.99
Cd 226.502	-0.0382	ppb	0.1288	337.4	12.9441
Co 228.615	0.0803	ppb	0.3387	421.7	-9.7178
Cr 267.716	0.6275	ppb	0.1828	29.1	17.8304
Cu 324.754	4.2177	ppb	0.6789	16.1	263.381
Fe 271.441	3.9519	ppb	2.3575	59.7	-1.5809
K 766.491	2.1978	ppb	1.9053	86.7	2389.17
Mg 279.078	-7.6824	ppb	1.3985	18.2	21.0824
Mn 257.610	-0.4375	ppb	0.0329	7.5	10.1907
Mo 202.032	0.0045	ppb	0.7494	16615.4	1.7991
Na 330.237	75.2531	ppb	156.732	208.3	9.6923
Ni 231.604	-1.2423	ppb	1.0951	88.1	-2.0398
Pb 220.353	2.0952	ppb	3.5636	170.1	2.6243
Sb 206.834	-2.5025	ppb	1.2095	48.3	2.7210
Se 196.026	-8.3700	ppb	5.1328	61.3	1.7947
Sn 189.925	-1.7020	ppb	3.1504	185.1	-2.0821
Sr 216.596	-0.1603	ppb	0.1924	120.0	-7.6585
Ti 334.941	-0.7015	ppb	0.0424	6.0	-56.9379
Tl 190.794	0.0796	ppb	2.9654	3725.9	-0.3896
V 292.401	-0.1682	ppb	0.0756	44.9	4.2690
Zn 206.200	1.0875	ppb	0.3974	36.5	4.8475

Cont Calib Verif (CCV)

4/10/2013, 10:27:12 PM

Rack 2, Tube 37

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	497.885	ppb	1.5939	0.3	16097.4	99.57704
Al 308.215	5132.06	ppb	32.9495	0.6	15792.0	102.64114
As 188.980	499.850	ppb	9.4520	1.9	185.546	99.97002
B 249.678	508.786	ppb	3.9201	0.8	4813.20	20.35145Q
Ba 389.178	5117.31	ppb	32.9794	0.6	87757.8	102.34622
Be 313.042	518.251	ppb	2.9989	0.6	865222	103.65013
Ca 370.602	5028	ppb	34.19	0.7	19692	100.56480
Cd 226.502	508.254	ppb	2.3808	0.5	11705.2	101.65071
Co 228.615	509.781	ppb	2.7231	0.5	4324.72	101.95624
Cr 267.716	5144.33	ppb	31.1601	0.6	88492.8	102.88652
Cu 324.754	5155.58	ppb	44.1514	0.9	199386	103.11162
Fe 271.441	4980.28	ppb	26.6260	0.5	4050.61	99.60564
K 766.491	10182.8	ppb	62.7255	0.6	1382263	101.82784
Mg 279.078	5051.37	ppb	33.4157	0.7	6099.37	101.02748
Mn 257.610	5301.77	ppb	31.8865	0.6	539722	106.03546
Mo 202.032	498.884	ppb	3.6370	0.7	1794.87	99.77678
Na 330.237	7512.38	ppb	113.424	1.5	536.806	100.16512
Ni 231.604	2602.70	ppb	12.5092	0.5	7938.15	104.10783
Pb 220.353	501.082	ppb	5.2693	1.1	386.634	100.21641
Sb 206.834	917.308	ppb	9.6592	1.1	659.751	36.69232Q
Se 196.026	4954.82	ppb	35.8412	0.7	1353.97	99.09633
Sn 189.925	4886.61	ppb	28.3159	0.6	3129.80	97.73214
Sr 216.596	2517.44	ppb	15.9097	0.6	15636.3	100.69759
Ti 334.941	499.505	ppb	2.5696	0.5	114498	99.90097

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Tl 190.794	4953.91	ppb	17.7558	0.4	2420.99	99.07820
V 292.401	4999.23	ppb	34.1754	0.7	151272	99.98453
Zn 206.200	2583.16	ppb	13.6568	0.5	8210.06	103.32642

Cont Calib Blank (CCB)

4/10/2013, 10:32:39 PM

Rack 2, Tube 38

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.0134	ppb	0.4163	3114.2	-27.7509	0.01337
Al 308.215	-1.0406	ppb	3.8423	369.2	37.2330	-1.04062
As 188.980	-1.7829	ppb	8.6143	483.2	-0.1654	-1.78294
B 249.678	1.1575	ppb	0.4122	35.6	53.7766	1.15753
Ba 389.178	-0.5755	ppb	0.1479	25.7	-24.8087	-0.57548
Be 313.042	0.0334	ppb	0.0141	42.4	-2.9971	0.03337
Ca 370.602	-0.9040	ppb	2.459	272.0	-64.42	-0.90397
Cd 226.502	-0.0270	ppb	0.2205	815.5	13.2006	-0.02704
Co 228.615	0.1461	ppb	0.1517	103.8	-9.1654	0.14610
Cr 267.716	0.3818	ppb	0.0622	16.3	13.5981	0.38175
Cu 324.754	0.4539	ppb	0.1244	27.4	117.826	0.45391
Fe 271.441	4.8369	ppb	8.1427	168.3	-0.8662	4.83687
K 766.491	0.9433	ppb	0.2358	25.0	2218.70	0.94327
Mg 279.078	-10.3238	ppb	5.7699	55.9	17.8926	-10.32381
Mn 257.610	0.0363	ppb	0.0945	260.0	58.4198	0.03633
Mo 202.032	0.8849	ppb	0.7033	79.5	4.9805	0.88491
Na 330.237	-49.9591	ppb	46.0378	92.2	0.7834	-49.95906
Ni 231.604	0.3211	ppb	0.1834	57.1	2.7268	0.32111
Pb 220.353	-0.6513	ppb	6.3064	968.2	0.4803	-0.65134
Sb 206.834	-3.9334	ppb	1.2286	31.2	1.7510	-3.93337
Se 196.026	-1.0037	ppb	0.2746	27.4	3.8002	-1.00370
Sn 189.925	0.1909	ppb	1.2597	659.9	-0.8694	0.19089
Sr 216.596	-0.1687	ppb	0.3760	222.9	-7.7802	-0.16872
Ti 334.941	-0.5979	ppb	0.0443	7.4	-33.2730	-0.59789
Tl 190.794	0.3749	ppb	3.7043	988.0	-0.2455	0.37492
V 292.401	0.3966	ppb	0.1669	42.1	21.2939	0.39665
Zn 206.200	0.2596	ppb	0.6859	264.2	2.2104	0.25963

lcs 680-272468/2-a (Samp)

4/10/2013, 10:38:06 PM

Rack 2, Tube 39

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.3117	ppb	0.5299	170.0	-38.2877
Al 308.215	-6.3589	ppb	3.4214	53.8	21.1501
As 188.980	-6.9015	ppb	5.7301	83.0	-2.0523
B 249.678	2.9927	ppb	1.6730	55.9	71.0245
Ba 389.178	-1.4168	ppb	1.4777	104.3	-39.2410
Be 313.042	0.0619	ppb	0.0337	54.5	44.2508
Ca 370.602	-5.616	ppb	2.984	53.1	-82.79
Cd 226.502	-0.2549	ppb	0.1235	48.5	7.9559
Co 228.615	-0.1099	ppb	0.2939	267.4	-11.3241
Cr 267.716	0.9560	ppb	0.1295	13.5	23.4834
Cu 324.754	4.0155	ppb	0.8344	20.8	255.565
Fe 271.441	1.0096	ppb	6.8704	680.5	-3.9385
K 766.491	0.9134	ppb	1.8865	206.5	2214.94

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Mg 279.078	-9.3476	ppb	3.5294	37.8	19.0876
Mn 257.610	-0.5241	ppb	0.0614	11.7	1.3742
Mo 202.032	-0.0975	ppb	0.5696	584.4	1.4307
Na 330.237	-17.1024	ppb	164.481	961.7	3.1238
Ni 231.604	0.0199	ppb	0.1964	989.3	1.8062
Pb 220.353	-0.2858	ppb	3.5724	1250.2	0.7668
Sb 206.834	-1.8095	ppb	2.0477	113.2	3.1888
Se 196.026	0.4174	ppb	5.4650	1309.4	4.1870
Sn 189.925	-0.4516	ppb	2.2851	506.0	-1.2810
Sr 216.596	-0.1267	ppb	1.5130	1194.5	-7.4884
Ti 334.941	-0.7539	ppb	0.0306	4.1	-68.8883
Tl 190.794	-2.0814	ppb	2.5223	121.2	-1.4422
V 292.401	0.0233	ppb	0.2137	918.2	10.2295
Zn 206.200	0.2739	ppb	0.6567	239.7	2.2549

lcs 680-272468/3-a (Samp) 4/10/2013, 10:43:33 PM Rack 2, Tube 40

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.4391	ppb	0.4110	93.6	-42.4095
Al 308.215	-2.3731	ppb	6.2423	263.0	33.1726
As 188.980	-5.1017	ppb	4.0152	78.7	-1.3887
B 249.678	2.9746	ppb	0.3518	11.8	70.8392
Ba 389.178	-0.6569	ppb	0.8411	128.0	-26.2046
Be 313.042	-0.0120	ppb	0.0028	23.4	-78.6817
Ca 370.602	-5.187	ppb	1.183	22.8	-81.84
Cd 226.502	0.1647	ppb	0.1804	109.5	17.6070
Co 228.615	0.1394	ppb	0.2503	179.6	-9.2141
Cr 267.716	0.1953	ppb	0.2821	144.5	10.3923
Cu 324.754	-0.1090	ppb	0.1325	121.6	96.0699
Fe 271.441	3.6735	ppb	1.1472	31.2	-1.8054
K 766.491	1.2589	ppb	0.4015	31.9	2261.61
Mg 279.078	-8.7877	ppb	3.9025	44.4	19.7483
Mn 257.610	-0.4637	ppb	0.0188	4.1	7.5310
Mo 202.032	0.0390	ppb	1.2397	3180.2	1.9236
Na 330.237	50.3286	ppb	41.6960	82.8	7.9196
Ni 231.604	-0.6019	ppb	1.3934	231.5	-0.0876
Pb 220.353	0.4753	ppb	3.9461	830.3	1.3605
Sb 206.834	0.1976	ppb	0.6579	333.0	4.5387
Se 196.026	1.8400	ppb	11.8326	643.1	4.5743
Sn 189.925	-2.4617	ppb	3.6016	146.3	-2.5687
Sr 216.596	-0.2012	ppb	0.8076	401.3	-7.9353
Ti 334.941	-0.7191	ppb	0.0658	9.1	-60.9716
Tl 190.794	-1.2136	ppb	3.7072	305.5	-1.0200
V 292.401	-0.1199	ppb	0.0742	61.9	5.7924
Zn 206.200	1.1890	ppb	0.3261	27.4	5.1726

lb 680-271636/18-d (Samp) 4/10/2013, 10:49:00 PM Rack 2, Tube 41

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.4173b	ppb	0.6073	145.5	-41.7013
Al 308.215	-2.3199b	ppb	1.6795	72.4	33.3203

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	-5.6604b	ppb	7.3717	130.2	-1.5995
B 249.678	39.9839b	ppb	0.5702	1.4	418.274
Ba 389.178	-0.3312b	ppb	0.4162	125.7	-20.4972
Be 313.042	-0.0005b	ppb	0.0074	1479.5	-71.1803
Ca 370.602	324.0b	ppb	2.821	0.9	1258
Cd 226.502	-0.0966b	ppb	0.1624	168.2	11.1933
Co 228.615	-0.3277b	ppb	0.2740	83.6	-13.1780
Cr 267.716	-0.0327b	ppb	0.4260	1300.8	7.2015
Cu 324.754	0.1052b	ppb	0.5120	486.6	103.398
Fe 271.441	-5.0384b	ppb	11.6711	231.6	-8.8022
K 766.491	95.7013b	ppb	0.4429	0.5	15075.8
Mg 279.078	61.5576b	ppb	7.2994	11.9	104.690
Mn 257.610	-0.2740b	ppb	0.0148	5.4	26.7460
Mo 202.032	-0.0391b	ppb	0.4866	1244.6	1.6427
Na 330.237	123486xb	ppb	792.535	0.6	8788.02
Ni 231.604	-0.1908b	ppb	0.9790	513.2	1.1681
Pb 220.353	0.9296b	ppb	2.5484	274.1	1.7155
Sb 206.834	-1.5255b	ppb	1.6140	105.8	3.3710
Se 196.026	-1.7120b	ppb	13.7087	800.7	3.6089
Sn 189.925	2.0326b	ppb	0.6916	34.0	0.3405
Sr 216.596	0.2999b	ppb	1.0270	342.4	-4.7992
Ti 334.941	-0.7587b	ppb	0.0412	5.4	-76.8828
Tl 190.794	-0.8842b	ppb	7.4279	840.1	-0.8626
V 292.401	-0.1645b	ppb	0.3147	191.3	3.5548
Zn 206.200	1.1841b	ppb	0.2909	24.6	5.1596

680-88866-a-39-h (Samp)

4/10/2013, 10:54:28 PM

Rack 2, Tube 42

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.4334b	ppb	0.5032	116.1	-40.9167
Al 308.215	89.5555b	ppb	8.4785	9.5	310.402
As 188.980	-4.3856b	ppb	2.7607	62.9	-1.2791
B 249.678	60.1345b	ppb	2.8210	4.7	607.527
Ba 389.178	50.8864b	ppb	2.2222	4.4	864.618
Be 313.042	0.1809b	ppb	0.0325	17.9	233.638
Ca 370.602	11086b	ppb	534.4	4.8	45021
Cd 226.502	0.3470b	ppb	0.0926	26.7	21.4275
Co 228.615	4.2812b	ppb	0.2211	5.2	26.0189
Cr 267.716	0.3334b	ppb	0.0602	18.0	13.8900
Cu 324.754	4.2281b	ppb	0.5247	12.4	231.793
Fe 271.441	2.8033b	ppb	4.3095	153.7	-2.2926
K 766.491	2042.37b	ppb	76.4795	3.7	279192
Mg 279.078	3787.47b	ppb	182.543	4.8	4601.59
Mn 257.610	293.997b	ppb	14.4936	4.9	29989.0
Mo 202.032	0.0056b	ppb	0.3535	6294.4	1.8043
Na 330.237	124554xb	ppb	4526.73	3.6	8864.00
Ni 231.604	1.6527b	ppb	0.9452	57.2	6.9301
Pb 220.353	-1.2324b	ppb	2.4096	195.5	0.0189
Sb 206.834	0.8715b	ppb	4.6389	532.3	5.1014
Se 196.026	-9.4497b	ppb	12.9686	137.2	1.6131
Sn 189.925	-0.4369b	ppb	4.4189	1011.5	-1.2834
Sr 216.596	115.075b	ppb	6.5611	5.7	713.826
Ti 334.941	-0.6679b	ppb	0.0272	4.1	43.5433

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Tl 190.794	-0.3411b	ppb	4.7259	1385.7	-0.6975
V 292.401	0.1887b	ppb	0.3179	168.5	13.6276
Zn 206.200	15.8631b	ppb	1.2464	7.9	52.0485

680-88866-a-39-hSD^5 (Samp) 4/10/2013, 10:59:55 PM Rack 2, Tube 43

Weight: 1		Volume: 1		Dilution: 1	
Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.2206	ppb	0.8438	382.6	-20.7934
Al 308.215	14.1481	ppb	1.2364	8.7	82.9828
As 188.980	-2.7685	ppb	5.3766	194.2	-0.5579
B 249.678	11.1995	ppb	0.6651	5.9	148.082
Ba 389.178	9.2798	ppb	0.9431	10.2	145.503
Be 313.042	0.0158	ppb	0.0041	25.6	-34.0443
Ca 370.602	2073	ppb	17.57	0.8	8370
Cd 226.502	0.0136	ppb	0.0298	219.4	14.0583
Co 228.615	0.7004	ppb	0.1726	24.6	-4.4375
Cr 267.716	-0.0028	ppb	0.4721	17059.0	7.1944
Cu 324.754	0.7807	ppb	0.1684	21.6	124.491
Fe 271.441	-0.8700	ppb	6.9478	798.6	-5.4070
K 766.491	356.908	ppb	1.3895	0.4	50514.4
Mg 279.078	713.822	ppb	7.5866	1.1	891.909
Mn 257.610	55.3466	ppb	0.4121	0.7	5690.04
Mo 202.032	-0.3784	ppb	1.1409	301.5	0.4158
Na 330.237	22572.4	ppb	87.1083	0.4	1609.94
Ni 231.604	1.6161	ppb	0.8621	53.3	6.7009
Pb 220.353	-2.2639	ppb	2.8044	123.9	-0.7784
Sb 206.834	-1.1547	ppb	5.9317	513.7	3.6390
Se 196.026	-10.1695	ppb	14.6515	144.1	1.3261
Sn 189.925	1.9421	ppb	4.3349	223.2	0.2501
Sr 216.596	21.5797	ppb	0.6028	2.8	128.372
Ti 334.941	-0.7470	ppb	0.0665	8.9	-66.2376
Tl 190.794	-1.1553	ppb	1.1173	96.7	-1.0107
V 292.401	-0.2166	ppb	0.0529	24.4	2.6495
Zn 206.200	2.9180	ppb	0.4145	14.2	10.7058

680-88866-a-39-hPDS (Samp) 4/10/2013, 11:05:22 PM Rack 2, Tube 44

Weight: 1		Volume: 1		Dilution: 1	
Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	50.4441b	ppb	0.2822	0.6	1606.16
Al 308.215	2179.58b	ppb	1.7826	0.1	6651.81
As 188.980	2100.10b	ppb	18.2248	0.9	774.511
B 249.678	1047.65b	ppb	1.7965	0.2	9881.82
Ba 389.178	2136.37b	ppb	4.0413	0.2	36632.1
Be 313.042	53.7082b	ppb	0.1126	0.2	89551.3
Ca 370.602	15487b	ppb	14.56	0.1	62856
Cd 226.502	52.7344b	ppb	0.0870	0.2	1227.77
Co 228.615	527.108b	ppb	4.7643	0.9	4475.75
Cr 267.716	210.575b	ppb	1.1117	0.5	3628.88
Cu 324.754	269.955b	ppb	1.0098	0.4	10487.0
Fe 271.441	1008.55b	ppb	12.0016	1.2	834.453
K 766.491	7851.70b	ppb	13.2503	0.2	1066825



F04102013.wvq. All Data Report 4/11/2013, 9:46:33 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Mg 279.078	8664.09b	ppb	17.5718	0.2	10483.2
Mn 257.610	816.273b	ppb	1.2856	0.2	83174.4
Mo 202.032	526.240b	ppb	0.9911	0.2	1903.00
Na 330.237	123196xb	ppb	725.959	0.6	8759.96
Ni 231.604	525.170b	ppb	3.6972	0.7	1603.67
Pb 220.353	502.714b	ppb	5.8803	1.2	392.152
Sb 206.834	474.998b	ppb	8.1101	1.7	322.249
Se 196.026	2056.72b	ppb	4.0912	0.2	564.244
Sn 189.925	1005.25b	ppb	4.0637	0.4	643.267
Sr 216.596	624.871b	ppb	4.2664	0.7	3875.02
Ti 334.941	1007.66b	ppb	1.6468	0.2	230196
Tl 190.794	2031.03b	ppb	1.3362	0.1	991.260
V 292.401	510.948b	ppb	0.9128	0.2	15380.0
Zn 206.200	533.783b	ppb	0.4251	0.1	1701.30

680-88866-a-39-i ms (Samp) 4/10/2013, 11:10:49 PM Rack 2, Tube 45

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	41.2233b	ppb	1.4434	3.5	1309.90
Al 308.215	916.726b	ppb	38.9461	4.2	2810.07
As 188.980	76.2741b	ppb	3.7983	5.0	28.3871
B 249.678	203.539b	ppb	7.7604	3.8	1935.09
Ba 389.178	116.409b	ppb	4.2793	3.7	2011.72
Be 313.042	83.9964b	ppb	3.1216	3.7	139706
Ca 370.602	16710b	ppb	606.3	3.6	66385
Cd 226.502	81.8813b	ppb	3.0783	3.8	1912.26
Co 228.615	84.0083b	ppb	2.8976	3.4	703.376
Cr 267.716	82.5384b	ppb	3.2488	3.9	1424.13
Cu 324.754	86.6765b	ppb	3.3944	3.9	3407.63
Fe 271.441	7853.42b	ppb	308.936	3.9	6290.82
K 766.491	10435.7b	ppb	306.309	2.9	1418013
Mg 279.078	10927.7b	ppb	412.923	3.8	13189.8
Mn 257.610	1076.90b	ppb	36.8651	3.4	109706
Mo 202.032	80.7698b	ppb	2.8338	3.5	292.550
Na 330.237	105837xb	ppb	3043.17	2.9	7528.15
Ni 231.604	82.7792b	ppb	3.3049	4.0	254.921
Pb 220.353	78.2963b	ppb	5.7399	7.3	61.7913
Sb 206.834	73.8795b	ppb	2.3280	3.2	55.4162
Se 196.026	82.1722b	ppb	13.4625	16.4	26.6494
Sn 189.925	76.2675b	ppb	3.7646	4.9	47.8536
Sr 216.596	168.983b	ppb	6.0842	3.6	1050.62
Ti 334.941	78.7416b	ppb	3.0341	3.9	18100.7
Tl 190.794	12.2064b	ppb	2.2899	18.8	5.1333
V 292.401	81.1004b	ppb	3.0561	3.8	2444.92
Zn 206.200	95.2234b	ppb	3.2289	3.4	304.976

680-88866-a-39-j msd (Samp) 4/10/2013, 11:16:17 PM Rack 2, Tube 46

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	40.3027b	ppb	1.0293	2.6	1280.08
Al 308.215	915.912b	ppb	22.2722	2.4	2807.60

F04102013.wvq. All Data Report 4/11/2013, 9:46:33 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	70.5744b	ppb	5.9713	8.5	26.2847
B 249.678	201.433b	ppb	3.6671	1.8	1915.33
Ba 389.178	116.347b	ppb	2.4459	2.1	2010.65
Be 313.042	83.5611b	ppb	1.9245	2.3	138981
Ca 370.602	16786b	ppb	375.7	2.2	66695
Cd 226.502	82.0692b	ppb	1.8189	2.2	1916.57
Co 228.615	83.8089b	ppb	1.6477	2.0	701.678
Cr 267.716	82.1414b	ppb	2.6224	3.2	1417.31
Cu 324.754	86.4990b	ppb	2.0530	2.4	3400.55
Fe 271.441	7844.75b	ppb	189.590	2.4	6283.88
K 766.491	10398.1b	ppb	189.472	1.8	1412906
Mg 279.078	10913.3b	ppb	248.209	2.3	13172.5
Mn 257.610	1076.50b	ppb	24.5981	2.3	109666
Mo 202.032	80.7788b	ppb	1.2375	1.5	292.584
Na 330.237	106504xb	ppb	2897.67	2.7	7575.61
Ni 231.604	83.0682b	ppb	2.5151	3.0	255.803
Pb 220.353	84.0701b	ppb	5.4694	6.5	66.2974
Sb 206.834	70.2445b	ppb	2.4814	3.5	52.9592
Se 196.026	75.1330b	ppb	5.3994	7.2	24.7332
Sn 189.925	74.0602b	ppb	1.5035	2.0	46.4393
Sr 216.596	170.155b	ppb	3.8434	2.3	1057.94
Ti 334.941	78.6400b	ppb	1.8456	2.3	18077.5
Tl 190.794	10.1968b	ppb	2.5704	25.2	4.1521
V 292.401	80.6497b	ppb	1.7455	2.2	2431.24
Zn 206.200	94.0474b	ppb	2.1366	2.3	301.233

mb 680-272516/1-a (Samp)

4/10/2013, 11:21:44 PM

Rack 2, Tube 47

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.3389	ppb	0.6739	198.8	-17.2138
Al 308.215	8.5334	ppb	3.5634	41.8	66.0757
As 188.980	-6.6168	ppb	7.8390	118.5	-1.9475
B 249.678	2.0991	ppb	0.7912	37.7	62.5731
Ba 389.178	-1.6391	ppb	1.3851	84.5	-42.9710
Be 313.042	-0.0089	ppb	0.0110	122.9	-73.5887
Ca 370.602	21.61	ppb	2.491	11.5	23.63
Cd 226.502	0.0908	ppb	0.2151	236.9	15.9481
Co 228.615	0.0120	ppb	0.4185	3492.1	-10.3040
Cr 267.716	1.1965	ppb	0.2828	23.6	27.6116
Cu 324.754	-0.0342	ppb	0.2681	783.6	98.8976
Fe 271.441	22.2237	ppb	3.3145	14.9	13.0532
K 766.491	15.6676	ppb	0.4040	2.6	4216.92
Mg 279.078	16.4678	ppb	5.3273	32.3	50.1666
Mn 257.610	-0.0348	ppb	0.0517	148.5	51.2713
Mo 202.032	0.6046	ppb	0.2549	42.1	3.9659
Na 330.237	63.2207	ppb	209.996	332.2	8.8275
Ni 231.604	0.1601	ppb	1.0616	663.3	2.2350
Pb 220.353	0.0615	ppb	3.5661	5796.6	1.0351
Sb 206.834	-1.4334	ppb	3.3719	235.2	3.4097
Se 196.026	2.7970	ppb	3.0466	108.9	4.8349
Sn 189.925	19.4898	ppb	3.6577	18.8	11.4948
Sr 216.596	-0.7327	ppb	0.3933	53.7	-11.2860
Ti 334.941	-0.4992	ppb	0.0347	7.0	-10.6884

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Tl 190.794	-2.7025	ppb	3.2052	118.6	-1.7475
V 292.401	-0.0229	ppb	0.1230	537.5	8.6025
Zn 206.200	2.1301	ppb	0.4551	21.4	8.1681

ics 680-272516/2-a (Samp) 4/10/2013, 11:27:12 PM Rack 2, Tube 48  
 Weight: 1 Volume: 1 Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	13.9844	ppb	0.3751	2.7	425.719
Al 308.215	5365.14	ppb	10.6943	0.2	16227.1
As 188.980	102.957	ppb	13.4095	13.0	38.3925
B 249.678	197.326	ppb	0.4445	0.2	1882.63
Ba 389.178	107.278	ppb	0.8635	0.8	1841.36
Be 313.042	55.1583	ppb	0.1706	0.3	91754.7
Ca 370.602	5213	ppb	1.919	0.0	20157
Cd 226.502	53.7912	ppb	0.2944	0.5	1261.45
Co 228.615	53.6156	ppb	0.6799	1.3	445.016
Cr 267.716	109.018	ppb	0.4147	0.4	1879.99
Cu 324.754	110.426	ppb	0.2354	0.2	4357.38
Fe 271.441	5140.73	ppb	22.2278	0.4	4116.67
K 766.491	5229.99	ppb	9.5983	0.2	711683
Mg 279.078	5215.98	ppb	11.6214	0.2	6306.37
Mn 257.610	562.164	ppb	1.1177	0.2	57295.8
Mo 202.032	106.646	ppb	1.3543	1.3	386.469
Na 330.237	5011.66	ppb	71.2796	1.4	357.560
Ni 231.604	107.035	ppb	0.5221	0.5	328.498
Pb 220.353	53.9210	ppb	2.0315	3.8	42.3212
Sb 206.834	41.5208	ppb	1.5613	3.8	33.0763
Se 196.026	111.244	ppb	3.4579	3.1	34.4528
Sn 189.925	211.484	ppb	3.7692	1.8	134.508
Sr 216.596	105.017	ppb	0.3773	0.4	647.183
Ti 334.941	104.160	ppb	0.2924	0.3	23898.3
Tl 190.794	34.0689	ppb	3.5301	10.4	15.9694
V 292.401	106.090	ppb	0.3125	0.3	3196.66
Zn 206.200	106.750	ppb	1.2927	1.2	341.325

Cont Calib Verif (CCV) 4/10/2013, 11:32:40 PM Rack 2, Tube 49  
 Weight: 1 Volume: 1 Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	496.348	ppb	1.2453	0.3	16047.6	99.26959
Al 308.215	5148.66	ppb	7.7814	0.2	15842.2	102.97315
As 188.980	486.606	ppb	8.6780	1.8	180.666	97.32113
B 249.678	510.076	ppb	0.9825	0.2	4825.32	20.40305Q
Ba 389.178	5113.75	ppb	6.3205	0.1	87696.8	102.27500
Be 313.042	519.065	ppb	0.9594	0.2	866579	103.81307
Ca 370.602	5034	ppb	7.608	0.2	19715	100.67062
Cd 226.502	507.277	ppb	0.7195	0.1	11682.8	101.45540
Co 228.615	509.228	ppb	1.3590	0.3	4320.01	101.84563
Cr 267.716	5143.15	ppb	13.0157	0.3	88472.5	102.86299
Cu 324.754	5114.93	ppb	20.1205	0.4	197814	102.29866
Fe 271.441	4972.62	ppb	15.1624	0.3	4044.49	99.45236
K 766.491	10177.5	ppb	12.6560	0.1	1381549	101.77526

F04102013.wvq. All Data Report 4/11/2013, 9:46:33 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Mg 279.078	5076.66	ppb	6.5299	0.1	6129.91	101.53321
Mn 257.610	5299.34	ppb	10.5405	0.2	539475	105.98682
Mo 202.032	504.523	ppb	0.5721	0.1	1815.25	100.90465
Na 330.237	7397.76	ppb	101.519	1.4	528.662	98.63683
Ni 231.604	2600.07	ppb	6.6986	0.3	7930.13	104.00278
Pb 220.353	503.278	ppb	2.4826	0.5	388.339	100.65553
Sb 206.834	909.928	ppb	4.2857	0.5	654.788	36.39712Q
Se 196.026	4949.54	ppb	20.3503	0.4	1352.54	98.99080
Sn 189.925	4885.69	ppb	7.2695	0.1	3129.21	97.71384
Sr 216.596	2521.44	ppb	3.5210	0.1	15661.4	100.85770
Ti 334.941	499.382	ppb	0.9274	0.2	114471	99.87632
Tl 190.794	4933.26	ppb	17.1391	0.3	2410.92	98.66525
V 292.401	5003.21	ppb	6.9898	0.1	151392	100.06419
Zn 206.200	2584.60	ppb	7.7678	0.3	8214.62	103.38403

Cont Calib Blank (CCB)

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Rack 2, Tube 50

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.1451	ppb	0.2917	201.0	-23.4826	0.14514
Al 308.215	-1.7855	ppb	6.6724	373.7	34.9792	-1.78548
As 188.980	-7.0520	ppb	1.6295	23.1	-2.1077	-7.05203
B 249.678	1.2388	ppb	0.7424	59.9	54.5660	1.23877
Ba 389.178	-0.2842	ppb	0.0806	28.4	-19.8175	-0.28421
Be 313.042	0.0373	ppb	0.0077	20.8	3.6654	0.03727
Ca 370.602	-5.030	ppb	1.643	32.7	-79.78	-5.03018
Cd 226.502	-0.0683	ppb	0.2453	359.1	12.2368	-0.06831
Co 228.615	-0.0382	ppb	0.1706	446.2	-10.7207	-0.03824
Cr 267.716	0.5061	ppb	0.1669	33.0	15.7404	0.50611
Cu 324.754	0.5736	ppb	0.0639	11.1	122.452	0.57364
Fe 271.441	-2.9620	ppb	3.9300	132.7	-7.1075	-2.96200
K 766.491	1.7315	ppb	0.3122	18.0	2325.62	1.73146
Mg 279.078	-3.6398	ppb	4.9912	137.1	25.9872	-3.63983
Mn 257.610	0.1064	ppb	0.0419	39.4	65.5571	0.10640
Mo 202.032	0.6361	ppb	0.9837	154.7	4.0817	0.63608
Na 330.237	-105.152	ppb	64.2013	61.1	-3.1386	-105.15170
Ni 231.604	-0.2126	ppb	0.5725	269.3	1.0974	-0.21262
Pb 220.353	-2.4921	ppb	1.9085	76.6	-0.9554	-2.49211
Sb 206.834	-0.6226	ppb	1.3361	214.6	3.9824	-0.62263
Se 196.026	-3.1913	ppb	13.3909	419.6	3.2048	-3.19133
Sn 189.925	-1.3514	ppb	3.6057	266.8	-1.8575	-1.35142
Sr 216.596	0.2735	ppb	0.7722	282.4	-4.9832	0.27346
Ti 334.941	-0.5995	ppb	0.0392	6.5	-33.6555	-0.59954
Tl 190.794	-0.9885	ppb	2.8359	286.9	-0.9088	-0.98847
V 292.401	0.5604	ppb	0.1164	20.8	26.4354	0.56036
Zn 206.200	0.4529	ppb	0.6529	144.2	2.8264	0.45293

ics 680-272516/3-a (Samp)

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Rack 2, Tube 51

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	206.373	ppb	8.3364	4.0	6660.84
Al 308.215	2269.15	ppb	29.1476	1.3	6896.88

F04102013.wvq. All Data Report 4/11/2013, 9:46:33 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	202.990	ppb	9.8822	4.9	75.0565
B 249.678	390.190	ppb	5.0374	1.3	3656.05
Ba 389.178	199.918	ppb	2.9979	1.5	3479.15
Be 313.042	215.953	ppb	2.9978	1.4	359292
Ca 370.602	20892	ppb	263.5	1.3	80873
Cd 226.502	207.337	ppb	3.7610	1.8	4824.05
Co 228.615	208.682	ppb	2.7409	1.3	1762.60
Cr 267.716	214.710	ppb	3.3829	1.6	3690.75
Cu 324.754	215.415	ppb	7.5597	3.5	8380.18
Fe 271.441	20958.3	ppb	295.843	1.4	16795.4
K 766.491	20381.8	ppb	196.927	1.0	2767507
Mg 279.078	20822.1	ppb	240.710	1.2	25082.6
Mn 257.610	2190.51	ppb	30.4650	1.4	223099
Mo 202.032	211.216	ppb	3.9867	1.9	762.090
Na 330.237	18694.8	ppb	323.426	1.7	1322.11
Ni 231.604	214.536	ppb	3.6841	1.7	657.647
Pb 220.353	199.486	ppb	8.6736	4.3	155.895
Sb 206.834	186.188	ppb	5.2240	2.8	132.796
Se 196.026	198.627	ppb	6.8920	3.5	58.4438
Sn 189.925	218.338	ppb	1.6835	0.8	138.870
Sr 216.596	217.906	ppb	3.8440	1.8	1355.86
Ti 334.941	206.884	ppb	2.9001	1.4	47377.5
Tl 190.794	36.2265	ppb	2.2496	6.2	16.4018
V 292.401	211.781	ppb	2.7776	1.3	6372.74
Zn 206.200	198.757	ppb	2.7140	1.4	634.939

660-53619-a-1-a (Samp)

4/10/2013, 11:49:01 PM

Rack 2, Tube 52

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	2.9920	ppb	0.4136	13.8	68.7039
Al 308.215	183.433	ppb	4.0280	2.2	593.514
As 188.980	-6.9042	ppb	4.2301	61.3	-2.0536
B 249.678	7.2565	ppb	0.6517	9.0	111.023
Ba 389.178	-0.9959	ppb	0.2044	20.5	-32.0026
Be 313.042	0.0029	ppb	0.0099	346.2	-54.0356
Ca 370.602	26.96	ppb	1.479	5.5	48.65
Cd 226.502	0.1128	ppb	0.1505	133.4	16.4303
Co 228.615	-0.1728	ppb	0.3148	182.2	-11.8598
Cr 267.716	0.8911	ppb	0.1679	18.8	22.3673
Cu 324.754	16.4854	ppb	0.4819	2.9	737.699
Fe 271.441	5.4711	ppb	8.3839	153.2	-0.3664
K 766.491	110.201	ppb	1.6362	1.5	17043.5
Mg 279.078	-0.9599	ppb	2.4444	254.7	29.1884
Mn 257.610	-0.2219	ppb	0.0607	27.3	32.1735
Mo 202.032	1.2049	ppb	0.2363	19.6	6.1405
Na 330.237	97.0149	ppb	38.6227	39.8	11.2377
Ni 231.604	0.4056	ppb	0.6663	164.3	2.9832
Pb 220.353	-0.4589	ppb	1.4876	324.2	0.6133
Sb 206.834	1.6512	ppb	1.3002	78.7	5.4434
Se 196.026	-1.4101	ppb	11.4635	812.9	3.6902
Sn 189.925	38.4612	ppb	1.9689	5.1	23.6494
Sr 216.596	-0.1470	ppb	0.5649	384.4	-7.6552
Ti 334.941	1.1751	ppb	0.0768	6.5	371.538

F04102013.wvq. All Data Report 4/11/2013, 9:46:33 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Tl 190.794	1.5008	ppb	2.1822	145.4	0.3017
V 292.401	-0.0552	ppb	0.3256	590.2	7.5874
Zn 206.200	8.4274	ppb	0.6705	8.0	28.2289

**660-53619-a-3-a (Samp)**      **4/10/2013, 11:54:28 PM**      **Rack 2, Tube 53**  
**Weight: 1**      **Volume: 1**      **Dilution: 1**

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.2230	ppb	0.3271	146.7	-35.4355
Al 308.215	9.1255	ppb	1.6396	18.0	67.8400
As 188.980	-7.2259	ppb	8.9040	123.2	-2.1725
B 249.678	1.4366	ppb	0.3088	21.5	56.1785
Ba 389.178	-1.1459	ppb	0.3306	28.8	-34.4575
Be 313.042	-0.0060	ppb	0.0031	51.0	-68.7587
Ca 370.602	30.19	ppb	2.542	8.4	44.12
Cd 226.502	0.2883	ppb	0.1401	48.6	20.6471
Co 228.615	0.2438	ppb	0.3202	131.3	-8.3185
Cr 267.716	1.1826	ppb	0.0849	7.2	27.3294
Cu 324.754	3.2776	ppb	0.1022	3.1	226.970
Fe 271.441	96.0877	ppb	4.6572	4.8	72.2319
K 766.491	19.5508	ppb	0.3285	1.7	4743.65
Mg 279.078	3.7985	ppb	4.7373	124.7	34.5976
Mn 257.610	0.3515	ppb	0.0096	2.7	90.6648
Mo 202.032	-0.2803	ppb	1.1421	407.4	0.7568
Na 330.237	64.6889	ppb	73.3118	113.3	8.9006
Ni 231.604	0.4072	ppb	1.0186	250.2	2.9948
Pb 220.353	22.5240	ppb	3.9592	17.6	18.5647
Sb 206.834	-2.2224	ppb	2.7857	125.3	2.7870
Se 196.026	-7.0079	ppb	10.6208	151.6	2.1645
Sn 189.925	64.8412	ppb	3.1514	4.9	40.5501
Sr 216.596	-0.4085	ppb	0.7456	182.5	-9.2281
Ti 334.941	0.7935	ppb	0.0483	6.1	284.462
Tl 190.794	1.9963	ppb	3.5462	177.6	0.5414
V 292.401	-0.0343	ppb	0.2427	708.5	8.4065
Zn 206.200	11.6229	ppb	0.2095	1.8	38.4101

**700-75803-a-1-a (Samp)**      **4/10/2013, 11:59:55 PM**      **Rack 2, Tube 54**  
**Weight: 1**      **Volume: 1**      **Dilution: 1**

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.9350	ppb	0.3723	39.8	-58.4909
Al 308.215	4.3831	ppb	2.3578	53.8	53.5607
As 188.980	-8.7225	ppb	4.3957	50.4	-2.7241
B 249.678	1.3562	ppb	0.6229	45.9	55.6339
Ba 389.178	-0.7871	ppb	0.8251	104.8	-28.4193
Be 313.042	-0.0125	ppb	0.0068	54.2	-79.4753
Ca 370.602	21.38	ppb	3.684	17.2	25.95
Cd 226.502	0.1394	ppb	0.1555	111.6	17.0310
Co 228.615	-0.3037	ppb	0.3619	119.2	-12.9397
Cr 267.716	1.0973	ppb	0.6987	63.7	25.9151
Cu 324.754	6.8759	ppb	0.6036	8.8	366.094
Fe 271.441	6.1046	ppb	6.4303	105.3	0.1342
K 766.491	20.6569	ppb	2.2236	10.8	4893.65

F04102013.wvq. All Data Report 4/11/2013, 9:46:33 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Mg 279.078	1.6853	ppb	1.4603	86.7	32.3779
Mn 257.610	-0.2486	ppb	0.0270	10.9	29.4851
Mo 202.032	0.7987	ppb	0.6657	83.3	4.6694
Na 330.237	392.568	ppb	144.939	36.9	32.2376
Ni 231.604	1.1488	ppb	0.2958	25.8	5.2467
Pb 220.353	-2.2668	ppb	2.0593	90.8	-0.7808
Sb 206.834	-2.0099	ppb	2.3649	117.7	2.9875
Se 196.026	-0.8625	ppb	21.9500	2545.0	3.8387
Sn 189.925	32.0988	ppb	5.1719	16.1	19.5738
Sr 216.596	-0.1674	ppb	0.6365	380.2	-7.7982
Ti 334.941	2.6615	ppb	0.2713	10.2	710.912
Tl 190.794	-2.1753	ppb	2.9945	137.7	-1.4874
V 292.401	0.0752	ppb	0.2220	295.1	11.6635
Zn 206.200	2.3434	ppb	0.8212	35.0	8.8473

700-75803-a-1-b ms (Samp) 4/11/2013, 12:05:22 AM Rack 2, Tube 55

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	30.3906	ppb	0.5242	1.7	958.075
Al 308.215	10950.8	ppb	18.8952	0.2	33079.5
As 188.980	206.385	ppb	5.1118	2.5	76.4641
B 249.678	399.468	ppb	0.4561	0.1	3766.69
Ba 389.178	222.039	ppb	1.2765	0.6	3826.71
Be 313.042	118.027	ppb	0.1729	0.1	196400
Ca 370.602	10806	ppb	23.40	0.2	41859
Cd 226.502	110.185	ppb	0.5635	0.5	2569.62
Co 228.615	110.207	ppb	0.9769	0.9	925.725
Cr 267.716	227.831	ppb	0.4191	0.2	3921.28
Cu 324.754	238.641	ppb	1.1767	0.5	9301.33
Fe 271.441	10609.3	ppb	13.1976	0.1	8500.90
K 766.491	9912.34	ppb	19.8639	0.2	1346968
Mg 279.078	10596.8	ppb	27.9457	0.3	12780.0
Mn 257.610	1154.85	ppb	2.3759	0.2	117645
Mo 202.032	224.026	ppb	1.6816	0.8	809.897
Na 330.237	10494.1	ppb	57.1066	0.5	744.024
Ni 231.604	221.293	ppb	0.9886	0.4	677.301
Pb 220.353	108.328	ppb	1.0982	1.0	83.9901
Sb 206.834	96.0434	ppb	4.9500	5.2	70.5948
Se 196.026	211.395	ppb	21.3611	10.1	61.8157
Sn 189.925	441.491	ppb	2.8618	0.6	281.875
Sr 216.596	217.075	ppb	0.5754	0.3	1344.85
Ti 334.941	219.805	ppb	0.3872	0.2	50316.9
Tl 190.794	83.2931	ppb	10.6487	12.8	39.7462
V 292.401	222.266	ppb	0.4146	0.2	6687.15
Zn 206.200	218.103	ppb	0.9097	0.4	695.900

700-75803-a-1-c msd (Samp) 4/11/2013, 12:10:50 AM Rack 2, Tube 56

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	28.5549	ppb	0.1622	0.6	898.569
Al 308.215	10660.1	ppb	38.5678	0.4	32202.5

F04102013.wvq. All Data Report 4/11/2013, 9:46:33 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	201.233	ppb	0.7405	0.4	74.5676
B 249.678	389.278	ppb	1.3335	0.3	3671.64
Ba 389.178	216.265	ppb	0.3108	0.1	3726.83
Be 313.042	114.870	ppb	0.2943	0.3	191145
Ca 370.602	10519	ppb	35.31	0.3	40739
Cd 226.502	106.611	ppb	0.5400	0.5	2486.94
Co 228.615	107.750	ppb	0.6281	0.6	904.847
Cr 267.716	221.404	ppb	0.1581	0.1	3810.82
Cu 324.754	230.941	ppb	1.2928	0.6	9004.31
Fe 271.441	10369.0	ppb	24.4116	0.2	8308.28
K 766.491	9699.82	ppb	18.7225	0.2	1318134
Mg 279.078	10322.4	ppb	24.1721	0.2	12449.7
Mn 257.610	1125.25	ppb	2.6027	0.2	114630
Mo 202.032	217.836	ppb	1.3540	0.6	787.561
Na 330.237	10138.8	ppb	63.0529	0.6	718.911
Ni 231.604	216.081	ppb	2.9444	1.4	661.384
Pb 220.353	102.950	ppb	4.3664	4.2	79.8331
Sb 206.834	89.4084	ppb	1.8629	2.1	66.0830
Se 196.026	193.897	ppb	9.5891	4.9	57.0466
Sn 189.925	424.445	ppb	6.5675	1.5	270.953
Sr 216.596	211.173	ppb	0.8218	0.4	1308.09
Ti 334.941	213.933	ppb	0.5960	0.3	48975.5
Tl 190.794	73.3715	ppb	6.0844	8.3	34.9187
V 292.401	216.510	ppb	0.7930	0.4	6514.19
Zn 206.200	215.153	ppb	0.7758	0.4	686.513

700-75803-a-2-a (Samp)

4/11/2013, 12:16:17 AM

Rack 2, Tube 57

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.3931	ppb	0.4137	105.3	-40.9419
Al 308.215	5.6638	ppb	1.2180	21.5	57.4187
As 188.980	-2.5196	ppb	8.0678	320.2	-0.4376
B 249.678	2.4539	ppb	0.2466	10.0	65.8290
Ba 389.178	-1.7700	ppb	0.3394	19.2	-45.2218
Be 313.042	0.0011	ppb	0.0044	381.5	-56.7624
Ca 370.602	26.03	ppb	4.525	17.4	36.23
Cd 226.502	0.1796	ppb	0.0173	9.6	18.0512
Co 228.615	0.0010	ppb	0.3412	32670.6	-10.3477
Cr 267.716	0.9452	ppb	0.2828	29.9	23.2714
Cu 324.754	1.7878	ppb	0.3019	16.9	169.340
Fe 271.441	51.2837	ppb	2.0229	3.9	36.3251
K 766.491	20.5726	ppb	0.2043	1.0	4882.45
Mg 279.078	-0.5536	ppb	2.1557	389.4	29.5116
Mn 257.610	0.0216	ppb	0.0412	190.2	57.0361
Mo 202.032	0.1805	ppb	0.4366	241.8	2.4286
Na 330.237	62.2543	ppb	95.1629	152.9	8.7255
Ni 231.604	1.5438	ppb	1.3966	90.5	6.4569
Pb 220.353	-0.0199	ppb	3.6681	18444.8	0.9723
Sb 206.834	-3.0351	ppb	0.4747	15.6	2.2986
Se 196.026	-10.1332	ppb	8.2744	81.7	1.3142
Sn 189.925	29.1509	ppb	2.3795	8.2	17.6851
Sr 216.596	-0.4763	ppb	0.8267	173.6	-9.7218
Ti 334.941	2.7982	ppb	0.0498	1.8	742.161



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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Tl 190.794	4.1823	ppb	4.4527	106.5	1.6103
V 292.401	0.1148	ppb	0.2124	185.0	12.8730
Zn 206.200	6.3599	ppb	1.1609	18.3	21.6428

**680-89056-a-3-a (Samp)**      **4/11/2013, 12:21:44 AM**      **Rack 2, Tube 58**  
**Weight: 1**      **Volume: 1**      **Dilution: 1**

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.6343	ppb	1.0336	163.0	-6.9967
Al 308.215	13.8664	ppb	2.5421	18.3	89.0201
As 188.980	1.5232	ppb	12.0740	792.7	1.0659
B 249.678	224.527	ppb	0.7640	0.3	2147.09
Ba 389.178	1.6939	ppb	0.9356	55.2	16.5653
Be 313.042	-0.0093	ppb	0.0058	63.0	-103.848
Ca 370.602	2645	ppb	5.276	0.2	10633
Cd 226.502	0.2009	ppb	0.2033	101.2	19.0889
Co 228.615	-0.1020	ppb	0.4353	426.7	-16.2569
Cr 267.716	1.9415	ppb	0.1584	8.2	40.4823
Cu 324.754	36.4535	ppb	0.3999	1.1	1504.72
Fe 271.441	304.292	ppb	10.1184	3.3	239.337
K 766.491	107.249	ppb	0.2355	0.2	16642.0
Mg 279.078	312.595	ppb	5.7258	1.8	406.562
Mn 257.610	1.5081	ppb	0.0342	2.3	209.509
Mo 202.032	298.788	ppb	1.5075	0.5	1081.84
Na 330.237	817.126	ppb	74.6428	9.1	65.5283
Ni 231.604	2.6826	ppb	0.2986	11.1	9.9136
Pb 220.353	4.7262	ppb	0.8492	18.0	4.2778
Sb 206.834	0.4767	ppb	2.5214	528.9	4.0646
Se 196.026	-5.2084	ppb	10.3543	198.8	2.6613
Sn 189.925	27.7725	ppb	3.7584	13.5	16.7929
Sr 216.596	0.7011	ppb	0.6809	97.1	-7.5149
Ti 334.941	6.0830	ppb	0.0500	0.8	1495.13
Tl 190.794	1.5404	ppb	3.7179	241.4	-0.0334
V 292.401	0.5162	ppb	0.0606	11.7	-48.7818
Zn 206.200	1828.14	ppb	3.5614	0.2	5825.14

**680-89056-b-5-a (Samp)**      **4/11/2013, 12:27:12 AM**      **Rack 2, Tube 59**  
**Weight: 1**      **Volume: 1**      **Dilution: 1**

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0554	ppb	0.4195	757.1	-28.5098
Al 308.215	16.1364	ppb	2.8389	17.6	103.230
As 188.980	-2.2270	ppb	7.3234	328.9	-0.2550
B 249.678	420.102	ppb	0.9186	0.2	3980.15
Ba 389.178	-0.5468	ppb	0.6603	120.8	-19.3601
Be 313.042	-0.0137	ppb	0.0068	49.4	-144.824
Ca 370.602	2077	ppb	13.86	0.7	8333
Cd 226.502	0.1528	ppb	0.0697	45.6	17.8834
Co 228.615	-0.3294	ppb	0.2278	69.2	-23.7406
Cr 267.716	2.0098	ppb	0.3105	15.4	41.9167
Cu 324.754	46.6283	ppb	0.1635	0.4	1902.39
Fe 271.441	253.483	ppb	2.7374	1.1	198.977
K 766.491	30.0026	ppb	0.3325	1.1	6161.56

F04102013.wvq. All Data Report 4/11/2013, 9:46:33 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Mg 279.078	802.404	ppb	6.9040	0.9	997.985
Mn 257.610	0.4347	ppb	0.0684	15.7	101.417
Mo 202.032	619.445	ppb	3.1124	0.5	2241.00
Na 330.237	7.2233	ppb	140.435	1944.2	7.8992
Ni 231.604	1.2802	ppb	0.4419	34.5	5.6051
Pb 220.353	13.3477	ppb	4.3644	32.7	10.5798
Sb 206.834	1.6041	ppb	5.4520	339.9	4.1492
Se 196.026	-7.2402	ppb	3.2909	45.5	2.1099
Sn 189.925	18.9625	ppb	4.9873	26.3	11.1492
Sr 216.596	0.3657	ppb	0.2111	57.7	-15.3429
Ti 334.941	0.4016	ppb	0.0279	7.0	197.343
Tl 190.794	-1.0108	ppb	5.6582	559.8	-1.6168
V 292.401	0.0650	ppb	0.2241	345.0	-141.884
Zn 206.200	1777.75	ppb	16.7979	0.9	5664.62

660-53661-a-1-a (Samp)

4/11/2013, 12:32:40 AM

Rack 2, Tube 60

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.5515	ppb	0.3939	71.4	-10.9533
Al 308.215	4977.98	ppb	8.9953	0.2	15079.5
As 188.980	22.5223	ppb	4.2218	18.7	8.6117
B 249.678	102.154	ppb	0.9458	0.9	986.813
Ba 389.178	399.684	ppb	0.5252	0.1	6851.16
Be 313.042	0.1743	ppb	0.0061	3.5	536.469
Ca 370.602	11726	ppb	29.14	0.2	46128
Cd 226.502	1.0440	ppb	0.1101	10.5	54.6793
Co 228.615	240.564	ppb	0.3672	0.2	2032.58
Cr 267.716	20.2919	ppb	0.1904	0.9	348.408
Cu 324.754	246.145	ppb	0.4702	0.2	9581.88
Fe 271.441	7660.68	ppb	7.9209	0.1	6148.43
K 766.491	3556.44	ppb	5.6182	0.2	484526
Mg 279.078	1465.20	ppb	3.4608	0.2	1770.29
Mn 257.610	116.646	ppb	0.2779	0.2	11941.2
Mo 202.032	134.988	ppb	0.4092	0.3	487.826
Na 330.237	11479.7	ppb	85.0488	0.7	824.590
Ni 231.604	263.172	ppb	0.7630	0.3	804.275
Pb 220.353	80.3846	ppb	0.8506	1.1	63.0137
Sb 206.834	100.638	ppb	2.0057	2.0	71.8252
Se 196.026	-4.8768	ppb	9.3220	191.2	2.7139
Sn 189.925	40.0560	ppb	3.5129	8.8	24.6410
Sr 216.596	81.8807	ppb	0.4657	0.6	497.373
Ti 334.941	44.7327	ppb	0.0161	0.0	10333.8
Tl 190.794	-7.4118	ppb	9.2571	124.9	-3.7634
V 292.401	488.201	ppb	1.1737	0.2	14793.9
Zn 206.200	4456.91	ppb	7.1199	0.2	14199.5

Cont Calib Verif (CCV)

4/11/2013, 12:38:08 AM

Rack 3, Tube 1

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	492.421	ppb	0.9129	0.2	15920.4	98.48429
Al 308.215	5131.16	ppb	11.2777	0.2	15787.9	102.62316

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
As 188.980	492.885	ppb	5.6062	1.1	182.973	98.57705
B 249.678	505.972	ppb	3.0121	0.6	4786.88	20.23890Q
Ba 389.178	5071.34	ppb	7.0187	0.1	86969.3	101.42678
Be 313.042	514.549	ppb	0.5175	0.1	859049	102.90987
Ca 370.602	4991	ppb	14.96	0.3	19549	99.81506
Cd 226.502	500.994	ppb	0.7799	0.2	11538.3	100.19874
Co 228.615	504.172	ppb	0.2464	0.0	4277.04	100.83440
Cr 267.716	5086.97	ppb	0.6532	0.0	87506.1	101.73944
Cu 324.754	5162.37	ppb	27.4965	0.5	199649	103.24748
Fe 271.441	4912.98	ppb	9.7883	0.2	3996.33	98.25963
K 766.491	10172.4	ppb	18.5453	0.2	1380863	101.72379
Mg 279.078	5046.24	ppb	10.3177	0.2	6093.46	100.92474
Mn 257.610	5246.98	ppb	3.3298	0.1	534145	104.93951
Mo 202.032	500.878	ppb	0.8282	0.2	1802.13	100.17553
Na 330.237	7362.15	ppb	56.0030	0.8	526.127	98.16200
Ni 231.604	2582.01	ppb	2.8820	0.1	7875.05	103.28030
Pb 220.353	492.815	ppb	1.0374	0.2	380.222	98.56306
Sb 206.834	905.049	ppb	6.6129	0.7	651.180	36.20196Q
Se 196.026	4947.64	ppb	19.0035	0.4	1352.01	98.95275
Sn 189.925	4822.88	ppb	8.1447	0.2	3088.97	96.45770
Sr 216.596	2498.36	ppb	1.8087	0.1	15517.7	99.93460
Ti 334.941	496.172	ppb	0.4631	0.1	113734	99.23430
Tl 190.794	4908.23	ppb	23.1384	0.5	2398.68	98.16461
V 292.401	4976.73	ppb	9.2150	0.2	150592	99.53454
Zn 206.200	2554.41	ppb	9.4005	0.4	8118.62	102.17630

Cont Calib Blank (CCB)

4/11/2013, 12:43:36 AM

Rack 3, Tube 2

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	-0.4429	ppb	0.5682	128.3	-42.5277	-0.44286
Al 308.215	0.3689	ppb	2.2188	601.5	41.4720	0.36889
As 188.980	-6.6307	ppb	9.0581	136.6	-1.9526	-6.63069
B 249.678	2.1184	ppb	0.6577	31.0	62.8119	2.11838
Ba 389.178	-0.9020	ppb	0.7259	80.5	-30.4098	-0.90205
Be 313.042	0.0111	ppb	0.0091	82.2	-40.0813	0.01107
Ca 370.602	-3.109	ppb	4.180	134.5	-72.22	-3.10890
Cd 226.502	0.1564	ppb	0.2064	132.0	17.4042	0.15643
Co 228.615	-0.0686	ppb	0.4479	653.3	-10.9841	-0.06856
Cr 267.716	0.4056	ppb	0.2063	50.9	14.0106	0.40556
Cu 324.754	0.3799	ppb	0.1708	45.0	114.969	0.37995
Fe 271.441	-1.4971	ppb	5.2724	352.2	-5.9480	-1.49711
K 766.491	1.2827	ppb	0.4516	35.2	2264.83	1.28268
Mg 279.078	-6.4682	ppb	6.2480	96.6	22.5688	-6.46823
Mn 257.610	-0.0190	ppb	0.1161	611.6	52.7922	-0.01898
Mo 202.032	0.6360	ppb	0.3532	55.5	4.0818	0.63603
Na 330.237	-117.219	ppb	39.9044	34.0	-3.9963	-117.21869
Ni 231.604	0.5808	ppb	0.8167	140.6	3.5144	0.58082
Pb 220.353	-1.3624	ppb	2.9167	214.1	-0.0742	-1.36240
Sb 206.834	-0.8056	ppb	2.3651	293.6	3.8607	-0.80558
Se 196.026	-12.5097	ppb	4.4819	35.8	0.6679	-12.50971Z
Sn 189.925	0.2546	ppb	4.0602	1595.0	-0.8286	0.25457
Sr 216.596	-0.4135	ppb	0.5458	132.0	-9.3185	-0.41350
Ti 334.941	-0.6477	ppb	0.0140	2.2	44.6618	-0.64774

F04102013.wvq. All Data Report 4/11/2013, 9:46:33 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Tl 190.794	-4.2540	ppb	3.4815	81.8	-2.5021	-4.25404
V 292.401	0.3651	ppb	0.1887	51.7	20.4434	0.36506
Zn 206.200	0.8731	ppb	0.4245	48.6	4.1650	0.87310

**660-53661-a-2-a (Samp)**      **4/11/2013, 12:49:04 AM**      **Rack 3, Tube 3**  
**Weight: 1**      **Volume: 1**      **Dilution: 1**

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	1.3563	ppb	0.5515	40.7	13.6181
Al 308.215	16892.6	ppb	766.350	4.5	51002.3
As 188.980	100.579	ppb	2.4688	2.5	37.2468
B 249.678	680.005	ppb	28.7644	4.2	6393.62
Ba 389.178	516.720	ppb	22.4089	4.3	8866.56
Be 313.042	0.2534	ppb	0.0216	8.5	513.646
Ca 370.602	24996	ppb	975.7	3.9	99156
Cd 226.502	1.6840	ppb	0.2539	15.1	80.4645
Co 228.615	67.1524	ppb	2.5617	3.8	558.586
Cr 267.716	75.6902	ppb	3.5646	4.7	1300.96
Cu 324.754	537.199	ppb	29.4460	5.5	20805.0
Fe 271.441	12464.8	ppb	547.376	4.4	9986.02
K 766.491	5869.56	ppb	218.148	3.7	798344
Mg 279.078	2951.26	ppb	132.771	4.5	3546.21
Mn 257.610	174.032	ppb	7.4147	4.3	17793.9
Mo 202.032	322.930	ppb	16.0263	5.0	1167.15
Na 330.237	25949.2	ppb	1441.96	5.6	1853.76
Ni 231.604	203.996	ppb	9.3281	4.6	624.347
Pb 220.353	151.747	ppb	6.1806	4.1	117.325
Sb 206.834	344.783	ppb	14.4074	4.2	237.002
Se 196.026	4.5749	ppb	12.1945	266.6	5.3144
Sn 189.925	50.1194	ppb	1.9512	3.9	31.0855
Sr 216.596	104.255	ppb	4.5707	4.4	639.167
Ti 334.941	218.526	ppb	9.9847	4.6	50030.7
Tl 190.794	-1.5312	ppb	2.9224	190.9	-2.0374
V 292.401	274.562	ppb	12.5345	4.6	8262.42
Zn 206.200	6549.01	ppb	283.085	4.3	20864.1

**mb 680-272516/15-a (Samp)**      **4/11/2013, 12:54:32 AM**      **Rack 3, Tube 4**  
**Weight: 1**      **Volume: 1**      **Dilution: 1**

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1296	ppb	0.5692	439.3	-32.3857
Al 308.215	2.7554	ppb	0.8199	29.8	48.6533
As 188.980	-2.5611	ppb	3.7695	147.2	-0.4524
B 249.678	2.7420	ppb	0.3106	11.3	68.6378
Ba 389.178	-1.2643	ppb	1.2791	101.2	-36.6039
Be 313.042	-0.0188	ppb	0.0059	31.5	-89.9668
Ca 370.602	9.623	ppb	2.585	26.9	-22.69
Cd 226.502	-0.0196	ppb	0.1292	658.2	13.3825
Co 228.615	0.0896	ppb	0.4024	448.9	-9.6394
Cr 267.716	0.6071	ppb	0.2420	39.9	17.4736
Cu 324.754	0.0567	ppb	0.1099	193.8	102.436
Fe 271.441	9.3961	ppb	1.2554	13.4	2.7747
K 766.491	9.4731	ppb	0.5388	5.7	3376.32

F04102013.wvq. All Data Report 4/11/2013, 9:46:33 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Mg 279.078	0.3248	ppb	5.5666	1713.8	30.7269
Mn 257.610	-0.3283	ppb	0.0678	20.6	21.3261
Mo 202.032	-0.0789	ppb	0.4965	629.1	1.4962
Na 330.237	-5.1618	ppb	69.2669	1341.9	3.9669
Ni 231.604	0.1322	ppb	0.3992	302.1	2.1476
Pb 220.353	-1.8651	ppb	3.3962	182.1	-0.4665
Sb 206.834	-2.5148	ppb	1.8791	74.7	2.6911
Se 196.026	-6.2876	ppb	1.6741	26.6	2.3616
Sn 189.925	8.9151	ppb	4.1818	46.9	4.7199
Sr 216.596	-0.0230	ppb	0.5020	2179.9	-6.8486
Ti 334.941	-0.5377	ppb	0.0315	5.9	-19.5213
Tl 190.794	-5.0037	ppb	5.1048	102.0	-2.8685
V 292.401	0.1053	ppb	0.3019	286.6	12.5690
Zn 206.200	0.3072	ppb	0.4324	140.7	2.3622

680-89134-d-1-a (Samp) 4/11/2013, 1:00:00 AM Rack 3, Tube 5

Weight: 1 Volume: 1 Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	1.9330	ppb	1.1922	61.7	38.5792
Al 308.215	59780.0	ppb	1888.14	3.2	180326
As 188.980	26.1633	ppb	17.4252	66.6	9.3729
B 249.678	27.2028	ppb	1.1464	4.2	281.791
Ba 389.178	609.547	ppb	19.2383	3.2	10453.7
Be 313.042	2.9443	ppb	0.0943	3.2	5000.61
Ca 370.602	55006	ppb	1558	2.8	222376
Cd 226.502	5.9893	ppb	0.2737	4.6	169.620
Co 228.615	8.7473	ppb	0.7435	8.5	70.5137
Cr 267.716	52.9768	ppb	1.2907	2.4	915.689
Cu 324.754	107.058	ppb	5.2378	4.9	4077.10
Fe 271.441	6643.31	ppb	194.363	2.9	5319.20
K 766.491	3688.18	ppb	86.7063	2.4	502341
Mg 279.078	5364.56	ppb	157.579	2.9	6478.40
Mn 257.610	1527.35	ppb	42.4093	2.8	155543
Mo 202.032	9.0188	ppb	0.2012	2.2	33.8538
Na 330.237	7044.71	ppb	165.361	2.3	499.988
Ni 231.604	58.4353	ppb	1.3098	2.2	180.512
Pb 220.353	33.9851	ppb	2.9482	8.7	21.9862
Sb 206.834	0.6226	ppb	4.8580	780.3	5.0457
Se 196.026	2.7825	ppb	22.2640	800.2	5.4162
Sn 189.925	21.8912	ppb	0.9300	4.2	12.9290
Sr 216.596	265.901	ppb	6.1787	2.3	1661.45
Ti 334.941	418.551	ppb	12.7209	3.0	95736.4
Tl 190.794	1.4510	ppb	5.1594	355.6	-0.7250
V 292.401	220.568	ppb	6.1972	2.8	6700.01
Zn 206.200	688.204	ppb	18.8808	2.7	2193.87

680-89134-d-1-aSD^5 (Samp) 4/11/2013, 1:05:28 AM Rack 3, Tube 6

Weight: 1 Volume: 1 Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1010	ppb	0.1248	123.6	-24.0696
Al 308.215	11755.2	ppb	28.8295	0.2	35491.7

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	-0.6628	ppb	8.0166	1209.6	0.0964
B 249.678	5.2177	ppb	0.4214	8.1	88.6187
Ba 389.178	122.291	ppb	0.1974	0.2	2085.35
Be 313.042	0.5695	ppb	0.0072	1.3	920.622
Ca 370.602	10857	ppb	40.61	0.4	43843
Cd 226.502	1.1488	ppb	0.0123	1.1	43.8256
Co 228.615	1.9929	ppb	0.6067	30.4	7.8541
Cr 267.716	10.5211	ppb	0.5238	5.0	187.494
Cu 324.754	21.1312	ppb	0.2057	1.0	885.224
Fe 271.441	1326.31	ppb	7.8886	0.6	1058.15
K 766.491	703.872	ppb	1.8047	0.3	97559.3
Mg 279.078	1087.78	ppb	7.3739	0.7	1337.94
Mn 257.610	307.766	ppb	1.2502	0.4	31386.2
Mo 202.032	1.5298	ppb	1.0518	68.8	7.2055
Na 330.237	1401.30	ppb	22.2975	1.6	102.931
Ni 231.604	12.9839	ppb	1.1895	9.2	41.4522
Pb 220.353	6.3419	ppb	2.6489	41.8	4.8517
Sb 206.834	-0.6383	ppb	2.7684	433.7	4.0125
Se 196.026	-6.0685	ppb	6.4037	105.5	2.5380
Sn 189.925	3.6762	ppb	1.5087	41.0	1.3432
Sr 216.596	53.2444	ppb	0.8248	1.5	327.269
Ti 334.941	83.1417	ppb	0.3588	0.4	19099.9
Tl 190.794	-1.9025	ppb	4.0928	215.1	-1.5531
V 292.401	43.8014	ppb	0.2223	0.5	1338.11
Zn 206.200	139.220	ppb	1.0948	0.8	444.913

680-89134-d-1-aPDS (Samp) 4/11/2013, 1:10:56 AM Rack 3, Tube 7

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	50.5814	ppb	0.5880	1.2	1613.36
Al 308.215	59742.4	ppb	54.3162	0.1	180250
As 188.980	2057.37	ppb	13.4443	0.7	758.169
B 249.678	987.699	ppb	2.6993	0.3	9302.99
Ba 389.178	2629.82	ppb	3.1578	0.1	45102.7
Be 313.042	54.4302	ppb	0.0701	0.1	90911.4
Ca 370.602	58089	ppb	71.21	0.1	234898
Cd 226.502	55.8194	ppb	0.0736	0.1	1316.44
Co 228.615	516.545	ppb	1.2620	0.2	4392.24
Cr 267.716	255.776	ppb	0.3753	0.1	4402.84
Cu 324.754	366.020	ppb	1.2952	0.4	14074.7
Fe 271.441	7361.38	ppb	12.5400	0.2	5924.69
K 766.491	8978.03	ppb	6.3788	0.1	1219508
Mg 279.078	10299.7	ppb	29.3515	0.3	12431.8
Mn 257.610	1995.98	ppb	3.1753	0.2	203268
Mo 202.032	526.435	ppb	2.6332	0.5	1903.21
Na 330.237	12031.8	ppb	4.6100	0.0	847.547
Ni 231.604	563.800	ppb	1.0133	0.2	1721.87
Pb 220.353	517.634	ppb	4.7310	0.9	398.490
Sb 206.834	462.829	ppb	9.6725	2.1	314.214
Se 196.026	1993.69	ppb	18.4143	0.9	547.543
Sn 189.925	987.138	ppb	3.9681	0.4	631.569
Sr 216.596	759.737	ppb	0.3466	0.0	4723.42
Ti 334.941	1395.85	ppb	1.6996	0.1	318889

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Tl 190.794	1968.25	ppb	5.6825	0.3	959.748
V 292.401	714.505	ppb	1.0747	0.2	21558.6
Zn 206.200	1160.67	ppb	1.9315	0.2	3698.34

**X (Samp)** 4/11/2013, 1:16:23 AM Rack 3, Tube 8  
**Weight: 1** Volume: 1 Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.7377	ppb	0.1833	24.8	-52.0771
Al 308.215	1.9817	ppb	3.0079	151.8	46.3171
As 188.980	-3.0145	ppb	3.7014	122.8	-0.6194
B 249.678	3.4523	ppb	0.7215	20.9	75.3296
Ba 389.178	-0.3827	ppb	0.5245	137.0	-21.5055
Be 313.042	-0.0210	ppb	0.0069	33.0	-93.6312
Ca 370.602	-2.739	ppb	2.238	81.7	-71.09
Cd 226.502	-0.0476	ppb	0.1125	236.4	12.7200
Co 228.615	-0.0052	ppb	0.2920	5582.6	-10.4451
Cr 267.716	0.0128	ppb	0.2540	1978.5	7.2549
Cu 324.754	-0.0435	ppb	0.1855	426.9	98.5949
Fe 271.441	-0.6947	ppb	8.1207	1169.0	-5.3060
K 766.491	1.2358	ppb	0.1923	15.6	2258.37
Mg 279.078	0.3955	ppb	2.0386	515.4	30.8472
Mn 257.610	-0.2235	ppb	0.0482	21.6	31.9845
Mo 202.032	0.1584	ppb	0.1480	93.5	2.3556
Na 330.237	-108.160	ppb	69.6606	64.4	-3.3532
Ni 231.604	-0.4884	ppb	1.0762	220.3	0.2590
Pb 220.353	-1.5130	ppb	2.5280	167.1	-0.1916
Sb 206.834	-0.7079	ppb	0.9700	137.0	3.9267
Se 196.026	-5.3698	ppb	7.6311	142.1	2.6116
Sn 189.925	-0.5496	ppb	3.9114	711.7	-1.3437
Sr 216.596	0.0301	ppb	0.1426	474.4	-6.5010
Ti 334.941	-0.5465	ppb	0.0071	1.3	-21.5797
Tl 190.794	-0.2392	ppb	4.3205	1806.5	-0.5450
V 292.401	-0.0320	ppb	0.1387	433.9	8.3992
Zn 206.200	1.0956	ppb	0.3391	30.9	4.8753

**CRI (Samp)** 4/11/2013, 1:21:51 AM Rack 3, Tube 9  
**Weight: 1** Volume: 1 Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	10.0501	ppb	0.6037	6.0	297.307
Al 308.215	218.331	ppb	12.9850	5.9	699.535
As 188.980	17.8425	ppb	2.8448	15.9	7.0584
B 249.678	99.7659	ppb	4.3765	4.4	979.458
Ba 389.178	9.8226	ppb	0.3645	3.7	154.630
Be 313.042	4.3804	ppb	0.1526	3.5	7233.77
Ca 370.602	520.4	ppb	20.45	3.9	2047
Cd 226.502	5.3781	ppb	0.1996	3.7	137.543
Co 228.615	10.7500	ppb	0.8104	7.5	80.9149
Cr 267.716	10.5373	ppb	0.1545	1.5	188.265
Cu 324.754	21.8044	ppb	1.4058	6.4	942.169
Fe 271.441	56.4068	ppb	6.8232	12.1	41.0547
K 766.491	1099.81	ppb	34.1782	3.1	151314

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Mg 279.078	531.611	ppb	17.7964	3.3	671.835
Mn 257.610	10.9070	ppb	0.5173	4.7	1166.47
Mo 202.032	9.7903	ppb	0.1850	1.9	37.1492
Na 330.237	979.616	ppb	106.234	10.8	73.9503
Ni 231.604	43.1549	ppb	0.6537	1.5	133.317
Pb 220.353	9.7463	ppb	5.6621	58.1	8.5513
Sb 206.834	13.6939	ppb	2.2914	16.7	13.6323
Se 196.026	24.4789	ppb	4.2191	17.2	10.7444
Sn 189.925	49.7558	ppb	4.6474	9.3	30.8859
Sr 216.596	10.6731	ppb	0.3811	3.6	58.2826
Ti 334.941	9.5848	ppb	0.3701	3.9	2292.85
Tl 190.794	21.4014	ppb	0.8718	4.1	10.0224
V 292.401	10.5060	ppb	0.5024	4.8	325.074
Zn 206.200	21.6173	ppb	1.2936	6.0	70.2267

CCV (Samp)

4/11/2013, 1:27:19 AM

Rack 3, Tube 10

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	492.800	ppb	1.3491	0.3	15932.7
Al 308.215	5156.56	ppb	4.2102	0.1	15864.6
As 188.980	487.510	ppb	6.4886	1.3	180.992
B 249.678	504.989	ppb	1.6513	0.3	4777.66
Ba 389.178	5063.78	ppb	7.6556	0.2	86839.7
Be 313.042	515.268	ppb	0.1833	0.0	860248
Ca 370.602	4986	ppb	10.67	0.2	19530
Cd 226.502	501.024	ppb	0.6458	0.1	11539.0
Co 228.615	504.192	ppb	0.6740	0.1	4277.23
Cr 267.716	5072.52	ppb	10.9629	0.2	87257.4
Cu 324.754	5122.01	ppb	36.8586	0.7	198088
Fe 271.441	4918.65	ppb	9.1187	0.2	4000.93
K 766.491	10173.5	ppb	10.3941	0.1	1381020
Mg 279.078	5078.91	ppb	5.2377	0.1	6132.87
Mn 257.610	5242.55	ppb	12.7299	0.2	533694
Mo 202.032	501.258	ppb	3.9110	0.8	1803.50
Na 330.237	7374.07	ppb	118.431	1.6	526.980
Ni 231.604	2583.75	ppb	1.3186	0.1	7880.35
Pb 220.353	502.917	ppb	1.6035	0.3	388.105
Sb 206.834	898.026	ppb	6.3066	0.7	646.453
Se 196.026	4937.67	ppb	24.8187	0.5	1349.30
Sn 189.925	4803.70	ppb	5.6599	0.1	3076.68
Sr 216.596	2505.12	ppb	1.8727	0.1	15559.9
Ti 334.941	496.047	ppb	1.0313	0.2	113706
Tl 190.794	4877.05	ppb	12.5929	0.3	2383.48
V 292.401	4981.78	ppb	4.4395	0.1	150746
Zn 206.200	2556.50	ppb	5.9517	0.2	8125.29

CCB (Samp)

4/11/2013, 1:32:47 AM

Rack 3, Tube 11

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1669	ppb	0.2957	177.1	-33.5909
Al 308.215	0.0793	ppb	0.5541	698.9	40.5990



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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	-5.4720	ppb	3.9402	72.0	-1.5254
B 249.678	1.8727	ppb	0.0325	1.7	60.4927
Ba 389.178	-0.5561	ppb	0.4489	80.7	-24.4703
Be 313.042	0.0398	ppb	0.0072	18.2	7.7794
Ca 370.602	-5.773	ppb	3.066	53.1	-84.13
Cd 226.502	0.0221	ppb	0.0617	279.0	14.3296
Co 228.615	0.0172	ppb	0.6316	3679.8	-10.2554
Cr 267.716	0.7242	ppb	0.2903	40.1	19.4912
Cu 324.754	0.5921	ppb	0.3700	62.5	123.183
Fe 271.441	2.5525	ppb	12.4511	487.8	-2.7030
K 766.491	2.2025	ppb	0.3368	15.3	2389.52
Mg 279.078	-4.0039	ppb	6.9721	174.1	25.5226
Mn 257.610	0.1949	ppb	0.0236	12.1	74.5653
Mo 202.032	-0.1047	ppb	0.5116	488.7	1.4034
Na 330.237	-0.8732	ppb	83.0438	9510.0	4.2759
Ni 231.604	0.6807	ppb	0.6156	90.4	3.8252
Pb 220.353	-0.9057	ppb	1.3437	148.4	0.2821
Sb 206.834	-3.5048	ppb	0.9270	26.4	2.0388
Se 196.026	1.3425	ppb	5.2777	393.1	4.4390
Sn 189.925	1.4683	ppb	4.2373	288.6	-0.0509
Sr 216.596	0.2074	ppb	0.1808	87.2	-5.4334
Ti 334.941	-0.6588	ppb	0.0357	5.4	-47.1861
Tl 190.794	4.3814	ppb	1.8023	41.1	1.7082
V 292.401	0.3804	ppb	0.1979	52.0	20.9002
Zn 206.200	0.4186	ppb	0.5390	128.8	2.7168

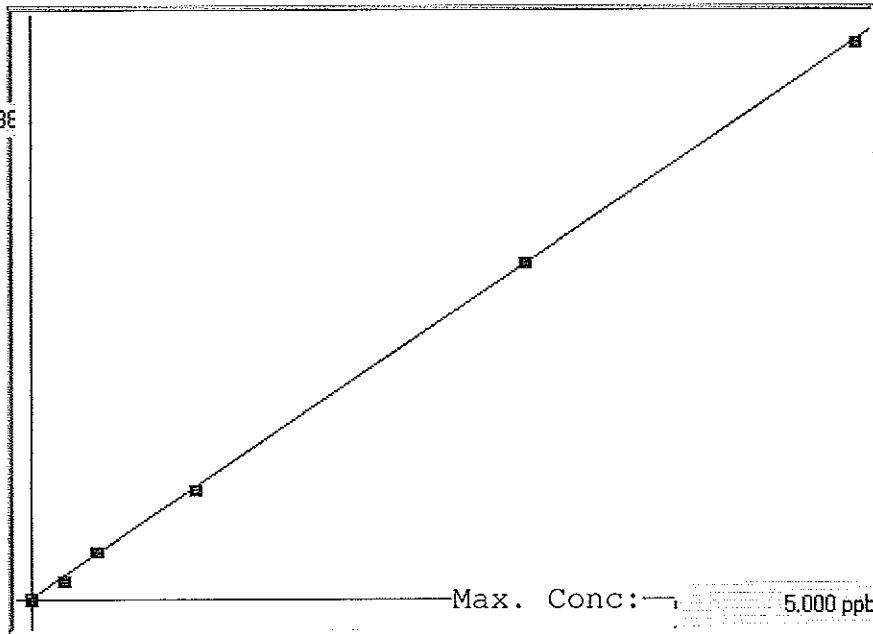


Hg Norm2

Linear

μ Abs.:

18289



A= 0.0000e+000

B= 2.7333e-004

C= -1.1119e-002

Rho= 0.9999524

Accept=Accepted

Std ID	Conc.	Calc.	Dev.	Mean	SD or %RSD	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
blank	0.000	-0.001	-0.001	35	3.300	40	32	35		
0.2	0.200	0.178	-0.022	693	0.6 %	688	697	696		
0.4	0.400	0.425	0.025	1595	0.1 %	1596	1597	1594		
1.0	1.000	0.988	-0.012	3655	0.4 %	3664	3668	3635		
3.0	3.000	3.022	0.022	11098	0.2 %	11083	11084	11128		
5.0	5.000	4.987	-0.013	18288	0.1 %	18299	18305	18260		

## C04092013A

Method: Hg Norm2

Operator: Admin

Date of Analysis: 09 Apr 2013 11:32:53

Sample ID	Extended ID	Mean	RSD	Date
blank		36	9.2519	09 Apr 2013 11:36:41
0.2		694	0.5806	09 Apr 2013 11:39:06
0.4		1596	0.0782	09 Apr 2013 11:41:34
1.0		3656	0.4022	09 Apr 2013 11:44:00
3.0		11098	0.1891	09 Apr 2013 11:46:27
5.0		18288	0.1091	09 Apr 2013 11:48:53
ICV		3.0441	0.7637	09 Apr 2013 11:51:20
ICB		-0.0096	-5.3856	09 Apr 2013 11:53:46
CRA		0.1797	1.1385	09 Apr 2013 11:56:11
CCV		2.5878	0.5322	09 Apr 2013 11:58:39
CCB		-0.0081	-0.0000	09 Apr 2013 12:01:06
mb 680-272267/1-a	(BCB)	-0.0008	-207.0176	09 Apr 2013 12:03:31
lcs 680-272267/2-a	(BCB)	2.7066	0.2800	09 Apr 2013 12:05:57
680-88960-a-26-a	(BCB)	45.7197	0.1548	09 Apr 2013 12:08:23
680-88960-a-26-b ms	(BCB)	48.8583	0.1818	09 Apr 2013 12:10:49
680-88960-a-26-c msd	(BCB)	45.7360	0.3360	09 Apr 2013 12:13:15
680-88960-a-27-a	(BCB)	8.0413	0.7051	09 Apr 2013 12:15:41
680-88960-a-28-a	(BCB)	0.6883	0.4386	09 Apr 2013 12:18:07
680-88960-a-30-a	(BCB)	1.5776	0.3472	09 Apr 2013 12:20:33
680-88960-a-31-a	(BCB)	0.5097	0.3775	09 Apr 2013 12:22:59
680-88960-a-33-a	(BCB)	15.6689	0.2415	09 Apr 2013 12:25:27
CCV		2.5800	0.4508	09 Apr 2013 12:27:53
CCB		-0.0079	-4.2989	09 Apr 2013 12:30:20
680-88960-a-34-a	(BCB)	25.0550	0.1760	09 Apr 2013 12:32:46
680-88960-a-35-a	(BCB)	3.0099	0.1491	09 Apr 2013 12:35:15
680-88960-a-37-a	(BCB)	HIGH	0.0000	09 Apr 2013 12:37:43
680-88960-a-38-a	(BCB)	HIGH	0.0000	09 Apr 2013 12:40:02
680-88960-a-39-a	(BCB)	0.8690	0.2718	09 Apr 2013 12:42:21
680-88960-a-41-a	(BCB)	12.8325	0.6983	09 Apr 2013 12:44:49
680-88960-a-42-a	(BCB)	2.8535	0.3960	09 Apr 2013 12:47:17
680-88960-a-43-a	(BCB)	0.4826	0.9066	09 Apr 2013 12:49:44
mb 680-272221/1-a	(BCB)	-0.0030	-40.8352	09 Apr 2013 12:52:11
lcs 680-272221/2-a	(BCB)	2.6960	0.0391	09 Apr 2013 12:54:37
CCV		2.6913	0.1665	09 Apr 2013 12:57:04
CCB		0.0082	16.4121	09 Apr 2013 12:59:30
680-88983-d-1-d	(BCB)	0.7661	0.1345	09 Apr 2013 13:01:56
680-88983-c-3-b	(BCB)	0.5505	0.3277	09 Apr 2013 13:04:24
680-88983-d-5-b	(BCB)	1.4455	1.1855	09 Apr 2013 13:06:51
680-89036-d-2-b	(BCB)	0.4970	0.7944	09 Apr 2013 13:09:18
680-88924-a-2-c	(BCB)	1.6309	0.4110	09 Apr 2013 13:11:47
680-88924-a-4-c	(BCB)	1.2929	0.4979	09 Apr 2013 13:14:14
680-88924-a-6-a	(BCB)	0.1429	0.7040	09 Apr 2013 13:16:40
680-88924-a-8-c	(BCB)	0.1296	0.2631	09 Apr 2013 13:19:08
680-88924-a-11-c	(BCB)	0.4529	0.5129	09 Apr 2013 13:21:36
680-88924-a-13-c	(BCB)	0.1767	0.6685	09 Apr 2013 13:24:04
CCV		2.6984	0.1313	09 Apr 2013 13:26:31
CCB		0.0112	4.1468	09 Apr 2013 13:28:58
680-87674-a-24-d	(BCB)	3.0438	0.0661	09 Apr 2013 13:31:24
680-89038-b-6-d	(BCB)	4.4218	0.1780	09 Apr 2013 13:33:51
680-89038-b-6-e ms	(BCB)	4.8728	0.1963	09 Apr 2013 13:36:17
680-89038-b-6-f msd	(BCB)	4.7696	0.4417	09 Apr 2013 13:38:43
680-89038-b-9-b	(BCB)	2.1276	0.1102	09 Apr 2013 13:41:11
680-89038-b-10-b	(BCB)	2.3032	0.2178	09 Apr 2013 13:43:38
680-89038-b-30-b	(BCB)	3.0787	0.6937	09 Apr 2013 13:46:06
680-89038-a-33-b	(BCB)	2.2555	0.1189	09 Apr 2013 13:48:33
680-89038-a-34-b	(BCB)	2.0597	1.1443	09 Apr 2013 13:51:01
680-89038-a-35-b	(BCB)	4.4035	0.4540	09 Apr 2013 13:53:26
CCV		2.6960	0.5685	09 Apr 2013 13:55:54
CCB		-0.0002	-524.1442	09 Apr 2013 13:58:22
680-89038-a-36-b	(BCB)	3.6070	0.9658	09 Apr 2013 14:00:48

## C04092013A

Method: Hg Norm2

Operator: Admin

Date of Analysis: 09 Apr 2013 11:32:53

Sample ID	Extended ID	Mean	RSD	Date
mb 680-272219/1-a	(BCB)	0.0023	29.4375	09 Apr 2013 14:03:14
lcs 680-272219/2-a	(BCB)	2.7476	0.5637	09 Apr 2013 14:05:42
680-89004-b-1-b	(BCB)	0.4032	0.2786	09 Apr 2013 14:08:10
680-89004-b-2-b	(BCB)	0.5380	1.1615	09 Apr 2013 14:10:38
680-89004-b-3-b	(BCB)	0.2247	0.3035	09 Apr 2013 14:13:05
680-89004-b-4-b	(BCB)	0.1647	0.2070	09 Apr 2013 14:15:33
680-89004-b-5-b	(BCB)	0.0368	4.3019	09 Apr 2013 14:18:01
680-89004-b-6-b	(BCB)	0.3755	0.3957	09 Apr 2013 14:20:30
680-89004-b-7-b	(BCB)	0.2251	0.4989	09 Apr 2013 14:22:58
CCV		2.6823	0.2540	09 Apr 2013 14:25:25
CCB		-0.0036	-15.3968	09 Apr 2013 14:27:53
680-89004-b-8-b	(BCB)	0.2885	0.4726	09 Apr 2013 14:30:19
680-89004-b-9-b	(BCB)	0.0840	0.4602	09 Apr 2013 14:32:45
680-89004-b-10-b	(BCB)	1.3855	0.6239	09 Apr 2013 14:35:12
680-89004-b-11-b	(BCB)	0.6104	0.4387	09 Apr 2013 14:37:39
680-89004-b-12-b	(BCB)	0.8024	0.2365	09 Apr 2013 14:40:05
680-89004-b-13-b	(BCB)	0.7336	0.7917	09 Apr 2013 14:42:31
680-89004-b-14-b	(BCB)	0.4931	1.0482	09 Apr 2013 14:44:59
680-89004-b-15-b	(BCB)	0.5566	0.3825	09 Apr 2013 14:47:25
680-89004-b-16-b	(BCB)	0.3942	0.4935	09 Apr 2013 14:49:53
680-89004-b-17-d	(BCB)	0.3515	0.2643	09 Apr 2013 14:52:21
CCV		2.6947	0.5080	09 Apr 2013 14:54:49
CCB		0.0055	13.1315	09 Apr 2013 14:57:15
680-89004-b-17-e ms	(BCB)	1.3932	0.3476	09 Apr 2013 14:59:43
680-89004-b-17-f msd	(BCB)	1.7417	0.1808	09 Apr 2013 15:02:09
680-89004-b-18-b	(BCB)	0.4583	0.5069	09 Apr 2013 15:04:37
lb 680-272070/4-c	(BCB)	-0.0006	-122.2433	09 Apr 2013 15:07:04
680-89008-b-2-b	(BCB)	0.0123	2.7724	09 Apr 2013 15:09:31
680-89008-b-2-c ms	(BCB)	0.5154	0.4337	09 Apr 2013 15:11:57
680-89008-b-2-d msd	(BCB)	0.3108	0.2902	09 Apr 2013 15:14:24
mb 680-272218/1-a	(BCB)	0.0020	67.8400	09 Apr 2013 15:16:52
lcs 680-272218/2-a	(BCB)	2.9044	0.5728	09 Apr 2013 15:19:19
640-43022-a-1-a	(BCB)	-0.0018	-74.3606	09 Apr 2013 15:21:46
CCV		2.6586	0.0793	09 Apr 2013 15:24:14
CCB		-0.0024	-33.9200	09 Apr 2013 15:26:41
640-43022-a-2-a	(BCB)	3.4839	1.0564	09 Apr 2013 15:29:07
640-43022-a-3-a	(BCB)	2.2271	0.7190	09 Apr 2013 15:31:35
640-43022-a-4-a	(BCB)	0.4283	0.1203	09 Apr 2013 15:34:03
640-43022-a-5-a	(BCB)	34.7127	0.7817	09 Apr 2013 15:36:30
640-43022-a-6-a	(BCB)	0.1504	7.3543	09 Apr 2013 15:38:58
640-43022-a-7-a	(BCB)	0.1675	1.2376	09 Apr 2013 15:41:25
640-43022-a-8-a	(BCB)	0.0246	2.6193	09 Apr 2013 15:43:52
640-43022-a-9-a	(BCB)	0.0466	1.7285	09 Apr 2013 15:46:19
640-43022-a-10-a	(BCB)	2.9583	0.4313	09 Apr 2013 15:48:47
640-43022-a-11-a	(BCB)	0.0961	0.7093	09 Apr 2013 15:51:16
CCV		2.6485	0.2520	09 Apr 2013 15:53:43
CCB		0.0055	43.2959	09 Apr 2013 15:56:12
640-43022-a-12-a	(BCB)	0.4772	0.2210	09 Apr 2013 15:58:38
640-43026-b-1-b	(BCB)	0.0263	2.2428	09 Apr 2013 16:01:05
640-43026-b-2-b	(BCB)	0.0138	3.3554	09 Apr 2013 16:03:31
640-43026-b-3-b	(BCB)	0.8967	0.3802	09 Apr 2013 16:05:59
640-43026-b-4-b	(BCB)	0.3585	0.3428	09 Apr 2013 16:08:27
680-88980-b-8-f	(BCB)	2.4575	0.2199	09 Apr 2013 16:10:54
680-88980-b-8-g ms	(BCB)	3.5854	0.2940	09 Apr 2013 16:13:23
680-88980-b-8-h msd	(BCB)	3.6023	0.1124	09 Apr 2013 16:15:50
680-88980-b-25-d	(BCB)	1.4409	0.1162	09 Apr 2013 16:18:17
680-88980-a-26-b	(BCB)	3.0243	1.3541	09 Apr 2013 16:20:45
CCV		2.6841	0.6633	09 Apr 2013 16:23:13
CCB		-0.0257	-6.1001	09 Apr 2013 16:25:40
680-88980-a-27-b	(BCB)	1.7363	0.7006	09 Apr 2013 16:28:06

## C04092013A

Method: Hg Norm2

Operator: Admin

Date of Analysis: 09 Apr 2013 11:32:53

Sample ID	Extended ID	Mean	RSD	Date
680-88960-a-26-a	^20 (BCB)	2.5750	0.2310	09 Apr 2013 16:30:33
680-88960-a-26-b ms	^20 (BCB)	2.7871	0.6607	09 Apr 2013 16:33:01
680-88960-a-26-c msd	^20 (BCB)	2.6148	0.4259	09 Apr 2013 16:35:28
680-88960-a-27-a	(BCB)	0.8671	0.0257	09 Apr 2013 16:37:56
680-88960-a-28-a	(BCB)	0.7211	0.1116	09 Apr 2013 16:40:24
680-88960-a-33-a	^10 (BCB)	1.7662	0.4871	09 Apr 2013 16:42:52
680-88960-a-34-a	^20 (BCB)	1.3653	0.4688	09 Apr 2013 16:45:20
680-88960-a-35-a	(BCB)	2.9679	0.2256	09 Apr 2013 16:47:48
680-88960-a-37-a	^ 50 (BCB)	4.7345	0.3472	09 Apr 2013 16:50:16
CCV		2.5825	0.8080	09 Apr 2013 16:52:45
CCB		-0.0121	-12.5328	09 Apr 2013 16:55:12
680-88960-a-38-a	^ 50 (BCB)	2.7661	0.6359	09 Apr 2013 16:57:40
680-88960-a-39-a	(BCB)	0.8618	0.6303	09 Apr 2013 17:00:08
680-88960-a-41-a	^ 10 (BCB)	1.1862	0.0217	09 Apr 2013 17:02:36
680-88960-a-42-a	(BCB)	2.5773	1.0861	09 Apr 2013 17:05:06
CCV		2.3650	0.8401	09 Apr 2013 17:07:34
CCB		-0.0022	-58.8347	09 Apr 2013 17:10:02
640-43022-a-5-a	^20(BCB)	1.8367	1.0206	09 Apr 2013 17:17:48
CCV		2.4537	0.4685	09 Apr 2013 17:20:14
CCB		-0.0574	-0.2245	09 Apr 2013 17:22:40

METALS BATCH WORKSHEET

Lab Name: TestAmerica Savannah Job No.: 680-88980-3

SDG No.: 68088980-3

Batch Number: 271923 Batch Start Date: 04/04/13 13:27 Batch Analyst: Lawhon, Jon

Batch Method: 3050B Batch End Date: 04/05/13 09:00

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 680-271923/1		3050B, 6010C		CALC NOT SET TO RUN	1.04 g	100 mL			
LCS 680-271923/3		3050B, 6010C		CALC NOT SET TO RUN	1.03 g	100 mL	2 mL		
680-88980-B-8	CV0666B-CS	3050B, 6010C	T	CALC NOT SET TO RUN	1.08 g	100 mL			
680-88980-B-8 MS	CV0666B-CS	3050B, 6010C	T	CALC NOT SET TO RUN	1.09 g	100 mL		1 mL	1 mL
680-88980-B-8 MSD	CV0666B-CS	3050B, 6010C	T	CALC NOT SET TO RUN	1.07 g	100 mL		1 mL	1 mL

Lab Sample ID	Client Sample ID	Method Chain	Basis	AnalysisComment					
MB 680-271923/1		3050B, 6010C							
LCS 680-271923/3		3050B, 6010C		SN LCS					
680-88980-B-8	CV0666B-CS	3050B, 6010C	T						
680-88980-B-8 MS	CV0666B-CS	3050B, 6010C	T						
680-88980-B-8 MSD	CV0666B-CS	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.: 680-88980-3

SDG No.: 68088980-3

Batch Number: 271923 Batch Start Date: 04/04/13 13:27 Batch Analyst: Lawhon, Jon

Batch Method: 3050B Batch End Date: 04/05/13 09:00

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	9
Nominal Amount Used	1.0 g
Pipette ID	ME4
Perform Calculation (0=No, 1=Yes)	0
Temperature	94 Degrees C
ID number of the thermometer	MEPREP15
Digestion Tube/Cup Lot #	J155393-263-100

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.: 680-88980-3

SDG No.: 68088980-3

Batch Number: 272030 Batch Start Date: 04/05/13 09:31 Batch Analyst: Lawhon, Jon

Batch Method: 3050B Batch End Date: 04/05/13 14:25

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 680-272030/1		3050B, 6010C		CALC NOT SET TO RUN	1.00 g	100 mL			
LCS 680-272030/3		3050B, 6010C		CALC NOT SET TO RUN	1.02 g	100 mL	2 mL		
680-88980-B-25	CV1236B-CS	3050B, 6010C	T	CALC NOT SET TO RUN	1.00 g	100 mL			
680-88980-B-25 MS	CV1236B-CS	3050B, 6010C	T	CALC NOT SET TO RUN	1.01 g	100 mL		1 mL	1 mL
680-88980-B-25 MSD	CV1236B-CS	3050B, 6010C	T	CALC NOT SET TO RUN	1.02 g	100 mL		1 mL	1 mL
680-88980-A-26	CV0666B-CS (sieve)	3050B, 6010C	T	CALC NOT SET TO RUN	1.06 g	100 mL			
680-88980-A-27	CV1236B-CS (sieve)	3050B, 6010C	T	CALC NOT SET TO RUN	1.01 g	100 mL			

Lab Sample ID	Client Sample ID	Method Chain	Basis	AnalysisComment					
MB 680-272030/1		3050B, 6010C							
LCS 680-272030/3		3050B, 6010C		SN LCS					
680-88980-B-25	CV1236B-CS	3050B, 6010C	T						
680-88980-B-25 MS	CV1236B-CS	3050B, 6010C	T						
680-88980-B-25 MSD	CV1236B-CS	3050B, 6010C	T						
680-88980-A-26	CV0666B-CS (sieve)	3050B, 6010C	T						
680-88980-A-27	CV1236B-CS (sieve)	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.: 680-88980-3

SDG No.: 68088980-3

Batch Number: 272030 Batch Start Date: 04/05/13 09:31 Batch Analyst: Lawhon, Jon

Batch Method: 3050B Batch End Date: 04/05/13 14:25

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	9
Nominal Amount Used	1.0 g
Pipette ID	ME4
Perform Calculation (0=No, 1=Yes)	0
Temperature	94 Degrees C
ID number of the thermometer	MEPREP15
Digestion Tube/Cup Lot #	J155393-263-100

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.: 680-88980-3

SDG No.: 68088980-3

Batch Number: 272218 Batch Start Date: 04/08/13 10:02 Batch Analyst: Umbehr, Uli

Batch Method: 7471B Batch End Date: 04/08/13 16:40

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Hg_Int_Cal 00091			
MB 680-272218/1		7471B, 7471B		0.53 g	50 mL				
LCS 680-272218/2		7471B, 7471B		0.51 g	50 mL	0.25 mL			
680-88980-B-8	CV0666B-CS	7471B, 7471B	T	0.52 g	50 mL				
680-88980-B-8 MS	CV0666B-CS	7471B, 7471B	T	0.53 g	50 mL	0.1 mL			
680-88980-B-8 MSD	CV0666B-CS	7471B, 7471B	T	0.57 g	50 mL	0.1 mL			
680-88980-B-25	CV1236B-CS	7471B, 7471B	T	0.55 g	50 mL				
680-88980-A-26	CV0666B-CS (sieve)	7471B, 7471B	T	0.54 g	50 mL				
680-88980-A-27	CV1236B-CS (sieve)	7471B, 7471B	T	0.56 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.: 680-88980-3

SDG No.: 68088980-3

Batch Number: 272218 Batch Start Date: 04/08/13 10:02 Batch Analyst: Umbehr, Uli

Batch Method: 7471B Batch End Date: 04/08/13 16:40

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.

METALS BATCH WORKSHEET

Lab Name: TestAmerica Savannah Job No.: 680-88980-3

SDG No.: 68088980-3

Batch Number: 272221 Batch Start Date: 04/08/13 10:12 Batch Analyst: Umbehr, Uli

Batch Method: 7471A Batch End Date: 04/08/13 16:40

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	hg_icvint 00085	Hg_Int_Cal 00091	AnalysisComment	
CCV 680-272221/31		7471A, 7471B		50 mL	50 mL		0.25 mL		
CCB 680-272221/32		7471A, 7471B		50 mL	50 mL				
ICV 680-272221/34		7471A, 7471B		50 mL	50 mL	0.15 mL			
ICB 680-272221/35		7471A, 7471B		50 mL	50 mL				
CRA 680-272221/36		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.: 680-88980-3

SDG No.: 68088980-3

Batch Number: 272221 Batch Start Date: 04/08/13 10:12 Batch Analyst: Umbehr, Uli

Batch Method: 7471A Batch End Date: 04/08/13 16:40

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.

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah  
5102 LaRoche Avenue  
Savannah, GA 31404

Website: www.testamericainc.com  
Phone: (912) 354-7858  
Fax: (912) 352-0165

Alternate Laboratory Name/Location

Phone:  
Fax:

PROJECT REFERENCE: 35th Ave Removal PROJECT NO.: 2005148-1356 PROJECT LOCATION (STATE): AL MATRIX TYPE: \_\_\_\_\_

REQUIRED ANALYSIS: \_\_\_\_\_

PAGE 1 OF 3

**(b) (6)**

COMPOSITE (C) OR GRAB (G) INDICATE  
AQUEOUS (WATER)  
SOLID OR SEMISOLID  
AIR  
NONAQUEOUS LIQUID (OIL, SOLVENT, ...)

LL PAH  
RCRA Metals

PRESERVATIVE

STANDARD REPORT DELIVERY  DATE DUE \_\_\_\_\_

EXPEDITED REPORT DELIVERY (SURCHARGE)  DATE DUE \_\_\_\_\_

NUMBER OF COOLERS SUBMITTED PER SHIPMENT: \_\_\_\_\_

COMPANY CONTRACTING THIS WORK (if applicable)

SAMPLE		SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G)	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	REQUIRED ANALYSIS										REMARKS							
DATE	TIME							NUMBER OF CONTAINERS SUBMITTED																	
4-2-13	1000	HP0176A-CS-SP	C	X			X																		
	1010	HP0176B-CS-SP	C	X			X																		
	0920	HP0257A-CS-SP	C	X			X																		
	0930	HP0257B-CS-SP	C	X			X																		
	0940	CV0380A-CS	C	X			X																		
	0948	CV0380B-CS	C	X			X																		
	0910	CV0666A-CS	C	X			X																		
	0917	CV0666B-CS	C	X			X	X																	
	0840	CV0668A-CS	C	X			X																		
	0842	CV0668A-CSD	C	X			X																		
	0848	CV0668B-CS	C	X			X																		
	1020	CV0717A-CS	C	X			X																		

RELINQUISHED BY: (SIGNATURE) <i>[Signature]</i>	DATE 4-3-13	TIME 11:00	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 04/04/13	TIME 0952	CUSTODY INTACT YES <input type="radio"/> NO <input type="radio"/>	CUSTODY SEAL NO.	SAVANNAH LOG NO. 680 88980	LABORATORY REMARKS 2-8
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ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

Alternate Laboratory Name/Location

Phone:
Fax:

PROJECT REFERENCE: 35th Ave Removal
PROJECT NO.: 2005148-135C
PROJECT LOCATION (STATE): AL

MATRIX TYPE: LLPAH & Metals RCRA
REQUIRED ANALYSIS: PRESERVATIVE
PAGE 3 OF 3

(b) (6)

STANDARD REPORT DELIVERY: 0
DATE DUE:
EXPEDITED REPORT DELIVERY (SURCHARGE): 0
DATE DUE:

COMPANY CONTRACTING THIS WORK (if applicable)

PRESERVATIVE

NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

Table with columns: SAMPLE DATE, SAMPLE TIME, SAMPLE IDENTIFICATION, MATRIX TYPE (COMPOSITE, AQUEOUS, SOLID, AIR, NONAQUEOUS LIQUID), NUMBER OF CONTAINERS SUBMITTED, REMARKS. Includes handwritten entries for samples CV0236B-CS, CV0666B-CS (sieve), and CV1236B-CS (sieve).

Signature and date table for Relinquished and Received by. Includes signature of A. Anglin and date 4-3-13 11:00.

LABORATORY USE ONLY

Table for Laboratory Use Only including Custody Intact status, Savannah Log No. (98980), and Laboratory Remarks.



# 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: 680-88980-3

TestAmerica Sample Delivery Group: 68088980-3  
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:  
4/17/2013 12:13:06 PM

Bernard Kirkland  
Project Manager I  
[bernard.kirkland@testamericainc.com](mailto:bernard.kirkland@testamericainc.com)

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.*



### LINKS

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Have a Question?



Visit us at:  
[www.testamericainc.com](http://www.testamericainc.com)

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# Case Narrative

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

TestAmerica Job ID: 680-88980-3  
SDG: 68088980-3

**Job ID: 680-88980-3**

**Laboratory: TestAmerica Savannah**

**Narrative**

## CASE NARRATIVE

**Client: Oneida Total Integrated Enterprises LLC**

**Project: 35th Avenue Superfund Site**

**Report Number: 680-88980-3**

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 04/04/2013 in Savannah; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 2.8 C. However, in shipping to Tampa the coolers were not delivered due to FEDEX error. The following samples were received at the laboratory outside the required temperature criteria in Tampa on 4/8/2013 at 11.5 degrees C: CV0098A-CS (680-88980-18), CV0135A-CS (680-88980-19), CV0135B-CS (680-88980-20), CV0151A-CS (680-88980-21), CV0151A-CS (680-88980-21 MS), CV0151A-CS (680-88980-21 MSD), CV0151A-CSD (680-88980-22), CV0151B-CS (680-88980-23), CV0380A-CS (680-88980-5), CV0380B-CS (680-88980-6), CV0666A-CS (680-88980-7), CV0666B-CS (680-88980-8), CV0666B-CS (680-88980-8 MS), CV0666B-CS (680-88980-8 MSD), CV0668A-CS (680-88980-9), CV0668A-CSD (680-88980-10), CV0668B-CS (680-88980-11), CV0717A-CS (680-88980-12), CV0717B-CS (680-88980-13), CV0954A-CS-SP (680-88980-16), CV0954B-CS-SP (680-88980-17), CV1236A-CS (680-88980-24), CV1236B-CS (680-88980-25), HP0167A-CS-SP (680-88980-14), HP0167B-CS-SP (680-88980-15), HP0176A-CS-SP (680-88980-1), HP0176B-CS-SP (680-88980-2), HP0257A-CS-SP (680-88980-3), HP0257B-CS-SP (680-88980-4).

### METALS (ICP)

Samples CV0666B-CS (680-88980-8), CV1236B-CS (680-88980-25), CV0666B-CS (sieve) (680-88980-26) and CV1236B-CS (sieve) (680-88980-27) were analyzed for Metals (ICP) in accordance with EPA SW-846 Method 6010C. The samples were prepared on 04/04/2013 and 04/05/2013 and analyzed on 04/06/2013, 04/09/2013 and 04/10/2013.

Sample CV1236B-CS (sieve) (680-88980-27)[5X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

Several analytes recovered outside of the recovery criteria for the MS/MSD of sample CV1236B-CS (680-88980-25) in batch 680-272554. Barium and Silver exceeded the rpd limit.

Several analytes recovered outside of the recovery criteria low for the MS/MSD of sample CV0666B-CS (680-88980-8) in batch 680-272160.

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 metals analyses.

All other quality control parameters were within the acceptance limits.

### TOTAL MERCURY

Samples CV0666B-CS (680-88980-8), CV1236B-CS (680-88980-25), CV0666B-CS (sieve) (680-88980-26) and CV1236B-CS (sieve)

## Case Narrative

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

TestAmerica Job ID: 680-88980-3  
SDG: 68088980-3

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### Job ID: 680-88980-3 (Continued)

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#### Laboratory: TestAmerica Savannah (Continued)

(680-88980-27) were analyzed for total mercury in accordance with EPA SW-846 Method 7471B. The samples were prepared on 04/08/2013 and analyzed on 04/09/2013.

No difficulties were encountered during the mercury analyses.

All 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: 680-88980-3  
SDG: 68088980-3

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-88980-8	CV0666B-CS	Solid	04/02/13 09:17	04/04/13 09:52
680-88980-25	CV1236B-CS	Solid	04/02/13 15:05	04/04/13 09:52
680-88980-26	CV0666B-CS (sieve)	Solid	04/02/13 09:17	04/04/13 09:52
680-88980-27	CV1236B-CS (sieve)	Solid	04/02/13 15:05	04/04/13 09:52

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# Method Summary

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

TestAmerica Job ID: 680-88980-3  
SDG: 68088980-3

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:**

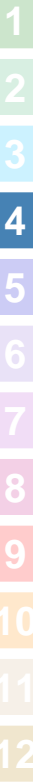
EPA = US Environmental Protection Agency

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: 680-88980-3  
SDG: 68088980-3

### Qualifiers

#### Metals

Qualifier	Qualifier Description
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
U	Indicates the analyte was analyzed for but not detected.

### 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: 680-88980-3  
 SDG: 68088980-3

**Client Sample ID: CV0666B-CS**

**Lab Sample ID: 680-88980-8**

Date Collected: 04/02/13 09:17

Matrix: Solid

Date Received: 04/04/13 09:52

Percent Solids: 53.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	45		3.5	1.0	mg/Kg	☼	04/04/13 13:27	04/06/13 05:51	1
Barium	1100		1.7	0.52	mg/Kg	☼	04/04/13 13:27	04/06/13 05:51	1
Cadmium	2.9		0.86	0.17	mg/Kg	☼	04/04/13 13:27	04/06/13 05:51	1
Chromium	61		1.7	0.86	mg/Kg	☼	04/04/13 13:27	04/06/13 05:51	1
Lead	450		1.7	0.92	mg/Kg	☼	04/04/13 13:27	04/06/13 05:51	1
Selenium	4.3	U	4.3	1.7	mg/Kg	☼	04/04/13 13:27	04/06/13 05:51	1
Silver	1.7	U	1.7	0.17	mg/Kg	☼	04/04/13 13:27	04/06/13 05:51	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	0.44		0.036	0.015	mg/Kg	☼	04/08/13 10:02	04/09/13 16:10	1

**Client Sample ID: CV1236B-CS**

**Lab Sample ID: 680-88980-25**

Date Collected: 04/02/13 15:05

Matrix: Solid

Date Received: 04/04/13 09:52

Percent Solids: 55.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	29		3.6	1.1	mg/Kg	☼	04/05/13 09:31	04/09/13 21:05	1
Barium	540		1.8	0.54	mg/Kg	☼	04/05/13 09:31	04/09/13 21:05	1
Cadmium	5.0		0.90	0.18	mg/Kg	☼	04/05/13 09:31	04/09/13 21:05	1
Chromium	47		1.8	0.90	mg/Kg	☼	04/05/13 09:31	04/09/13 21:05	1
Lead	650		1.8	0.95	mg/Kg	☼	04/05/13 09:31	04/09/13 21:05	1
Selenium	3.8	J	4.5	1.8	mg/Kg	☼	04/05/13 09:31	04/09/13 21:05	1
Silver	0.85	J	1.8	0.17	mg/Kg	☼	04/05/13 09:31	04/09/13 21:05	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	0.23		0.033	0.013	mg/Kg	☼	04/08/13 10:02	04/09/13 16:18	1

**Client Sample ID: CV0666B-CS (sieve)**

**Lab Sample ID: 680-88980-26**

Date Collected: 04/02/13 09:17

Matrix: Solid

Date Received: 04/04/13 09:52

Percent Solids: 76.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	20		2.5	0.72	mg/Kg	☼	04/05/13 09:31	04/09/13 21:32	1
Barium	310		1.2	0.37	mg/Kg	☼	04/05/13 09:31	04/09/13 21:32	1
Cadmium	2.1		0.61	0.12	mg/Kg	☼	04/05/13 09:31	04/09/13 21:32	1
Chromium	49		1.2	0.61	mg/Kg	☼	04/05/13 09:31	04/09/13 21:32	1
Lead	390		1.2	0.65	mg/Kg	☼	04/05/13 09:31	04/09/13 21:32	1
Selenium	2.8	J	3.1	1.2	mg/Kg	☼	04/05/13 09:31	04/09/13 21:32	1
Silver	0.22	J	1.2	0.12	mg/Kg	☼	04/05/13 09:31	04/09/13 21:32	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	0.36		0.024	0.0099	mg/Kg	☼	04/08/13 10:02	04/09/13 16:20	1

TestAmerica Savannah

# Client Sample Results

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

TestAmerica Job ID: 680-88980-3  
 SDG: 68088980-3

**Client Sample ID: CV1236B-CS (sieve)**

**Lab Sample ID: 680-88980-27**

Date Collected: 04/02/13 15:05

Matrix: Solid

Date Received: 04/04/13 09:52

Percent Solids: 76.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	20		2.6	0.76	mg/Kg	☼	04/05/13 09:31	04/09/13 21:37	1
Barium	500		1.3	0.39	mg/Kg	☼	04/05/13 09:31	04/09/13 21:37	1
Cadmium	4.1		0.64	0.13	mg/Kg	☼	04/05/13 09:31	04/09/13 21:37	1
Chromium	34		6.4	3.2	mg/Kg	☼	04/05/13 09:31	04/10/13 18:54	5
Lead	380		1.3	0.68	mg/Kg	☼	04/05/13 09:31	04/09/13 21:37	1
Selenium	16	U	16	6.4	mg/Kg	☼	04/05/13 09:31	04/10/13 18:54	5
Silver	6.4	U	6.4	0.62	mg/Kg	☼	04/05/13 09:31	04/10/13 18:54	5

**Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20		0.023	0.0095	mg/Kg	☼	04/08/13 10:02	04/09/13 16:28	1





# QC Sample Results

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

TestAmerica Job ID: 680-88980-3  
 SDG: 68088980-3

## Method: 6010C - Metals (ICP)

**Lab Sample ID: MB 680-271923/1-A**  
**Matrix: Solid**  
**Analysis Batch: 272160**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 271923**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	1.9	U	1.9	0.57	mg/Kg		04/04/13 13:27	04/06/13 03:42	1
Barium	0.96	U	0.96	0.29	mg/Kg		04/04/13 13:27	04/06/13 03:42	1
Cadmium	0.48	U	0.48	0.096	mg/Kg		04/04/13 13:27	04/06/13 03:42	1
Chromium	0.96	U	0.96	0.48	mg/Kg		04/04/13 13:27	04/06/13 03:42	1
Lead	0.96	U	0.96	0.51	mg/Kg		04/04/13 13:27	04/06/13 03:42	1
Selenium	2.4	U	2.4	0.96	mg/Kg		04/04/13 13:27	04/06/13 03:42	1
Silver	0.96	U	0.96	0.092	mg/Kg		04/04/13 13:27	04/06/13 03:42	1

**Lab Sample ID: LCS 680-271923/3-A**  
**Matrix: Solid**  
**Analysis Batch: 272160**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 271923**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	19.4	21.1		mg/Kg		109	75 - 125
Barium	19.4	19.6		mg/Kg		101	75 - 125
Cadmium	19.4	19.3		mg/Kg		99	75 - 125
Chromium	19.4	20.3		mg/Kg		104	75 - 125
Lead	19.4	19.0		mg/Kg		98	75 - 125
Selenium	19.4	18.8		mg/Kg		97	75 - 125
Silver	19.4	19.9		mg/Kg		102	75 - 125

**Lab Sample ID: 680-88980-8 MS**  
**Matrix: Solid**  
**Analysis Batch: 272160**

**Client Sample ID: CV0666B-CS**  
**Prep Type: Total/NA**  
**Prep Batch: 271923**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	45		17.1	60.8		mg/Kg	☼	91	75 - 125
Barium	1100		17.1	387	4	mg/Kg	☼	-4414	75 - 125
Cadmium	2.9		8.57	10.5		mg/Kg	☼	89	75 - 125
Chromium	61		17.1	80.0		mg/Kg	☼	110	75 - 125
Lead	450		8.57	485	4	mg/Kg	☼	374	75 - 125
Selenium	4.3	U	17.1	14.0		mg/Kg	☼	82	75 - 125
Silver	1.7	U	8.57	4.67	F	mg/Kg	☼	55	75 - 125

**Lab Sample ID: 680-88980-8 MSD**  
**Matrix: Solid**  
**Analysis Batch: 272160**

**Client Sample ID: CV0666B-CS**  
**Prep Type: Total/NA**  
**Prep Batch: 271923**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	45		17.5	54.4	F	mg/Kg	☼	53	75 - 125	11	20
Barium	1100		17.5	398	4	mg/Kg	☼	-4270	75 - 125	3	20
Cadmium	2.9		8.73	10.9		mg/Kg	☼	91	75 - 125	3	20
Chromium	61		17.5	76.8		mg/Kg	☼	90	75 - 125	4	20
Lead	450		8.73	542	4	mg/Kg	☼	1029	75 - 125	11	20
Selenium	4.3	U	17.5	15.4		mg/Kg	☼	88	75 - 125	9	20
Silver	1.7	U	8.73	4.73	F	mg/Kg	☼	54	75 - 125	1	20

# QC Sample Results

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

TestAmerica Job ID: 680-88980-3  
 SDG: 68088980-3

## Method: 6010C - Metals (ICP) (Continued)

**Lab Sample ID: MB 680-272030/1-A**  
**Matrix: Solid**  
**Analysis Batch: 272554**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 272030**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.0	U	2.0	0.59	mg/Kg		04/05/13 09:31	04/09/13 20:48	1
Barium	1.0	U	1.0	0.30	mg/Kg		04/05/13 09:31	04/09/13 20:48	1
Cadmium	0.50	U	0.50	0.10	mg/Kg		04/05/13 09:31	04/09/13 20:48	1
Chromium	1.0	U	1.0	0.50	mg/Kg		04/05/13 09:31	04/09/13 20:48	1
Lead	1.0	U	1.0	0.53	mg/Kg		04/05/13 09:31	04/09/13 20:48	1
Selenium	2.5	U	2.5	1.0	mg/Kg		04/05/13 09:31	04/09/13 20:48	1
Silver	1.0	U	1.0	0.096	mg/Kg		04/05/13 09:31	04/09/13 20:48	1

**Lab Sample ID: LCS 680-272030/3-A**  
**Matrix: Solid**  
**Analysis Batch: 272554**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 272030**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	19.6	19.6		mg/Kg		100	75 - 125
Barium	19.6	19.5		mg/Kg		99	75 - 125
Cadmium	19.6	20.2		mg/Kg		103	75 - 125
Chromium	19.6	20.8		mg/Kg		106	75 - 125
Lead	19.6	19.5		mg/Kg		100	75 - 125
Selenium	19.6	19.8		mg/Kg		101	75 - 125
Silver	19.6	19.8		mg/Kg		101	75 - 125

**Lab Sample ID: 680-88980-25 MS**  
**Matrix: Solid**  
**Analysis Batch: 272554**

**Client Sample ID: CV1236B-CS**  
**Prep Type: Total/NA**  
**Prep Batch: 272030**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	29		17.8	43.7		mg/Kg	☼	85	75 - 125
Barium	540		17.8	670	4	mg/Kg	☼	735	75 - 125
Cadmium	5.0		8.88	14.0		mg/Kg	☼	102	75 - 125
Chromium	47		17.8	64.9		mg/Kg	☼	101	75 - 125
Lead	650		8.88	484	4	mg/Kg	☼	-1888	75 - 125
Selenium	3.8	J	17.8	18.1		mg/Kg	☼	80	75 - 125
Silver	0.85	J	8.88	2.52	F	mg/Kg	☼	19	75 - 125

**Lab Sample ID: 680-88980-25 MSD**  
**Matrix: Solid**  
**Analysis Batch: 272554**

**Client Sample ID: CV1236B-CS**  
**Prep Type: Total/NA**  
**Prep Batch: 272030**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	29		17.6	39.5	F	mg/Kg	☼	62	75 - 125	10	20
Barium	540		17.6	546	4 F	mg/Kg	☼	32	75 - 125	21	20
Cadmium	5.0		8.79	12.9		mg/Kg	☼	90	75 - 125	8	20
Chromium	47		17.6	58.3	F	mg/Kg	☼	65	75 - 125	11	20
Lead	650		8.79	417	4	mg/Kg	☼	-2665	75 - 125	15	20
Selenium	3.8	J	17.6	16.4	F	mg/Kg	☼	71	75 - 125	10	20
Silver	0.85	J	8.79	4.48	F	mg/Kg	☼	41	75 - 125	56	20

# QC Sample Results

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

TestAmerica Job ID: 680-88980-3  
 SDG: 68088980-3

## Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

**Lab Sample ID: MB 680-272218/1-A**  
**Matrix: Solid**  
**Analysis Batch: 272484**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 272218**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.019	U	0.019	0.0077	mg/Kg		04/08/13 10:02	04/09/13 15:16	1

**Lab Sample ID: LCS 680-272218/2-A**  
**Matrix: Solid**  
**Analysis Batch: 272484**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 272218**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.245	0.285		mg/Kg		116	80 - 120

**Lab Sample ID: 680-88980-8 MS**  
**Matrix: Solid**  
**Analysis Batch: 272484**

**Client Sample ID: CV0666B-CS**  
**Prep Type: Total/NA**  
**Prep Batch: 272218**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.44		0.176	0.632		mg/Kg	☼	108	80 - 120

**Lab Sample ID: 680-88980-8 MSD**  
**Matrix: Solid**  
**Analysis Batch: 272484**

**Client Sample ID: CV0666B-CS**  
**Prep Type: Total/NA**  
**Prep Batch: 272218**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.44		0.164	0.590		mg/Kg	☼	91	80 - 120	7	20

# QC Association Summary

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

TestAmerica Job ID: 680-88980-3  
 SDG: 68088980-3

## Metals

### Prep Batch: 271923

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88980-8	CV0666B-CS	Total/NA	Solid	3050B	
680-88980-8 MS	CV0666B-CS	Total/NA	Solid	3050B	
680-88980-8 MSD	CV0666B-CS	Total/NA	Solid	3050B	
LCS 680-271923/3-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 680-271923/1-A	Method Blank	Total/NA	Solid	3050B	

### Prep Batch: 272030

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88980-25	CV1236B-CS	Total/NA	Solid	3050B	
680-88980-25 MS	CV1236B-CS	Total/NA	Solid	3050B	
680-88980-25 MSD	CV1236B-CS	Total/NA	Solid	3050B	
680-88980-26	CV0666B-CS (sieve)	Total/NA	Solid	3050B	
680-88980-27	CV1236B-CS (sieve)	Total/NA	Solid	3050B	
LCS 680-272030/3-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 680-272030/1-A	Method Blank	Total/NA	Solid	3050B	

### Analysis Batch: 272160

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88980-8	CV0666B-CS	Total/NA	Solid	6010C	271923
680-88980-8 MS	CV0666B-CS	Total/NA	Solid	6010C	271923
680-88980-8 MSD	CV0666B-CS	Total/NA	Solid	6010C	271923
LCS 680-271923/3-A	Lab Control Sample	Total/NA	Solid	6010C	271923
MB 680-271923/1-A	Method Blank	Total/NA	Solid	6010C	271923

### Prep Batch: 272218

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88980-8	CV0666B-CS	Total/NA	Solid	7471B	
680-88980-8 MS	CV0666B-CS	Total/NA	Solid	7471B	
680-88980-8 MSD	CV0666B-CS	Total/NA	Solid	7471B	
680-88980-25	CV1236B-CS	Total/NA	Solid	7471B	
680-88980-26	CV0666B-CS (sieve)	Total/NA	Solid	7471B	
680-88980-27	CV1236B-CS (sieve)	Total/NA	Solid	7471B	
LCS 680-272218/2-A	Lab Control Sample	Total/NA	Solid	7471B	
MB 680-272218/1-A	Method Blank	Total/NA	Solid	7471B	

### Analysis Batch: 272484

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88980-8	CV0666B-CS	Total/NA	Solid	7471B	272218
680-88980-8 MS	CV0666B-CS	Total/NA	Solid	7471B	272218
680-88980-8 MSD	CV0666B-CS	Total/NA	Solid	7471B	272218
680-88980-25	CV1236B-CS	Total/NA	Solid	7471B	272218
680-88980-26	CV0666B-CS (sieve)	Total/NA	Solid	7471B	272218
680-88980-27	CV1236B-CS (sieve)	Total/NA	Solid	7471B	272218
LCS 680-272218/2-A	Lab Control Sample	Total/NA	Solid	7471B	272218
MB 680-272218/1-A	Method Blank	Total/NA	Solid	7471B	272218

### Analysis Batch: 272554

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88980-25	CV1236B-CS	Total/NA	Solid	6010C	272030
680-88980-25 MS	CV1236B-CS	Total/NA	Solid	6010C	272030
680-88980-25 MSD	CV1236B-CS	Total/NA	Solid	6010C	272030

TestAmerica Savannah

# QC Association Summary

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

TestAmerica Job ID: 680-88980-3  
SDG: 68088980-3

## Metals (Continued)

### Analysis Batch: 272554 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88980-26	CV0666B-CS (sieve)	Total/NA	Solid	6010C	272030
680-88980-27	CV1236B-CS (sieve)	Total/NA	Solid	6010C	272030
LCS 680-272030/3-A	Lab Control Sample	Total/NA	Solid	6010C	272030
MB 680-272030/1-A	Method Blank	Total/NA	Solid	6010C	272030

### Analysis Batch: 272682

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88980-27	CV1236B-CS (sieve)	Total/NA	Solid	6010C	272030

## General Chemistry

### Analysis Batch: 136226

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88980-8	CV0666B-CS	Total/NA	Solid	Moisture	
680-88980-8 MS	CV0666B-CS	Total/NA	Solid	Moisture	
680-88980-8 MSD	CV0666B-CS	Total/NA	Solid	Moisture	
680-88980-25	CV1236B-CS	Total/NA	Solid	Moisture	

### Analysis Batch: 272365

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88980-26	CV0666B-CS (sieve)	Total/NA	Solid	Moisture	

### Analysis Batch: 272453

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88980-27	CV1236B-CS (sieve)	Total/NA	Solid	Moisture	

# Lab Chronicle

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

TestAmerica Job ID: 680-88980-3  
 SDG: 68088980-3

**Client Sample ID: CV0666B-CS**

**Lab Sample ID: 680-88980-8**

Date Collected: 04/02/13 09:17

Matrix: Solid

Date Received: 04/04/13 09:52

Percent Solids: 53.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			271923	04/04/13 13:27	JKL	TAL SAV
Total/NA	Analysis	6010C		1	272160	04/06/13 05:51	BCB	TAL SAV
Total/NA	Prep	7471B			272218	04/08/13 10:02	UU	TAL SAV
Total/NA	Analysis	7471B		1	272484	04/09/13 16:10	BCB	TAL SAV
Total/NA	Analysis	Moisture		1	136226	04/08/13 13:01	AG	TAL TAM

**Client Sample ID: CV1236B-CS**

**Lab Sample ID: 680-88980-25**

Date Collected: 04/02/13 15:05

Matrix: Solid

Date Received: 04/04/13 09:52

Percent Solids: 55.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471B			272218	04/08/13 10:02	UU	TAL SAV
Total/NA	Analysis	7471B		1	272484	04/09/13 16:18	BCB	TAL SAV
Total/NA	Prep	3050B			272030	04/05/13 09:31	JKL	TAL SAV
Total/NA	Analysis	6010C		1	272554	04/09/13 21:05	BCB	TAL SAV
Total/NA	Analysis	Moisture		1	136226	04/08/13 13:01	AG	TAL TAM

**Client Sample ID: CV0666B-CS (sieve)**

**Lab Sample ID: 680-88980-26**

Date Collected: 04/02/13 09:17

Matrix: Solid

Date Received: 04/04/13 09:52

Percent Solids: 76.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471B			272218	04/08/13 10:02	UU	TAL SAV
Total/NA	Analysis	7471B		1	272484	04/09/13 16:20	BCB	TAL SAV
Total/NA	Prep	3050B			272030	04/05/13 09:31	JKL	TAL SAV
Total/NA	Analysis	6010C		1	272554	04/09/13 21:32	BCB	TAL SAV
Total/NA	Analysis	Moisture		1	272365	04/09/13 11:05	FS	TAL SAV

**Client Sample ID: CV1236B-CS (sieve)**

**Lab Sample ID: 680-88980-27**

Date Collected: 04/02/13 15:05

Matrix: Solid

Date Received: 04/04/13 09:52

Percent Solids: 76.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471B			272218	04/08/13 10:02	UU	TAL SAV
Total/NA	Analysis	7471B		1	272484	04/09/13 16:28	BCB	TAL SAV
Total/NA	Prep	3050B			272030	04/05/13 09:31	JKL	TAL SAV
Total/NA	Analysis	6010C		1	272554	04/09/13 21:37	BCB	TAL SAV
Total/NA	Prep	3050B			272030	04/05/13 09:31	JKL	TAL SAV
Total/NA	Analysis	6010C		5	272682	04/10/13 18:54	BCB	TAL SAV
Total/NA	Analysis	Moisture		1	272453	04/09/13 15:30	FS	TAL SAV

# Lab Chronicle

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

TestAmerica Job ID: 680-88980-3  
SDG: 68088980-3

**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

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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>35th Ave Removal</i>	PROJECT NO. <i>2005148-1356</i>	PROJECT LOCATION (STATE) <i>AL</i>	MATRIX TYPE	REQUIRED ANALYSIS	PAGE <i>1</i>	OF <i>3</i>
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(b) (6)	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	STANDARD REPORT DELIVERY <input type="radio"/>	DATE DUE _____
					<i>LL PAH</i> <i>Trace Metals</i>	EXPEDITED REPORT DELIVERY (SURCHARGE) <input type="radio"/>	DATE DUE _____

COMPANY CONTRACTING THIS WORK (if applicable)

PRESERVATIVE

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>4-2-13</i>	<i>1000</i>	<i>HP0176A-CS-SP</i>	<i>C</i>	<i>X</i>			<i>X</i>															
	<i>1010</i>	<i>HP0176B-CS-SP</i>	<i>C</i>	<i>X</i>			<i>X</i>															
	<i>0920</i>	<i>HP0257A-CS-SP</i>	<i>C</i>	<i>X</i>			<i>X</i>															
	<i>0930</i>	<i>HP0257B-CS-SP</i>	<i>C</i>	<i>X</i>			<i>X</i>															
	<i>0940</i>	<i>CV0380A-CS</i>	<i>C</i>	<i>X</i>			<i>X</i>															
	<i>0948</i>	<i>CV0380B-CS</i>	<i>C</i>	<i>X</i>			<i>X</i>															
	<i>0910</i>	<i>CV0666A-CS</i>	<i>C</i>	<i>X</i>			<i>X</i>															
	<i>0917</i>	<i>CV0666B-CS</i>	<i>C</i>	<i>X</i>			<i>X</i>	<i>X</i>														
	<i>0840</i>	<i>CV0668A-CS</i>	<i>C</i>	<i>X</i>			<i>X</i>															
	<i>0842</i>	<i>CV0668A-CSD</i>	<i>C</i>	<i>X</i>			<i>X</i>															
	<i>0848</i>	<i>CV0668B-CS</i>	<i>C</i>	<i>X</i>			<i>X</i>															
	<i>1020</i>	<i>CV0717A-CS</i>	<i>C</i>	<i>X</i>			<i>X</i>															

RELINQUISHED BY: (SIGNATURE) <i>[Signature]</i>	DATE <i>4-3-13</i>	TIME <i>11:00</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>04/04/13</i>	TIME <i>0952</i>	CUSTODY INTACT YES <input type="radio"/> NO <input type="radio"/>	CUSTODY SEAL NO.	SAVANNAH LOG NO. <i>680</i> <i>88980</i>	LABORATORY REMARKS <i>2-8</i>
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ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah  
5102 LaRoche Avenue  
Savannah, GA 31404  
Website: www.testamericainc.com  
Phone: (912) 354-7858  
Fax: (912) 352-0165

Alternate Laboratory Name/Location  
Phone:  
Fax:

PROJECT REFERENCE: 35th Ave Removal PROJECT NO.: 2005148-135C PROJECT LOCATION (STATE): AL MATRIX TYPE: 8 REQUIRED ANALYSIS: LLPAH Merals ROLA PAGE 3 OF 3

**(b) (6)**

STANDARD REPORT DELIVERY  DATE DUE \_\_\_\_\_  
EXPEDITED REPORT DELIVERY (SURCHARGE)  DATE DUE \_\_\_\_\_

COMPANY CONTRACTING THIS WORK (if applicable)

PRESERVATIVE

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		
4-2-13	1505	CV0236B-CS	C	X			X	X														
	0917	CV0666B-CS (sieve)	C	X				X														
	1505	CV1236B-CS (sieve)	C	X				X														
/																						

RELINQUISHED BY: (SIGNATURE) <i>[Signature]</i>	DATE <u>4-3-13</u>	TIME <u>1100</u>	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 <u>04/04/13</u>	TIME <u>0902</u>	CUSTODY INTACT YES <input type="radio"/> NO <input type="radio"/>	CUSTODY SEAL NO.	SAVANNAH LOG NO. <u>680</u> <u>98980</u>	LABORATORY REMARKS <u>28'</u>
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4/17/2013



## Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88980-3

SDG Number: 68088980-3

**Login Number: 88980**

**List Number: 1**

**Creator: Barnett, Eddie T**

**List Source: TestAmerica Savannah**

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	N/A	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (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: 680-88980-3

SDG Number: 68088980-3

**Login Number: 88980**

**List Number: 1**

**Creator: McNulty, Carol**

**List Source: TestAmerica Tampa**

**List Creation: 04/08/13 12:35 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 legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

## Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88980-3

SDG Number: 68088980-3

**Login Number: 88980**

**List Number: 3**

**Creator: McNulty, Carol**

**List Source: TestAmerica Tampa**

**List Creation: 04/12/13 08:13 AM**

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (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: 680-88980-3  
 SDG: 68088980-3

## Laboratory: TestAmerica Savannah

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
A2LA	DoD ELAP		0399-01	05-31-13
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
New York	NELAP	2	10842	04-01-14
North Carolina DENR	State Program	4	269	12-31-13
North Carolina DHHS	State Program	4	13701	07-31-13
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

\* Expired certification is currently pending renewal and is considered valid.

TestAmerica Savannah

# Certification Summary

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

TestAmerica Job ID: 680-88980-3  
SDG: 68088980-3

## Laboratory: TestAmerica Tampa (Continued)

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Georgia	State Program	4	905	06-30-13
USDA	Federal		P330-11-00177	04-20-14

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